TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS

PROJECT NAME:	**SCANNELL-NEWBURGH COMMERCE CENTER**
PROJECT NO.:	**2021-21**
PROJECT LOCATION:	**SECTION 95, BLOCK 1, LOT 58**
REVIEW DATE:	**11 MARCH 2022**
MEETING DATE:	**17 MARCH 2022**
PROJECT REPRESENTATIVE:	**LANGAN ENGINEERING**

1. The project is before the Board for a Public Hearing for Site Plan and a Clearing & Grading Permit under Chapter 83 of the Town's Code.

2. Comments prepared for the 3 March 2022 Planning Board meeting remain outstanding and should be addressed by the Applicants representative.

3. Update on NYSDOT review of the plans and revision to the drainage system within the DOT right-of-way should be provided.

Respectfully submitted,

MHE Engineering, D.P.C.

Patrick J. Hines
Principal

PJH/kbw

NEW YORK OFFICE
33 Airport Center Drive, Suite 202, New Windsor, NY 12553
845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

PENNSYLVANIA OFFICE
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TOWN OF NEWBURGH
WATER SYSTEM NOTES FOR SITE PLANS

1. "Construction of potable water utilities and connection to the Town of Newburgh water system requires a permit from the Town of Newburgh Water Department. All work and materials shall conform to the requirements of the NYSDOH and the Town of Newburgh."

2. All water service lines four (4) inches and larger in diameter shall be cement lined class 52 ductile iron pipe conforming to ANSI\AWWA C151\A21.51 for Ductile Iron Pipe, latest revision. Joints shall be either push-on or mechanical joint as required.

3. Thrust restraint of the pipe shall be through the use of joint restraint. Thrust blocks are not acceptable. Joint restraint shall be through the use of mechanical joint pipe with retainer glands. All fittings and valves shall also be installed with retainer glands for joint restraint. Retainer glands shall be EBBA Iron Megalug Series 1100 or approved equal. The use of a manufactured restrained joint pipe is acceptable with prior approval of the Water Department.

4. All fittings shall be cast iron or ductile iron, mechanical joint, class 250 and conform to ANSI\AWWA C110\A21.10 for Ductile and Gray Iron Fittings or ANSI\AWWA C153\A21.53 for Ductile Iron Compact Fittings, latest revision.

5. All valves 4 to 12 inches shall be Resilient Wedge Gate Valves conforming to ANSI\AWWA C509 such as Mueller Model A-2360-23 or approved equal. All gate valves shall open left (counterclockwise).

6. Tapping sleeve shall be mechanical joint such as Mueller H-615 or equal. Tapping valves 4 to 12 inches shall be Resilient Wedge Gate Valves conforming to ANSI\AWWA C509 such as Mueller Model T-2360-19 or approved equal. All tapping sleeves and valves shall be tested to 150 psi minimum; testing of the tapping sleeve and valve must be witnessed and accepted by the Town of Newburgh Water Department prior to cutting into the pipe.

Original 12-06-96
Revised 04-24-02
Revised 01-2015

TOWN OF NEWBURGH
WATER SYSTEM NOTES FOR SITE PLANS

7. All hydrants shall be Clow-Eddy F-2640 conforming to AWWA Standard C-502, latest revision. All hydrants shall include a 5 ¼ inch main valve opening, two 2 ½ inch diameter NPT hose nozzles, one 4 inch NPT steamer nozzle, a 6 inch diameter inlet connection and a 1 ½ inch pentagon operating nut. All hydrants shall open left (counter-clockwise). Hydrants on mains to be dedicated to the Town shall be Equipment Yellow. Hydrants located on private property shall be Red.

8. All water service lines two (2) inches in diameter and smaller shall be type K copper tubing. Corporation stops shall be Mueller H-15020N for ¾ and 1 inch, Mueller H-15000N or B-25000N for 1 ½ and 2 inch sizes. Curb valves shall be Mueller H-1502-2N for ¾ and 1 inch and Mueller B-25204N for 1 ½ and 2 inch sizes. Curb boxes shall be Mueller H-10314N for ¾ and 1 inch and Mueller H-10310N for 1 ½ and 2 inch sizes.

9. All pipe installation shall be subject to inspection by the Town of Newburgh Water Department. The contractor shall be responsible for coordinating all inspections as required with the Town of Newburgh Water Department.

10. The water main shall be tested, disinfected and flushed in accordance with the Town of Newburgh requirements. All testing, disinfection and flushing shall be coordinated with the Town of Newburgh Water Department. Prior to putting the water main in service satisfactory sanitary results from a certified lab must be submitted to the Town of Newburgh Water Department. The test samples must be collected by a representative of the testing laboratory and witnessed by the Water Department.

11. The final layout of the proposed water and/or sewer connection, including all materials, size and location of service and all appurtenances, is subject to the review and approval of the Town of Newburgh Water and/or Sewer Department. No permits shall be issued for a water and/or sewer connection until a final layout is approved by the respective Department.

Original 12-06-96
Revised 04-24-02
Revised 01-2015

February 7, 2022

By Hand Delivery

John P. Ewasutyn, Chairman, and
Members of the Planning Board
Town of Newburgh
21 Hudson Valley Professional Plaza
Newburgh, NY 12550

Re: Newburgh Commerce Center
124 NYS Route 17K
Planning Board Project No. 2021-21
Responses to MHE Engineering Comments dated 01/14/22
Langan Project No.: 190071901

Dear Chairman Ewasutyn and Members of the Board:

On behalf of the applicant, Scannell Properties, LLC, we are providing this itemized response letter to the review comments received from the Town Engineer summarized in a memorandum to the Planning Board dated January 14, 2022. Town Engineer's comments are italicized and our responses are in bold text.

MHE Engineering Technical Review Comments dated January 14, 2022

The following items are outstanding and may be considered as conditions of approval by the Planning Board:

Comment 1. This office previously circulated Notice of Intent for Lead Agency for the SEQRA review of the project. This notice was sent on 26 October 2021 and has timed out for any additional responses. Coordination with the NYSDEC and US Fish and Wildlife Service regarding potential impacts to protected Bat Species and the Upland Sandpiper are required.

Response 1: See applicant's Expanded Environmental Assessment Form Narrative Appendix 8 for correspondence from NYSDEC and Us Fish and Wildlife which have also been attached to this letter. Correspondence from both agencies conclude the project will not cause a take from protected species so long as tree clearing is completed between the dates of October 1st through March 31st addressing the question of impacts to protected Bat Species. The conclusion is, if we perform the tree clearing in the permitted time frame, there will be no impact to the Bat habitat.

Comment 2. A City of Newburgh Flow Acceptance letter is required for the project.

Response 2: We have submitted the anticipated sewage flow to the Town Engineer. The Town Engineer is in the process of requesting a flow acceptance letter from the City of Newburgh.

Comment 3. Status of review from the Jurisdictional Emergency Services should be received. It is noted the facility only has one point of access from NYS Route 17K.

Response 3: We met with Chief Gallagher and his support staff on 1/21/2022 and reviewed the proposed access and fire protection system with them. They indicated at this meeting they did not see any issues or concerns with the project.

Comment 4. The applicants are requested to provide preliminary analysis to determine that adequate flow and pressure exists such that a fire suppression water tank is not needed on the site.

Response 4: On 9/21/2021 a fire flow test was run on the watermain in Route 17k. The results of that test were as follows: static pressure: 88 psi, residual pressure: 86 psi with a flow rate of 1030 gpm. The estimated fire flow at 20 psi based on this test is 6916 gpm. Base on the grade change from the existing watermain to the proposed service location in the building, there is a change in elevation of approximately 17 feet and an estimate friction loss of approximately 28'/1,000 feet of pipe. The overall estimated pressure drop from the main in Route 17k to the service entry into the building is approximately 28 psi which includes a factor of safety of 1.25. Based on these estimated values, the line pressure at the building service will be approximately 58 psi with a flow rate in excess of 1100 gpm which exceeds the required fire demand for this building.

Comment 5. All correspondence with the NYSDOT should be submitted to the Planning Board as well. NYSDOT input on the access drive and utilities within the DOT right-of-way should be provided. A copy of the 17 December 2021 DOT application has been provided.

Response 5: Comment noted – A copy of the Stage 1 submission to NYSDOT was previously submitted and all subsequent correspondence with NYSDOT will be provided to the Planning Board.

Comment 6. Appendix 17, 18 & 19 appear to be missing from the document. No information beyond the Traffic Study is provided.

Response 6: Comment noted – These appendices have been added.

Comment 7. Future submissions should provide tabs in the voluminous report provided to assist review.

Response 7: Tabs have been provided to the SEQRA documents.

Comment 8. Noise Study should document the benefits of the sound attenuating wall proposed along the front of the parcel between the residential parcels and the subject property. In addition, a sound attenuating wall is provided along the easterly portion of the access drive.

Response 8: A revised sound study is included with this submission which provides a statement describing the benefits of the proposed sound attenuating walls. The sound attenuating walls proposed along the front of the parcel will provide a benefit by screening R2 to R5 from on-site source sound, reducing sound at these locations by 1-12 dBA, depending on source type and receptor location, and averaging 5 dBA. The average 5-dBA barrier attenuation would be perceived as a moderate reduction in perceived loudness; the 12-dBA reduction would be perceived as more than a halving of perceived loudness.

Comment 9. A Stormwater Facilities Maintenance Agreement will be required to be executed and filed with the Town and with County Property records.

Response 9: A draft of a Stormwater Facilities Maintenance Agreement was part of our prior submission and is included in this resubmission.

Comment 10. Two bio-retention areas are proposed for water quality control. Bio-retention area #1 is identified as having a liner while Bio-retention area #2 is identified as not being lined. Bio-retention area #1 addresses the hot spot areas of the site while Bio-retention area #2 takes on a roof and passenger vehicle parking. Two separate details should be provided on the plans.

Response 10: Due to site conditions, both of the proposed Bioretention Areas will be lined and have an underdrain system.

Comment 11. It is noted in the Stormwater Model that Bio-retention area #1 identifies a .25 inches per hour exfiltration in the calculation. This is a lined pond which also then takes credit for the six inch vertical underdrain.

Response 11: The Stormwater Model outlet models exfiltration through the bioretention soil media at 0.25 in/hr (Device 4). This is not modeling infiltration into the ground. Exfiltration through the bioretention soil media is routed to the underdrain (Device 3). The underdrain is routed to the primary culvert pipe out of the outlet control structure (Device 1).

Comment 12. The Narrative portion of the SWPPP should identify the use of the proprietary pre-treatment units prior to discharge to the bio-retention basins.

Response 12: The SWPPP has been revised to reflect these propriety pre-treatment units.

Comment 13. The location of the natural discharge for headwall #17 should be identified on the plans. The drainage course between this point discharge and the natural stream should be provided. The velocity of this discharge point should be evaluated as the pipe slopes are approximately 5% to 5.5% grades along the 17K corridor.

Response 13: Comment noted: Supplemental topographical information has been added to the drawings that generally show the relationship between this headwall and the existing stream bank and bottom. The detailed design of this culvert and headwall will be part of the NYSDOT highway improvement plans which are still a work in progress. Concerns about pipe slopes and velocities will be addressed as part of that detailed design effort.

Comment 14. NYSDOT comments regarding placement of the storm drainage facilities within the driving lane of NYS Route 17K should be received.

Response 14: We have made a Stage 1 submission which include the conceptual design of this pipe. We will provide any feedback we received from NYSDOT.

Comment 15. The location of the 60 inch diameter pipe identified in the SWPPP narrative should be identified on the plans.

Response 15: The location of the 60-inch diameter pipe (Design Point 2) has been called out on the pre-development watershed map and the post-development watershed map in the SWPPP.

Comment 16. It is requested the Erosion & Sediment Control Plan address interim drainage condition along the easterly and westerly property lines existing and proposed grades.

Response 16: The Erosion and Sediment Control Plan, civil sheet CE101, has been amended to include interim diversion ditches which will be installed early on in the grading process to help direct runoff from disturbed areas to the proposed Sediment traps which have been detailed on these plans.

Comment 17. It is unclear if temporary sediment traps are proposed on the plan. No detail or discussion of the same are provided. Volume of the temporary sediment traps should be calculated and identified.

Response 17: The sediment traps are proposed in the area of the proposed bioretention areas. The sediment traps have been labeled on the Erosion and Sediment Control Plan, a detail has been added to the plans and the calculations have been added.

Comment 18. It is requested the applicant evaluate the amount of flow directed towards Catch Basin #24 at the entrance drive. It appears that water traveling from west to east as well as the entire access road discharges to this single catch basin.

Response 18: As indicated on the grading and drainage plan, civil sheet CG201, there is a curb opening approximately half way up the driveway on the east side of the driveway that is designed to allow much of the upstream area to drain through this curb opening, under the sound barrier and into the bioretention area. This reduces the area draining to the referenced catch basin by about

50%. A rip rap channel has been provided at this curb opening to control erosion that might occur in this area.

Comment 19. Limits of disturbance along residential property should be demarcated in the field with orange construction fence. Proposed grading in several locations butts the residential properties.

Response 19: Construction fence has been added to the Erosion Control Plan, civil sheet CE101, to address this concern.

Comment 20. A detail for connection to existing manholes should be provided. Paved inverts for the connection within the manhole should be identified and core drilling of any town owned manhole is required.

Response 20: A detail has been added to civil sheet CS503.

Planning Board Comment: FAA correspondence should be provided.

Response: ***An application has been filed with and is under review by the FAA. The FAA's Preliminary study indicated the structure would have no effect on any airspace, flight altitudes, operations, for procedures. The FAA has also published a Public Note which includes the findings of the preliminary study, a copy of which is included with the response letter And included in Appendix 20 of the*** **Expanded Environmental Assessment Form Narrative.**

If you have any questions or require any additional information, please do not hesitate to contact this office.

Respectfully submitted,
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

W. Charles Utschig
Associate

WCU:mv
Enclosure(s):

cc: Patrick Hines
Dominic Cordisco, Esq.
Zachary Zweifler

Mark Willson

From: Ellis, Meredith <MEllis@LaBellaPC.com>
Sent: Thursday, January 20, 2022 3:11 PM
To: Mark Willson
Cc: Zachary Zweifler
Subject: FW: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY
Attachments: 2021-11-30 Preliminary Site Plans.pdf

Hi Mark,

Please see the below email from Lisa Masi at NYSDEC, with concurrence on our findings. Please let me know if you have any questions.

Thank you!

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Masi, Lisa M (DEC) <lisa.masi@dec.ny.gov>
Sent: Thursday, January 20, 2022 2:36 PM
To: Ellis, Meredith <MEllis@LaBellaPC.com>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Hello Meredith,
I apologize for the delay in response on your request.

Region 3 Wildlife staff have reviewed the project information provided for the above referenced project, Newburgh Commerce Center located at 124 Route 17K in Newburgh, Orange County, NY, tax parcel 95-1-58. According to the submitted materials, the project consists of development of a commercial facility on a 15 acre property. The project proposes to use the time of year restriction on tree removal to avoid impacts to Indiana bats when cutting ~5.3 acres (145) trees. Project plans (plan sheet CD-101 attached) include plan notes with the appropriate time of year restriction.

Based on this submitted information, the Department has determined that the proposed activity is not likely to result in the incidental taking of this listed species and an Article 11 Endangered and Threatened Species Incidental Take Permit is not required. Previous review covered Upland Sandpiper and determined, based on location and habitat, that the species will not be impacted by the project.

If significant modifications are proposed to the above referenced scope of work, please contact this office for additional review.

This determination will remain valid for one year. If you have any comments or questions, please feel free to contact me at lisa.masi@dec.ny.gov, or 845-256-2257.

This letter does not cover any other Department Jurisdictions such as Article 15 stream crossing permits or Article 24 Wetland permits. For additional information on other Department Jurisdictions, please reach out to our Regional Permits Administrator or Regional Program staff in the appropriate office with specific questions related to those jurisdictions.

Lisa

Lisa Masi

Senior Wildlife Biologist, Division of Fish and Wildlife

New York State Department of Environmental Conservation
21 South Putt Corners Road, New Paltz, NY 12561
P: (845) 256-2257 | F: (845) 255-4659 | lisa.masi@dec.ny.gov

www.dec.ny.gov |

From: Ellis, Meredith <MEllis@LaBellaPC.com>
Sent: Wednesday, January 19, 2022 2:52 PM
To: Masi, Lisa M (DEC) <lisa.masi@dec.ny.gov>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good afternoon Lisa,

I wanted to follow up with you regarding your review for this project. Please let me know if you have any questions.

Thank you!

Meredith

Meredith Ellis, CE, WPIT

LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Ellis, Meredith
Sent: Wednesday, January 5, 2022 9:25 AM
To: 'Masi, Lisa M (DEC)' <lisa.masi@dec.ny.gov>
Cc: 'Booth-Binczik, Susan D (DEC)' <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good morning Lisa,

Thank you again for your review and comments. I attached the preliminary site plans for the site. Please refer to Sheet CD-101 which includes more specific information on tree clearing proposed for the site. Please also see the note in the top right that indicates that tree clearing will be completed during the appropriate seasonal window in the winter to avoid impacts to the Indiana bat. While tree clearing will be across roughly 5.3 acres, please note that the trees are sparse through this area and overall will involve the removal of 145 trees.

Please let us know if you have any other questions or need any additional information for your review.

Best,

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Ellis, Meredith
Sent: Wednesday, December 15, 2021 8:07 PM
To: 'Masi, Lisa M (DEC)' <lisa.masi@dec.ny.gov>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good evening Lisa,

Thank you for your review and comments. I'll coordinate with the project applicant and get back to you with additional information.

Best,

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Masi, Lisa M (DEC) [mailto:lisa.masi@dec.ny.gov]
Sent: Wednesday, December 15, 2021 3:41 PM
To: Ellis, Meredith <MEllis@LaBellaPC.com>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Hello Meredith,
I apologize for the delay in review of this request. While I can concur with the general findings of your report related to habitat and protective measure for the two state listed species found on or near the site, without any details about the proposed project, or site plans with appropriate plan notes applied, we can not provide a formal determination on need for an endangered or threatened species permit at this time. Please provide additional project detail for our review.

Detailed Species comments:

Indiana bat:
Indiana bats are found within 2.5 miles of the project location. Tree removal associated with this project should occur within the appropriate time of the year work window, October 1 through March 31, to avoid direct impacts to individuals and the need for an Article 11 take permit. A time of year restriction on tree removal is mentioned in the report, but not provided as plan notes on project plans. The report mentioned 5.3 acres of tree removal on the 15 acre property, but no project specifics are provided. If more than 10 acres of tree removal is required, a review of impacts to habitat including an analysis of change in percent forest cover and indirect impacts to the species related to noise, lighting, dust, chemical use, etc. as specified in the attached USFWS Indiana Bat fact sheet is needed for this site. If the impacts to habitat or indirect impacts to the species are adverse, or impair and essential behavior, an Article 11 permit would be needed.

Upland Sandpiper:
Upland Sandpiper records are found near the project site. Based on the size of the project location (15 acres) and the information provided on habitat, this are is not likely to be habitat for this species. Based on the location and distance to the documented records (on Stewart Airport), the project is not likely to impact the species.

In order for the Department to make a Determination on take and the need for Article 11 Part 182 permitting, please respond to this email with additional project information, including any project plans, species-specific surveys, impact assessments, and proposed take avoidance measures. Please also include any applicable species conservation measures as project plan notes.

If you have any questions, please contact me.

Please note a project sponsor may not commence site preparation, including tree clearing, until the provisions of SEQR are complied with and all necessary permits issued for the proposed project.

Please note that the absence of data does not necessarily mean that rare or other state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Thank you,
Lisa

From: Ellis, Meredith <MEllis@LaBellaPC.com>
Sent: Wednesday, November 3, 2021 3:48 PM
To: dec.sm.Wildlife.R3 <Wildlife.R3@dec.ny.gov>
Subject: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good afternoon,

LaBella has been retained by Scannell Properties to initiate coordination with NYSDEC for a project site located in the Town of Newburgh, Orange County, New York. Scannell plans to develop the property, and LaBella completed a habitat assessment for species flagged for the site.

The habitat assessment report prepared for the Study Area is attached, along with mapping and photographs of the site. We are requesting NYSDEC to please review and provide any comments on concurrence of our findings. Please let me know if you need any additional information or if you have any questions.

Thank you for your time and review,

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
3817 Luker Road
Cortland, New York 13045

November 23, 2021

Ms. Meredith Ellis, CE, WPIT
Environmental Manager
LaBella Associates
4 British American Blvd.
Latham, NY 12110

Dear Ms. McCormick:

This letter responds to your November 4, 2021, letter requesting U.S. Fish and Wildlife Service (Service) review of the proposed development located at 124 New York State Route 17K in the Town of Newburgh, Orange County, New York. The proposed project consists of the construction of a 132,000 square foot commercial building within a 14.15-acre parcel.

We appreciate the opportunity to provide the following comments pertaining to threatened or endangered species under our jurisdiction pursuant to the Endangered Species Act (ESA)(87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*). We understand that there is no federal nexus (*i.e.*, funding, permitting) associated with this and no wetlands have been identified within the project area.

LaBella Associates has determined that the proposed project will have no adverse impact on the federally listed Indiana bat (*Myotis sodalis*; Endangered). The Service agrees that "take"[1] of this species is not reasonably certain to occur given the description of the proposed tree removal, landscape setting, and conservation measures (*e.g.*, conducting tree removal between November 1 and March 31, when bats are in hibernation).

LaBella Associates also determined that the proposed project will have no adverse impact on the federally listed small-whorled pogonia (*Isotria medeoloides*; Threatened) given that no suitable habitat is present within the proposed project area for this species. The Service agrees that take of this species is not reasonably certain to occur.

The project is also within the range of the federally listed northern long-eared bat (*Myotis septentrionalis*; Threatened). Given the project description and location (no known roosts within 150 feet or hibernacula within 0.25 mile) of the proposed project, any take of northern long-

[1] Take is defined in section 3 of the ESA as harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or to attempt to engage in any such conduct.

eared bats that may occur incidental to this project is not prohibited under the final 4(d) rule per the Service's verification letter dated September 28, 2021.

No further coordination with the Service is required pursuant to the ESA for this project. Should project plans change, or if additional information on listed or proposed species or critical habitat becomes available, this determination may be reconsidered. The most recent compilation of federally listed and proposed endangered and threatened species in New York is available for your information. Until the proposed project is complete, we recommend that you check our website regularly to ensure that listed species presence/absence information for the proposed project is current.*

This letter does not exempt the project proponent from obtaining approvals or permits that may be required by State or Federal agencies. Further, this letter does not convey any authorization for take under the ESA or any other authorities. Any new information regarding the proposed project and its potential to impact listed species should be coordinated with both this office and with the New York State Department of Environmental Conservation, New Paltz Office.

Thank you for coordinating with us. If you require additional information or assistance, please contact Noelle Rayman-Metcalf at noelle_rayman@fws.gov. Future correspondence with us on this project should reference project file 21TA4330.

Sincerely,

DAVID STILWELL

Digitally signed by DAVID STILWELL
Date: 2021.11.29 13:16:03 -05'00'

David A. Stilwell
Field Supervisor

*Additional information referred to above may be found on our website at: http://www.fws.gov/northeast/nyfo/es/section7.htm

cc: NYSDEC, New Paltz, NY (Attn: Env. Permits)

February 7, 2022

By Hand Delivery

John P. Ewasutyn, Chairman, and
Members of the Planning Board
Town of Newburgh
21 Hudson Valley Professional Plaza
Newburgh, NY 12550

Re: Newburgh Commerce Center
124 NYS Route 17K
Planning Board Project No. 2021-21
Responses to Site Plan Application Package dated 01/17/22
Langan Project No.: 190071901

Dear Chairman Ewasutyn and Members of the Board:

On behalf of the applicant, we are providing this itemized response letter to the review comments received from your engineering consultant summarized in a letter to the Planning Board dated January 17, 2022. Comments are italicized and our responses are in bold text.

Creighton Manning Technical Review Comments dated January 17, 2022

1. *Comment: A truck turning movement plan was provided, demonstrating truck accessibility around the site. Is a one-way circulation of trucks envisioned for the site? If not, there could be some conflicts with trucks traveling in opposing directions at specific corners of the property.*

   Response: The site is designed to allow truck traffic through the car parking lot. The operational intent is to have truck traffic turn left upon entering the site and travel toward the truck court. It is understood that one tractor trailer in each direction cannot maneuver that turn. However there is more than adequate sight distance to allow truck drivers to maneuver these turns without conflict. In addition, the number of tractor trailers maneuvering this site is expected to be very low, so the number of conflicting movements is not expected to be a problem. It should be noted that these turns do allow smaller trucks to maneuver in both directions.

2a. *Comment: Sight lines exiting the site driveway are depicted on the plans. No comparison was provided so we offer the following:*

   Response: The sight distance diagram has been modified to provide both the required site distances based on a 60 mph speed and the actual measured sight distance. We have analyzed the required and existing

sight distances and stopping distances for both trucks and car. In all cases we exceed the required distances. Sheet CS101 has been updated to reflect this information. The existing sight distances were measured assuming the existing grade will be modified as part of the proposed highway improvements.

2b. Comment: Stopping sight distance traveling east and west on Route 17K should be confirmed.

Response: The required and existing sight stopping distances have been provided for both cars and trucks.

2. Site grading will need to account for/show the proposed highway improvements.

Response: It is noted that the ROW grading will be modified as part of the highway improvement plans to achieve these sight distances.

If you have any questions or require any additional information, please do not hesitate to contact this office.

Respectfully submitted,
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Charles Utschig, PE
Associate

WCU:awl
Enclosure(s):

cc: Dominic Cordisco, Esq. P. Hines, K. Wersted
Z. Zweifer

\\langan.com\data\WPW\data9\190071901\Project Data\Correspondence\Letter\2022-01-25 CM Comment Response Letter, Newburgh Commerce Center scannell.docx

NEWBURGH COMMERCE CENTER

Site Plan Application

SEQRA Expanded Environmental Assessment Form Narrative

Applicant: Scannell Properties, LLC

Project Engineer: W. Charles Utschig Jr., P.E.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Project Architect: Christopher M. Ladd AIA, NCARB,
Vice President/Managing Principal
Ci Design, Inc.

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Dated: November 30, 2021
Revised 02/07/22

SCANNELL PROPERTIES

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ATTORNEYS AT LAW

Newburgh Commerce Center

Town of Newburgh, Orange County, New York

State Environmental Quality Review Act ("SEQRA")
Expanded Environmental Assessment Form ("EAF") Narrative

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Evaluation of Potential Environmental Impacts

December 24, 2021 (Updated)

I. PROPOSED ACTION

Scannell Properties, LLC ("Scannell"), has applied to the Town of Newburgh Planning Board ("Planning Board") for approval to develop lands located at 124 Route 17K in the Town of Newburgh (Tax ID: 95-1-58) (the "Property") with a new 132,000 square foot commercial building to be known as Newburgh Commerce Center (the "Project"). *See,* Site Plan Application/ Architectural Review Board Application/Clearing and Grading Permit Application (collectively, the "Applications"), Location Map and Site Photos attached as Appendices 1-3, respectively. Site plan review by the Planning Board is required for the Project pursuant to Article IX of the Town of Newburgh Zoning Law ("Zoning Law").

If approved, Scannell intends to build the Project and to lease space in the Commerce Center to qualified tenants. Scannell is a privately owned real estate development and investment company that focuses on build-to-suit development projects throughout the United States, Canada and Europe. In business since 1990, Scannell has a proven history of successful commercial development projects and expertise in a wide range of building types.

The Property contains approximately 13.8 acres of land and is located in the Town's Interchange Business ("IB") zoning district. The Newburgh Commerce Center would lease space for a range of uses allowed by the Zoning Law in the IB zoning district, specifically:

- Research laboratories
- Manufacturing, altering, fabricating or processing products or materials
- Warehouse, storage and transportation facilities, including truck and bus terminals
- Offices for business, research and professional use and banks

[*See,* Zoning Law § 185; Attachment. 13, Schedule 8]

Scannell anticipates leasing space in the Commerce Center to one or more tenants for one or more of these permissible uses consistent with the Zoning Law's allowance of multiple uses on a single lot pursuant to Zoning Law § 185-6(F). In addition to the commercial building, Scannell proposes to undertake other site improvements on the Property including stormwater controls, utility lines (water, sewer, electric, gas, etc.), car parking spaces, trailer/truck storage spaces, loading docks, dark-sky compliant lighting and landscaping. Based on the range of potential uses proposed, it is contemplated that the Project would be subject to certain operational parameters (i.e., sewer/water flows, parking, etc.) established by the Planning Board as part of the SEQRA and site plan approval process.

At this time, no specific tenants have been identified for the Project. Scannell seeks approval from the Planning Board for the Project so that it can market the Newburgh Commerce Center as "pre-approved" for the above uses allowed by the Zoning Law. Based on Scannell's extensive commercial development experience, Planning Board approval of the Project will facilitate the attraction of high-quality tenants to the Newburgh Commerce Center within the range of allowed uses within the IB zoning district that are proposed.

The Property is perfectly situated along NYS Route 17K and close to the intersections of I-84, I-87 and Route 300 to significantly advance the Town's economic growth goals for the IB zoning district with minimal impact to the Town, the neighborhood or the environment. Access to and from the Project would be from state roads, avoiding local impacts. The Project would be built in a growing commercial and industrial area that already includes a dozen existing warehouses and commercial buildings located adjacent or close to the Property. Through the Project's design, including site layout, architecture and landscaping, impacts to the neighborhood and environment will be minimized while supporting the Town's long-term commercial development objectives for the IB zoning district.

Importantly, the Newburgh Commerce Center would result in the creation of a substantial number of jobs, including higher wage jobs, with significant direct and indirect fiscal benefits to the local economy and the community. Additionally, the Project would generate significant real property tax revenues for the Town of Newburgh, Orange County and the Newburgh Enlarged City School District, with minimal impact on local roads, services or schools.

Scannell made its initial sketch plan submission to the Planning Board on August 19, 2021 and received input from the Planning Board and the Town's engineer on that proposal. This submission responds to those comments and provides supporting information for the Planning Board's review of the Project based on the attached, proposed Site Plans and Stormwater Pollution Prevention Plan (Appendices 4-5).

The Project as proposed by Scannell complies with all of the bulk and dimensional requirements of the Zoning Law, except for the dimensional requirement that "warehouse, storage and transportation facilities, including truck and bus terminals" must be located at least 500 feet away from NYS Route 17K. On November 23, 2021, the Town of Newburgh Zoning Board of Appeals unanimously granted Scannell an area variance to allow a building on the Property that includes "warehouse, storage and transportation facilities, including truck and bus terminals" within 500 feet of NYS Route 17K. As proposed, the Commerce Center building would be located 381' feet away from NYS Route 17K, many times further away than the setback required for buildings occupied by other allowed uses in the IB zoning district.

II. SEQRA COMPLIANCE

The Project's potential environmental impacts must be reviewed pursuant to the State Environmental Quality Review Act and its implementing regulations in 6 NYCRR Part 617 (collectively, "SEQRA"). Pursuant to 6 NYCRR § 617.6(a)(1)(iv), "as soon as an agency receives an application for...approval of an action, it must….make a preliminary classification of the action as Type 1, Type 2 or Unlisted." This "preliminary classification" assists agencies in determining whether a full EAF and coordinated review is necessary."

For the Planning Board, the proposed Project is the SEQRA "action" based on Scannell's application for site plan review approval for the Project. Because the Project involves the disturbance of over 10 acres of land, the Planning Board has properly classified it as a Type 1 action pursuant to 6 NYCRR § 617.4(b)(i). As a result, a Full Environmental Assessment Form ("FEAF") and coordinated environmental review of the Project are required under SEQRA. Accordingly, Scannell has completed Part 1 of the FEAF as required by 6 NYCRR § 617.6(a)(2). *See,* FEAF Part 1, Appendix 6.

SEQRA requires agencies to make a determination as early as possible in the review process as to whether the involved action has the potential to have a significant adverse impact on the environment. Pursuant to 6 NYCRR § 617.6(b)(2), when more than one agency is involved in the review of a Type 1 action, this determination must be made by a "lead agency" that is normally the agency principally responsible for approving the action. After a coordinated review, if the SEQRA lead agency issues a Negative Declaration concluding that the action will not have a significant adverse impact on the environment, then that Negative Declaration is binding upon all other involved or interested agencies.

On October 26, 2021, the Planning Board declared its intention to act as the lead agency to conduct and coordinate the required environmental review of the Project under SEQRA and circulated notice of its intention along with Scannell's August 19, 2021 application and sketch plan to involved and interested agencies as required by SEQRA. At its December 16th meeting, unless another agency has objected based on the notice provided, the Planning Board may establish itself as lead agency and commence its coordinated SEQRA review of the Project.

III. INVOLVED AND INTERESTED AGENCIES

In its Notice of Intent for Designation of Lead Agency, the Planning Board identified the following agencies that may be involved or interested in the environmental review and approval of the Project:

Involved Agencies:

1. Town of Newburgh Planning Board;
2. Town of Newburgh Zoning Board of Appeals;
3. Town of Newburgh Town Board;
4. NYS Department of Transportation ("NYSDOT");
5. NYS Department of Environmental Conservation ("NYSDEC");
6. Orange County Department of Health;
7. City of Newburgh; and
8. NYS Office of Parks, Recreation and Historic Preservation ("SHPO").

Interested Agencies:

1. Orange County Planning Department; and
2. Port Authority of New York & New Jersey.

IV. EVALUATION OF POTENTIAL ENVIRONMENTAL IMPACTS

The SEQRA lead agency must consider the criteria for determining the significance of potential environmental impacts from the Project as set forth in the SEQRA regulations at 6

NYCRR § 617.7(c). To accomplish this, the lead agency reviews all relevant information and completes Parts 2 and 3 of the FEAF to provide the basis for its SEQRA determination. For the Project, the identification of potential impacts and assessment of potential environmental impacts based on FEAF Part 2 is discussed below and consistently evaluates the maximum potential impacts from the Project. Based on the following discussion, the Project will not create any significant adverse environmental impacts and it is respectfully submitted that a Negative Declaration by the Planning Board is warranted under SEQRA.

1. Impact on Land

The Property is generally flat and primarily undeveloped, sloping from the North towards NYS Route 17K. An existing single-family dwelling and accessory structures on the Property are located adjacent to NYS Route 17K and will be removed as part of the Project. Given the relatively flat topography of the Site, construction will entail typical regrading and earthwork in order to maintain positive drainage away from the building and create level building, parking and loading areas. On behalf of Scannell, Terracon conducted a subsurface exploration in October 2021 and obtained geotechnical guidance concerning proposed earthwork dated November 11th, 2021. See, Geotechnical Report Appendix 7. The Project will be undertaken in accordance with the recommendations provided in the Geotechnical Report.

Except for a small knoll near the center of the Property, the Project will not involve any grading or excavation involving slopes of 15% or greater. Most earthwork will involve the excavation for subsurface features including building foundations, stormwater management systems, and placement of fill to level building and parking areas. Some limited excavation of primarily weathered bedrock may occur. Following excavation for these features, backfilling and fill operations will bring the development area to the desired grade.

The Project will have minimal impacts on land and Scannell will complete construction within sixteen months of the receipt of all agency approvals. It is not anticipated that the Project will involve the excavation and removal of significant amounts natural material from the Property. Any topsoil that cannot be reused for landscaping purposes and/or other unsuitable soils, if any, will be stockpiled and removed from the Property in accordance with the Site Plans.

Erosion control measures will be implemented during construction to minimize the erosion of land. *See,* Impact on Surface Water below. No construction will occur on land where the depth to the water table is less than 3 feet, and any erosion of land as a result of construction activities will be controlled and minimized through the implementation and maintenance of the sediment and erosion control measures required for the Project.

Based on the attached wetlands report, the Project will not involve any disturbance of jurisdictional wetlands. *See,* Natural Resource Information, Appendix 8. There are no New York State regulated wetlands on the Property. Also, no wetlands subject to the jurisdiction of the United States Army Corps of Engineers are present on the Property.

The Project will create 7.2± acres of new impervious surface on the Property. *See,* FEAF Part 1, Appendix 6. As discussed below, the impacts of creating these new impervious surfaces will be negligible given the storm water control measures Scannell will construct and operate in relation to Impact on Surface Waters. Moreover, the Project's proximity to NYS Route 17K on land zoned by the Town for commercial and industrial development make the Project an appropriate use for the lands involved. Further, the Project will permanently provide enhanced landscaping on the Property.

Based on the foregoing, the Project is not anticipated to have any significant adverse impacts on land.

2. Impact on Geological Features

There are no unique landforms on the Site that will be impacted by the Project. No surface bedrock will be affected by construction of the Project and only limited excavation of primarily weathered bedrock within 5' of the ground surface is anticipated. *See*, Geotechnical Report, Appendix 7. No geological feature publicly identified by the National Park Service as Natural Resource Landmark is present on or next to the Site. *See*, Natural Resource Information, Appendix 8. Accordingly, the Project is not anticipated to have any significant adverse impact on geological features.

3. Impact on Surface Water

There are no stormwater controls on the property now and all stormwater runoff from the Property is untreated. The Project will significantly improve this existing condition and benefit the environment by installing a modern stormwater management system on the Property to control stormwater runoff and water quality prior to discharging offsite. This stormwater management system is designed to mitigate to the greatest extent practical any environmental impacts associated with the development of the Property.

During and after construction of the Project, stormwater will be managed, treated and discharged in accordance with the requirements set forth in NYSDEC State Pollution Discharge Elimination System ("SPDES") general stormwater permit and the Project's Stormwater Pollution Prevention Plan ("SWPPP"). *See,* Site Plans and the SWPPP, Appendices 4 and 5. The Project's Site Plans and SWPPP are designed to comply with all applicable NYSDEC requirements for managing stormwater during and after construction. The stormwater management system is designed to provide water quality treatment and includes appropriate measures to control the rate of stormwater runoff to less than pre-development rates for a full range of storm events from the 1-year storm to the 100-year storm.

During Project construction, erosion and sediment control, soil stabilization, dewatering and pollution prevention measures will be installed, implemented and maintained on the Property as set forth in the SWPPP to minimize the discharge of erosion of sediment and prevent a violation of the State's water quality standards. These measures are designed to limit erosion of land by controlling the flow of water until permanent stormwater control measures are installed and pervious surfaces are stabilized with vegetation and/or buildings and parking areas. Measures will include, but not be limited to installation of silt-fencing to control disturbed area; stockpiling soils and vegetative soil stabilization; seeding and mulching of all disturbed surfaces; dust control (as necessary); and ongoing inspection and maintenance of erosion control measures to ensure their effectiveness until all disturbed surfaces are stabilized. All erosion and sediment measures are designed to comply with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

Post-construction stormwater management practices for the Project as set forth in the SWPPP are designed to conform to applicable requirements in the NYSDEC general stormwater permit and the standards provided by the New York State Stormwater Management Design Manual ("Design Manual") (dated January 2015). The Project is designed, through the SWPPP, to provide for the installation, implementation and maintenance of permanent stormwater management practices to

meet the standards in the Design Manual so that discharges comply with the State's water quality and quantity standards.

Specifically, post-construction, the Project's stormwater management system will collect stormwater run-off from the Property through a series of catch basins and pipes and convey the water to the proposed stormwater management area depicted on the Site Plans. Sediments and other contaminants in the run-off will be treated as described in the SWPPP to ensure the stormwater discharges meet applicable water quality standards and have minimal impacts on the downstream water courses. Stormwater management facilities, including bioretention areas and open detention basins, will primarily be located along the southern portion of the Site, as depicted on the Site Plans. As required by the NYSDEC stormwater regulations, the peak rate of run-off from the Property will be the same or less than peak rate of run-off under the existing conditions.

Based on the foregoing, the Project will not create any significant adverse environmental impacts to surface water resources.

4. Impact on Groundwater

The Project will not have any significant adverse impacts on groundwater, nor will the Project use groundwater.

No groundwater wells will be used on the Property as part of the Project and the existing private well on the Property will be properly decommissioned in accordance with NYS Department of Health regulations. The anticipated potable water demand for the Project is estimated to be 9,600± gallons per day. *See,* FEAF Part 1, Appendix 6. The Project will be served by municipal water from the Town of Newburgh through the 12" watermain located in the Route17K right of way. The estimated water demand is based on NYSDEC criteria and historical demands from similar facilities and reflects the peak estimated demand from the Project. Based on a fire flow test run in the proximity of the Property, it appears there is adequate capacity to serve the Project.

The Project will not discharge wastewater into the ground. No septic systems or subsurface disposal systems will be used on the Property. The Project will be connected to the municipal sewer service provided by the Town of Newburgh, which has sufficient capacity to treat the wastewater (9,600± gallons per day) from the Project. It should also be noted that the Property is not located over any primary or principal aquifer, nor over any aquifer used as a community drinking water source.

A Phase 1 Preliminary Site Assessment conducted by Scannell for the Property did not indicate the presence of any known or suspected historic source of soil or groundwater contamination on the Property. *See*, Phase 1 Environmental Site Assessment, Appendix 9.

Finally, Project construction will not have any significant impact on groundwater, as demonstrated by the Geotechnical Report (*See,* Appendix 7). Any groundwater on the Property is expected to be below the planned foundation excavation depths and any perched water that is encountered during construction is expected to be limited in volume and will be removed by standard construction "sump and pump" methods.

Based on the foregoing, the Project will not create any significant adverse impacts to groundwater.

5. Impact on Flooding

The Project will not have any significant adverse impacts on flooding. As discussed in detail above and shown on the Site Plans, all storm water from the Site will be collected, managed and treated by a stormwater management system in accordance with the NYSDEC General SPDES permit for stormwater discharges and SWPPP. Furthermore, as noted on the Federal Emergency Management Administration Flood Insurance Rate Maps ("FIRM") covering the Town of Newburgh, the Site is located outside any 500-year flood plain. *See,* FIRM Map, Appendix 10. There is no known flooding on the Property.

Based on the foregoing, the Project will not create any significant adverse impacts on flooding.

6. Impact on Air

The Project will not result in any significant adverse impacts on air quality. The Project does not include a State regulated air emission source or involve any activity that will have more than a minimal impact on air quality. Similarly, commercial vehicles using the Project's parking areas will be subject to NYSDEC regulations governing vehicle idling which prohibits vehicle idling for longer than 5 minutes. The idling regulations may be enforced by the NYSDEC Environmental Conservation Officers and other state and local police. Further, as noted in the Impact on Transportation discussion below, all studied intersections will continue to operate at overall acceptable levels of service and efficiency, so there will not be unnecessary idling due to traffic delays while exiting the Property. Therefore, no significant localized air quality impacts are expected.

Finally, the Project entails the demolition of the existing single-family dwelling on the Property. New York State Department of Labor regulations require that prior to demolition, any asbestos containing materials ("ACM") must be identified and properly removed by a certified asbestos abatement contractor. Scannell completed a Pre-Demolition Regulated Building Materials Inspection of the dwelling on the Property in October 2021. *See,* Appendix 11. The inspection identified a limited number of ACMs in the single-family dwelling, which is common for buildings of its age. These materials will be removed and properly disposed of by a NYS-licensed asbestos abatement contractor prior to demolition.

Based on the foregoing, the Project will not create any significant adverse impacts on air quality.

7. Impact on Plants and Animals

The Project will not have a significant adverse impact on plants and animals as demonstrated by the wetland delineation and protected species habitat assessment undertaken on the Property. *See,* Natural Resources Information, Appendix 8.

A wetlands delineation and habitat assessment were conducted on the Property in August and September 2021, noting that the surrounding area consists mostly of commercial and some limited residential development, with NYS Route 17K and Stewart International Airport to the

south. The consultant characterized the undeveloped portions of the Property as "a field and small wooded area, with a mosaic of trees scattered within the open field area."

The wetland delineation was undertaken to determine whether any wetlands subject to federal or state permitting jurisdiction exist on the Property. The delineation did not show any wetlands present on the Property, nor any indication of wetland hydrology.

The habitat assessment focused on the potential that animal or plant species protected by NYSDEC or the United States Fish and Wildlife Service ("USFWS") may be present on the Property. Scannell's consultant researched publicly available sources of information from those agencies and other data bases for rare, threatened or endangered species that have been observed in the general geographic area including the Property. With this information, site visits were conducted by qualified professionals to observe any species present and/or to assess the potential that the Property may provide suitable habitat.

NYSDEC identified the potential for Upland Sandpipers, designated as a "threatened" species in New York, to be present in the general vicinity of the Property. Upland Sandpipers were observed in 1977 on the maintained grasslands at the nearby Stewarts International Airport, however there are no known occurrences of this species on the Property and Scannell's consultant did not observe them during its visits to the Property in August and September, 2021. Moreover, Upland Sandpipers typically require more than 74 acres of maintained grasslands for their preferred habit requirements. Based on its review of the Property, Scannell's consultant concluded that due to the lack of large areas of grasslands and the relatively dense cover of old field species on the Property, it is unlikely that the Upland Sandpiper would be found on the Property.

A plant species named Small Whorled Pogonia was identified by the United States Fish and Wildlife Service ("USFWS") as potentially being in the general vicinity of the Property. Small Whorled Pogonia is listed by USFWS as a "threatened" species" and by NYSDEC as "endangered." Scannell's consultant did not observe this plant species on the Property during either of its site visits and concluded that its presence is not reasonably likely due to the lack of suitable habitat.

Both NYSDEC and USFWS identified the potential presence of Northern Long-Eared Bats ("NLEB") and Indiana Bats in the general geographic area that includes the Property. NLEB are listed as "threatened" and Indiana Bats are listed as "endangered" species by both agencies. Protection efforts for these species focus on avoiding or minimizing impacts to or near "overwintering" and "summer roosting" habitats, with overwintering habitats typically found in caves and abandoned mines and summer roosting habitat that consists of certain trees that are generally 3" DBH or more in size.

Scannell's consultant determined that there is no overwintering habitat present on the Property. The nearest known NLEB overwintering habitat is located in the Town of Highlands, approximately 10.2 miles southeast of the Property. The closest, documented overwintering habitat for Indiana Bat is approximately 11.2 miles away from the Property in the Town of Blooming Grove. Given these distances from identified overwintering habitat, any impacts from tree-cutting associated with the Project would be avoided consistent with NYSDEC and USFWS requirements.

Similarly, there is no known or documented "summer roosting" occurrence of either bat species on or near the Property. The nearest documented summer occurrence of NLEB is in the Town of Cornwall, approximately 4 miles from the Property and no nearby summer occurrence of Indiana Bat is known to have been reported.

Through development of the Project, less than five acres of forested area will be removed from the Property. *See,* Site Plans, Appendix 4. The Project's proposed retention of existing hedgerows and forested screening buffer between the Project and adjacent properties, as well as the gradual growth of trees planted as part of the enhanced landscaping proposed for the Project, will minimize the loss of any potential NLEB or Indiana Bat habitat on the Property.

Based on the lack of potential impacts to NLEB and Indiana Bats and their habitat from the Project, it is unlikely that any USFWS or NYSDEC restrictions to protect bats will apply to tree removal associated with the Project. Scannell is already limiting tree removal to the maximum extent possible and providing enhanced tree planting. To further avoid potential impacts, however, Scannell will limit any tree-cutting associated with the Project to between November 1st and March 31st consistent with federal and state guidelines for protecting these species.

Scannell, through its consultant, is seeking confirmation from NYSDEC and USFWS that these proposed mitigation measures are sufficient. Finally, any indirect impacts from the Project on bats due to lighting or noise will be minimized by mitigation measures for such potential impacts as discussed in Impact on Noise, Odor and Light below.

Based on the foregoing, the Project will not have any significant adverse impacts on plants and animals.

8. Impact on Agricultural Resources

The Property is not located in an agricultural district and the Project will not cause significant adverse impacts to agricultural resources or impact soils that are either prime farmland or potentially prime farmland. The Project will not interrupt any existing farm operations. The Property is not used as a farm. Rather, it is located next to NYS Route 17K in a commercial zoning district designated by the Town for precisely the types of uses proposed as part of the Project.

Based on the foregoing, no significant adverse environmental impacts to agricultural resources are anticipated from the Project.

9. Impact on Aesthetic Resources

The Project will not be visible from any officially designated federal, state, or local scenic or aesthetic resource, nor will it impact any officially designated scenic views. The Project is located in a commercial zoning district. It is consistent with existing land uses in the vicinity of the Property.

On the Property, aesthetic considerations for the Project will be addressed through a site plan, building design and landscaping plan that are respective of the existing community character. The Project's proposed building and associated parking and loading areas are located as far away from NYS Route 17K and existing residential uses as possible. *See*, Site Plans, Appendix 4. As proposed, the building will be 381' feet from NYS Route 17K. This is many times further away than required for most buildings occupied by allowed uses in the IB zoning district, substantially reducing the potential for impacts to aesthetic resources. To further minimize impacts, Scannell

proposes to use diverse earth-tone colors, together with a building design that breaks up the massing of the structure, that will make the building more visually appealing when viewed in this location set back from Route 17K. See, Preliminary Floor Plan and Elevations, Appendix 12 and Preliminary Architectural Visualization Renderings, Appendix 13.

To maximize the potential for a successful Commerce Center that is also an attribute to the Town of Newburgh, Scannell has purposefully proposed a building design that is suitable for a wide range of uses and that is more architecturally similar to an office building. The proposed landscaping plan for the Project (*See*, Site Plans) exceeds what is required by the Zoning Law and would maximize the screening of the Project and minimize its visual impacts, both from NYS Route 17K and from neighboring residential uses. The Preliminary Architectural Visualization Renderings and Site Plans demonstrate how the siting distance from NYS Route 17K, proposed earth-toned colored and architecturally diverse building, along with enhanced landscaping, will minimize any adverse visual impacts and be attractive to prospective commercial and industrial tenants as well as the public.

Based on the foregoing, the Project will not result in any significant adverse impacts to federal, state, or local scenic or aesthetic resources, nor will it impact any officially designated scenic views.

10. Impact on Historic and Archeological Resources

The Project will not impair the character or quality of any important historical and/or archaeological resources. *See*, Phase I (IA and IB) Cultural Resource Investigations, Appendix 14.

No historic buildings or sites listed on the State or National Registers of Historic Places are located on or near the Property. The existing single-family dwelling on the Property was determined to be ineligible for listing by the New York's Historic Preservation Office at the NYS Department of Parks, Recreation and Historic Preservation ("SHPO"). The Property is not located in or adjacent to an historic district.

To ascertain whether there are any important archaeological resources on the Property, Scannell engaged a consultant to undertake a survey and prepare a report. In October 2021, a field investigation of the Property was conducted involving shovel tests in over 200 locations. No significant cultural material was found in any of the tests. Based on this investigation, Scannell's consultant concluded that the Project will not adversely affect any potentially significant archaeological resources and that no further investigation is warranted.

Finally, these findings were provided to SHPO, which issued a letter on November 2, 2021 concluding that the Project will have no adverse effect upon historic or archeological resources. *See*, SHPO Letter, Appendix 15.

Based on the foregoing, the Project will not create any significant adverse impacts to historic or archaeological resources.

11. Impact on Open Space and Recreation

The Project will not result in any loss of recreational opportunities or any reduction of an open space resource designated in a governmental open space plan. The Property is located in a zoning district intended for commercial development such as the Project. The Property is privately owned and is not used for public recreation. Nearby public parks include Algonquin Park,

Cronomer Hill Park, New Windsor Historic Parklands and Stewarts State Forest, all two or more miles away from the Property.

Based on the foregoing, the Project will not have any significant adverse impact on open space and recreational resources.

12. Impact on Critical Environmental Areas

Development of the Property will not have any impacts on any critical environmental areas ("CEAs") designated by NYSDEC because the Property does not contain any CEAs. Nor are any CEAs located adjacent to the Property.

13. Impact on Transportation

Scannell had a consultant conduct a Traffic Impact Study ("TIS") for the Project dated November 2021. *See*, Appendix 16. The TIS demonstrates that the Project will not have a significant adverse impact on local traffic based on the analysis undertaken. Scannell's consultant will submit the TIS to NYSDOT for its review and recommendations.

The Project will include one full-movement, stop-controlled access driveway intersecting NYS Route 17K, where the posted speed limit is 40 miles per hour. The driveway will be approximately 460 feet west of the Maguire Way signalized intersection and 1200 feet east of the Corporate Boulevard signalized intersection on Route 17K. No other public roads intersect NYS Route 17K between the two signalized intersections, so traffic flow is already well-controlled.

The eastbound NYS Route 17K approach to the Project driveway will provide one exclusive left-turn lane and one thru lane. The westbound NYS Route 17K approach will provide one shared thru/right turn lane with a shoulder. The southbound Project driveway approach to Route 17K will provide one left-turn lane and one right-turn lane under stop control. These mitigation measures will contribute to the minimization of traffic impacts involving vehicles entering and leaving the Property.

Based on conservatively estimated traffic volumes that could be generated by the Project, the TIS concluded that safe traffic flow will occur entering and leaving the Project driveway from NYS Route 17K and will not significantly impact existing and/or proposed traffic flows at the following intersections:

- NYS Route 17K and Corporate Boulevard;
- NYS Route 17K and Maguire Way / Kia Dealership;
- NYS Route 17K and Orr Avenue / Matrix Driveway; and
- NYS Route 17K and Project driveway.

The TIS's conclusions that the Project will have only limited traffic impacts are partly due to the occurrence of sufficient gaps in traffic along NYS Route 17K and excellent sight lines available from the proposed driveway. *See*, TIS. In particular, the TIS analyzed the gaps in traffic created by the signalized intersections to the east (Maguire Way) and west (Corporate Boulevard) of the Project's driveway on NYS Route 17K. This analysis demonstrated that during peak traffic periods the gaps in traffic on NYS Route 17K at the Project driveway created by the two signals would ensure safe and timely traffic movement entering and exiting the Property in all directions.

For the foregoing reasons, the Project will not have any significant adverse impacts on traffic or transportation.

14. Impact on Energy

The Project will require the use of energy—specifically electricity and natural gas—for heating, cooling, lighting and other purpose. The Project will require 3000 amps of electricity and 8,000,000 BTU of natural gas. This energy usage will be similar in amount to the energy used for comparable commercial buildings in the Town, County, and across the State. Overall, the Project will not result in a significant increase in the use of energy.

Accordingly, no significant adverse impact on energy will occur.

15. Impact on Noise, Odor and Light

No significant adverse noise or odor impacts are expected from the Project. During construction, any noise and odor impacts from construction equipment will be temporary, of short duration and non-significant. The Project, when operational, is not anticipated to generate any odor impacts and any noise and light impacts will be substantially mitigated so that no significant adverse impacts will occur.

The Newburgh Commerce Center will be surrounded by Stewart International Airport and highways, I-81, I-84 and NYS Route 17K, which generate a significant existing noise footprint from air traffic and vehicles traveling at high speeds, respectively. Scannell engaged a consultant to prepare a study comparing the loudest potential operational noises (e.g., over-the-road trucks entering and leaving the Property, over-the-road trucks dropping and removing trailers, and trailers being maneuvered by a switch tractor) against Town of Newburgh sound standards and NYSDEC guidelines, based on ambient noise levels from the surrounding highways and the airport. *See*, Sound Study Appendix 17. As of a result of the analysis undertaken. the Sound Study recommended the creation of sound barriers consisting of a 'West Barrier' 13' tall by 415'long and an 'East Barrier' 11' tall by 325' long. *See,* Sound Study and Site Plans. With the inclusion of these recommended sound barriers, the Sound Study concluded that the Project will comply with both Town of Newburgh standards and NYSDEC guidelines.

New, modern and energy-efficient lighting will be utilized throughout the Site. *See*, Site Plans, Appendix 4. Exterior site lighting will be designed to comply with the Zoning Law and to be the minimum necessary while ensuring a safe and secure facility. All proposed lighting will be downward facing and will minimize sky glow and light pollution from the Site. Where appropriate, lighting fixtures will be of a full cutoff type or provided with shields to reduce glare and light pollution. As shown on the Site Plans, the fixture locations have been sited to minimize light trespass onto adjacent properties. These measures have been incorporated to minimize otherwise potential adverse impacts from site lighting of the new building and parking facilities.

Thus, the Project will not cause any significant adverse impacts involving noise, odor or light.

16. Impact on Human Health

No significant impacts to human health are anticipated from the Project because all construction and operational activities will be undertaken in accordance with and in compliance with all pertinent environmental and land development regulations and related permit and approval

procedures and requirements. The Project will be serviced by municipal water and sewer and no septic system will be used.

17. Consistency with Community Plans

The Project is designed to comply with the Town of Newburgh's Zoning Law (See, Appendix 18 ("Site Plan Review Narrative"). The Project's proposed uses are all allowed in the Interstate Business zoning district. Scannell anticipates leasing space in the Commerce Center to one or more tenants for one or more of these uses consistent with the Zoning Law's allowance of multiple uses on a single lot pursuant to Zoning Law § 185-6(F). Pursuant to the Zoning Law, a variance has been obtained from the Town of Newburgh Zoning Board of Appeals for the Project to allow "warehouse, storage and transportation facilities, including truck and bus terminals" within 500 feet of NYS Route 17K. As proposed, the Project's building will be 381' from NYS Route 17K and will comply with all other bulk and dimensional requirements of the Zoning Law.

The Project is also consistent with the Town's community planning goals as stated in Zoning Law § 185-2(a) and (c):

> "To guide future growth and development of the Town of Newburgh in relation to the orderly development of the region of which it is a part and in consideration of its existing development pattern and improvements, its resources and the quality of its environment."
>
> and
>
> "To promote a mutually supportive, logical and harmonious interrelation of land uses by bringing about the gradual conformity of the uses of land and buildings throughout the Town to the Zoning Law set forth in this chapter and minimizing conflicts between the uses of land and buildings."

The Project is located in the Interchange Business zoning district where the potential mixture of uses proposed by Scannell are all allowable and expected to occur based on the Town's planning goals and the Zoning Law. Predominantly, nearby uses are also allowed commercial or industrial uses subject to site plan review in the IB zoning district. There are also several existing residential uses near the Property, which are permitted to remain in the IB zoning district even though almost all new residential development is prohibited in the district.

The Project's building and associated parking and loading areas are located as far away from NYS Route 17K as possible, adjacent and in close proximity on the north side of the Property to three existing commercial/industrial uses in the IB zoning district. Because of this site layout, the location of the proposed development on the Property is also situated as far away as possible from the three existing single-family dwellings located to the south (SBL ## 95-1-59, 95-1-60 and 95-1-61) and the two existing single-family dwellings on the eastern side of the Property (SBL ## 95-1-56 and 95-1-57). As demonstrated by the Preliminary Architectural Visualization Renderings prepared by Scannell (*See,* Appendix 13) and the proposed landscaping shown in the Site Plans (*See,* Appendix 4), retention of existing trees and the substantial screening proposed to be undertaken between the Project and these single-family dwellings will minimize impacts from the Project on the existing residential uses in the IB zoning district. The Project's design thus promotes the "orderly development" of this area of the IB zoning district in the Town.

The Project will attract other commercial development to the surrounding area, thus further promoting "orderly development" of the IB zoning district consistent with the Zoning Law. The Project will enhance the value of immediately surrounding residential properties for more valuable commercial development purposes, supporting the Town's goals for the "future growth and development of the Town of Newburgh." In so doing, the Project also supports the Zoning Law's goal of "bringing about the gradual conformity of the uses and land" in the IB zoning district, where the existing single-family dwellings are permitted but where new residential development is generally prohibited. The Property is located in the center of this commercial/industrial zoning district with existing uses that rely on the connection of NYS Route 17K to nearby interstates. Development of the Project will provide a substantial catalyst to encourage the commercial development of surrounding properties based on the appropriate uses designated by the Town for its Interchange Business zoning district.

The Project is also consistent with the goals of the Town of Newburgh's 2005 Comprehensive Plan for promoting economic development in the Town and creating higher wage jobs in the community. As detailed in the Fiscal Benefits section below, the Project will provide substantial economic benefits to the Town and has the potential to result in the creation of new, higher wage jobs for the local community.

Finally, the Project is consistent with Orange County planning objectives. Importantly, the 2015 Orange County Economic Development Strategy recognized the value of the use of commercial space for economic development in the area by multiple uses that is "suitable either for manufacturing or for temporary storage of goods prior to transport…this category of space is often located in buildings designed to accommodate more than one occupant…." *See*, Orange County Economic Development Strategy, p. 25.

Furthermore, the Property is identified as part of a Priority Growth Area by the 2010 Orange County Comprehensive Plan and the Project fundamentally supports the Comprehensive Plan's stated overall goal for economic development to:

> "Strengthen the economy in Orange County by attracting and supporting businesses that will enhance the County's economic base and provide jobs, tax revenues and an orderly and sustainable land use pattern…."
>
> [*See,* Orange County Comprehensive Plan Excerpts, Appendix 19].

As proposed, the Project is thus consistent with and will support the County's economic development priorities and goals as set forth in the 2015 Orange County Economic Development Strategy and 2010 Orange County Comprehensive Plan.

For the foregoing reasons, the Project will support and further local community plans and will not have a significant adverse impact on them.

18. Consistency with Community Character

As described above, the Project is consistent with the existing and planned commercial and industrial character of the area where the Property is located along NYS Route 17K in the Town's Interchange Business zoning district. The Property is perfectly situated along NYS Route 17K and close to the intersections of I-84, I-87 and Route 300 to significantly advance the Town's purposes for the IB zoning district with minimal impacts to the Town, the neighborhood or the environment.

The Property is located in a growing commercial and industrial area, zoned for such uses, that already includes a dozen existing warehouses and commercial buildings located adjacent or close to the Property. Nearby warehouse buildings are occupied by the following national and local companies, among others: F.W. Webb Company, Amerisource Bergen, Amscan, A. Duie Pyle, AJW Architectural Products, C&S Wholesale Grocers, Big Shine LED, US Global Airways and Tetron Aviation Service Center. Surrounding commercial uses include the following, among others: Healey Kia (a large car dealership), a Gulf gas station, the Orange County Solid Waste Transfer Station #2, two hotels, Stewart Air National Guard Base, a car service shop, a home health care service company, a restaurant and a veterinary hospital. In this context, the Project is entirely consistent with the conforming IB zoning district community character.

The Project's proposed building and associated parking and loading areas are located as far away from NYS Route 17K and existing residential uses as possible. As proposed, the building would be 381' feet away from NYS Route 17K. Scannell proposes to use diverse earth-tone colors, together with a design that breaks up the massing of the structure, to make the building more visually appealing. Because of the mixture of uses that will occupy the building, Scannell has purposefully proposed a building design that is suitable for a wide range of uses and that is more architecturally similar to an office building. The proposed landscaping plan for the Project (*See*, Site Plans, Appendix 4) provides more trees than required by the Zoning Law and would maximize the screening of the Project and minimize its visual impacts, both from NYS Route 17K and from neighboring residential uses. The Preliminary Architectural Visualization Renderings (*See,* Appendix 13) demonstrate how the proposed earth-toned colored building and landscaping will minimize any adverse visual impacts and be attractive to prospective commercial and industrial tenants as well as the public. As designed, the Project will positively contribute to the community character of this area of the IB zoning district.

Furthermore, as noted above, the Project will enhance the value of the immediately surrounding residential properties for likely more valuable commercial development purposes, consistent with the Town's goals for future growth and development in the IB zoning district. Development of the Project will provide a substantial catalyst to encourage the commercial development of surrounding properties based on the appropriate uses designated by the Town for its IB zoning district. Accordingly, the Project will be consistent with the Town's expectations for the community character of the IB zoning district.

For these reasons, the Project will not have a significant adverse impact on the community character of the Town of Newburgh.

19. Fiscal Benefits

An analysis was conducted by Scannell in order to forecast the anticipated fiscal impact of the Project on the Town and broader community. This analysis included evaluations of potential job and payroll creation, one-time project revenues and recurring property tax revenues. While the actual positive fiscal impacts of the Project will be driven by the specific operations of the tenants, this analysis forecasts that an average of 114 jobs would be created as a result of the Project, resulting in combined total earnings to those employees of $9,772,750 per year. In addition, the Project would generate more than $125,300 in one-time administrative fees to be paid to the Town. Finally, the Project would result in a substantial increase in property tax revenues

paid to local taxing jurisdictions, from $6,562.07 (existing) to $140,474.40 (upon Project completion) in the first year alone.

The number of anticipated "direct jobs" was estimated using U.S. Energy Information Administration statistics on square footages per job by proposed use of the Project. The table below shows the anticipated "direct jobs" estimated based on each use across the entire 132,000 square foot proposed building. Based on an average of all potential industry categories, Scannell estimates the following potential employment and earnings from the Project:

Estimated Employment and Earnings			
Use	SF/Job[1]	Direct Jobs	Direct Earnings
Research Laboratories	1,029	128	$13,619,000
Manufacturing	1,029	128	$11,796,000
Warehouse	1,500	88	$5,631,000
Mixed-Use[2]	1,179	112	$8,045,000
Average	1,184	114	$9,772,750
All jobs figures rounded to the nearest integer, earnings to the nearest thousand. *[1]https://www.eia.gov/consumption/commercial/data/2012/bc/cfm/pba2.php* *[2]Calculated Blend utilizing 20% Office, 15% Research Laboratories, 15% Manufacturing, and 50% Warehouse.*			

Direct jobs will also cause additional, indirect jobs to be created in the local area through business-to-business purchases (e.g., a tenant business buying inputs from a local supplier) and employees of tenant businesses spending a portion of their wages locally creating indirect and induced job creation, sales tax revenues, and earning.

Through its review of the application and oversight of the construction, the Town is expected to receive substantial one-time development revenues which will be supported through the activities of the Town's existing staff. Based on Scannell's fiscal analysis, the revenues generated for the Town will exceed over $125,300, not including any municipal improvement inspection fees. The below table reflects the permit and impacts fees estimated to be paid to the Town by Scannell as a result of the Project's development:

ONE-TIME DEVELOPMENT FEES	
ITEM	**FORECASTED AMOUNT**
Building Permit Fees	
Commercial Structure	$86,200
Residential Demolition Permit	$300
Certificate of Occupancy	$400
Zoning Fees	
Area Variance	$500

ZBA Public	$50
Start Work Without a Building Permit	$200
Short EAF	$250
Clearing and Grading Permit	$150
Planning Board Fees	
Commercial Site Plan Review Base Fee	$34,500
Planning Board Public Hearings	$150
Sanitary and Water Fees	
Commercial Municipal Sewer Connection	$200
Industrial Wastewater Discharge Permit	$1,500
Service Connection Permit	$400
Service Connection Permit	$500
Inspection of public improvements	TBD
Total	**$125,300**

On behalf of Scannell, DuCharme, McMillen & Associates, Inc. conducted a forecast of real property tax revenues to be generated by the operational Project which resulted in a forecasted real estate market value of $8,976,000 ($68 PSF) with an estimated local tax revenue (using current local assessment rates) of $280,949. While this forecast represents the current real estate tax revenues at full assessment, the Project is anticipated to participate in New York's Real Property Law § 485-B tax abatement program which provides a partial real property tax exemption to commercial development projects for 10 years. The table below illustrates the annual real property tax revenues anticipated to be generated for local taxing jurisdictions as a result of the Project during its enrollment in the 485-B program including a 2.5% annual tax rate increase:

	% of Assessed Value	**Total Taxes Paid**
Year 1	50%	$140,474.40
Year 2	55%	$158,384.89
Year 3	60%	$177,103.10
Year 4	65%	$196,658.23
Year 5	70%	$217,080.43
Year 6	75%	$238,400.83
Year 7	80%	$260,651.58
Year 8	85%	$283,865.86
Year 9	90%	$308,077.95
Year 10	95%	$333,323.23
Year 11	100%	$359,638.22

By comparison, in 2020, the property had a market value of $309,700 and generated $6,562.07 in property taxes. Without the Project's development, the Property will remain in its current state as a vacant residence and will not provide the substantial anticipated property tax revenues to the county, school district, and town.

Overall, the Project will result in a multi-million dollar new investment in the Town of Newburgh and create substantial new job opportunities in the community. The Project will contribute significantly to the growth of the local property tax base to support schools and community infrastructure, with little impact to local roads due to its location on NYS Route 17K and its minimal impact on local water/sewer infrastructure and other municipal services.

Based on the foregoing, the Project will have a significant positive fiscal impact on the Town of Newburgh and broader local community.

APPENDICES

Appendix 1 Site Plan Application/Architectural Review Board Application/ Clearing and Grading Permit Application

Appendix 2 Location Map

Appendix 3 Site Photos

Appendix 4 Site Plans

Appendix 5 Stormwater Pollution Prevention Plan

Appendix 6 SEQRA Full Environmental Assessment Form, Part 1

Appendix 7 Geotechnical Report

Appendix 8 Natural Resource Information

Appendix 9 Phase 1 Environmental Site Assessment

Appendix 10 Federal Emergency Management Administration Flood Insurance Rate Map

Appendix 11 Pre-Demolition Regulated Building Materials Inspection

Appendix 12 Preliminary Floor Plan and Elevations

Appendix 13 Preliminary Architectural Visualization Renderings

Appendix 14 Phase I (IA and IB) Cultural Resource Investigations

Appendix 15 SHPO letter

Appendix 16 Traffic Impact Study

Appendix 17 Sound Study

Appendix 18 Site Plan Review Narrative

Appendix 19 Orange County Comprehensive Plan

APPENDIX 1

TOWN OF NEWBURGH
APPLICATION FOR
SUBDIVISION/SITE PLAN REVIEW

RETURN TO: Town of Newburgh Planning Board
308 Gardnertown Road
Newburgh, New York 12550

DATE RECEIVED: _____ **TOWN FILE NO:** 2020-21
(Application fee returnable with this application)

1. **Title of Subdivision/Site Plan (Project name):**
   Newburgh Commerce Center

2. **Owner of Lands to be reviewed:**
   Name Red Oak SOS, LLC
   Address 1400 E 66th Avenue
   Denver, Colorado 80229
   Phone _____

3. **Applicant Information (If different than owner):**
   Name Scannell Properties, LLC
   Address 8801 River Crossing Blvd., Suite 300
   Indianapolis, Indiana 46240
   Representative Zachary Zweifler
   Phone (763) 331-8857
   Fax _____
   Email zacharyz@scannellproperties.com

4. **Subdivision/Site Plan prepared by:**
   Name Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
   Address One North Broadway, Suite 910
   White Plains, New York 10601
   Phone/Fax (914) 323-7400; fax (914) 323-7401

5. **Location of lands to be reviewed:**
   124 Route 17K, Newburgh, New York 12550

6. **Zone** IB - Interchange Business **Fire District** Orange Lake
   Acreage 14.9 **School District** Newburgh Enlarged City District

7. **Tax Map: Section** 95 **Block** 1 **Lot** 58

8. **Project Description and Purpose of Review:**
   Number of existing lots 1 **Number of proposed lots** 1
   Lot line change N/A
   Site plan review Sketch plan and site plan review for industrial/commercial center.
   Clearing and grading Applicant may apply for clearing and grading permit at later date.
   Other _____

PROVIDE A WRITTEN SINGLE PAGE DESCRIPTION OR NARRATIVE OF THE PROJECT

9. **Easements or other restrictions on property:**
   (Describe generally) N/A

10. **The undersigned hereby requests approval by the Planning Board of the above identified application and scheduling for an appearance on an agenda:**

Signature _____ **Title** Development Manager

Date: Agusut 17, 2021

NOTE: **If property abuts and has its access to a County or State Highway or road, the following information must be placed on the subdivision map or site plan: entrance location, entrance profile, sizing of pipe (minimum length of pipe to be 24 feet).**

The applicant will also be required to submit an additional set of plans, narrative letter and EAF if referral to the Orange County Planning Department is required under General Municipal Law Section 239.

TOWN OF NEWBURGH PLANNING BOARD

Newburgh Commerce Center

PROJECT NAME

CHECKLIST FOR MAJOR/MINOR SUBDIVISION AND/OR SITE PLAN

I. The following items shall be submitted with a COMPLETED Planning Board Application Form.

Checklist Legend:
x - information provided

N/A - Not Applicable

TBP - Information to be provided with full site plan submission documents.

1._X_ Environmental Assessment Form As Required

2._X_ Proxy Statement

3._X_ Application Fees

4._X_ Completed Checklist (Automatic rejection of application without checklist)

II. The following checklist items shall be incorporated on the Subdivision Plat or Site Plan prior to consideration of being placed on the Planning Board Agenda. Non-submittal of the checklist will result in application rejection.

1._X_ Name and address of applicant

2._X_ Name and address of owner (if different from applicant)

3._X_ Subdivision or Site Plan and Location

4._X_ Tax Map Data (Section-Block-Lot)

5._X_ Location map at a scale of 1" = 2,000 ft. or less on a tax map or USCGS map base only with property outlined

6._X_ Zoning table showing what is required in the particular zone and what applicant is proposing. A table is to be provided for each proposed lot

7._X_ Show zoning boundary if any portion of proposed site is within or adjacent to a different zone

8._X_ Date of plan preparation and/or plan revisions

9._X_ Scale the plan is drawn to (Max 1" = 100')

10._X_ North Arrow pointing generally up

11. X **Surveyor,s Certification**

12. X **Surveyor's seal and signature**

13. X **Name of adjoining owners**

14. N/A **Wetlands and 100 ft. buffer zone with an appropriate note regarding D.E.C. or A.C.O.E. requirements**

15. N/A **Flood plain boundaries**

16. N/A **Certified sewerage system design and placement by a Licensed Professional Engineer must be shown on plans in accordance with Local Law #1 1989**

17. N/A **Metes and bounds of all lots**

18. X **Name and width of adjacent streets; the road boundary is to be a minimum of 25 ft. from the physical center line of the street**

19. X **Show existing or proposed easements (note restrictions)**

20. X **Right-of-way width and Rights of Access and Utility Placement**

21. TBP **Road profile and typical section (minimum traveled surface, excluding shoulders, is to be 18 ft. wide)**

22. X **Lot area (in sq. ft. for each lot less than 2 acres)**

23. N/A **Number of lots including residual lot**

24. N/A **Show any existing waterways**

25. N/A **A note stating a road maintenance agreement is to be filed in the County Clerk's Office where applicable**

26. N/A **Applicable note pertaining to owners review and concurrence with plat together with owner's signature**

27. X **Show any improvements, i.e. drainage systems, water lines, sewer lines, etc.**

28. N/A **Show all existing houses, accessory structures, wells and septic systems on and within 200 ft. of the parcel to be subdivided**

29. X **Show topographical data with 2 or 5 ft. contours on initial submission**

30. N/A **Indicate any reference to a previous subdivision, i.e. filed map number, date and previous lot number**

31. N/A **If a private road, Town Board approval of name is required, and notes on the plan that no town services will be provided and a street sign (per town specs) is to be furnished and installed**

32. X **Number of acres to be cleared or timber harvested**

33. TBP **Estimated or known cubic yards of material to be excavated and removed from the site**

34. TBP **Estimated or known cubic yards of fill required**

35. TBP **The amount of grading expected or known to be required to bring the site to readiness**

36. N/A **Type and amount of site preparation which falls within the 100 ft. buffer strip of wetlands or within the Critical Environmental Area. Please explain in sq. ft. or cubic yards.**

_____

_____

37. N/A **Any amount of site preparation within a 100 year floodplain or any water course on the site. Please explain in sq. ft. or cubic yards.**

_____

_____

38. X **List of property owners within 500 feet of all parcels to be developed (see attached statement).**

The plan for the proposed subdivision or site has been prepared in accordance with this checklist.

By: _____
Licensed Professional

Date: 08/20/2021

This list is designed to be a guide ONLY. The Town of Newburgh Planning Board may require additional notes or revisions prior to granting approval.

Prepared (insert date): 08/20/2021

FEE ACKNOWLEDGEMENT

The town of Newburgh Municipal Code sets forth the schedule of fees for applications to the Planning Board. The signing of this application indicates your acknowledgement of responsibility for payment of these fees to the Planning Board for review of this application, including, but not limited to escrow fees for professional services (planner/consultant, engineering, legal), public hearing and site inspection. Applicant's submissions and resubmissions are not complete and will not be considered by the planning board or placed upon its agenda unless all outstanding fees have been paid. Fees incurred after the stamping of plans will remain the responsibility of the applicant prior to approval of a building permit or certificate of occupancy. Fee schedules are available from the Planning Board Secretary and are on the Town's website.

Scannell Properties, LLC
APPLICANT'S NAME (printed)

APPLICANTS SIGNATURE
Zachary Zweifler, Development Manager

August 17, 2021
DATE

Note: if the property abuts and has access to a County or State Highway or road, the following information must be place on the subdivision map: entrance location, entrance profile, sizing of drainage pipe (minimum length of pipe to be twenty-four (24) feet).

PROXY

(OWNER) Red Oak SOS, LLC **, DEPOSES AND SAYS THAT HE/SHE**

RESIDES AT 1400 E 66th Ave, Denver

IN THE COUNTY OF Adams

AND STATE OF Colorado

AND THAT HE/SHE IS THE OWNER IN FEE OF a parcel of real property

located at 124 Route 17K, Newburgh, NY (Tax ID: 95-1-58)

WHICH IS THE PREMISES DESCRIBED IN THE FOREGOING APPLICATION AS DESCRIBED THEREIN TO THE TOWN OF NEWBURGH PLANNING BOARD AND Scannell Properties, LLC **IS AUTHORIZED TO REPRESENT THEM AT MEETINGS OF SAID BOARD.**

DATED: 8/19/21

OWNERS SIGNATURE

Res Oak SOS, LLC
OWNERS NAME (printed)

WITNESS' SIGNATURE

NAMES OF ADDITIONAL REPRESENTATIVES

Ross Altman
WITNESS' NAME (printed)

PLANNING BOARD DISCLAIMER STATEMENT
TO APPLICANTS

The applicant is advised that the Town of Newburgh Municipal Code, which contains the Town's Zoning Law, is subject to amendment. Submission of an application to this Board does not grant the applicant any right to continued review under the Code's current standards and requirements. It is possible that the applicant will be required to meet changed standards or new Code requirements made while the application is pending.

An approval by this Board does not constitute permission, nor grant any right to connect to or use municipal services such as sewer, water or roads. It is the applicant's responsibility to apply for and obtain the Town of Newburgh and other agency approvals not within this Board's authority to grant.

The applicant hereby acknowledges, consents, and agrees to the above.

August 17, 2021
DATED

Scannell Properties, LLC
APPLICANT'S NAME (printed)

APPLICANT'S SIGNATURE
Zachary Zweifler, Development Manager

DISCLOSURE ADDENDUM STATEMENT TO APPLICATION, PETITION AND REQUEST

Mindful of the provisions of Section 809 of the General Municipal Law of the State of New York, and of the Penal provisions thereof as well, the undersigned applicant states that no State Officer, Officer or Employee of the Town of Newburgh, or Orange County, has any interest, financial or otherwise, in this application or with, or in the applicant as defined in said Statute, except the following person or persons who is or are represented to have only the following type of interest, in the nature and to the extent hereinafter indicated:

__X__ **NONE**

_____ **NAME, ADDRESS, RELATIONSHIP OR INTEREST**
(financial or otherwise)

_____

_____

_____

This disclosure addendum statement is annexed to and made a part of the petition, application and request made by the undersigned applicant to the following Board or Officer of the Town of Newburgh.

_____ **TOWN BOARD**
__X__ **PLANNING BOARD**
_____ **ZONING BOARD OF APPEALS**
_____ **ZONING ENFORCEMENT OFFICER**
_____ **BUILDING INSPECTOR**
_____ **OTHER**

August 17, 2021
DATED

_____
INDIVIDUAL APPLICANT

Scannell Properties, LLC
CORPORATE OR PARTNERSHIP APPLICANT

BY: _____
(Pres.) (Partner) (Vice-Pres.)
(Sec.) (Treas.)
Development Manager

ARCHITECTURAL REVIEW FORM

TOWN OF NEWBURGH PLANNING BOARD

DATE: November 24, 2021

NAME OF PROJECT: Newburgh Commerce Center

The applicant is to submit in writing the following items prior to signing of the site plans.

EXTERIOR FINISH (skin of the building):

Type (steel, wood, block, split block, etc.)

Concrete Wall Panels

COLOR OF THE EXTERIOR OF BUILDING:

SW7016, SW7019, SW7029

ACCENT TRIM:

Location: Canopy at Storefronts

Color: Clear Anodized

Type (material): Metal

PARAPET (all roof top mechanicals are to be screened on all four sides):

Integrated in Concrete Wall Panels

ROOF:

Type (gabled, flat, etc.): Flat

Material (shingles, metal, tar & sand, etc.): TPO or EPDM

Color: White (TPO) Black (EPDM)

WINDOWS/SHUTTERS:

Color (also trim if different): Tinted Glass-Clear Anodized Aluminum Trim

Type: Fixed Windows

DOORS:

Color: Tinted Glass-Clear Anodized Aluminum Trim, HM Doors painted to match wall

Type (if different than standard door entrée): aluminum & glass storefront and HM

SIGN:

Color: No signage is being proposed at this time. Any proposed signage to require seperate review.

Material: _____

Square footage of signage of site: _____

Scannell Properties, LLC

Please print name and title (owner, agent, builder, superintendent of job, etc.)

_____

Signature Zachary Zweifler, Development Manager

TOWN OF NEWBURGH

APPLICATION FOR CLEARING AND GRADING

Name of applicant: Scannell Properties, LLC

Name of owner on premises: Red Oak SOS, LLC

Address of owner: 1400 E 66th Ave Denver, CO 80229

Telephone number of owner: _____

Telephone number of applicant: 763-331-8857

State whether applicant is owner, lessee, agent, architect, engineer or contractor:
Contract Vendee

Location of land on which proposed work will be done: _____
124 Route 17K, Newburgh, New York 12550

Section: 95 **Block:** 1 **Lot:** 58 **Sub. Div.:** _____

Zoning District of Property: IB-Interchange Business **Size of Lot:** 13.8 acres

Area of lot to be cleared or graded: _____

Proposed completion of date: within 16 months of all required approvals

Name of contractor/agent, if different than owner: Scannell Properties, LLC

Address: 8801 River Crossing Blvd, Suite 300 Indianapolis, IN 46240

Telephone number: 763-331-8857

Date of Planning Board Approval: _____ **(if required)**

I hereby agree to hold the Town of Newburgh harmless from any claims arising from the proposed activity.

Signature of owner: _____ **Date:** 11/22/21

Signature of applicant (if different than owner): _____

TOWN ACTION:

Examined: _____ **20** _____

Approved: _____ **20** _____

Disapproved: _____ **20** _____

APPENDIX 2


nearmap
current : clear : change

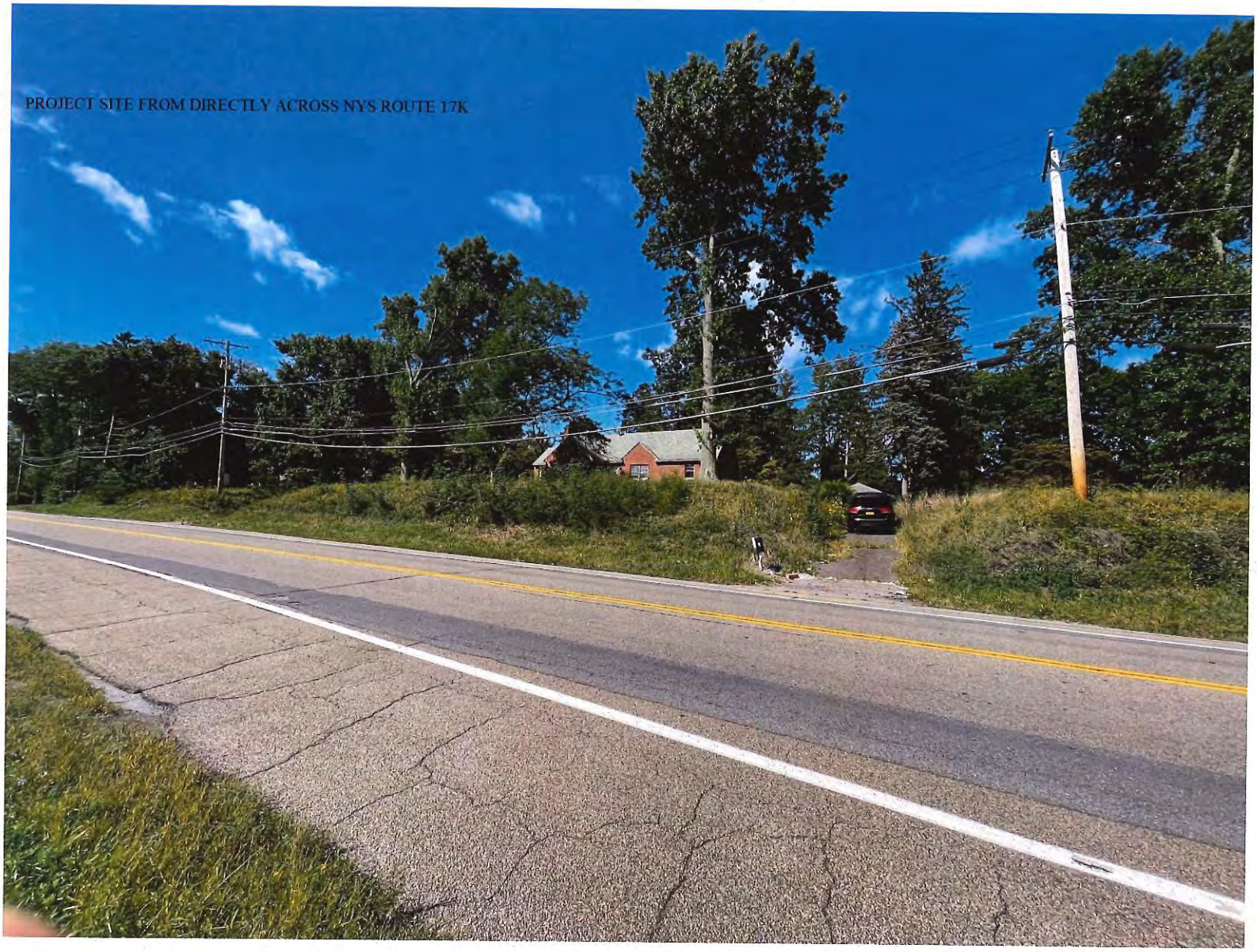
APPENDIX 3


PROJECT SITE FROM EAST OF THE PROPERTY BOUNDARY
ALONG NYS ROUTE 17K


PROJECT SITE FROM EASTERN BOUNDARY ALONG
NYS ROUTE 17K


PROJECT SITE FROM ACROSS NYS
ROUTE 17K NEAR WESTERN PROPERTY
BOUNDARY

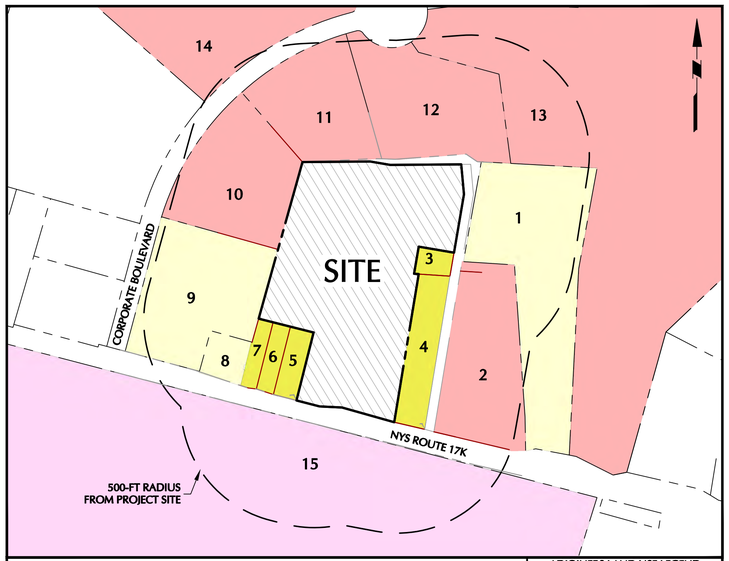

PROJECT SITE VIEWED TO THE EAST
ALONG NY'S ROUTE 17K


PROJECT SITE FROM DIRECTLY ACROSS NYS ROUTE 17K

APPENDIX 4

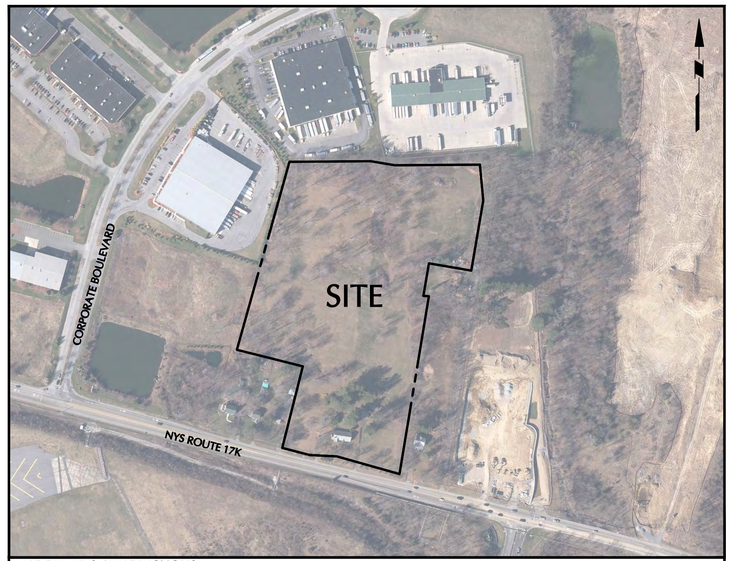
SITE PLAN APPROVAL DOCUMENTS FOR
NEWBURGH COMMERCE CENTER

TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK
SECTION 95, BLOCK 1, LOT 58
PLANNING BOARD PROJECT No: 2021-21



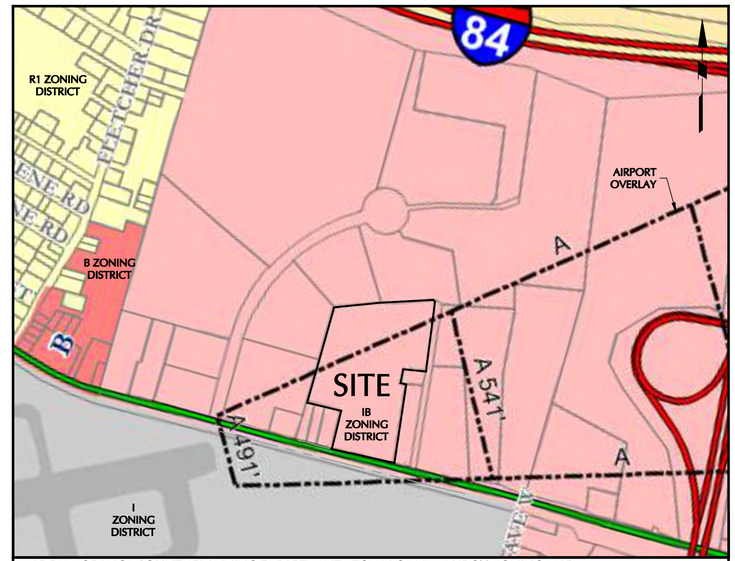
ADJOINERS AND LAND USE MAP
SCALE: 1 INCH = 300 FEET

ADJOINERS LAND USE LEGEND
- INDUSTRIAL/COMMERCIAL
- RESIDENTIAL
- VACANT
- STEWART AIRPORT
- PROPOSED USE: INDUSTRIAL/COMMERCIAL



MAP REF: NYS CLEARINGHOUSE

AERIAL MAP
SCALE: 1 INCH = 250 FEET



MAP REF: ORANGE COUNTY PLANNING DEPARTMENT - TOWN OF NEWBURGH ZONING MAP

ZONING MAP
SCALE: 1 INCH = 500 FEET

ADJACENT PROPERTY OWNERS

1. 95-1-54.2
   PDH Realty, LLC
   P.O. Box 859
   Goshen, NY 10924
2. 95-1-53
   PDH Realty, LLC
   P.O. Box 859
   Goshen, NY 10924
3. 95-1-56
   Van Schrier
   120 Route 17K
   Newburgh, NY 12550
4. 95-1-57
   Cosimo J. Colandrea
   P.O. Box 3257
   Newburgh, NY 12550
5. 95-1-59
   TJP Realty, LLC
   70 Taylors Way
   Newburgh, NY 12550
6. 95-1-60
   Michael W. Kane
   128 Route 17K
   Newburgh, NY 12550
7. 95-1-61
   Brandon Ozman
   130 W Main Street
   Walden, NY 12586
8. 95-1-64
   Pitsinos Property Inc.
   113 Dogwood Lane
   Newburgh, NY 12550
9. 95-1-76
   Palm Hospitality, LLC
   48 Sherwood Heights
   Wappingers Falls, NY 12590
10. 95-1-75
    JDP Associates, LLC
    160 Middlesex Turnpike
    Bedford, MA 01730
11. 95-1-1.32
    Buisness Center Northeast
    3 Manhattanville Road
    Purchase, NY 10577
12. 95-1-69.12
    A Duie Pyle
    P.O Box 564
    650 Westtown Road
    West Chester, PA 19381
13. 95-1-1.1
    Northeast Business Center
    3 Manhattanville Road
    Purchase, NY 10577
14. 95-1-79.2
    Matrix Newburgh I, LLC
    CN 4000 Forsgate Drive
    Cranbury, NJ 08512
15. 89-1-79
    NYS Department of Transportation
    Albany, NY 12201

PROJECT CONTACTS

APPLICANT:
SCANNELL PROPERTIES, LLC
8801 RIVER CROSSING BOULEVARD, SUITE 300
INDIANAPOLIS, IN 46240

OWNER:
RED OAK SOS, LLC
1400 E 66TH AVENUE
DENVER, CO 80229

DRAWING LIST

DRAWING NO.	SHEET NO.	DRAWING TITLE	DATE	LATEST REVISION
CS001	1 OF 15	COVER SHEET	8/19/2021	1/7/2022
CD101	2 OF 15	EXISTING CONDITIONS AND SITE REMOVALS PLAN	8/19/2021	2/7/2022
CS101	3 OF 15	SITE PLAN	8/19/2021	2/7/2022
CS201	4 OF 15	TRUCK TURNING MOVEMENT PLAN	1/7/2022	2/7/2022
CG201	5 OF 15	GRADING AND DRAINAGE PLAN	11/29/2021	2/7/2022
CU101	6 OF 15	UTILITY PLAN	10/8/2021	2/7/2022
CU201	7 OF 15	WATER MAIN PROFILE	1/27/2022	--
CE101	8 OF 15	EROSION AND SEDIMENT CONTROL PLAN	11/29/2021	2/7/2022
CS501	9 OF 15	DETAILS (1 OF 3)	11/29/2021	2/7/2022
CS502	10 OF 15	DETAILS (2 OF 3)	11/29/2021	2/7/2022
CS503	11 OF 15	DETAILS (3 OF 3)	1/7/2022	2/7/2022
LL101	12 OF 15	SITE LIGHTING PLAN	12/30/2021	1/7/2022
LL501	13 OF 15	SITE LIGHTING NOTES AND DETAILS	12/30/2021	1/7/2022
LP101	14 OF 15	PLANTING PLAN	8/19/2021	1/7/2022

Date	Description	No.
01/07/22	REVISED PER TOWN COMMENTS	3
11/29/21	PLANNING BOARD SUBMISSION	2
09/09/21	ZBA SUBMISSION	1

REVISIONS

STATE OF NEW YORK · W. CHARLES UTSCHIG, JR. · 062303 · LICENSED PROFESSIONAL ENGINEER

2/7/2022
SIGNATURE — DATE SIGNED
W. CHARLES UTSCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

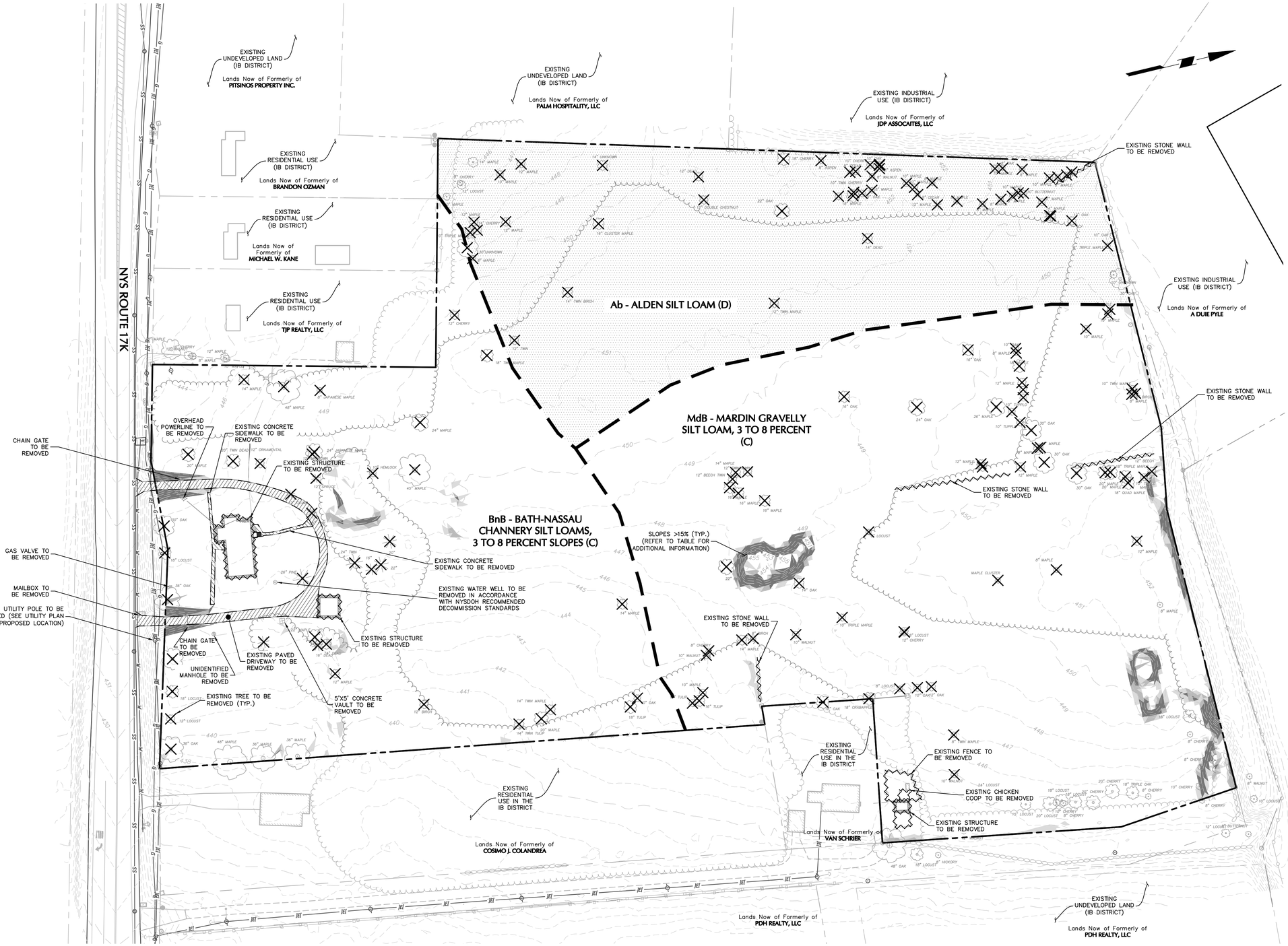
Drawing Title
COVER SHEET

Project No. 190071901
Date AUGUST 19, 2021
Drawn By JN
Checked By CZ

Drawing No. CS001
Sheet 1 of 15

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CS001-0101.dwg Date: 2/7/2022 Time: 11:59 User: idin Style Table: Langan.stb Layout: CS001



REFERENCE NOTES

1. EXISTING SITE FEATURES, TOPOGRAPHIC, AND UTILITY INFORMATION SHOWN HEREON ARE FROM THE ALTA/NSPS LAND TITLE SURVEY "LANDS OWNED BY RED OAK SOS LLC" TAX PARCEL 95-1-58, PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C., DATED OCTOBER 7, 2021.
2. THE HORIZONTAL DATUM REFERENCED TO NORTH AMERICAN DATUM OF 1983, NEW YORK STATE PLANE EAST ZONE 3101.
3. THE VERTICAL DATUM IS REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

SITE REMOVALS NOTES

THE SITE DEMOLITION ACTIVITIES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION, COORDINATION EFFORTS, PERMITTING COSTS, SERVICES, FILING FEES, TESTING COSTS, SECURITY, INSURANCE, AND ALL OTHER ASSOCIATED OR RELATED ITEMS REQUIRED TO COMPLETE THE SCOPE OF WORK DESCRIBED IN THIS SECTION.
2. INSTALL AND MAINTAIN ROADWAY CONSTRUCTION SIGNAGE AND ASSOCIATED TRAFFIC MEASURES.
3. INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING THE ADJACENT ROADWAYS DUE TO DEMOLITION RELATED DEBRIS, DUST, AND SEDIMENT AS NECESSARY OR AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER.
4. IMPLEMENT ALL SAFETY MEASURES AND ANY OTHER MEASURES DEEMED NECESSARY OR REQUIRED BY GOVERNING AUTHORITIES TO PROTECT FROM HARM OR DAMAGE ADJACENT AND ON-SITE PERSONS, PROPERTY, BUILDINGS, HOMES, BUSINESSES, FACILITIES, AND UTILITIES.
5. DISCONNECT AND CAP/TERMINATE ALL UTILITY SERVICES (E.G. WATER, SEWER, GAS, ELECTRIC, TELEPHONE, ETC.) IN ACCORDANCE WITH ALL LOCAL REGULATIONS AND UTILITY SERVICE COMPANY REQUIREMENTS. WHERE NECESSARY, THE WORK SHALL INCLUDE THE RESTORATION OF PAVEMENT AND CURBING IMPACTED WITHIN THE PUBLIC RIGHT-OF-WAY BY UTILITY REMOVAL AND DEMOLITION WORK.
6. REMOVE AND DISPOSE OF OFF-SITE ALL EXISTING SITE FEATURES INCLUDING, BUT NOT LIMITED TO ALL ASPHALT, CONCRETE SIDEWALKS, WALLS, STAIRWAYS, RAMPS, RAILINGS, BUSHES, TREES, CURBING, FENCES, POLES, ETC. WITHIN SITE AREAS.
7. UPON COMPLETION OF DEMOLITION, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE SITE IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN, SHEET CE101. TEMPORARY STABILIZATION MAY BE SUBJECT TO ADDITIONAL EROSION CONTROL MEASURES AS DETERMINED BY THE TOWN ENGINEER AT NO ADDITIONAL COST TO THE OWNER OR TOWN.
8. AN ABOVE GROUND STORAGE TANK USED FOR HEATING AND COOLING IS LOCATED IN THE BASEMENT OF THE RESIDENCE FRONTING ROUTE 17K. THE FILL PORT ASSOCIATED WITH THE AST IS LOCATED ON THE EXTERIOR SOUTHWEST POTION OF THE BUILDING. THE AST SHALL BE REMOVED IN ACCORDANCE WITH APPLICABLE STANDARDS.
9. THE RESIDENCE FRONTING ROUTE 17 IS ON A PRIVATE SEPTIC SYSTEM AND PRIVATE WATER WELL. THE SEPTIC SYSTEM AND WELL SHALL BE REMOVED IN ACCORDANCE WITH APPLICABLE STANDARDS.
10. A DEMOLITION PERMIT IS REQUIRED FROM THE TOWN'S CODE ENFORCEMENT OFFICE PRIOR TO THE START OF ANY DEMOLITION.
11. 157 TREES TO BE REMOVED OVER THE 13.8 ACRE SITE. TREES SHALL BE REMOVED BETWEEN THE DATES OF OCTOBER 1 – MARCH 31.

LEGEND

- PROPERTY LINE
- SITE FEATURE TO BE REMOVED
- TREE TO BE REMOVED
- EXISTING PAVEMENT/CONCRETE TO BE REMOVED

SLOPES TABLE

NUMBER	MIN. SLOPE	MAX. SLOPE	AREA (SF)	COLOR
1	15.0%	20.0%	4,962	
2	20.0%	25.0%	1,938	
3	25.0%	Vertical	2,160	

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SCALE: 1 INCH = 50 FEET

No.	Description	Date
5	REVISED PER TOWN COMMENTS	02/07/22
4	REVISED PER TOWN COMMENTS	01/07/22
3	REVISED PER TREE CLEARING	01/03/22
2	PLANNING BOARD SUBMISSION	11/29/21
1	ZBA SUBMISSION	09/09/21

REVISIONS

SIGNATURE — 2/7/2022 DATE SIGNED

CHARLES UTSCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
EXISTING CONDITIONS AND SITE REMOVALS PLAN

Project No. 190071901
Date AUGUST 19, 2021
Drawn By JN
Checked By CZ

Drawing No. CD101
Sheet 2 of 15

LANGAN PROJECT NO. 190071901

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CD101-0101.dwg Date: 2/7/2022 Time: 12:00 User: idin Style Table: Langan.stb Layout: CD101

LOADING & OFF-STREET PARKING REQUIREMENTS SECTION (185-13)

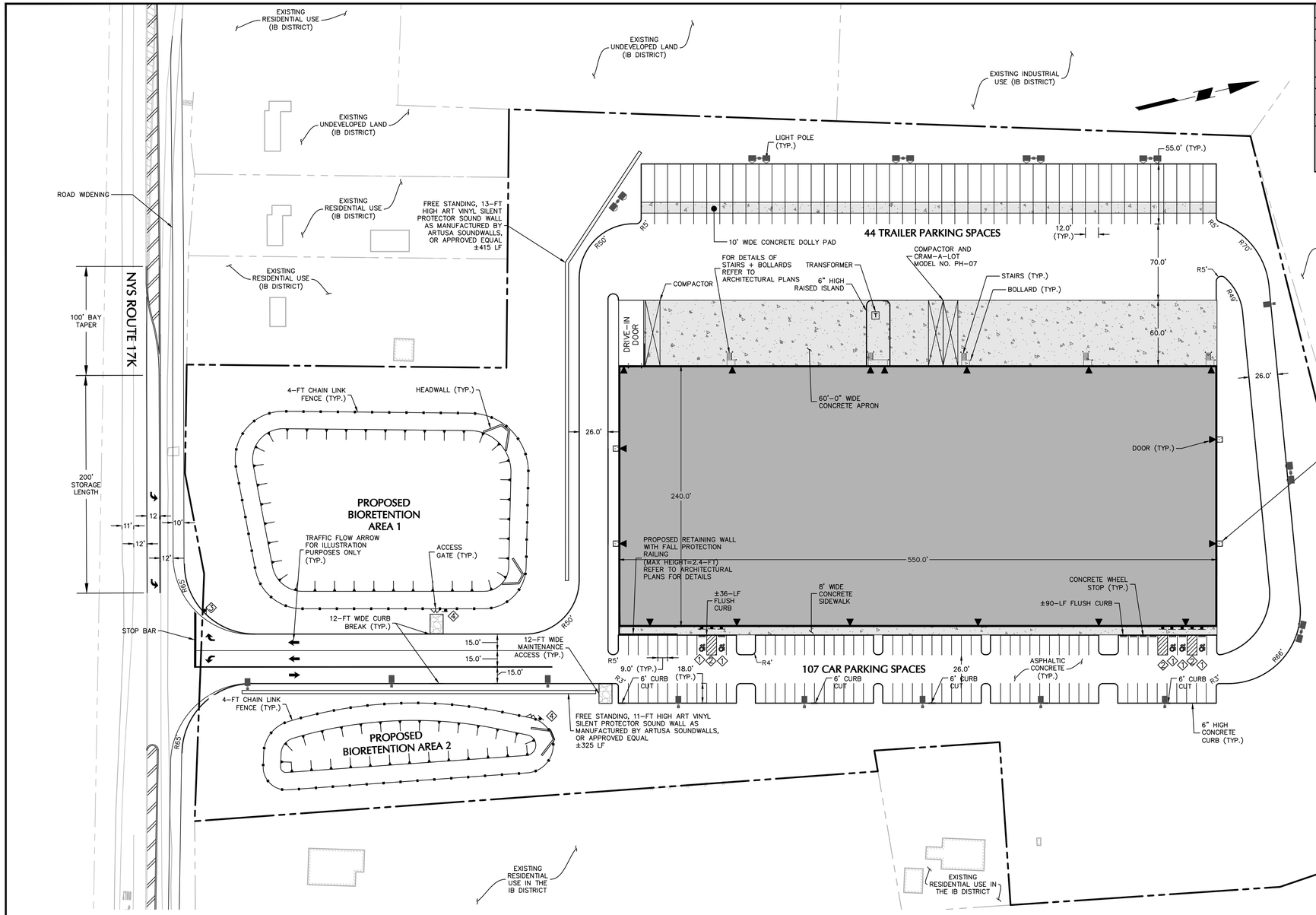
Zone: IB (Interchange Business)

Loading Requirements	Required	Proposed
2 spaces up to initial 40,000 SF and 1 additional space for each 40,000 square feet in addition to the first 40,000 square feet	Initial 40,000 SF Building = 2 spaces 92,000 SF Remaining Building / 40,000 SF = 2.3 spaces 2 spaces + 3 spaces = 5 loading spaces required	**>5 spaces provided**
Off-Street Parking Requirements (Warehouse)		
2 per 3 employees on duty or on the premises at any one time (minimum 2 spaces)	88 employees per shift / 3 employees = 29.3 spaces 29.3 spaces * 2 spaces = 59 spaces required	**107 spaces provided**
Off-Street Parking Requirements (Manufacturing or industrial establishment, research institute or laboratory)		
Parking area reservation equivalent to the total ground coverage of the building, with a minimum of 2 improved spaces per 3 employees on the premises at any 1 period of time (minimum 2 spaces)	128 employees per shift / 3 employees = 42.7 spaces 42.7 spaces * 2 spaces = 86 spaces required 130,000 SF of parking area reservation equivalent required	**107 spaces provided 132,000 SF of parking area reservation equivalent provided (see insert)**

ZONING TABLE: TOWN OF NEWBURGH, NY
INTERCHANGE BUSINESS (IB) ZONING DISTRICT
SECTION No. 95, BLOCK No. 1, LOT No. 58

CODE REF.	BULK REGULATION	REQUIRED	PROPOSED	COMPLIANCE
Schedule 8	PRINCIPAL USE	Use subject to site plan review by Planning Board	Various[1]	YES
Schedule 8	MIN. LOT AREA	40,000 SF	±602,542 SF (13.8 AC)	YES
Schedule 8	MIN. LOT WIDTH	150 FT	416 FT	YES
Schedule 8	MIN. LOT DEPTH	150 FT	1,053 FT	YES
Sect. 185-18	MIN. FRONT YARD (STATE ROAD)	60 FT	381.0 FT	YES
Schedule 8	MIN. SETBACK FROM ROUTE 17K[1]	500 FT	381.0 FT	VARIANCE GRANTED[2]
Schedule 8	MIN. REAR YARD	60 FT	80.8 FT	YES
Schedule 8	MIN. SIDE YARD (ONE SIDE)	30 FT	106.1 FT	YES
Schedule 8	MIN. SIDE YARD (BOTH SIDES)	80 FT	317.9 FT	YES
Schedule 8	MAX. LOT BUILDING COVERAGE	40%	21.9%	YES
Schedule 8	MAX. BUILDING HEIGHT	40 FT	< 40 FT	YES
Schedule 8	MAX. LOT SURFACE COVERAGE	80%	52.4%	YES
	LANDSCAPE REQUIREMENTS			
Sect. 185-18	FRONT YARD LANDSCAPE BUFFER ALONG ROUTE 17K	35 FT	35 FT	YES
Sect. 185-13	PARKING AREA LANDSCAPING	5% OF PARKING AREA	5.1%	YES

Note:
(1) The proposed use includes research laboratories; manufacturing, altering, fabricating, or processing products or materials; warehouse, storage, and transportaion facilities, including truck and bus terminals; and offices for business, research, and professional use and banks.
(2) Per Schedule 8, Column D., Line Item 9., "Warehouse, storage and transportation facilities, including truck and bus terminals, not within 500 feet of Route 17K" is a use subject to site plan review by the Planning Board. A variance has been granted to construct a portion of this use within 500 feet of Route 17K, and dated 12/27/2021.



PARKING AREA RESERVATION EQUIVALENT
SCALE: 1"=150'

SIGHT DISTANCE INSERT
SCALE: 1"=60'

( ) - REQUIRED BASED ON 60 MPH ROADWAY SPEED
[ ] - ACTUAL BASED ON FIELD MEASUREMENTS

SIGN SCHEDULE

SIGN NO.	SIGN FACE	NYS NUMBER	NATIONAL NUMBER	SIZE	BACKGROUND COLOR	LEGEND COLOR
1	RESERVED PARKING	R4-6	R7-8 (NO ARROWS)	24"x24" (12"x18" WITH VAN ACCESSIBLE)	WHITE	BLUE GREEN
2	NO PARKING ANY TIME	P1-1 (NO ARROWS)	P7-1 (NO ARROWS)	12"x18"	WHITE	RED
3	STOP	R1-1	R1-1	30"x30"	RED	WHITE

NOTES: REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS ON CUSTOM SIGNS.
REFER TO STORMWATER MANAGEMENT PRACTICE SIGN DETAIL ON SHEET CS501 FOR SIGN 4

50 0 25 50
SCALE: 1 INCH = 50 FEET

No.	Description	Date
6	REVISED PER TOWN COMMENTS	02/07/22
5	REVISED PER TOWN COMMENTS	01/07/22
4	PLANNING BOARD SUBMISSION	11/29/21
3	SD REVIEW COMMENTS	10/13/21
2	SCHEMATIC DESIGN DOCUMENTS	10/08/21
1	ZBA SUBMISSION	09/09/21

REVISIONS

STATE OF NEW YORK — W. CHARLES UTSCHIG, JR. — 062303 — PROFESSIONAL ENGINEER — LICENSED

SIGNATURE — 2/7/2022 DATE SIGNED

PROFESSIONAL ENGINEER W. CHARLES UTSCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

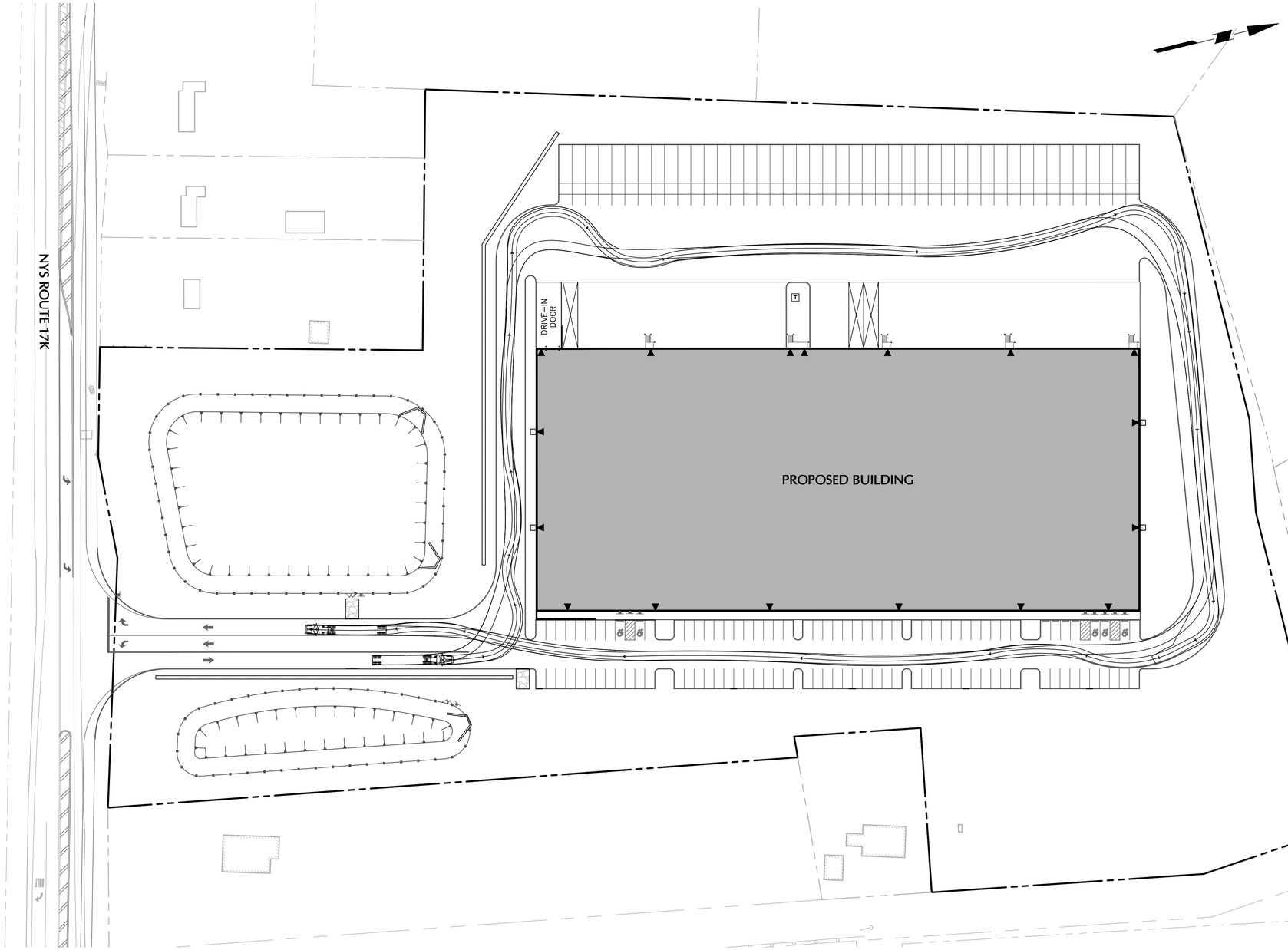
Drawing Title
SITE PLAN

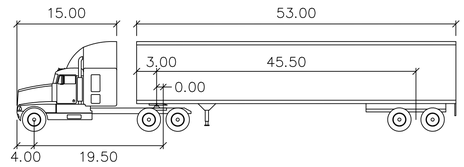
Project No. 190071901
Date AUGUST 19, 2021
Drawn By JN
Checked By JK

Drawing No. CS101
Sheet 3 of 15

LANGAN
PROJECT NO. 190071901

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CS101-0101.dwg Date: 2/7/2022 Time: 12:00 User: idin Style Table: Langan.stb Layout: CS101



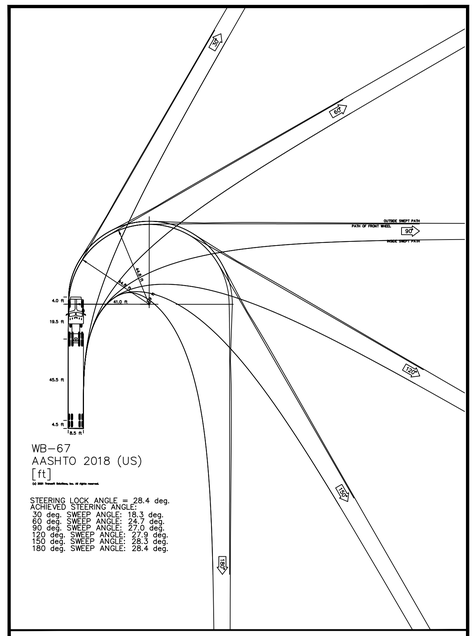


WB-67

feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

VEHICLE PROFILE



VEHICLE TURNING TEMPLATE

50 0 25 50

SCALE: 1 INCH = 50 FEET

No.	Description	Date
	REVISIONS	

SIGNATURE — DATE SIGNED 2/7/2022

STATE OF NEW YORK — W. CHARLES UTSCHIG, JR. — 062303 — PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER NY Lic. No. 062303

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
TRUCK TURNING MOVEMENT PLAN

Project No. **190071901**
Date **JANUARY 7, 2022**
Drawn By **JN**
Checked By **JK**

Drawing No. **CS201**
Sheet 1 of 1

LANGAN
PROJECT NO. 190071901

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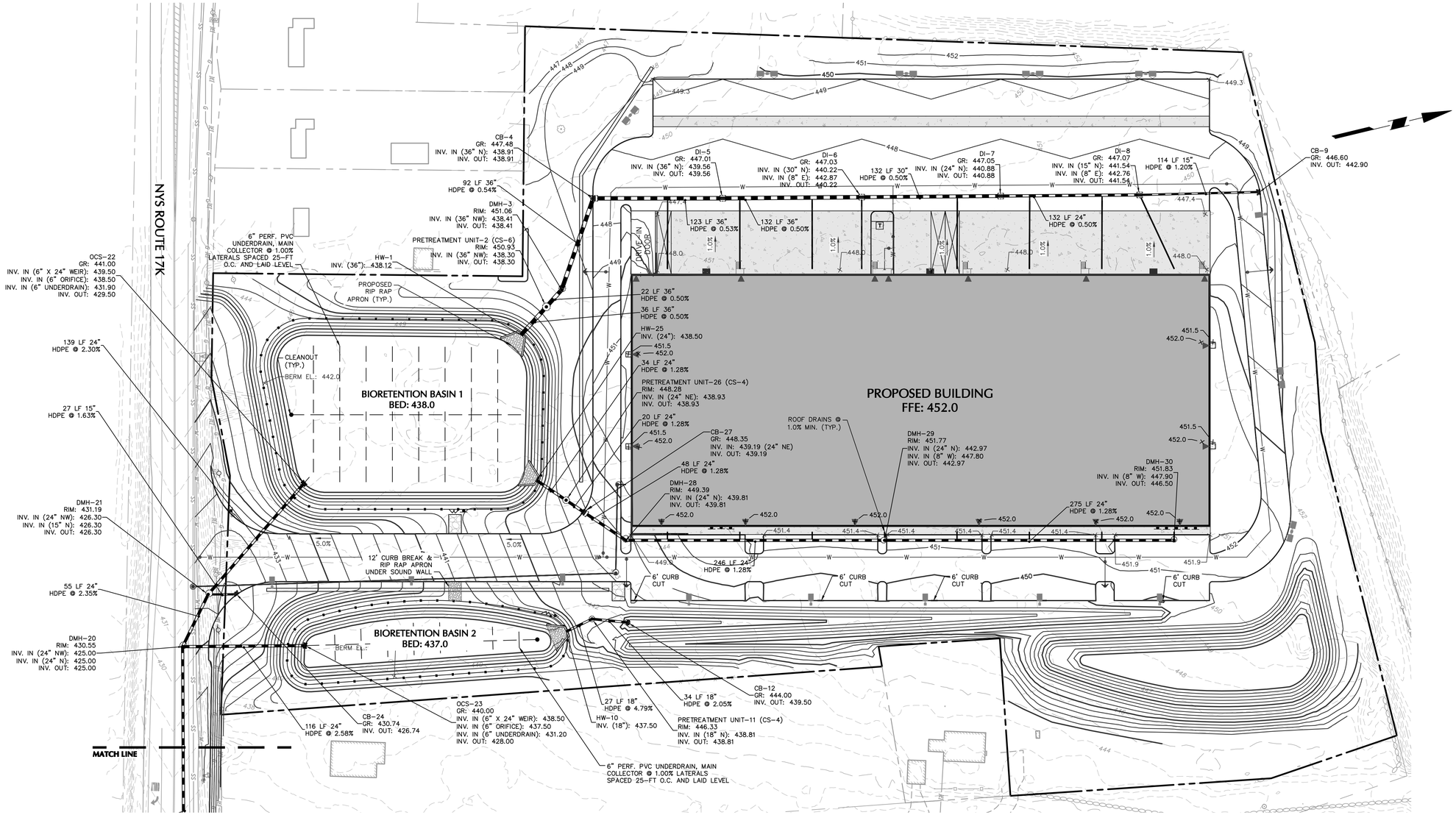
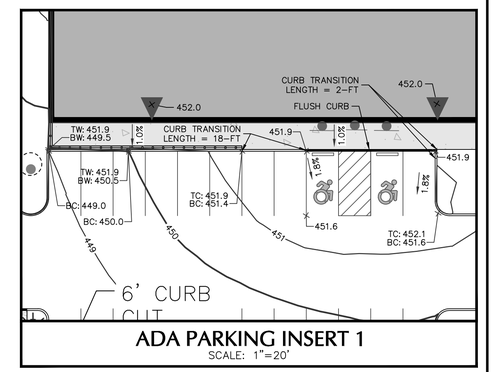
DRAINAGE NOTES

1. ALL DRAINAGE STRUCTURES AND STORM PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, AND INVERTS PRIOR TO BEGINNING CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
3. THE CONTRACTOR MUST NOTIFY THE TOWN ENGINEERING/DEPARTMENT OF PUBLIC WORKS A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ALL CONNECTIONS TO TOWN FACILITIES SHALL BE COORDINATED WITH AND WITNESSED BY TOWN DPW PERSONNEL.
4. ABBREVIATIONS:
   - HDPE = HIGH DENSITY POLYETHLENE
   - INV = INVERT
   - LF = LINEAR FEET
5. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS AND SIZES OF ALL ROOF LEADERS AND COORDINATE WITH PROPOSED STORMWATER SYSTEM PRIOR TO INSTALLATION.
6. ALL ROOF DRAINS FROM BUILDING SHALL BE BROUGHT TO FIVE (5) FEET OUTSIDE THE BUILDING LIMITS AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END.
7. ALL PROPOSED STORM DRAINAGE PIPING SHALL BE TEMPORARILY PROTECTED WITH REQUIRED MINIMUM COVER DURING CONSTRUCTION.
8. ALL DAMAGED EXISTING DRAINAGE STRUCTURES ON-SITE OR OFF-SITE, CAUSED BY THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE OWNER'S ENGINEER, AT NO COST TO THE OWNER OR TOWN.

LEGEND

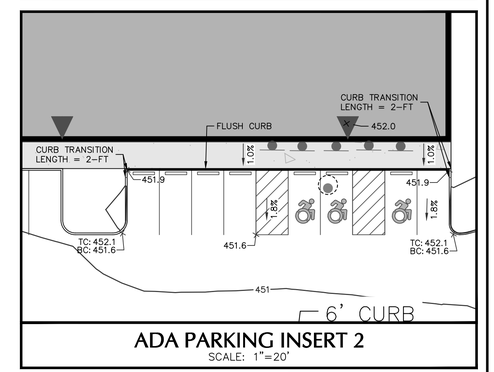
- MAJOR CONTOUR (449)
- MINOR CONTOUR (449)
- SPOT GRADE (439)
- PROPERTY LINE
- DRAIN INLET
- STORM PIPE
- MANHOLE
- CLEANOUT





ADA PARKING INSERT 1

SCALE: 1"=20'



ADA PARKING INSERT 2

SCALE: 1"=20'

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50 0 25 50
SCALE: 1 INCH = 50 FEET

Date	Description	No.
01/07/22	REVISED PER TOWN COMMENTS	2
11/29/21	PLANNING BOARD SUBMISSION	1

REVISIONS

STATE OF NEW YORK — JOHN W. CHARLES UTSCHIG, JR. — 062303 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE 2/7/2022 DATE SIGNED

JOHN W. CHARLES UTSCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

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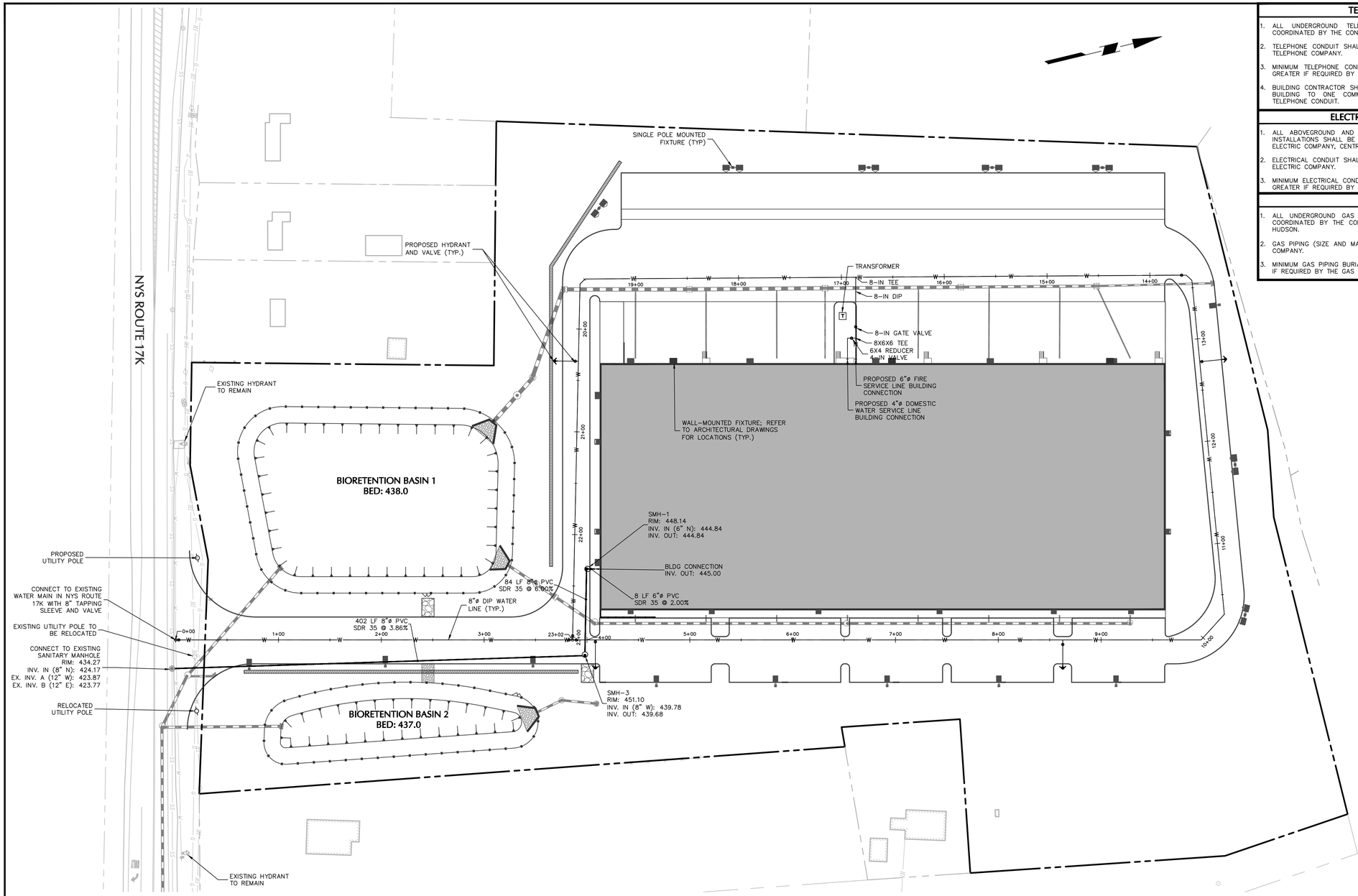
Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
GRADING AND DRAINAGE PLAN

Project No. 190071901
Date NOVEMBER 29, 2021
Drawn By JN
Checked By CZ

Drawing No. CG201
Sheet 5 of 15

LANGAN
PROJECT NO. 190071901



TELEPHONE NOTES

1. ALL UNDERGROUND TELEPHONE RELATED INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE TELEPHONE COMPANY.
2. TELEPHONE CONDUIT SHALL BE SCH. 40 PVC OR AS REQUIRED BY THE TELEPHONE COMPANY.
3. MINIMUM TELEPHONE CONDUIT BURIAL DEPTH SHALL BE TWO FEET, OR GREATER IF REQUIRED BY THE TELEPHONE COMPANY.
4. BUILDING CONTRACTOR SHALL ROUTE TELEPHONE SERVICE INSIDE OF THE BUILDING TO ONE COMMON POINT FOR CONNECTION TO THE SITE TELEPHONE CONDUIT.

ELECTRICAL SERVICE NOTES

1. ALL ABOVEGROUND AND UNDERGROUND ELECTRICAL SERVICE RELATED INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ELECTRIC COMPANY, CENTRAL HUDSON.
2. ELECTRICAL CONDUIT SHALL BE SCH. 80 PVC OR AS REQUIRED BY THE ELECTRIC COMPANY.
3. MINIMUM ELECTRICAL CONDUIT BURIAL DEPTH SHALL BE THREE FEET, OR GREATER IF REQUIRED BY THE ELECTRIC COMPANY.

GAS NOTES

1. ALL UNDERGROUND GAS SERVICE RELATED INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE GAS COMPANY, CENTRAL HUDSON.
2. GAS PIPING (SIZE AND MATERIAL) SHALL BE AS REQUIRED BY THE GAS COMPANY.
3. MINIMUM GAS PIPING BURIAL DEPTH SHALL BE THREE FEET, OR GREATER IF REQUIRED BY THE GAS COMPANY.

SEWER NOTES

1. ALL CONSTRUCTION TO COMPLY WITH CURRENT TOWN OF NEWBURGH SPECIFICATIONS AND ORDINANCES.
2. CONTRACTOR SHALL SECURE ALL PERMITS AT HIS OWN EXPENSE.
3. MATERIALS FOR SANITARY SEWER:
   A. POLYVINYL CHLORIDE (P.V.C) SANITARY SEWER PIPE WITH INTEGRAL BELL AND SPIGOT JOINTS. PIPE SHALL CONFORM TO ASTM D3034, SPECIFICATION LATEST REVISION. GRAVITY SEWER SHALL BE PVC SDR-35.
   B. EQUAL APPROVED BY TOWN ENGINEER.
4. HORIZONTAL SEPARATION: SEWERS SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE FROM EDGE TO EDGE. WHERE NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER.
5. CROSSINGS-SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE, OR BELOW THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM WATERMAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.
6. ALL TRENCHING IN THE ROW SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
7. NOTWITHSTANDING SATISFACTORY TEST RESULTS, IF EXCESSIVE INFILTRATION IS DISCOVERED WITHIN TWO YEARS OF ACCEPTANCE OF THE SEWER SYSTEM, THE CONTRACTOR WILL BE REQUIRED TO CORRECT THE SITUATION. THE CONTRACTOR SHALL UPON WRITTEN NOTICE FROM THE ENGINEER, TAKE THE NECESSARY STEPS TO CORRECT THE LEAK AT NO ADDITIONAL COST TO THE OWNER. SUCH WORK SHALL BE ACCOMPLISHED WITHIN TWO WEEKS OF THE DATE OF NOTIFICATION.
8. GRAVITY SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS AND ASTM F-1417, LATEST VERSION.
9. SEWER MANHOLES SHALL BE TESTED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS AND ASTM C-1244, LATEST VERSION.

WATER NOTES

1. ALL CONSTRUCTION TO COMPLY WITH CURRENT TOWN OF NEWBURGH SPECIFICATIONS AND ORDINANCES.
2. CONTRACTOR SHALL SECURE ALL PERMITS AT HIS OWN EXPENSE.
3. MATERIAL FOR WATERMAINS:
   A) CEMENT LINED DUCTILE IRON PIPE MINIMUM THICKNESS CLASS 52 WITH 150 PSI WORKING PRESSURE AND SHALL CONFORM TO AWWA SPECIFICATION C 151 LATEST REVISION FOR HYDRANT ASSEMBLIES. THE PIPE SHALL BE ENCASED WITH A MINIMUM 8 MIL. POLYETHYLENE WRAP, AS PER AWWA C 105 SPECIFICATION. TYPE MECHANICAL JOINT TEES AND NIPPLES. HYDRANTS SHALL BE PLACED A MAXIMUM OF 500± APART. HYDRANTS SHALL BE "BAGGED" UNTIL READY FOR USE. HYDRANTS SHALL OPEN COUNTERCLOCKWISE [LEFT], AND CLOSE CLOCKWISE RIGHT.
4. ALL FIELD INSTALLED BOLTS SHALL BE CAPPED WITH SACRIFICIAL ZINC ANODES.
5. CONTRACTOR WILL BE RESPONSIBLE TO FURNISH AND INSTALL TEST POINTS AT THE APPROXIMATE LOCATIONS AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE TOWN ENGINEER. THE TEST POINTS SHALL CONSIST OF A 1" OR 2" CORPORATION STOP, AND THE NECESSARY 1" OR 2" COPPER PIPE TO ADEQUATELY CONDUCT THE REQUIRED TESTS. AFTER TESTING HAS BEEN COMPLETED AND APPROVED, THE CONTRACTOR SHALL REMOVE THE CORPORATION STOPS AND INSTALL STANDARD AWWA FACTORY THREADED BRASS PLUGS. SAMPLE POINTS SHALL BE LOCATED AT THE BEGINNING AND END OF EACH LINE WITH A MAXIMUM SPACING OF 1000 FEET.
6. THE WATER MAIN SHALL BE TESTED, DISINFECTED, AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION, AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO PUTTING THE WATER MAIN IN SERVICE. SATISFACTORY TESTING RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT AND ORANGE COUNTY HEALTH DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER A MINIMUM OF 24 HOURS PRIOR TO SAMPLING.
7. PRESSURE AND LEAKAGE TEST SHALL BE DONE IN ACCORDANCE WITH AWWA C-600 STANDARDS.
8. DISINFECTION SHALL BE COMPLETED IN ACCORDANCE WITH AWWA C651, LATEST REVISION. THE TABLET METHOD IS NOT ALLOWED.
9. INSTALLATION SHALL COMPLY WITH THE 2018 "TEN STATES STANDARDS." HORIZONTAL SEPARATION-WATERMAIN SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN. THE DISTANCE SHALL BE FROM EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE WATERMAIN CLOSER TO A SEWER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER.
10. WATERMAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE, OR BELOW THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE WATERMAIN JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM SEWER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

LEGEND

- SANITARY LATERAL
- W — WATER SERVICE LINE
- HYDRANT
- WATER VALVE
- SANITARY SEWER MANHOLE
- UTILITY POLE

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

50 0 25 50
SCALE: 1 INCH = 50 FEET

No.	Description	Date
3	REVISED SUBMISSION	01/07/22
2	PLANNING BOARD SUBMISSION	11/29/21
1	SCHEMATIC DESIGN DOCUMENTS	10/08/21

REVISIONS

SIGNATURE — DATE SIGNED 2/7/2022
W. CHARLES UTSCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

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Project
NEWBURGH COMMERCE CENTER
BLOCK No. 1, LOT No.58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

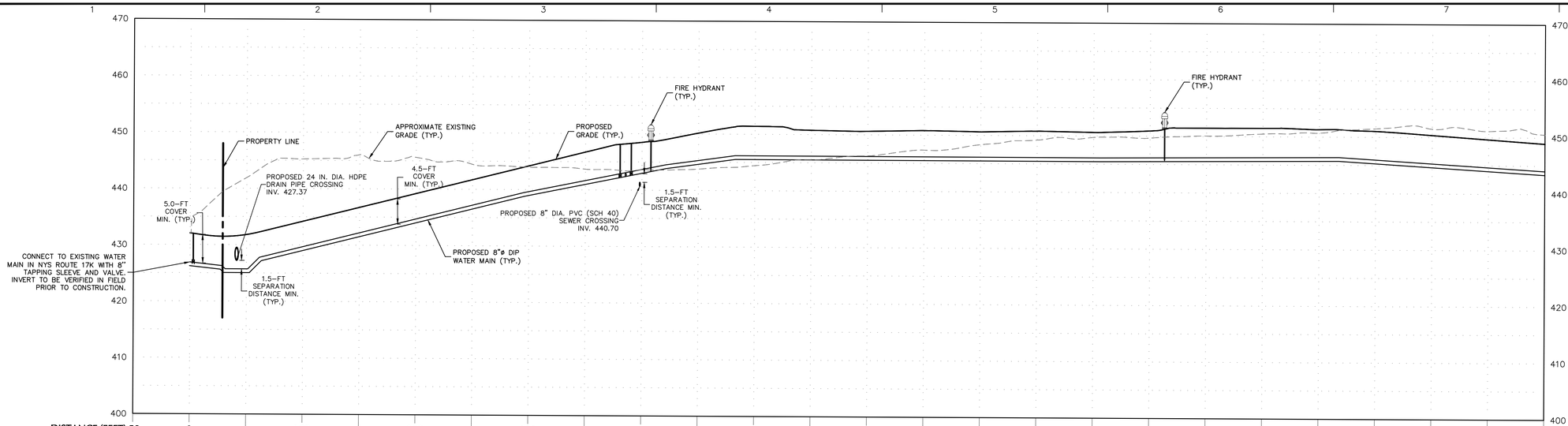
Drawing Title
UTILITY PLAN

Project No.	190071901
Date	OCTOBER 8, 2021
Drawn By	JN
Checked By	JK

Drawing No. CU101
Sheet 6 of 15

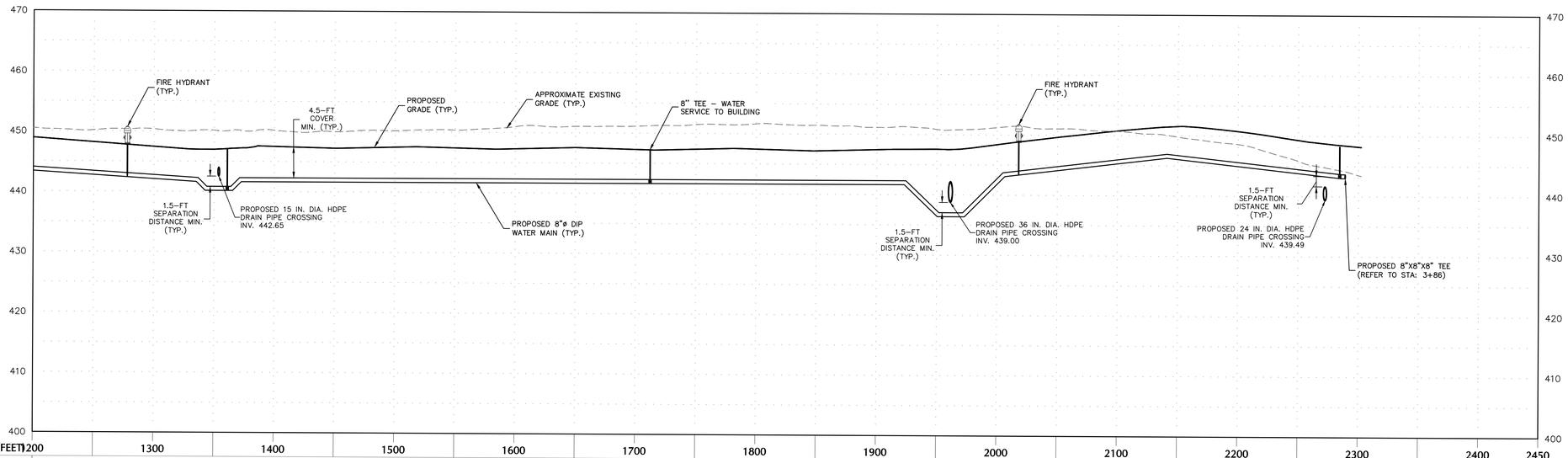
PROJECT NO. 190071901

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CU101-0101.dwg Date: 2/7/2022 Time: 12:01 User: idn Style Table: Langan.stb Layout: CU101



DISTANCE (FEET)-50	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
EXISTING ELEV (FEET)	*432.1*	*441.9*	*445.2*	*446.0*	*445.6*	*444.4*	*444.0*	*443.7*	*443.6*	*443.8*	*444.4*	*445.6*	*446.3*	*447.4*	*448.4*	*449.2*	*449.7*	*449.7*	*450.1*	*450.5*	*450.7*	*451.5*	*451.5*	*451.1*	*450.5*
PROPOSED ELEV (FEET)	432.1	431.8	434.2	436.7	439.2	441.7	444.2	446.7	448.5	450.2	451.4	450.8	450.6	450.8	450.6	450.8	450.6	450.9	451.5	451.5	451.3	451.0	450.4	449.6	448.9

WATER MAIN PROFILE (1 OF 2)
SCALE: H: 1"=50'
V: 1"=10'



DISTANCE (FEET)	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2450
EXISTING ELEV (FEET)	*450.5*	*450.2*	*450.4*	*450.2*	*450.2*	*450.0*	*450.2*	*450.4*	*451.0*	*451.1*	*451.2*	*451.5*	*451.7*	*451.5*	*451.2*	*450.9*	*451.2*	*451.1*	*450.7*	*449.8*	*448.6*	*445.9*	*443.5*	
PROPOSED ELEV (FEET)	448.9	448.2	447.4	447.0	447.5	447.3	447.5	447.4	447.3	447.6	447.3	447.4	447.5	447.2	447.5	447.6	448.4	449.6	450.7	451.5	450.7	449.3	448.2	

WATER MAIN PROFILE (2 OF 2)
SCALE: H: 1"=50'
V: 1"=10'

H: 50 0 25 50
V: 10 0 5 10
SCALE IN FEET

No.	Description	Date
REVISIONS		

I HEREBY CERTIFY THAT THE PLANS AND SPECIFICATIONS HEREON ARE IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS.
SIGNATURE
DATE SIGNED 2/7/2022
EDWARD SCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

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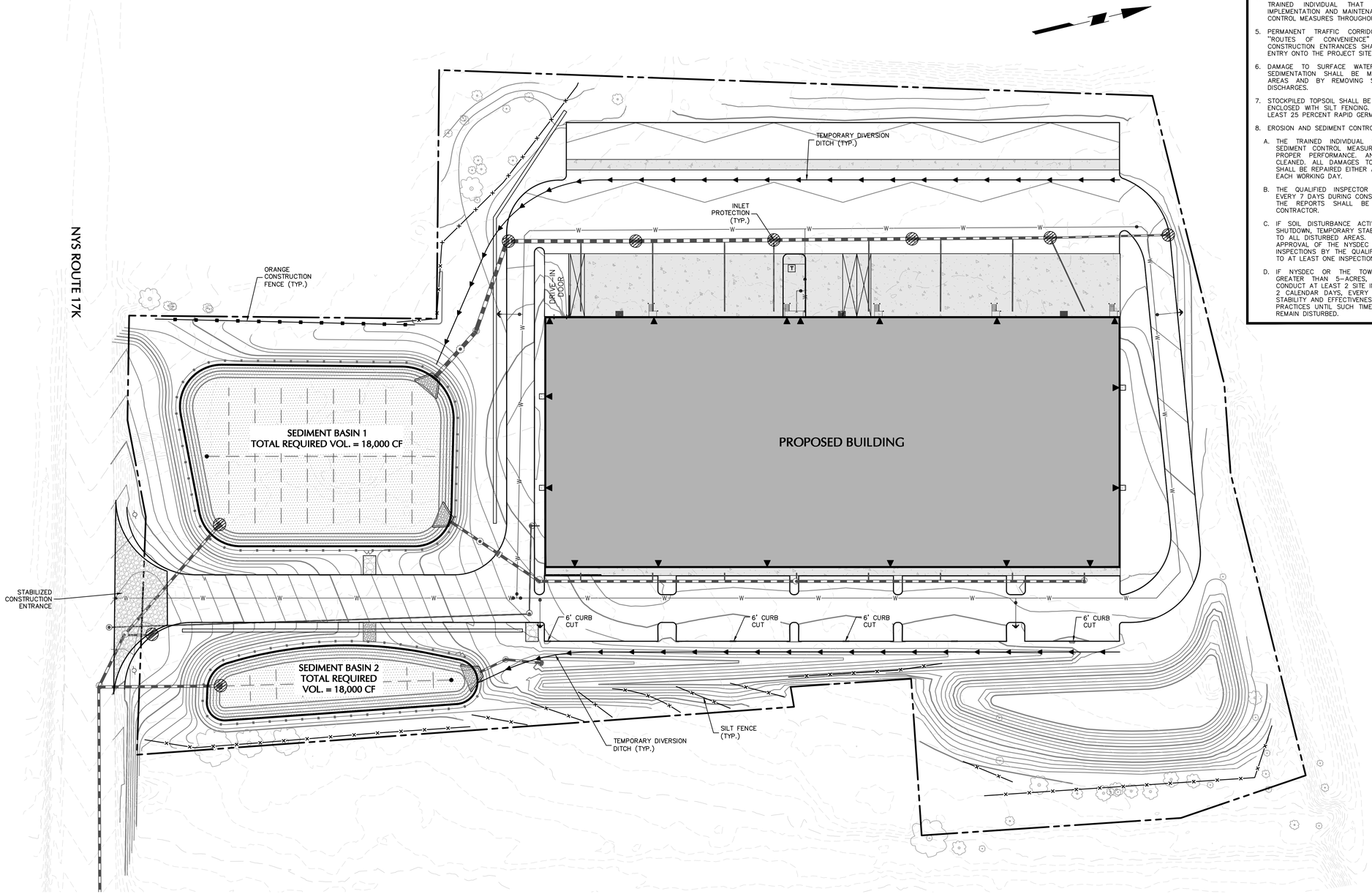
Project
NEWBURGH COMMERCE CENTER
BLOCK No. 1, LOT No.58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
WATER MAIN PROFILE

Project No. 190071901
Date JANUARY 27, 2022
Drawn By AL
Checked By CZ

Drawing No. CU201
Sheet 7 of 15

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CU202-0101.dwg Date: 2/7/2022 Time: 12:01 User: idn Style Table: Langan.stb Layout: CU201



EROSION & SEDIMENT CONTROL NOTES

1. REFER TO THE SPDES GENERAL PERMIT COMPLIANCE NOTES FOR ADDITIONAL REQUIREMENTS.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", LATEST REVISIONS.
3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION. EXISTING VEGETATION SHALL BE PRESERVED AS MUCH AS IS PRACTICAL.
4. THE CONTRACTOR AND THEIR SUBCONTRACTOR(S) SHALL IDENTIFY THE TRAINED INDIVIDUAL THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
5. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.
6. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
7. STOCKPILED TOPSOIL SHALL BE TEMPORARILY SEEDED, MULCHED, AND ENCLOSED WITH SILT FENCING. ALL GRASS SEED WILL CONTAIN AT LEAST 25 PERCENT RAPID GERMINATING PERENNIAL RYE GRASS.
8. EROSION AND SEDIMENT CONTROL INSPECTIONS:
   A. THE TRAINED INDIVIDUAL SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS TO ENSURE PROPER PERFORMANCE. ANY SEDIMENT BUILD-UP SHALL BE CLEANED. ALL DAMAGES TO EROSION AND SEDIMENT CONTROLS SHALL BE REPAIRED EITHER AT THE BEGINNING OR AT THE END OF EACH WORKING DAY.
   B. THE QUALIFIED INSPECTOR SHALL CONDUCT SITE INSPECTIONS EVERY 7 DAYS DURING CONSTRUCTION. ANY DEFICIENCIES NOTED IN THE REPORTS SHALL BE CORRECTED IMMEDIATELY BY THE CONTRACTOR.
   C. IF SOIL DISTURBANCE ACTIVITIES ARE SUSPENDED FOR WINTER SHUTDOWN, TEMPORARY STABILIZATION MEASURES WILL BE APPLIED TO ALL DISTURBED AREAS. IN THIS CASE AND SUBJECT TO THE APPROVAL OF THE NYSDEC AND THE TOWN, THE FREQUENCY OF INSPECTIONS BY THE QUALIFIED PROFESSIONAL MAY BE REDUCED TO AT LEAST ONE INSPECTION EVERY 30 CALENDAR DAYS.
   D. IF NYSDEC OR THE TOWN AUTHORIZES SOIL DISTURBANCES GREATER THAN 5-ACRES, THE QUALIFIED PROFESSIONAL WILL CONDUCT AT LEAST 2 SITE INSPECTIONS, SEPARATED BY AT LEAST 2 CALENDAR DAYS, EVERY 7 CALENDAR DAYS TO ENSURE THE STABILITY AND EFFECTIVENESS OF ALL PROTECTIVE MEASURES AND PRACTICES UNTIL SUCH TIME THAT LESS THAN 5-ACRES OF SOIL REMAIN DISTURBED.
9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
10. EARTHWORK ACTIVITIES SHALL BE CONSISTENT WITH THE PLANS. THE EARTHWORK OPERATION AREAS SHALL BE STABILIZED ON AN ONGOING BASIS WITH NO AREAS, WHICH ARE NOT CURRENTLY UNDER CONSTRUCTION, LEFT WITHOUT AT LEAST TEMPORARY COVER FOR MORE THAN 48 HOURS.
11. EROSIVE MATERIAL TEMPORARILY STOCKPILED ON THE SITE DURING THE CONSTRUCTION PROCESS SHALL BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE AND SHALL BE PROPERLY PROTECTED BY A SURROUNDING SILT FENCE BARRIER.
12. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED LANDSCAPE SOILS.
13. IF CONSTRUCTION TAKES PLACE IN "WET SOILS", CURTAIN DRAINS OR SUBSURFACE DRAINAGE SHALL BE INSTALLED TO DEWATER THE SOILS. DEWATERING DISCHARGES WILL NOT BE DIRECTED INTO WETLANDS, WATER COURSES, WATER-BODIES, OR STORM SEWER SYSTEMS.
14. TEMPORARY DRAINAGE SWALES WITH A MINIMUM GRADE OF ONE PERCENT SHALL BE INSTALLED TO DIRECT RUNOFF AWAY FROM EXCAVATED AREAS. SWALES SHALL BE INSTALLED WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWNSTREAM SILTATION. LOCATION OF THE DRAINAGE SWALES AND HAY BALES WILL BE AT THE DIRECTION OF THE DESIGN ENGINEER. SILT FENCE SHALL BE PROPERLY INSTALLED DOWN GRADE OF ALL DISTURBED AREAS. SILT FENCE SHALL BE INSTALLED ALONG CONTOURS TO FILTER SEDIMENT FROM RUNOFF. INSPECTION BY CONTRACTOR SHOULD BE FREQUENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. SILT FENCE SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
15. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WHEN ALL DISTURBED AREAS HAVE UNDERGONE FINAL STABILIZATION, UPGRADIENT SURFACES HAVE BEEN PROPERLY STABILIZED, AND ALL STORMWATER MANAGEMENT SYSTEMS ARE IN PLACE AND OPERABLE. ALL AREAS DISTURBED BY THE REMOVAL OF THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FILLED IN, TOPSOILED, SEEDED, AND MULCHED. FINAL STABILIZATION IS ACHIEVED WHEN ALL SOIL DISTURBING ACTIVITIES ARE COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80 PERCENT COVERAGE IS ESTABLISHED, OR EQUIVALENT STABILIZATION MEASURES, SUCH AS PLACEMENT OF MULCH OR GEOTEXTILE, IS COMPLETED ON ALL AREAS NOT PAVED OR COVERED BY PERMANENT STRUCTURES. ENSURE THAT FINAL STABILIZATION OF ALL TRIBUTARY AREAS IS ACHIEVED PRIOR TO THE CONSTRUCTION OF THE BIORETENTION BASINS.

LEGEND

- PROPERTY LINE
- SILT FENCE
- ORANGE CONSTRUCTION FENCE
- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE
- TEMPORARY SEDIMENT TRAP
- TEMPORARY DIVERSION DITCH

SCALE: 1 INCH = 50 FEET

No.	Description	Date
1	PLANNING BOARD SUBMISSION	11/29/21

REVISIONS

SIGNATURE — DATE SIGNED 2/7/2022
PROFESSIONAL ENGINEER NY Lic. No. 062303

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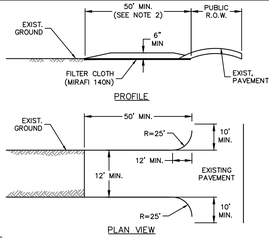
Project: NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title: EROSION AND SEDIMENT CONTROL PLAN

Project No. 190071901
Date NOVEMBER 29, 2021
Drawn By JN
Checked By CZ

Drawing No. CE101
Sheet 8 of 15

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CE101-0101.dwg Date: 2/7/2022 Time: 12:01 User: idin Style Table: Langan.stb Layout: CE101



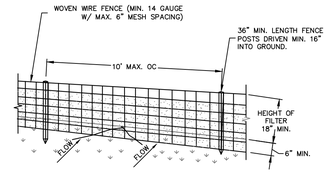
NOTE:
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W.

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 3" STONE (NYSDOT ITEM #623.11 SIZE DESIGNATION #2, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50-FEET (EXCEPT ON SINGLE FAMILY LOT, 30-FEET MINIMUM LENGTH WOULD APPLY.)
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SIGHT.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTR. ENTRANCE

SCALE: NTS



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER "T" OR "U" TYPE, OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
5. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT THAT MEETS THE MINIMUM REQUIREMENTS SHOWN.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

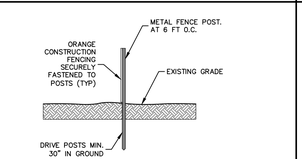
DETAIL NOTES

1. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL ("THE BLUE BOOK").
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE DISTURBED AREA AS POSSIBLE, BUT AT LEAST 10 FEET FROM THE TOE OF A SLOPE STEEPER THAN 3H:1V, TO ALLOW FOR MAINTENANCE AND ROLL DOWN. THE AREA BEYOND THE FENCE MUST BE UNDISTURBED OR STABILIZED.
3. THE TYPE OF SILT FENCE SPECIFIED FOR EACH LOCATION ON THE PLAN SHALL NOT EXCEED THE MAXIMUM SLOPE LENGTH AND MAXIMUM FENCE LENGTH REQUIREMENTS SHOWN IN THE TABLE BELOW. IF A TYPE SILT FENCE IS NOT SPECIFIED ON THE PLANS, THE CRITERIA FOR STANDARD SILT FENCE CAN BE APPLIED.
4. SILT FENCE SHALL BE REMOVED AS SOON AS THE DISTURBED AREA HAS ACHIEVED FINAL STABILIZATION.

		SLOPE LENGTH/FENCE LENGTH (FT.)		
SLOPE	STEEPNESS	STANDARD	REINFORCED	SUPER
<2%	<50:1	300/1500	N/A	N/A
2–10%	50:1 TO 10:1	125/1000	250/2000	300/2500
10–20%	10:1 TO 5:1	100/750	150/1000	200/1000
20–33%	5:1 TO 3:1	60/500	80/750	100/1000
33–50%	3:1 TO 2:1	40/250	70/350	100/500
>50%	>2:1	20/125	30/175	50/250

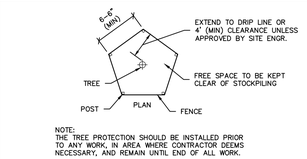
SILT FENCE

SCALE: NTS



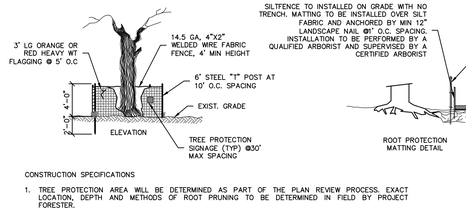
ORANGE CONSTRUCTION FENCE

SCALE: NTS



NOTE:
THE TREE PROTECTION SHOULD BE INSTALLED PRIOR TO ANY WORK, IN AREA WHERE CONTRACTOR DEEMS NECESSARY, AND REMAIN UNTIL END OF ALL WORK.

CORRECT METHOD OF TREE FENCING

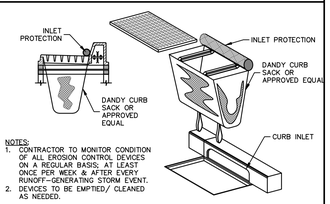


CONSTRUCTION SPECIFICATIONS

1. TREE PROTECTION AREA WILL BE DETERMINED AS PART OF THE PLAN REVIEW PROCESS. EXACT LOCATION, DEPTH AND METHODS OF ROOT PRUNING TO BE DETERMINED IN FIELD BY PROJECT FORESTER.
2. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING.
3. TRENCH SHOULD BE BACKFILLED IMMEDIATELY OR INCORPORATED WITH SILT FENCE INSTALLATION.
4. ROOTS SHOULD BE SEVERED BY TRENCHER, VIBRATORY PLOW OR APPROVED EQUIVALENT. ROOTS OVER 1.5" DIAMETER SHOULD BE CLEANLY CUT BY HAND. ROOT PRUNING ADJACENT TO SPECIMEN TREES MAY REQUIRE SOIL REMOVAL BY SUPERSONIC AIR TOOL TO MINIMIZE TREE AND ROOT IMPACTS.

TREE VEGETATION PROTECTION BARRIER

SCALE: NTS

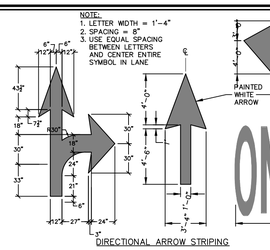


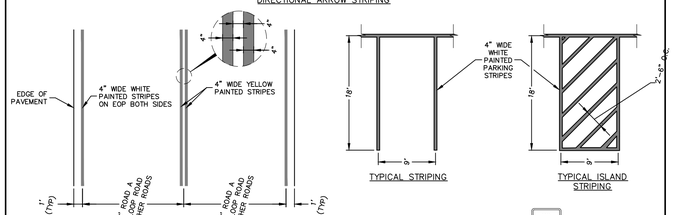
NOTES:
1. CONTRACTOR TO MONITOR CONDITION OF ALL EROSION CONTROL DEVICES ON A REGULAR BASIS; AT LEAST ONCE PER WEEK & AFTER EVERY RUNOFF-GENERATING STORM EVENT.
2. DEVICES TO BE EMPTIED/ CLEANED AS NEEDED.

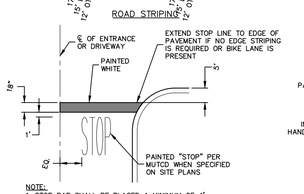
INLET PROTECTION - DANDY SACK

SCALE: NTS

NOTE:
1. LETTER WIDTH = 1'-4"
2. SPACING = 8"
3. USE EQUAL SPACING BETWEEN LETTERS AND CENTER ENTIRE SYMBOL IN LANE

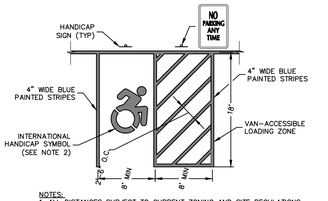






NOTE:
1. STOP BAR SHALL BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST CROSSWALK LINE AT INTERSECTIONS WITH CROSSWALKS.

STOP BAR STRIPING

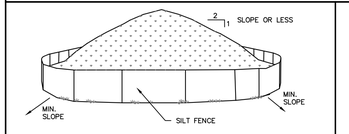


NOTES:
1. ALL DISTANCES SUBJECT TO CURRENT ZONING AND SITE REGULATIONS.
2. PAINTED HANDICAP SYMBOL TO BE IN ACCORDANCE W/ ADA STANDARDS.
3. STRIPING WORK SHALL BE REVIEWED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

HANDICAP STRIPING

PAVEMENT STRIPING

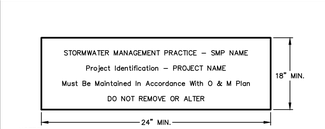
SCALE: NTS



NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.
5. HAY BALES TO BE USED WHERE STOCKPILES ARE LOCATED ON PAVED AREAS.

TEMPORARY STOCKPILE

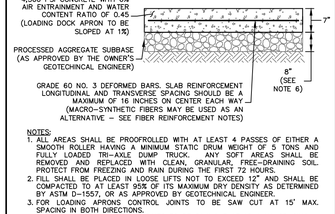
SCALE: NTS



NOTES:
1. SIGNS SHALL BE ERECTED OR POSTED IN THE IMMEDIATE VICINITY OF THE STORMWATER MANAGEMENT PRACTICE. SIGN SHALL BE CONSPICUOUS AND LEGIBLE.
2. SIGNS SHALL BE MOUNTED TO A U-CHANNEL OR ONTO A PERIMETER FENCE IF PROVIDED.

STORMWATER MANAGEMENT PRACTICE SIGN

SCALE: NTS

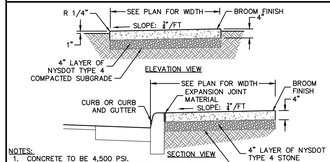


NOTES:
1. ALL AREAS SHALL BE PROOFROLLED WITH AT LEAST 4 PASSES OF EITHER A SMOOTH ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 5 TONS AND A FULLY LOADED TRI-AXLE DUMP TRUCK. ANY SOFT AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR, FREE-DRAINING SOIL. PROTECT FROM FREEZING AND RAIN DURING THE FIRST 72 HOURS.
2. FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 12" AND SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557, OR AS APPROVED BY GEOTECHNICAL ENGINEER.
3. FOR LOADING APRONS CONTROL JOINTS TO BE SAW CUT AT 15' MAX. SPACING IN BOTH DIRECTIONS.
4. FOR DOLLY STRIPS CONTROL JOINTS TO BE SAW CUT AT 15' MAX. SPACING.
5. PAVEMENT SUBGRADE PREPARATION WORK SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER. ISOLATED AREAS THAT EXHIBIT UNSUITABLE CONDITIONS SHALL BE OVER-EXCAVATED TO A DEPTH AS DETERMINED BY THE GEOTECHNICAL ENGINEER AND IMMEDIATELY REPLACED WITH APPROVED COMPACTED FILL OR CRUSHED STONE.
6. THE SUBBASE THICKNESS CAN BE REDUCED TO 6 INCHES IN AREAS UNDERLAIN BY BEDROCK. OTHERWISE USE 8 INCHES OF SUBBASE MATERIAL.
7. SMOOTH 1"X13" ROUND DOWELS SHALL BE SPACED 12" APART AT ALL CONSTRUCTION JOINTS.
8. SUBBASE MATERIAL MAY BE GENERATED FROM ON-SITE CRUSHING OF BEDROCK THAT MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

FIBER REINFORCEMENT NOTES:
- FIBERS SHOULD BE MACRO-SYNTHETIC.
- FIBERS SHOULD BE OBTAINED FROM ONE OF THE FOLLOWING SUPPLIERS:
  - TUF-STRAND SF BY EUCLID CHEMICAL COMPANY
  - CL-95 MACRO FIBER BY PNA CONSTRUCTION TECHNOLOGIES, INC.
  - FORTA-FERRO BY FORTA CORPORATION
- RECOMMENDATIONS FOR THE DOSAGE RATE, WATER-CEMENT RATIO, AND THE USE OF CHEMICAL ADMIXTURES SUCH AS WATER-REDUCERS AND SUPER PLASTICIZERS SHOULD COME FROM MANUFACTURER.
- FIBERS SHOULD NOT BE MIXED AT THE SITE.

LOADING DOCK APRON & DOLLY STRIP

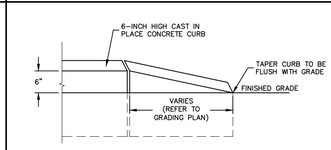
SCALE: NTS



NOTES:
1. CONCRETE TO BE 4,500 PSI.
2. 6% AIR-ENTRAINED, WITH A MEDIUM BROOM FINISH.
3. EXPANSION JOINTS TO BE INSTALLED @ 20'-0" INTERVALS
4. 1" TOOLED JOINTS @ 5'-0" INTERVALS.
5. EXTERIOR CONCRETE SHALL HAVE A WATER CONTENT RATIO OF 0.45 AND 6% AIR ENTRAINMENT.
6. CONTROL JOINTS SHALL BE SPACES MAXIMUM 15 FEET APART IN BOTH DIRECTIONS.

CONCRETE SIDEWALK

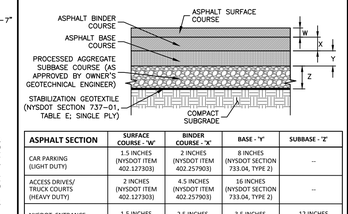
SCALE: NTS



NOTE:
SEE 6-INCH CONCRETE CURB DETAIL FOR ADDITIONAL INFORMATION.

CURB TERMINATION

SCALE: NTS

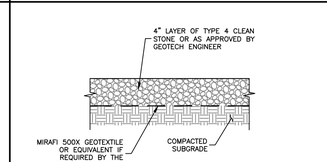


ASPHALT SECTION	SURFACE COURSE - 'W'	BINDER COURSE - 'X'	BASE - 'Y'	SUBBASE - 'Z'
CAR PARKING (LIGHT DUTY)	1.5 INCHES (NYSDOT ITEM 402.127303)	2 INCHES (NYSDOT ITEM 402.257903)	8 INCHES (NYSDOT SECTION 733.04, TYPE 2)	--
ACCESS DRIVES/ TRUCK COURTS (HEAVY DUTY)	2 INCHES (NYSDOT ITEM 402.127303)	4.5 INCHES (NYSDOT ITEM 402.257903)	16 INCHES (NYSDOT SECTION 733.04, TYPE 2)	--
NYSDOT ENTRANCE (SEE NOTE 1)	1.5 INCHES (NYSDOT TYPE 6F)	2.5 INCHES (NYSDOT TYPE 3)	3.5 INCHES (NYSDOT TYPE 1)	12 INCHES (NYSDOT TYPE 4)

NOTES:
1. NYSDOT PAVEMENT SECTION TO BE USED FOR PAVEMENT WITHIN THE NYS ROUTE 17K RIGHT-OF-WAY.
2. PRIOR TO PLACEMENT OF SUBBASE, THE SUBGRADE SHALL BE PROOF ROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION. SOFT OR UNSTABLE AREAS SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
3. PRIOR TO ANY PAVING ACTIVITIES, THE SUBBASE SHALL BE PROOF ROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION. SOFT OR UNSTABLE AREAS SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
4. PAVING BASE COURSE SHALL BE CONSTRUCTED IN LAYERS NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES THICK PER LIFT.
5. ALL AREAS TO BE PAVED SHALL BE PROOFROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION, WITH AT LEAST 4 PASSES OF EITHER A SMOOTH ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 5-TONS OR A FULLY LOADED TANDEM DUMP TRUCK. ANY SOFT AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR, FREE-DRAINING SOIL. FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 12-INCHES AND SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
6. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
7. ALL ASPHALT TO BE PLACED IN ACCORDANCE WITH NYSDOT REQUIREMENTS.

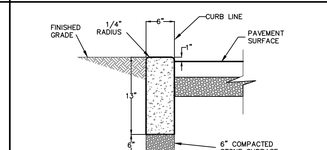
SITE ASPHALT PAVEMENT SECTION

SCALE: NTS



MAINTENANCE ACCESS PATH

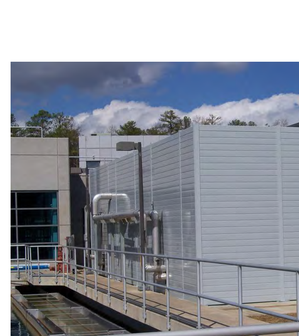
SCALE: NTS



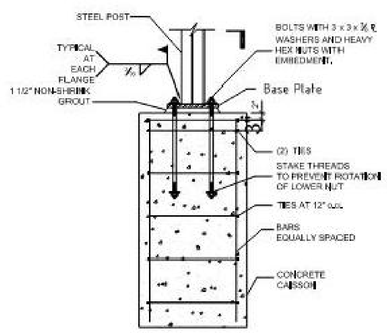
NOTES:
1. CONCRETE SHALL BE 4,500 PSI CLASS 'B' AIR-ENTRAINED CONCRETE.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
3. ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

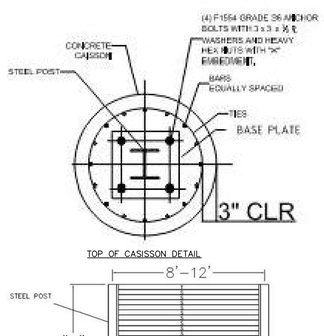
DEPRESSED CURB

SCALE: NTS



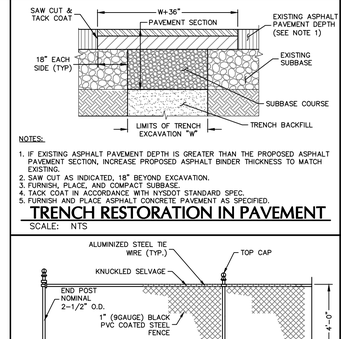
SOUND WALL REFERENCE IMAGE





NOTES:
1. SOUND WALL SHALL BE AN ART VINYL SILENT PROTECTOR SOUND WALL AS MANUFACTURED BY ARTUSA SOUNDWALLS OR APPROVED EQUAL.
2. REFER TO SITE PLAN FOR WALL LOCATIONS, LENGTH, AND HEIGHT.

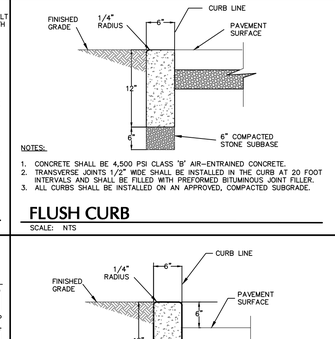
SOUND WALL



NOTES:
1. IF EXISTING ASPHALT PAVEMENT DEPTH IS GREATER THAN THE PROPOSED ASPHALT PAVEMENT SECTION, INCREASE PROPOSED ASPHALT BINDER THICKNESS TO MATCH EXISTING.
2. SAW CUT AS INDICATED, 18" BEYOND EXCAVATION.
3. FURNISH, PLACE, AND COMPACT SUBBASE.
4. TACK COAT IN ACCORDANCE WITH NYSDOT STANDARD SPEC.
5. FURNISH AND PLACE ASPHALT CONCRETE PAVEMENT AS SPECIFIED.

TRENCH RESTORATION IN PAVEMENT

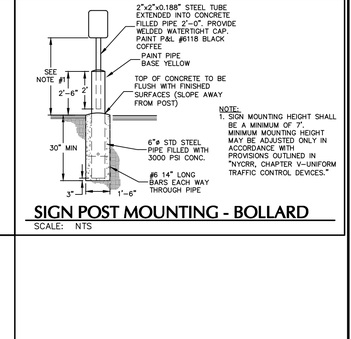
SCALE: NTS



NOTES:
1. CONCRETE SHALL BE 4,500 PSI CLASS 'B' AIR-ENTRAINED CONCRETE.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
3. ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

FLUSH CURB

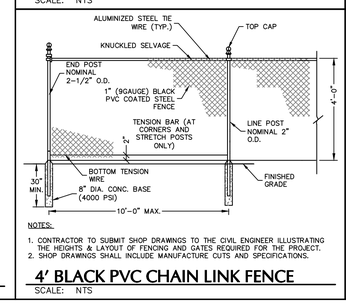
SCALE: NTS



NOTE:
1. SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7' MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN "NYCRR, CHAPTER V–UNIFORM TRAFFIC CONTROL DEVICES."

SIGN POST MOUNTING - BOLLARD

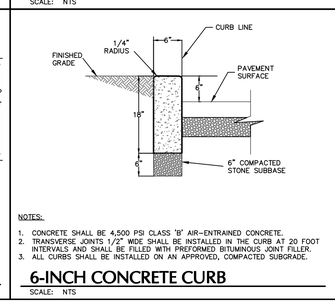
SCALE: NTS



NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE CIVIL ENGINEER ILLUSTRATING THE HEIGHTS & LAYOUT OF FENCING AND GATES REQUIRED FOR THE PROJECT.
2. SHOP DRAWINGS SHALL INCLUDE MANUFACTURE CUTS AND SPECIFICATIONS.

4' BLACK PVC CHAIN LINK FENCE

SCALE: NTS



NOTES:
1. CONCRETE SHALL BE 4,500 PSI CLASS 'B' AIR-ENTRAINED CONCRETE.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
3. ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

6-INCH CONCRETE CURB

SCALE: NTS

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

02/07/22	ADDED DETAILS	3
01/07/22	REVISED SUBMISSION	2
11/29/21	PLANNING BOARD SUBMISSION	1
Date	Description	No.

REVISIONS

STATE OF NEW YORK – CHARLES URSCHIG – 062303 – LICENSED PROFESSIONAL ENGINEER

SIGNATURE 2/7/2022 DATE SIGNED

CHARLES URSCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

LANGAN
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Project: NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title: DETAILS (1 OF 3)

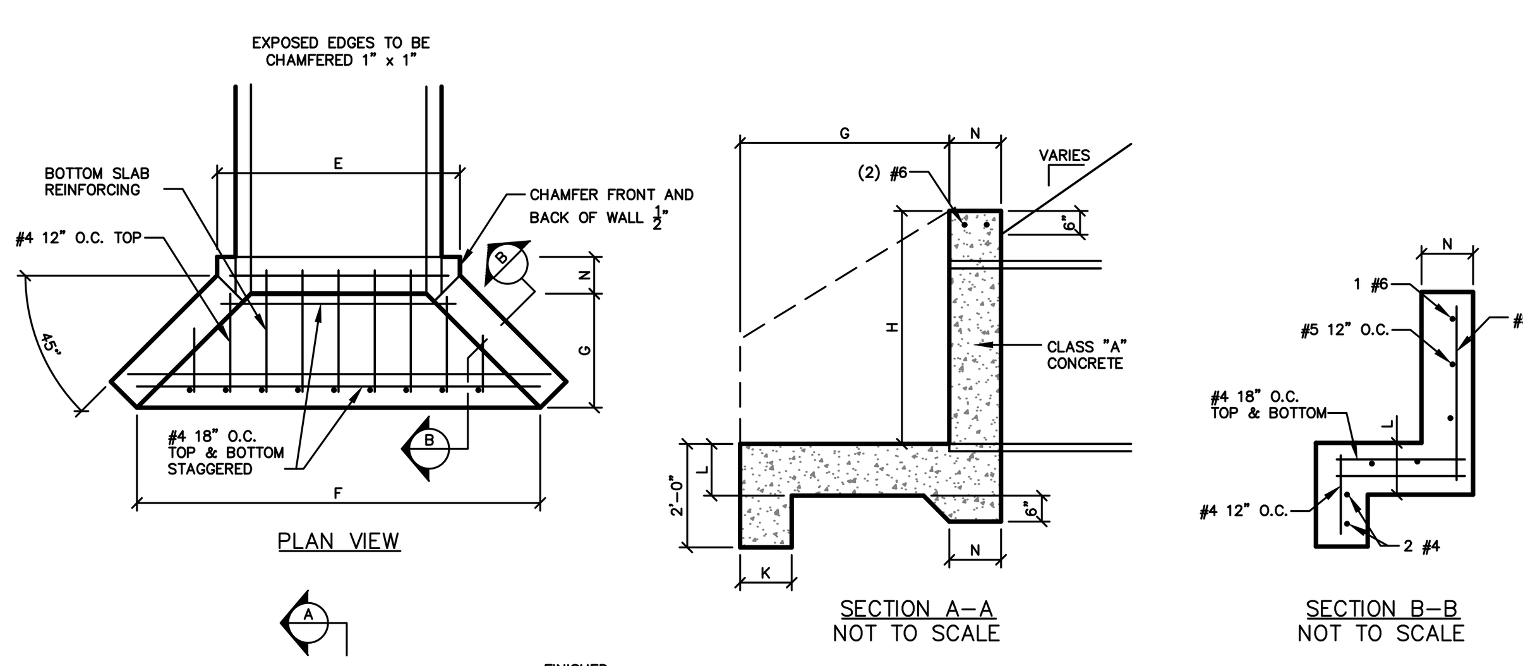
Project No. 190071901
Date NOVEMBER 29, 2021
Drawn By JN
Checked By CZ

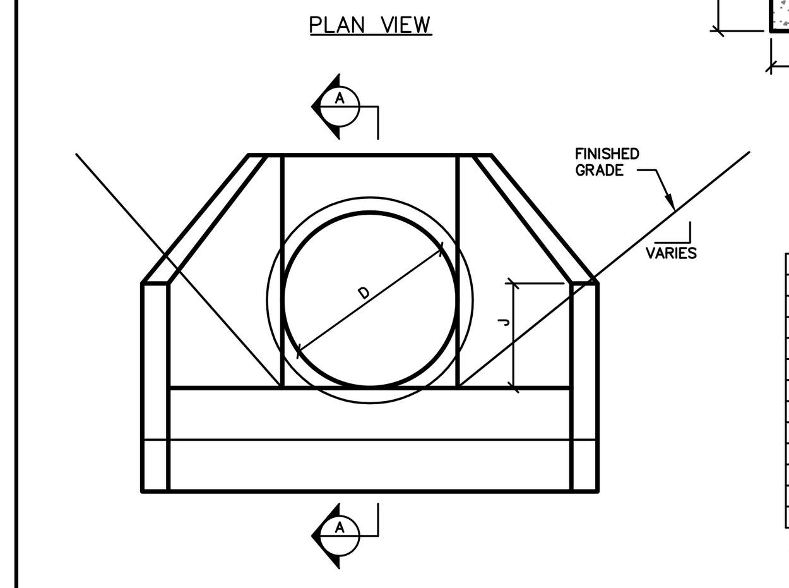
Drawing No. CS501
Sheet 9 of 15

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CS501-0101.dwg Date: 2/7/2022 Time: 12:02 User: ldn Style Table: Langan.stb Layout: CS501

LANGAN

PROJECT NO. 190071901



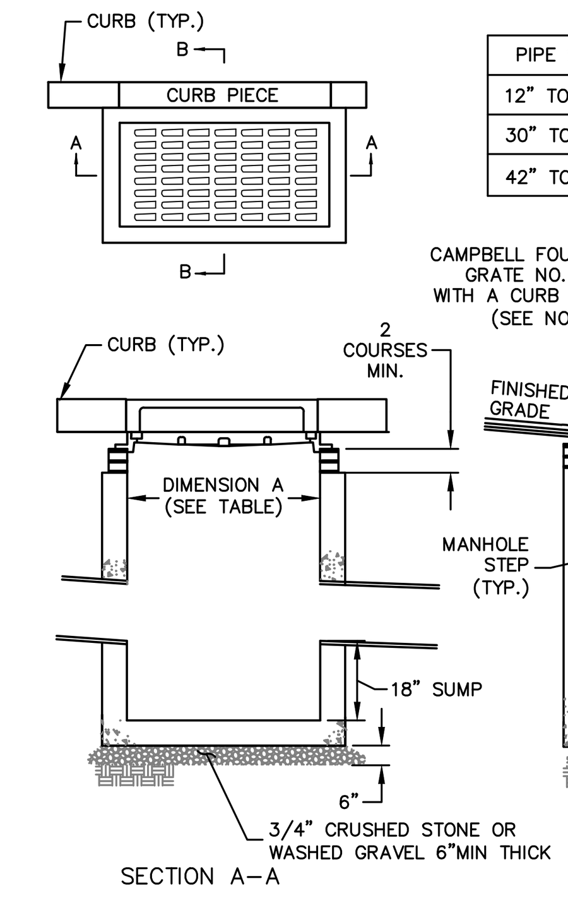


NOTES:
1. HEAD WALLS MAY BE PRECAST OR CAST IN PLACE PER SITE REQUIREMENTS.
2. PROVIDE 6" MINIMUM THICK 3/4" WASHED STONE OR CRUSHED GRAVEL UNDER HEADWALLS AND WING WALLS.
3. f'c = 4,000 PSI

D	E	F	G	H	J	K	L	N	R	Δ VOL. C.Y.
18"	3'-0"	7'-6"	3'-0"	3'-0"	2'-0"	8"	8"	8	#5 @ 12" O.C.	1.70
21"	3'-4"	7'-9"	3'-0"	3'-3"	2'-0"	8"	8"	8	#5 @ 12" O.C.	1.80
24"	3'-8"	8'-0"	3'-0"	3'-6"	2'-0"	8"	8"	8	#5 @ 12" O.C.	1.90
27"	3'-11"	8'-3"	3'-6"	3'-9"	2'-0"	8"	8"	8	#5 @ 12" O.C.	2.00
30"	4'-2"	8'-6"	3'-0"	4'-0"	2'-1"	8"	8"	10"	#5 @ 12" O.C.	2.85
36"	4'-8"	10'-0"	3'-6"	4'-6"	2'-3"	8"	10"	10"	#5 @ 12" O.C.	3.15
42"	5'-3"	11'-6"	4'-0"	5'-0"	2'-9"	8"	10"	10"	#5 @ 12" O.C.	3.87
48"	5'-10"	13'-0"	4'-6"	5'-6"	3'-0"	8"	10"	12"	#5 @ 12" O.C.	5.08
54"	6'-5"	14'-6"	5'-0"	6'-0"	3'-3"	9"	12"	12"	#6 @ 8" O.C.	6.50
60"	7'-0"	16'-0"	5'-6"	6'-6"	3'-6"	9"	12"	12"	#6 @ 8" O.C.	7.98
66"	7'-7"	17'-6"	6'-0"	6'-0"	3'-9"	9"	12"	14"	#6 @ 8" O.C.	9.14
72"	8'-2"	19'-6"	6'-6"	6'-6"	4'-3"	9"	12"	14"	#6 @ 8" O.C.	11.10

Δ BASED ON 2:1 CHANNEL SIDE SLOPES

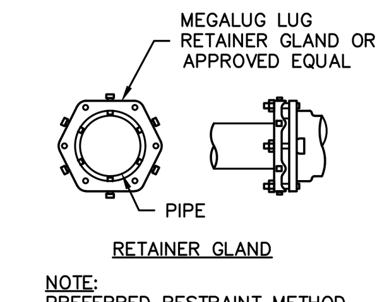
CONCRETE HEADWALL
SCALE: NTS



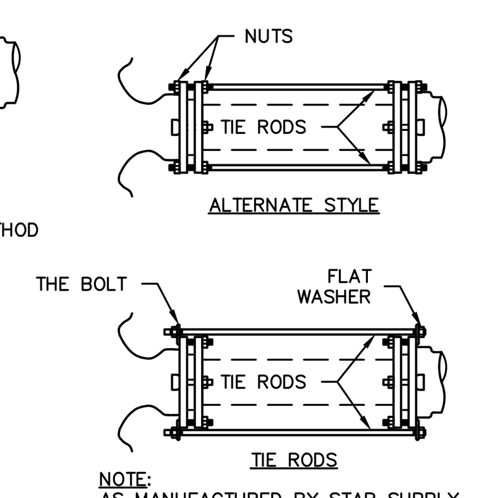
PIPE SIZE	DIM. A	DIM. B
12" TO 24"	4'-0"	2'-6"
30" TO 36"	4'-0"	4'-0"
42" TO 48"	5'-0"	5'-0"

NOTES:
1. THE CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR EACH STRUCTURE FOR THE ENGINEERS APPROVAL PRIOR TO FABRICATION.
2. STRUCTURE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C913 LATEST REVISION.
3. STEPS NOT REQUIRED FOR STRUCTURES LESS THAN 4' DEEP.

CATCH BASIN
SCALE: NTS



NOTE:
PREFERRED RESTRAINT METHOD

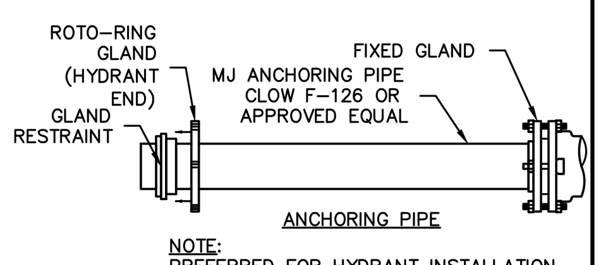


NOTE:
AS MANUFACTURED BY STAR SUPPLY CORP OR APP EQUAL, HIGH-STRENGTH CORTEN

NO. OF TIE RODS REQ'D

PIPE SIZE INCHES	MIN NO. OF 3/4 "RODS
2	2[1]
3	2[1]
4	2
6	2
8	2
10	2
12	2
14	4
16	4
18	6
20	6
24	8
30	14(8)[2]
36	18(12)[2]

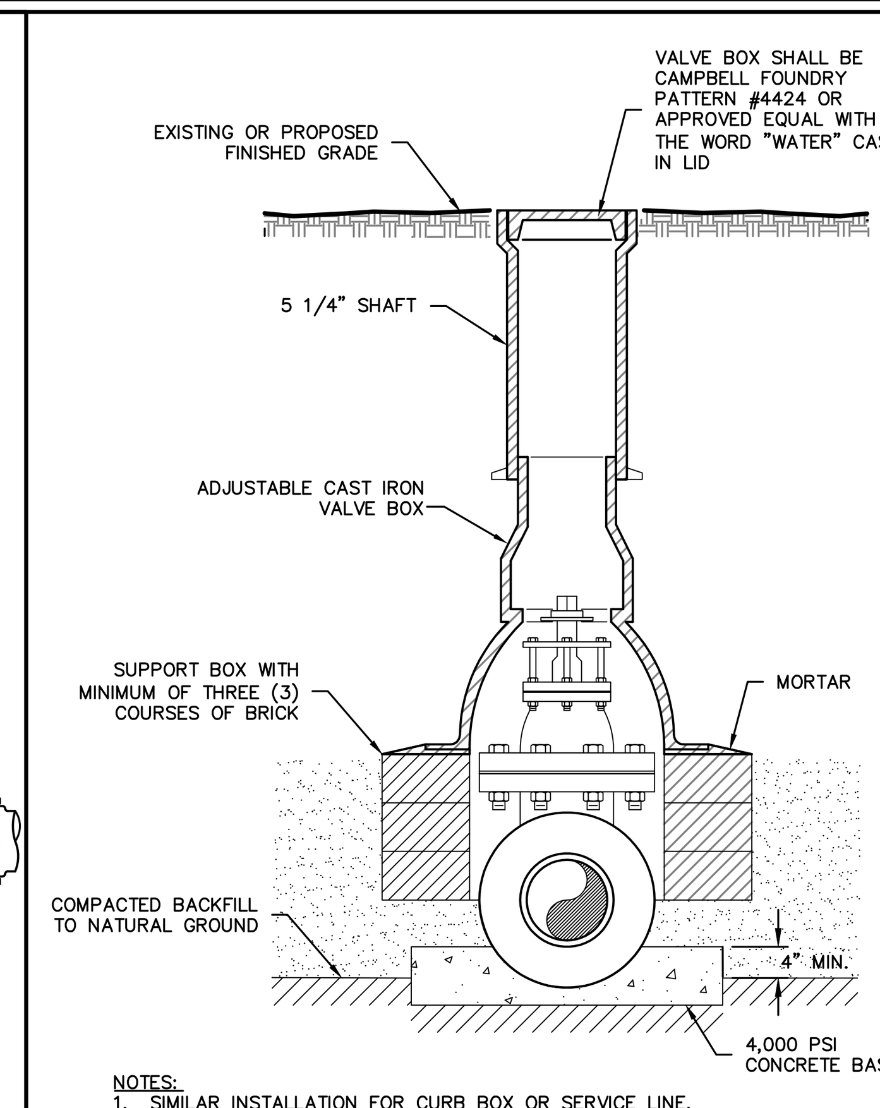
NOTES:
1. APPLIES TO 5/8" RODS AS WELL.
2. MIN NO. OF 1" RODS.



NOTE:
PREFERRED FOR HYDRANT INSTALLATION

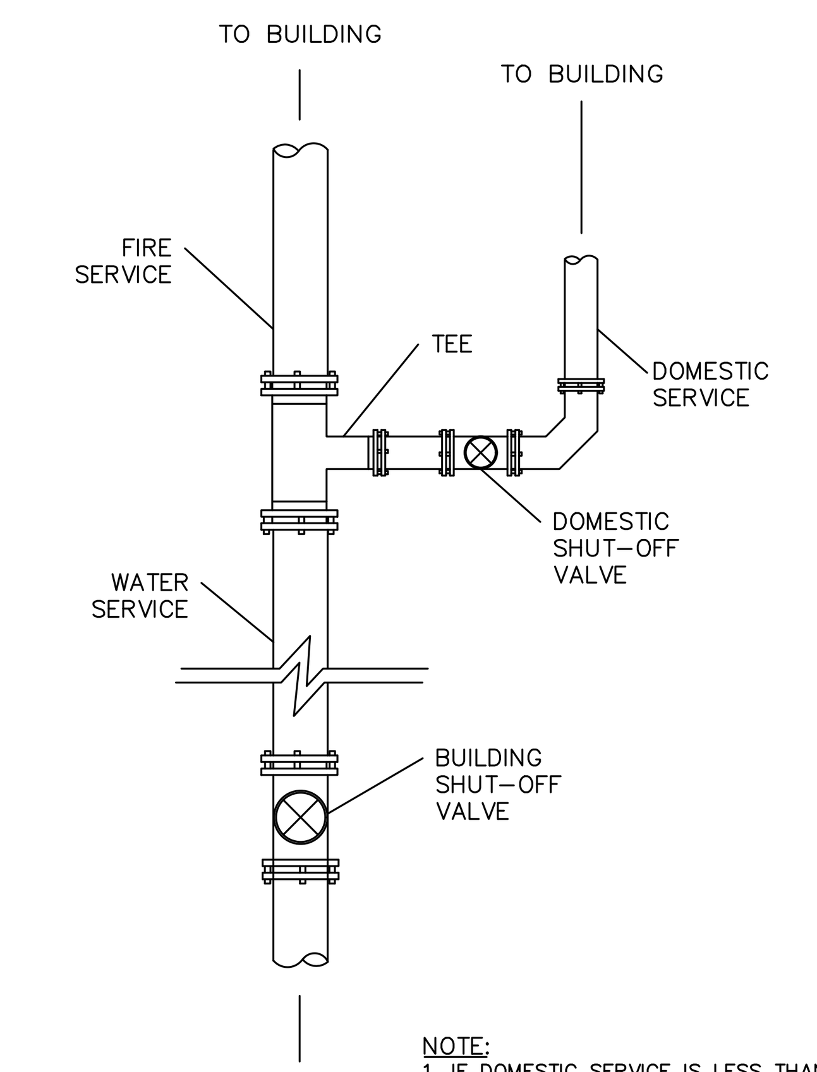
NOTE:
1. TIE RODS MAY BE USED IN CONJUNCTION WITH MEGALUG GLANDS AS AN OPTION.

THRUST RESTRAINTS
SCALE: NTS



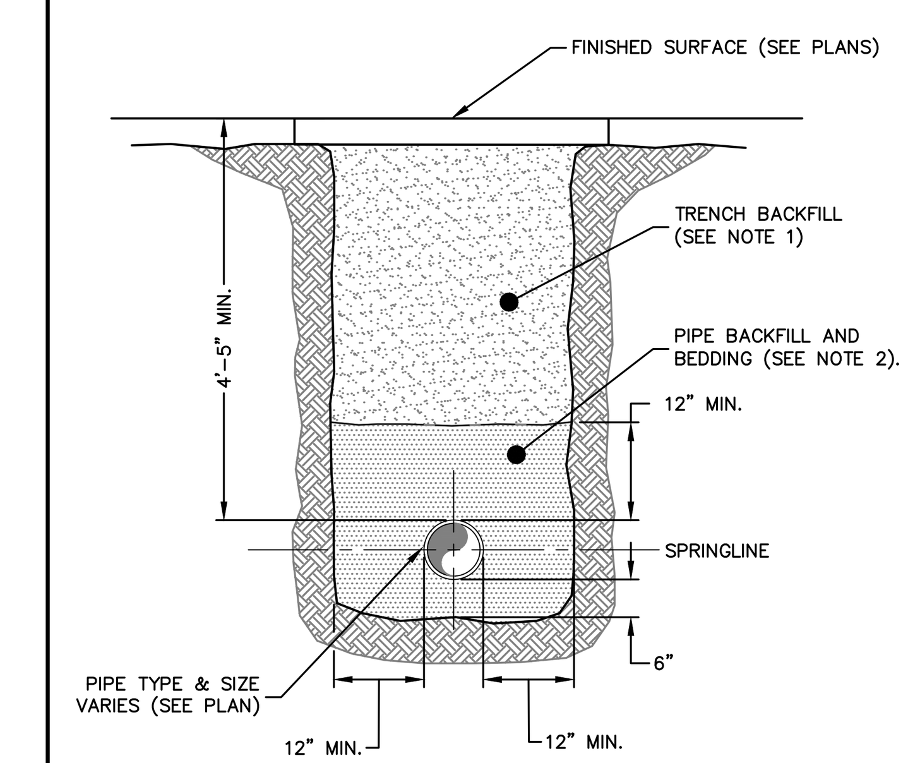
NOTES:
1. SIMILAR INSTALLATION FOR CURB BOX OR SERVICE LINE.
2. REFER TO PLAN FOR SIZE AND LOCATION.
3. VALVES TO BE MUELLER.

VALVE BOX
SCALE: NTS



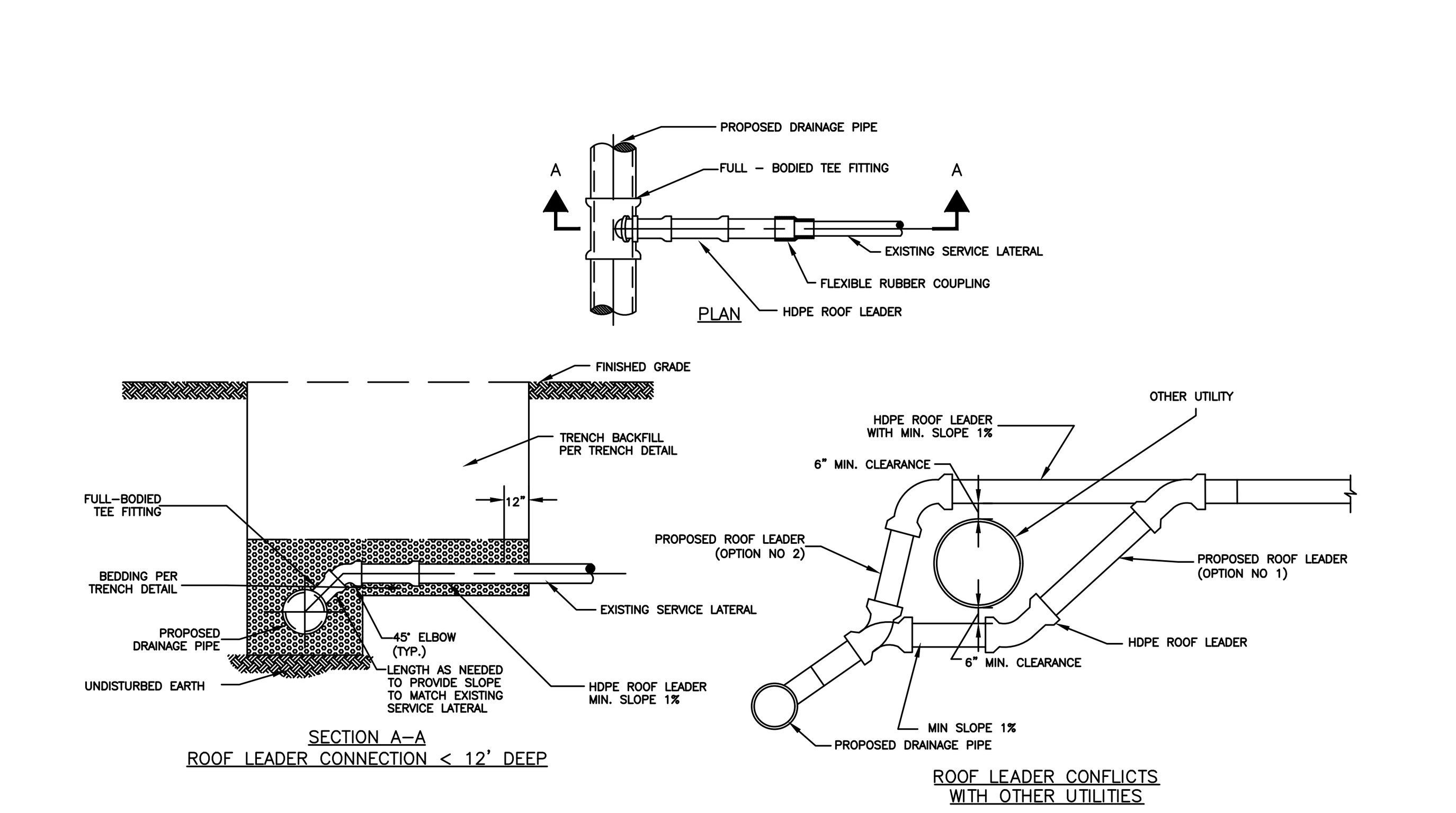
NOTE:
1. IF DOMESTIC SERVICE IS LESS THAN 2", USE COPPER TUBING TYPE "K". SEE WATER SERVICE TAP DEATAIL.

FIRE/POTABLE WATER SERVICE
SCALE: NTS

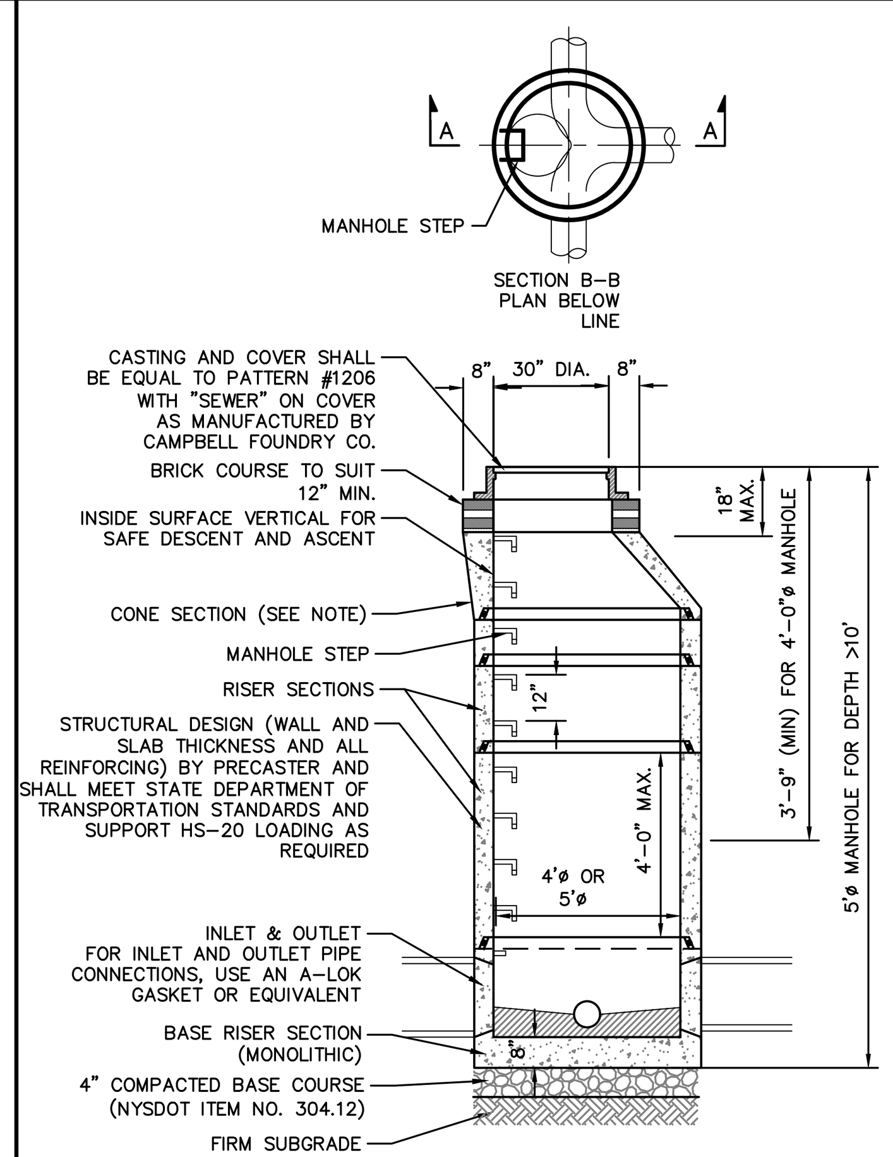


NOTES:
1. PREDOMINATELY GRANULAR FILL MATERIAL. OR ON SITE MATERIAL HAVING A MAX. PARTICLE SIZE 4". COMPACT IN MAX. 8" LOOSE LIFTS TO 95% (98% IN PAVEMENT) MODIFIED PROCTOR DENSITY.
2. MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES. MAX. PARTICLE SIZE 3/4".
3. WHEN IN LEDGE, USE AASHTO NO. 67 OR EQUAL PROCESSED SAND AND GRAVEL FREE OF DEBRIS, CLAY LUMPS, ORGANIC, OR OTHER DELETERIOUS MATERIAL. COMPACT TO THE SPRINGLINE.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

SEWER PIPE TRENCH
SCALE: NTS

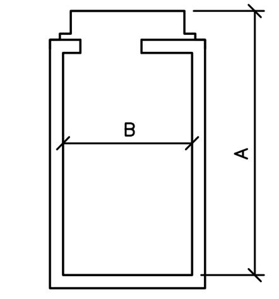


ROOF LEADER CONNECTION
SCALE: NTS

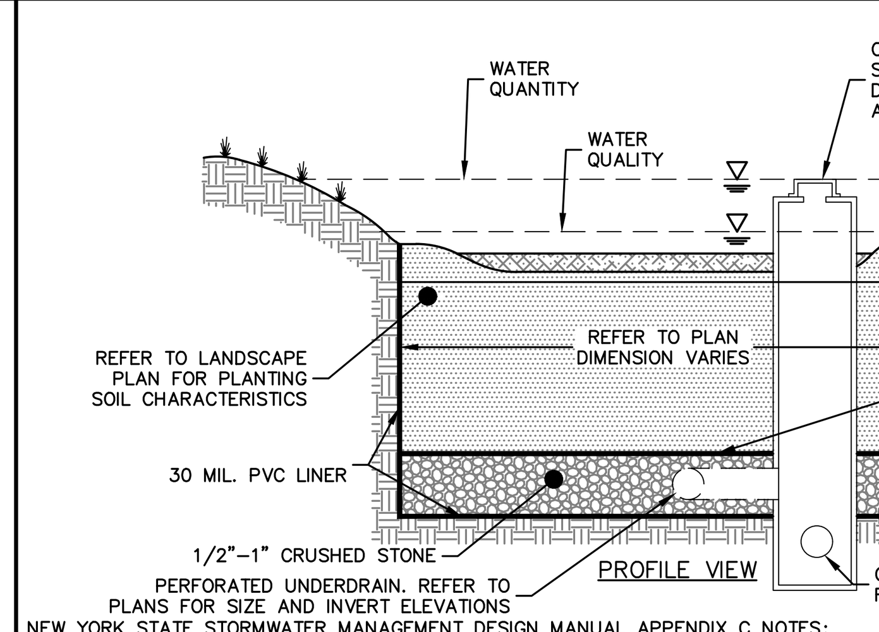


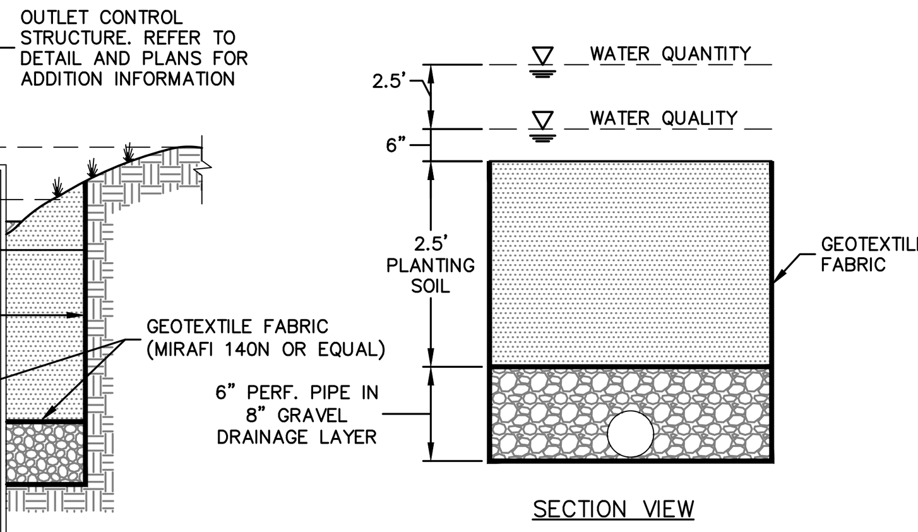
SANITARY MANHOLE NOTES
1. THE DEPTH OF THE INVERT CHANNEL SHALL BE EQUAL TO 3/4 OF THE DIAMETER OF THE SEWER.
2. THE SHELF SHALL SLOPE TOWARD THE INVERT CHANNEL AT A RATE OF 1" PER FOOT.
3. TYPE "B" MANHOLES (SHALLOW TYPE) TO BE PROVIDED WHERE REQUIRED BY DEPTH CONDITIONS.
4. SEE THE SPECIFICATIONS FOR LENGTH OF PIPE CONNECTIONS TO MANHOLE.
5. ALL CONCRETE SHALL BE 4000 PSI MINIMUM.
6. ENTIRE OUTSIDE SURFACE OF MANHOLE SHALL RECEIVE TWO COATS OF BITUMINOUS COATING. KOPPERS 300M PENNOXY TAR 32-8-4, OR APPROVED EQUAL.
7. INSTALL 2 LAYERS OF PLASTIC PREFORMED JOINT SEALANT BETWEEN ALL SECTIONS & UNDER FRAME.
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR MANHOLE IN ACCORDANCE WITH SPECIFICATIONS.
9. 4' DIA. MANHOLE - FROM 8" TO 30" PIPES
10. UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE LETTERS "SEWER", CAST ON THE COVERS.
11. THE PRECAST CONCRETE STRUCTURE SHALL COMPLY WITH ASTM SPECIFICATIONS C478.
12. ALL SANITARY SEWER MANHOLES ARE TO BE CONSTRUCTED WITH THE COMPRESSION TYPE RESILIENT SEAL ASSEMBLY EQUAL TO "OMEGA CONCRETE PRODUCTS INC.".
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK, AS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER, AT NO ADDITIONAL COST.
14. ALL NECESSARY PATCHING SHALL BE ACCOMPLISHED WITH A NON-SHRINK CEMENT MORTAR GROUT EQUAL TO "SIKA-SET" AS MANUFACTURED BY THE SIKA CHEMICAL CORPORATION.

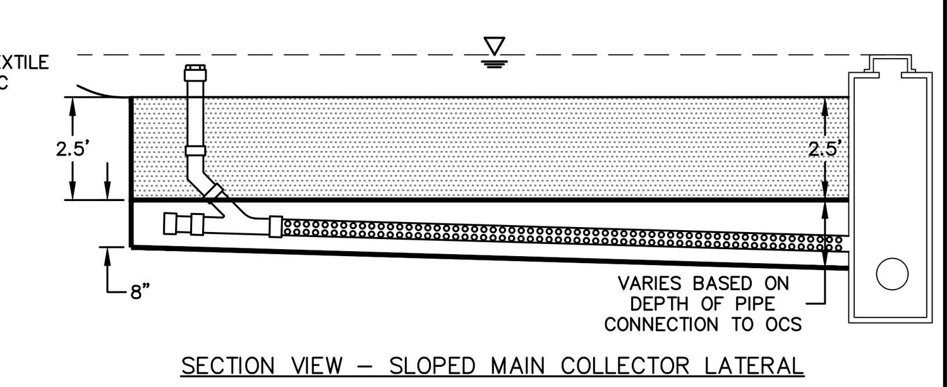
DEPTH 'A'	WIDTH 'B'
< 10'-0"	4'-0"ø
> 10'-0"	5'-0"ø

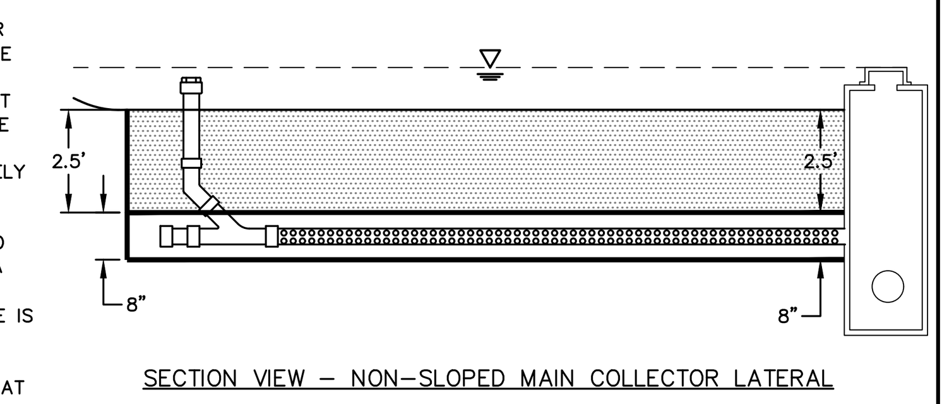


SANITARY MANHOLE
SCALE: NTS







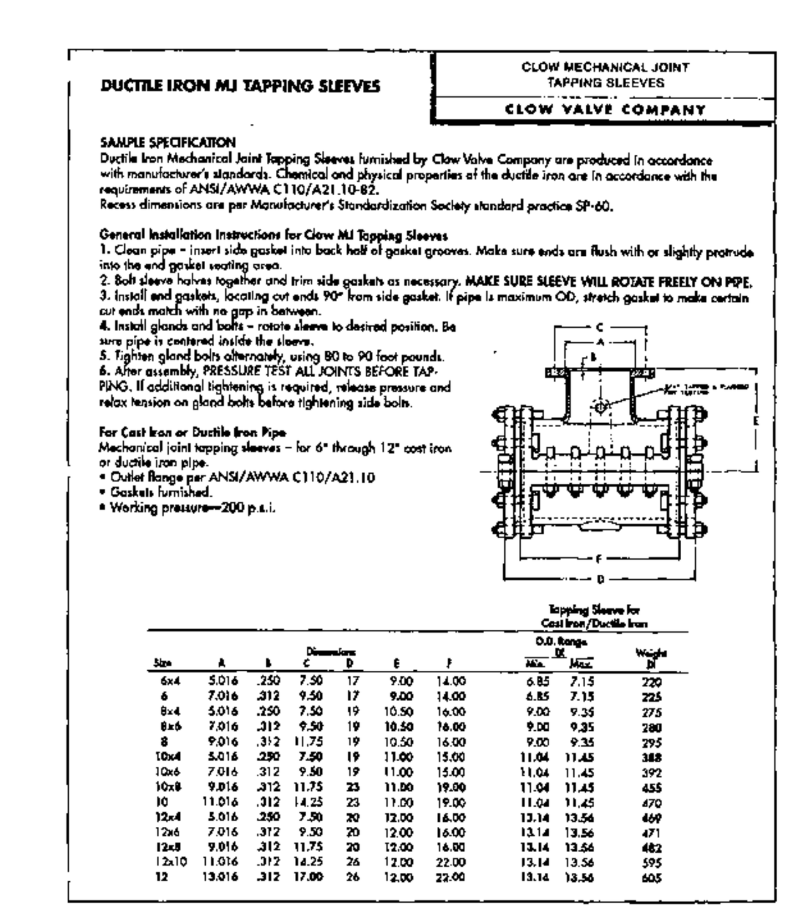


NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL APPENDIX C NOTES:
1. ALL BIORETENTION AREAS SHALL HAVE A MINIMUM OF ONE TEST. EACH TEST SHALL CONSIST OF BOTH THE STANDARD SOIL TEST FOR pH, PHOSPHORUS, AND POTASSIUM AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE STOCKPILED TOPSOIL. IF TOPSOIL IS IMPORTED, THEN A TEXTURE ANALYSIS SHALL BE PERFORMED FOR EACH LOCATION WHERE THE TOP SOIL WAS EXCAVATED.
2. SINCE DIFFERENT LABS CALIBRATE THEIR TESTING EQUIPMENT DIFFERENTLY, ALL TESTING RESULTS SHALL COME FROM THE SAME TESTING FACILITY.
3. SHOULD THE pH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR.
4. IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF BIORETENTION AREAS ARE EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TYPE TIRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION RATES AND STORAGE VOLUMES AND IS NOT ACCEPTABLE. COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO DESIGN FAILURE.
5. COMPACTION CAN BE ALLEVIATED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE TO REFRACTURE THE SOIL PROFILE THROUGH THE 12 INCH COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTIONS FROM HEAVY EQUIPMENT.
6. ROTOTILL 2 TO 3 INCHES OF SAND INTO THE BASE OF THE BIORETENTION FACILITY BEFORE BACKFILLING THE REQUIRED SAND LAYER. PUMP ANY PONDED WATER BEFORE PREPARING (ROTOTILLING) BASE.
7. WHEN BACKFILLING THE TOPSOIL OVER THE SAND LAYER, FIRST PLACE 3 TO 4 INCHES OF TOPSOIL OVER THE SAND, THEN ROTOTILL THE SAND/TOPSOIL TO CREATE A GRADATION ZONE. BACKFILL THE REMAINDER OF THE TOPSOIL TO FINAL GRADE.
8. WHEN BACKFILLING THE BIORETENTION FACILITY, PLACE SOIL IN LIFTS 12" OR GREATER. DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETENTION BASIN.. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE BIORETENTION MATERIALS BY HAND OR WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.
9. MULCH AROUND INDIVIDUAL PLANTS ONLY. SHREDDED HARDWOOD MULCH IS THE ONLY ACCEPTED MULCH. PINE MULCH AND WOOD CHIPS WILL FLOAT AND MOVE TO THE PERIMETER OF THE BIORETENTION AREA DURING A STORM EVENT AND ARE NOT ACCEPTABLE. SHREDDED MULCH MUST BE WELL AGED (6 TO 12 MONTHS) FOR ACCEPTANCE.
10. THE PLANT ROOT BALL SHOULD BE PLANTED SO 1/8TH OF THE BALL IS ABOVE FINAL GRADE SURFACE.
11. ROOT STOCK OF THE PLANT MATERIAL SHALL BE KEPT MOIST DURING TRANSPORT AND ON-SITE STORAGE. THE DIAMETER OF THE PLANTING PIT SHALL BE AT LEAST SIX INCHES LARGER THAN THE DIAMETER OF THE PLANTING BALL. SET AND MAINTAIN THE PLANT STRAIGHT DURING THE ENTIRE PLANTING PROCESS. THOROUGHLY WATER GROUND BED COVER AFTER INSTALLATION.
12. TREES SHALL BE BRACED USING 2" X 2" STAKES ONLY AS NECESSARY AND FOR THE FIRST GROWING SEASON ONLY. STAKES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TREE BALL.
13. GRASSES AND LEGUME SEED SHALL BE TILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE INCH. GRASS AND LEGUME PLUGS SHALL BE PLANTED FOLLOWING THE NON-GRASS GROUND COVER PLANTING SPECIFICATIONS.
14. THE TOPSOIL SPECIFICATIONS PROVIDE ENOUGH ORGANIC MATERIAL TO ADEQUATELY SUPPLY NUTRIENTS FROM NATURAL CYCLING. THE PRIMARY FUNCTION OF THE BIORETENTION STRUCTURE IS TO IMPROVE WATER QUALITY. ADDING FERTILIZERS DEFEATS, OR AT A MINIMUM, IMPEDED THIS GOAL. ONLY ADD FERTILIZER IF WOOD CHIPS OR MULCH IS USED TO AMEND THE SOIL. ROTOTILL UREA FERTILIZER AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET.
15. UNDER DRAINS TO BE PLACED ON A 3'-0" WIDE SECTION OF FILTER CLOTH. PIPE IS PLACED NEXT, FOLLOWED BY THE GRAVEL BEDDING. THE ENDS OF UNDERDRAIN PIPES NOT TERMINATING IN AN OBSERVATION WELL SHALL BE CAPPED.
16. THE MAIN COLLECTOR PIPE FOR UNDERDRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIMUM SLOPE 0.5%. OBSERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MINIMUM PER EVERY 1000 SQUARE FEET OF SURFACE AREA).
17. THE BIORETENTION FACILITY MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

BIORETENTION AREA MANAGEMENT:
1. ANNUAL INSPECTION AND REPAIR OF OR REPLACEMENT OF TREATMENT COMPONENTS.
2. TWICE PER YEAR (SPRING AND FALL) INSPECT TREES AND SHRUBS TO EVALUATE HEALTH, REMOVE AND REPLACE DEAD OR DYING PLANTS, AND PRUNE DISEASED OR BROKEN PLANTS.
3. WEED ANNUALLY AND PRUNE SHRUB VEGETATION UNTIL VEGETATION IS ESTABLISHED TO IMPROVE APPEARANCE.
4. REPLACE MULCH TO COVER EXPOSED SOIL AREA. REMOVE AND REPLACE MULCH EVERY TWO TO THREE YEARS. MULCH DEPTH NOT TO EXCEED 3-INCHES.
5. SAMPLE SOIL FOR FERTILITY EVERY THREE YEARS. ADDITION OF LIMESTONE ONE OR TWO TIMES PER YEAR TO MAINTAIN PROPER PH IS RECOMMENDED. FIELD OR LABORATORY TESTING FOR PH IS ACCEPTABLE.
6. CHECK BASIN FOR SEDIMENT BUILD UP AND REMOVE SEDIMENT IF GREATER THAN ONE INCH.
7. CHECK BASIN AFTER STORM EVENT TO ENSURE THAT IT DEWATERS PROPERLY (DRAINS WITHIN 48-HOURS).
8. CHECK OUTLET OVERFLOW FOR EVIDENCE OF BLOCKAGE AND SOIL EROSION AT DISCHARGE POINTS. CLEAN BLOCKAGES AS REQUIRED AND STABILIZE EROSIVE AREAS AS NEEDED.

CONSTRUCTION INSTALLATION:
1. STAKE THE LIMITS AND PROVIDE OFFSETS OF THE PROPOSED BIORETENTION AREA AND SET ACCESSIBLE REFERENCE ELEVATIONS, AS NEEDED.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES CONSISTENT WITH OVERALL DEVELOPMENT E&S PLAN.
3. STABILIZE THE GRADING AROUND THE PROPOSED AREA AND DIVERT RUNOFF AWAY FROM THE PROPOSED EXCAVATIONS.
4. EXCAVATE THE BIORETENTION AREA TO THE PROPOSED LINES AND GRADES SHOWN ON THE SITE PLANS, AND SCARIFY THE EXISTING SOIL SURFACES, TAKING CARE NOT TO COMPACT THE IN-SITU SOILS.
5. INSTALL THE UNDERDRAIN SYSTEM AND OVERFLOW STRUCTURES. INSTALL THE FABRIC ON THE SIDEWALLS AND STAKE IN PLACE.
6. BACKFILL THE EXCAVATIONS WITH THE SOIL MIXTURE AS SHOWN ON THE PLANS AND SPECIFIED HEREIN.
7. FINISH GRADING THE SURFACE OF THE BIORETENTION AREA. LEAVE ROOM FOR 3-INCHES OF SHREDDED HARDWOOD MULCH.
8. PLANT VEGETATION WITHIN THE BIORETENTION AREA AS SPECIFIED IN THE PLANTING NOTES AND LANDSCAPE PLANS.
9. MULCH THE SURFACE WITH NOT MORE THAN 3-INCHES OF SINGLE PASS. REMOVE TEMPORARY SEDIMENT CONTROLS AND ANY ENTRANCE BLOCKS TO THE BIORETENTION AREA AFTER ACCEPTANCE BY THE DESIGN PROFESSIONAL AND THE LOCAL REGULATORY AUTHORITY.
10. BIORETENTION SOIL MEDIA SHALL BE IMPORTED AND NOT MIXED ON SITE. MATERIAL SHALL BE APPROVED BY THE ENGINEER.

BIORETENTION WITH UNDERDRAIN
SCALE: NTS



DUCTILE IRON MJ TAPPING SLEEVES

CLOW MECHANICAL JOINT TAPPING SLEEVES
CLOW VALVE COMPANY

SAMPLE SPECIFICATION
Ductile Iron Mechanical Joint Tapping Sleeves furnished by Clow Valve Company are produced in accordance with manufacturer's standards. Chemical and physical properties of the ductile iron are in accordance with the requirements of ANSI/AWWA C110/A21.10-82.
Recess dimensions are per Manufacturer's Standardization Society standard practice SP-60.

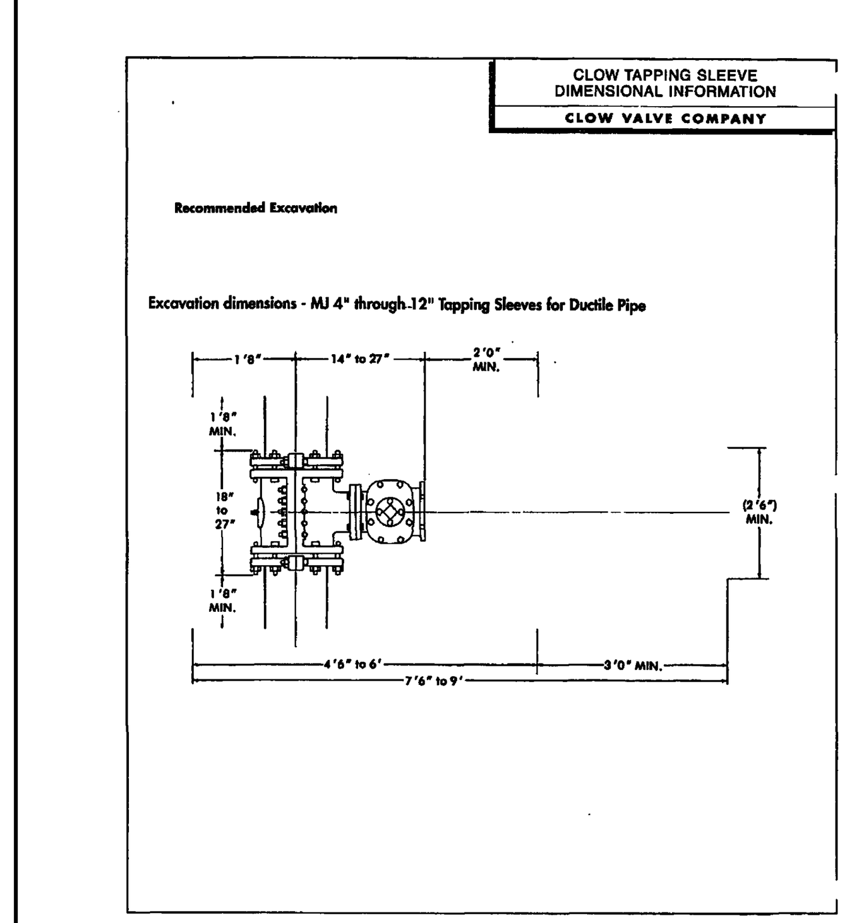
General Installation Instructions for Clow MJ Tapping Sleeves
1. Clean pipe – insert side gasket into back half of gasket grooves. Make sure ends are flush with or slightly protrude into the end gasket seating area.
2. Bolt sleeve halves together and trim side gaskets as necessary. MAKE SURE SLEEVE WILL ROTATE FREELY ON PIPE.
3. Install end gaskets, locating cut ends 90° from side gasket. If pipe is maximum OD, stretch gasket to make certain cut ends match with no gap in between.
4. Install glands and bolts – rotate sleeve to desired position. Be sure pipe is centered inside the sleeve.
5. Tighten gland bolts alternately, using 80 to 90 foot pounds.
6. After assembly, PRESSURE TEST ALL JOINTS BEFORE TAPPING. If additional tightening is required, release pressure and relax tension on gland bolts before tightening side bolts.

For Cast Iron or Ductile Iron Pipe
Mechanical joint tapping sleeves – for 6" through 12" cast iron or ductile iron pipe.
• Outlet flange per ANSI/AWWA C110/A21.10
• Gaskets furnished.
• Working pressure—200 p.s.i.

Tapping Sleeve for Cast Iron/Ductile Iron

Size	A	B	C	D	E	F	O.D. Range Min.	O.D. Range Max.	Weight
6x4	5.016	.250	7.50	17	9.00	14.00	6.85	7.15	220
6	7.016	.312	9.50	17	9.00	14.00	6.85	7.15	225
8x4	5.016	.250	7.50	19	10.50	16.00	9.00	9.35	275
8x6	7.016	.312	9.50	19	10.50	16.00	9.00	9.35	280
8	9.016	.312	11.75	19	10.50	16.00	9.00	9.35	295
10x4	5.016	.250	7.50	19	11.00	15.00	11.04	11.45	388
10x6	7.016	.312	9.50	19	11.00	15.00	11.04	11.45	392
10x8	9.016	.312	11.75	23	11.00	19.00	11.04	11.45	455
10	11.016	.312	14.25	23	11.00	19.00	11.04	11.45	470
12x4	5.016	.250	7.50	20	12.00	16.00	13.14	13.56	469
12x6	7.016	.312	9.50	20	12.00	16.00	13.14	13.56	471
12x8	9.016	.312	11.75	20	12.00	16.00	13.14	13.56	482
12x10	11.016	.312	14.25	26	12.00	22.00	13.14	13.56	595
12	13.016	.312	17.00	26	12.00	22.00	13.14	13.56	605

REFERENCE: TOWN OF NEWBURGH WATER DISTRICT



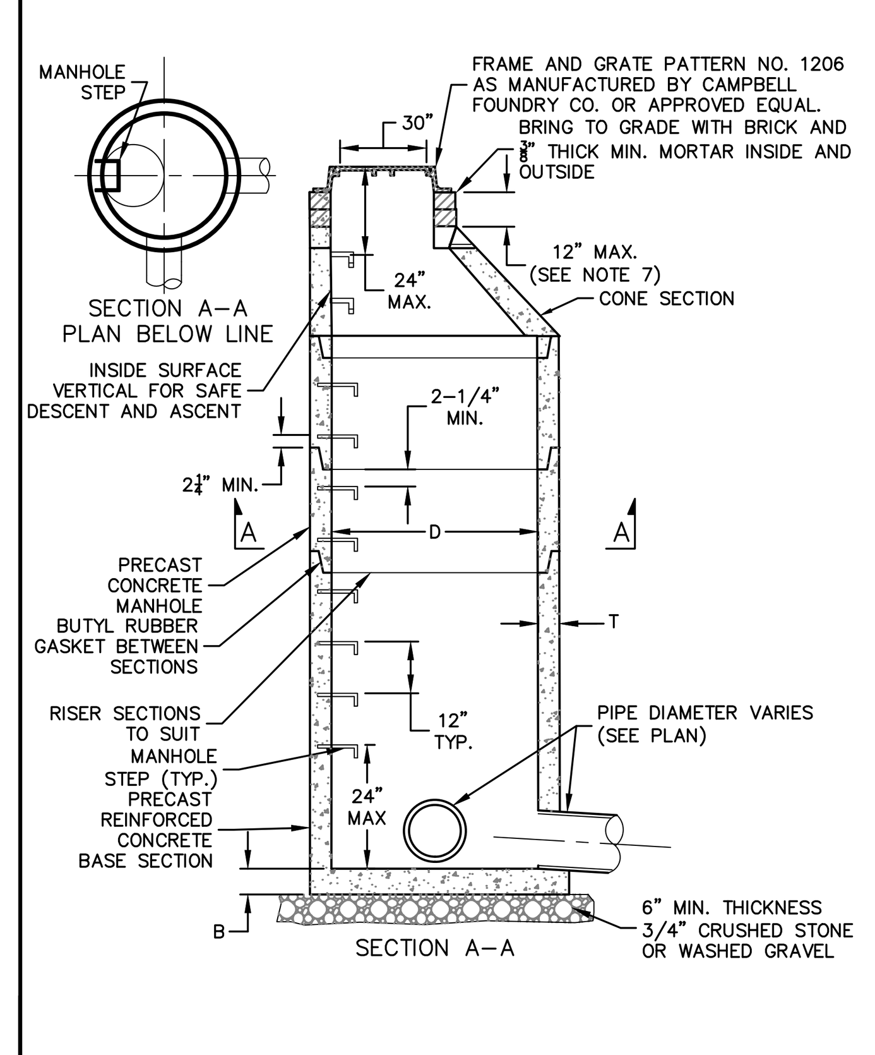
CLOW TAPPING SLEEVE DIMENSIONAL INFORMATION
CLOW VALVE COMPANY

Recommended Excavation

Excavation dimensions - MJ 4" through 12" Tapping Sleeves for Ductile Pipe

1'8" — 14" to 27" — 2'0" MIN.
1'8" MIN.
18" to 27"
(2'6") MIN.
1'8" MIN.
4'6" to 6' — 3'0" MIN.
7'6" to 9'

REFERENCE: TOWN OF NEWBURGH WATER DISTRICT



NOTES:
1. MANHOLE TO BE DESIGNED FOR H-20 LOADING.
2. CONCRETE TO TEST 4,000 PSI MINIMUM @ 28 DAYS IN CONFORMANCE WITH ASTM C-478.
3. STEPS TO ALUMINUM ALLOY WITH DEPRESSED TREAD. STEEL REINFORCED POLYPROPYLENE IS OPTIONAL.
4. ALL MANHOLE FRAMES SHALL BE BOLTED TO THE CONE SECTION WITH 2-3/4" DIA. BOLTS WITH WASHERS AND NUTS. BOLTS TO BE AT 180° ON BOLT CIRCLE.
5. INSTALL 2 LAYERS OF PLASTIC PREFORMED JOINT SEALANT BETWEEN ALL SECTIONS & UNDER FRAME.
6. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ASTM C478.
7. WHEN TWO OR MORE GRADE ADJUSTMENT RINGS ARE USED, A WATERTIGHT PVC CONNECTOR SHALL BE INSTALLED BETWEEN THE FRAME AND THE CONE. CONNECTOR SHALL BE WATER-LOK CONNECTOR BFA ANTI-FLOATING BY A-LOK PRODUCTS INC. OR APPROVED EQUAL.
8. SOIL CONDITIONS BELOW STRUCTURE DEEMED UNSUITABLE BY THE FIELD ENGINEER SHALL BE EXCAVATED TO A SUITABLE MATERIAL OR A MAXIMUM OF TWO ADDITIONAL FEET AND BACKFILLED WITH 3/4" CLEAN CRUSHED STONE.
9. DETAIL INDICATES MINIMUM STRUCTURE DIMENSIONS FOR LARGER PIPES, OR AS PIPE GEOMETRY DEEMS NECESSARY.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL.

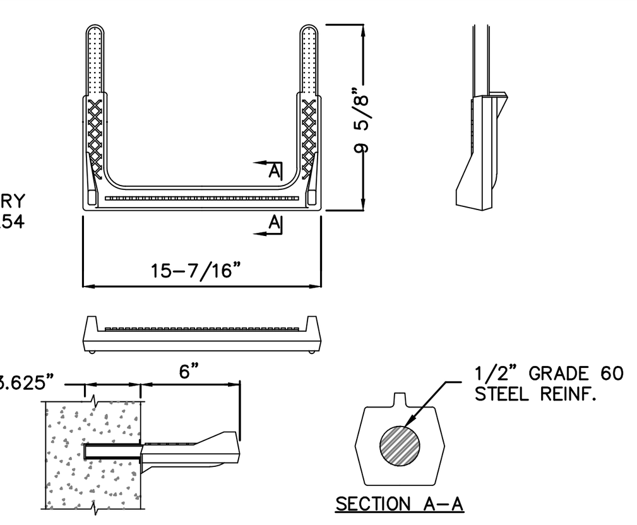
DRAINAGE MANHOLE DIMENSIONS

DIA.	T (MIN)	B (MIN)
48"	5"	6"
60"	5"	6"
72"	6"	8"
84"	6"	8"
96"	6"	8"

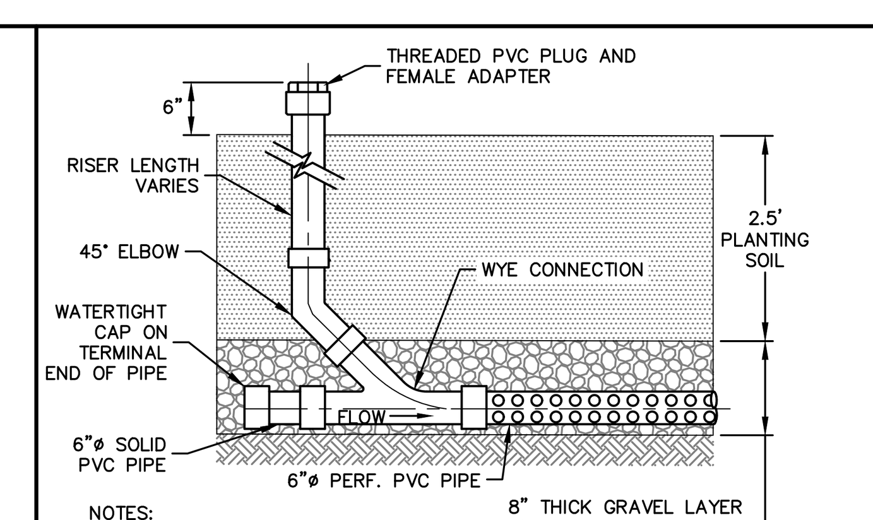
PIPE SIZE RANGE	WIDTH (I.D.)
8" TO 15" PIPES	4'-0"ø
16" TO 27" PIPES	5'-0"ø
30" TO 48" PIPES	6'-0"ø
60" PIPES	7'-0"ø

STORMWATER MANHOLE
SCALE: NTS

NOTE:
CAMPBELL FOUNDRY MODEL #2593-2254 PLASTIC COATED STEEL STEPS



MANHOLE STEP
SCALE: NTS



NOTES:
1. REFER TO BIORETENTION DETAIL FOR ADDITIONAL INFORMATION

BIORETENTION CLEANOUT
SCALE: NTS

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
02/07/22	ADDED DETAILS	3
12/29/21	REVISED PER TOWN COMMENTS	2
11/29/21	PLANNING BOARD SUBMISSION	1

REVISIONS

SIGNATURE: W. CHARLES UTSCHIG, JR., PE — DATE SIGNED: 2/7/2022
PROFESSIONAL ENGINEER NY Lic. No. 062303

LANGAN
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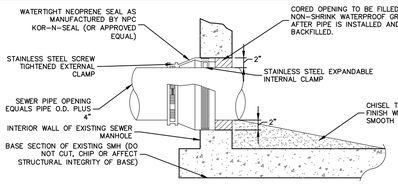
Project: NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title: DETAILS (2 OF 3)

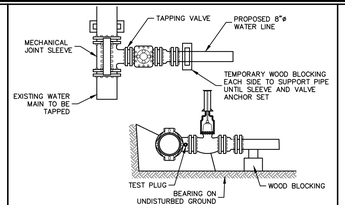
Project No.: 190071901
Date: NOVEMBER 29, 2021
Drawn By: LM
Checked By: CU
Drawing No.: CS502
Sheet 10 of 15

LANGAN PROJECT NO. 190071901



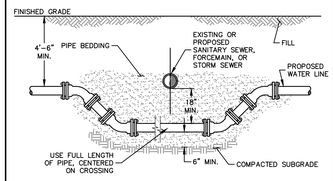
PROPOSED SEWER CONNECTION TO EXISTING SEWER MANHOLE DETAIL

SCALE: NTS



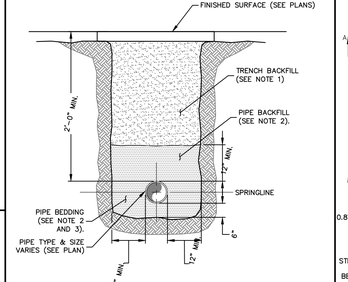
TAPPING SLEEVE AND VALVE ASSEMBLY

SCALE: NTS



WATER LINE OFFSET

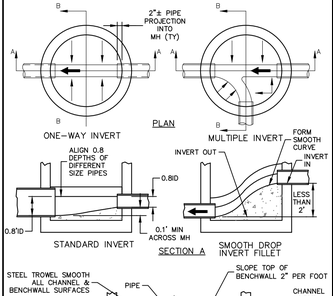
SCALE: NTS



NOTES:
1. ON-SITE SOILS HAVING A MAX. PARTICLE SIZE 4" CAN BE USED FOR REUSE OF EXISTING SOILS. COMPACT IN MAX. 8" LOOSE LIFTS TO 95% MODIFIED PROCTOR DENSITY.
2. MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES. MAX. PARTICLE SIZE ¾", COMPACT IN MAX. 6" LOOSE LIFTS.
3. WHEN IN LEDGE, USE AASHTO NO. 67 OR EQUAL PROCESSED SAND AND GRAVEL FREE OF DEBRIS, CLAY LUMPS, ORGANIC, OR OTHER DELETERIOUS MATERIAL. COMPACT TO THE SPRINGLINE IN MAX. 6" LOOSE LIFTS.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

DRAINAGE PIPE TRENCH

SCALE: NTS

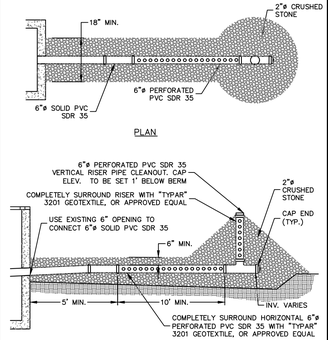


NOTE:
1. INLET AND OUTLET OF PIPES SHOWN ON PLAN VIEW OF BASE ARE NOT NECESSARILY TYPICAL OF ALL MANHOLES. REFER TO UTILITY PLAN FOR INLET AND OUTLET DIRECTIONS.

INVERT, CHANNEL AND BENCHWALLS

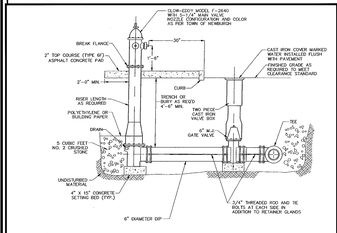
SCALE: NTS

NOTES:
1. CONTRACTOR TO USE THE 6" UNDERDRAIN OPENING IN THE OUTLET CONTROL STRUCTURE TO CONNECT TO TEMPORARY DEWATERING DEVICE. WHERE UNDERDRAINS ARE NOT REQUIRED, THE TEMPORARY 6" OPENING IN THE OUTLET CONTROL STRUCTURE SHALL BE PATCHED.



TEMPORARY SEDIMENT BASIN DEWATERING DEVICE

SCALE: NTS

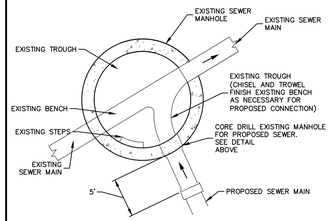


NOTES:
1. PROPOSED LOCATIONS OF HYDRANTS TO BE FIELD LOCATED (STAKED) AND APPROVED BY WATER SUPERINTENDENT PRIOR TO INSTALLATION
2. HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY.
3. HYDRANT WITH PROPER RISER LENGTH (DEPTH OF BURY) SHALL BE INSTALLED AS REQUIRED TO MEET THE 3" MIN. TO 4" MAX. CLEARANCE BETWEEN THE CENTER OF THE BREAK FLANGES AND THE ASPHALT CONCRETE PAD.

TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

HYDRANT AND VALVE ASSEMBLY INSTALLATION (ADJACENT CURB)

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE

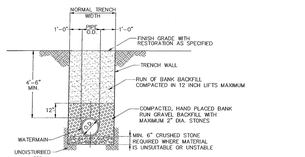


CONNECTION TO EXISTING SEWER MANHOLE CONSTRUCTION SEQUENCE:

1. INSTALL PROPOSED SEWER MAIN PIPING TO WITHIN 5' OF THE EXISTING SEWER MANHOLE.
2. PERFORM REQUIRED ACCEPTANCE TESTING OF THE SEWER MAIN.
3. AFTER TESTING OF NEW SEWER MAIN, CORE DRILL EXISTING MANHOLE AND CONNECT PROPOSED PIPING TO EXISTING MANHOLE.
4. ONCE THE NEW SEWER MAIN HAS BEEN CONNECTED TO THE EXISTING SEWER MANHOLE, FORM NEW TROUGH BY CHISELING AND TROWEL FINISH EXISTING BENCH AND TROUGH.

PROPOSED SEWER CONNECTION TO EXISTING SEWER MANHOLE

SCALE: NTS

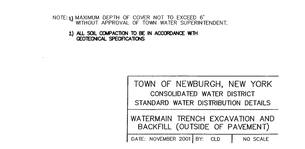


NOTE: 1) MAXIMUM DEPTH OF COVER NOT TO EXCEED 4' WITHOUT APPROVAL OF TOWN WATER SUPERINTENDENT.
2) ALL SOIL COMPACTION TO BE IN ACCORDANCE WITH GEOTECHNICAL SPECIFICATIONS

TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

WATERMAIN TRENCH EXCAVATION AND BACKFILL (OUTSIDE OF PAVEMENT)

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE

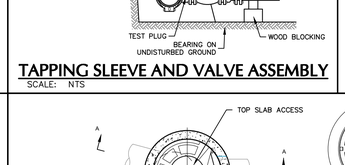


NOTE: PROPOSED LOCATIONS OF CURB BOXES TO BE FIELD LOCATED (STAKED) AND APPROVED BY WATER SUPERINTENDENT PRIOR TO INSTALLATION.

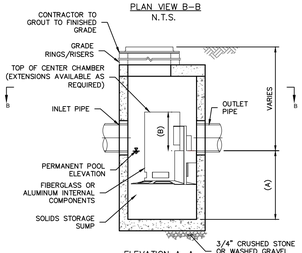
TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

WATER SERVICE CURB BOX

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE



ID	UNIT	I.D.	A	B
PRETREATMENT UNIT-2	CS-6	6'-0"	5'-0"	3'-4"
PRETREATMENT UNIT-11	CS-4	4'-0"	4'-0"	2'-3"
PRETREATMENT UNIT-26	CS-4	4'-0"	4'-0"	2'-3"

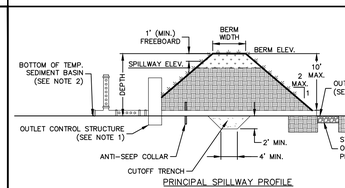


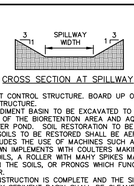
GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO H20 LOAD RATING, ASSUMING EARTH COVER OF 0' – 2' (610), AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES:
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CASCADE SEPARATOR (CS) WATER QUALITY UNIT

SCALE: NTS





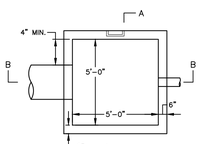
NOTES:
1. INSTALL OUTLET CONTROL STRUCTURE. BOARD UP ORIFICES, SLOTS, AND TOP OF STRUCTURE.
2. TEMPORARY SEDIMENT BASIN TO BE EXCAVATED TO THE TOP OF THE GRAVEL LAYER OF THE BIORETENTION AREA AND AQUATIC BENCH OF THE STORMWATER POND. SOIL RESTORATION TO BE PERFORMED AS NECESSARY. SOILS TO BE RESTORED SHALL BE AERATED. AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOILS, A ROLLER WITH MAHY SPIKES MAKING INDENTATION IN THE SOILS, OR PRONGS WHICH FUNCTION LIKE A MINI-SUBSOILER.
3. ONCE SITE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, THE TEMPORARY SEDIMENT BASIN SHALL BE CLEANED AND EXCAVATED FOR THE INSTALLATION OF THE BIORETENTION AREAS AND STORMWATER POND. ALL ACCUMULATED SEDIMENT WITHIN THE TEMPORARY SEDIMENT BASIN SHALL BE REMOVED.
4. SEE SEDIMENT BASIN DEWATERING STRUCTURE FOR ADDITIONAL INFORMATION ON DEWATERING THE TEMPORARY SEDIMENT BASIN.

LOCATION	DRAINAGE AREA (AC)	TOTAL REQUIRED VOLUME (CF) (DRAINAGE AREA * 3,600 CF)	DEPTH (FT)	REQUIRED SURFACE AREA (SF)	TOTAL AVAILABLE SURFACE AREA (SF)	BOTTOM OF BASIN (FT)	BERM ELEV. (FT)	BERM WIDTH (FT)	RISER DIA. (IN)	TOP OF RISER ELEV. (FT)	OUTLET DIA. (IN)	BASIN CLEANOUT ELEV. (FT)
BIO 1	5.0	18,000	3.4	13,235	42,000	434.5	442.0	8	6	440.5	24	436.2
BIO 2	5.0	18,000	3.4	13,158	14,400	433.5	441.0	8	6	439.5	24	435.2

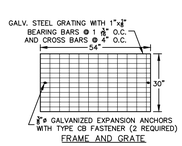
TEMPORARY SEDIMENT BASIN/TRAP (USING OUTLET CONTROL STRUCTURES)

SCALE: NTS

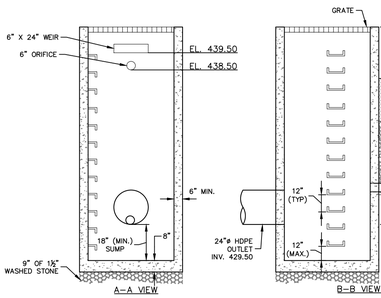
NOTES:
1. PRECAST CONCRETE TOP WITH FRAME AND GRATE MAY NOT BE USED.
2. LADDER RUNGS SHALL BE STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS IN CONFORMANCE WITH ASTM C-478, 12" TO BOTTOM.
3. ALL PIPES SHALL BE LAID OR CUT FLUSH WITH THE INSIDE OF THE CATCH BASIN WALL AND SHALL BE FIRMLY PARGED IN PLACE, BOTH INSIDE AND OUTSIDE.



*SHOWN FROM THE INSIDE CORNER TO THE OPENING AS CAST FOR THE PIPE.



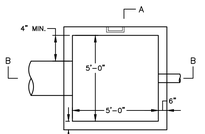
*REQUIRES A DOUBLE GRATE



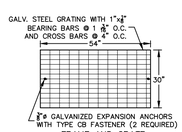
BIORETENTION 1 OUTLET CONTROL STRUCTURE OCS-22

SCALE: NTS

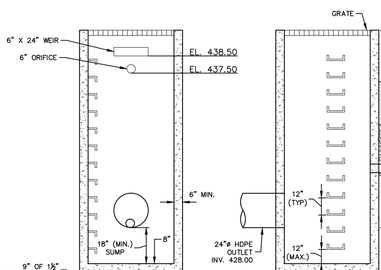
NOTES:
1. PRECAST CONCRETE TOP WITH FRAME AND GRATE MAY NOT BE USED.
2. LADDER RUNGS SHALL BE STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS IN CONFORMANCE WITH ASTM C-478, 12" TO BOTTOM.
3. ALL PIPES SHALL BE LAID OR CUT FLUSH WITH THE INSIDE OF THE CATCH BASIN WALL AND SHALL BE FIRMLY PARGED IN PLACE, BOTH INSIDE AND OUTSIDE.



*SHOWN FROM THE INSIDE CORNER TO THE OPENING AS CAST FOR THE PIPE.

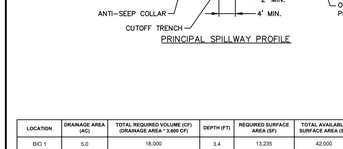


*REQUIRES A DOUBLE GRATE



BIORETENTION 2 OUTLET CONTROL STRUCTURE OCS-23

SCALE: NTS

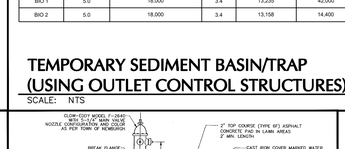


NOTES:
1. PROPOSED LOCATIONS OF HYDRANTS TO BE FIELD LOCATED (STAKED) AND APPROVED BY WATER SUPERINTENDENT PRIOR TO INSTALLATION
2. HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY.
3. HYDRANT WITH PROPER RISER LENGTH (DEPTH OF BURY) SHALL BE INSTALLED AS REQUIRED TO MEET THE 3" MIN. TO 4" MAX. CLEARANCE BETWEEN THE CENTER OF THE BREAK FLANGES AND THE ASPHALT CONCRETE PAD.

TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

HYDRANT AND VALVE ASSEMBLY INSTALLATION

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE

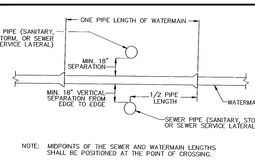


NOTES:
1. PROPOSED LOCATIONS OF HYDRANTS TO BE FIELD LOCATED (STAKED) AND APPROVED BY WATER SUPERINTENDENT PRIOR TO INSTALLATION
2. HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY.
3. HYDRANT WITH PROPER RISER LENGTH (DEPTH OF BURY) SHALL BE INSTALLED AS REQUIRED TO MEET THE 3" MIN. TO 4" MAX. CLEARANCE BETWEEN THE CENTER OF THE BREAK FLANGES AND THE ASPHALT CONCRETE PAD.

TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

HYDRANT AND VALVE ASSEMBLY INSTALLATION

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE

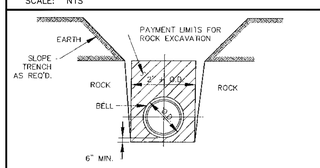


NOTE: MIDPOINTS OF THE SEWER AND WATERMAIN LENGTHS SHALL BE POSITIONED AT THE POINT OF CROSSING.

TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

WATERMAIN/SEWER CROSSING

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE



TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

TRENCH WITH ROCK EXCAVATION

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
02/07/22	ADDED DETAILS	3

REVISIONS

STATE OF NEW YORK * CHARLES UTSCHIG * 062303 * LICENSED PROFESSIONAL ENGINEER

SIGNATURE 2/7/2022 DATE SIGNED

CHARLES UTSCHIG, JR., PE
PROFESSIONAL ENGINEER NY Lic. No. 062303

LANGAN
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Project: NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title: DETAILS (3 OF 3)

Project No. 190071901
Date JANUARY 7, 2022
Drawn By LM
Checked By CU

Drawing No. CS503
Sheet 11 of 15

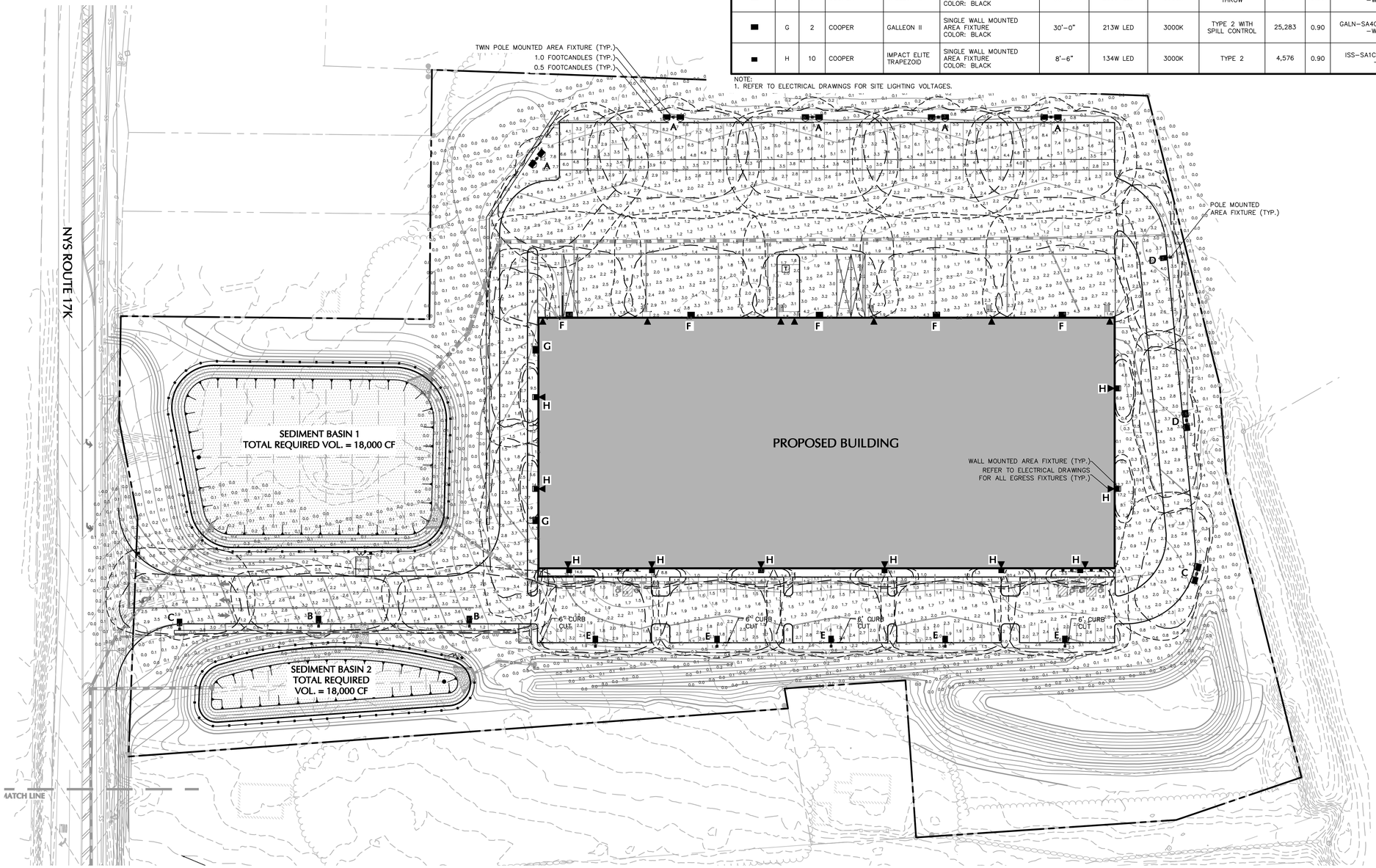
LANGAN
PROJECT NO. 190071901

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-CS501-0101.dwg Date: 2/7/2022 Time: 12:02 User: idn Style Table: Langan.stb Layout: CS503

SITE LIGHTING SCHEDULE

SYMBOL	KEY	QTY.	FIXTURE MANUFACTURER	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	LAMP	COLOR TEMPERATURE	OPTICS	LUMENS	LLF	FIXTURE CATALOGUE NO.	POLE MANUFACTURER	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO.	REMARKS
	A	5	COOPER	GALLEON II	TWIN POLE MOUNTED AREA FIXTURE WITH HOUSE SIDE SHIELD COLOR: BLACK	30'-0"	213W LED	3000K	TYPE 4 WITH SPILL CONTROL AND HOUSE SIDE SHEILD	20,835	0.90	GALN-SA4C-730-U-SL4 -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 -D218-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	B	2	COOPER	GALLEON II	SINGLE POLE MOUNTED AREA FIXTURE WITH HOUSE SIDE SHIELD COLOR: BLACK	30'-0"	213W LED	3000K	TYPE 3 WITH SPILL CONTROL AND HOUSE SIDE SHEILD	20,952	0.90	GALN-SA4C-730-U-SL3 -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 -D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	C	2	COOPER	GALLEON II	SINGLE POLE MOUNTED AREA FIXTURE WITH HOUSE SIDE SHIELD COLOR: BLACK	30'-0"	213W LED	3000K	TYPE 4 WITH SPILL CONTROL AND HOUSE SIDE SHEILD	20,835	0.90	GALN-SA4C-730-U-SL4 -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 -D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	D	2	COOPER	GALLEON II	SINGLE WALL MOUNTED AREA FIXTURE COLOR: BLACK	30'-0"	213W LED	3000K	TYPE 2 WITH SPILL CONTROL AND HOUSE SIDE SHEILD	20,730	0.90	GALN-SA4C-730-U-SL2 -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 -D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	E	5	COOPER	GALLEON II	SINGLE WALL MOUNTED AREA FIXTURE COLOR: BLACK	30'-0"	213W LED	3000K	TYPE 4 FORWARD THROW WITH HOUSE SIDE SHIELD	18,239	0.90	GALN-SA4C-730-U-T4FT -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 -D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	F	5	COOPER	GALLEON II	SINGLE WALL MOUNTED AREA FIXTURE COLOR: BLACK	30'-0"	269W LED	3000K	TYPE 4 FORWARD THROW	31,993	0.90	GALN-SA5C-730-U-T4FT -WM-BK	N/A	N/A	N/A	N/A	N/A
	G	2	COOPER	GALLEON II	SINGLE WALL MOUNTED AREA FIXTURE COLOR: BLACK	30'-0"	213W LED	3000K	TYPE 2 WITH SPILL CONTROL	25,283	0.90	GALN-SA4C-730-U-SL2 -WM-BK	N/A	N/A	N/A	N/A	N/A
	H	10	COOPER	IMPACT ELITE TRAPEZOID	SINGLE WALL MOUNTED AREA FIXTURE COLOR: BLACK	8'-6"	134W LED	3000K	TYPE 2	4,576	0.90	ISS-SA1C-730-U-T2 -BK	N/A	N/A	N/A	N/A	N/A

NOTE:
1. REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING VOLTAGES.

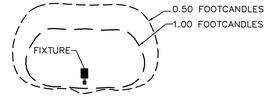


STATISTICS

DESCRIPTION	AVG.	MAX.	MIN.	MAX./MIN.	AVG./MIN.
BUILDING ENTRANCE – NORTH	12.7 fc	12.7 fc	12.7 fc	1.0:1	1.00:1
BUILDING ENTRANCE – SOUTH	19.3 fc	19.3 fc	19.3 fc	1.0:1	1.00:1
DRIVE AISLE – NORTH	2.62 fc	4.3 fc	1.0 fc	4.3:1	2.62:1
DRIVE AISLE – SOUTH	2.52 fc	7.8 fc	1.0 fc	7.8:1	2.52:1
LOADING	2.46 fc	4.8 fc	1.2 fc	4.0:1	2.05:1
OPEN TRUCK YARD	1.84 fc	6.3 fc	1.2 fc	5.2:1	1.53:1
PARKING	1.87 fc	6.2 fc	1.0 fc	6.2:1	1.87:1
SIDEWALK	5.35 fc	18.1 fc	1.0 fc	18.1:1	5.35:1
TRAILER STORAGE	4.34 fc	9.7 fc	1.4 fc	6.9:1	3.10:1

NOTE:
1. LIGHT PHOTOMETRY AND CALCULATIONS FOR EXISTING LIGHTING ARE NOT INCLUDED IN THE ABOVE STATISTICS.

PHOTOMETRIC LIGHTING TEMPLATE:



NOTE: THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.

NOTE: SEE SHEET LL501 FOR LIGHTING NOTES AND DETAILS

SCALE: 1 INCH = 50 FEET

Date	Description	No.
01/07/22	REVISED SUBMISSION	2
10/08/21	SCHEMATIC DESIGN DOCUMENTS	1

REVISIONS

REGISTERED LANDSCAPE ARCHITECT MICHAEL SZURA

SIGNATURE OF MICHAEL SZURA, RLA DATE SIGNED 2/7/2022
NY REGISTERED LANDSCAPE ARCHITECT
LIC. NO. 001901

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
One North Broadway, Suite 910
White Plains, NY 10601
T: 914.323.7400 F: 914.323.7401 www.langan.com

Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
SITE LIGHTING PLAN

Project No. 190071901
Date DECEMBER 30, 2021
Drawn By AC
Checked By MJ

Drawing No. LL101

Sheet 12 of 15

SITE LIGHTING NOTES:

GENERAL

1. POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/ DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS.NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE PLANS.
2. LIGHT LEVEL POINT SPACING IS 10 FT. LEFT TO RIGHT AND 10 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

COMPLIANCE

3. ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
4. LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

COORDINATION

5. CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
6. REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
7. CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
8. INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
9. CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

POLES AND FOOTINGS

10. PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
11. CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.
12. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.
13. ALL POLES HIGHER THAN 25 FT. SHALL BE EQUIPPED WITH FACTORY INSTALLED VIBRATION DAMPENERS.

WALL MOUNTED FIXTURES

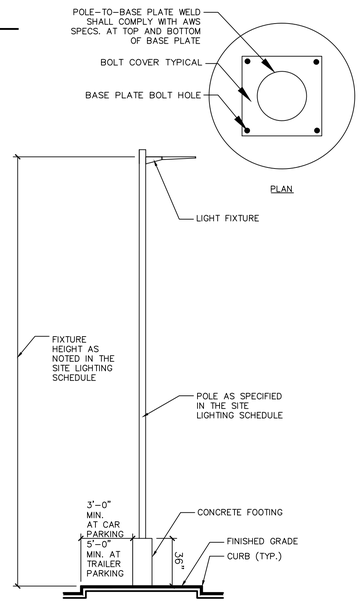
14. CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
15. INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

ADJUSTMENT AND INSPECTION

16. CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
17. CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
18. CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

REQUIREMENTS FOR ALTERNATES

19. ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:
    A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR
    B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE.
    C. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.
    D. POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
    E. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.
    F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.



NOTES:

1. ALL LIGHT POLES TO RECEIVE FACTORY INSTALLED VIBRATION DAMPENERS.
2. REFER TO THE PLANS FOR THE DIMENSION FROM FACE OF CURB TO FOOTING AT TRAILER PARKING.

1 LIGHT FIXTURE AND POLE

NTS

Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features

Light Advisor™

Interactive Menu

Product Certifications

Quick Facts

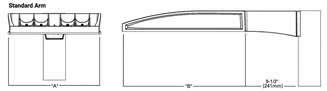
- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 16 optical distributions
- Efficacy up to 159 lumens per watt

Connected Systems

- WaveLinx Lite
- WaveLinx

Dimensional Details

Standard Arm



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

NOTES:
1. For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. Go to http://www.cooperlighting.com/search/ to confirm qualification. Not all product variations are DLC qualified.
2. Qualified for 3000K CCT and warmer only.

COOPER Lighting Solutions

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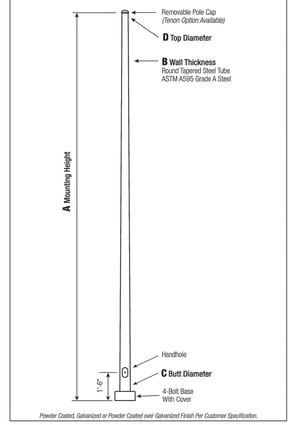
December 6, 2021 3:08 PM

2 FIXTURE TYPE 'A, B, C, D, E, & F'

NTS

RTS Round Tapered Steel Pole **No Arm — 4-Bolt Base**



Powder Coated, Galvanized or Powder Coated over Galvanized Finish Per Customer Specification.

C Butt Dia.	F Bolt Circ. Dia.	G Bolt No.	H Bolt Plan.	I Bolt Size
4.5	7.5-8.5	8	3.75	.75 x 17 x 3
5.2	8 - 9	8.5	3.75	.75 x 17 x 3
6.1 - 6.6	9.5 - 10.5	10	3.75	.75 x 30 x 3
6.8	10 - 11	10	3.75	.75 x 30 x 3
7.0* - 7.5	10.5 - 11.5	10.5	4.875	1 x 36 x 4
8.0	11 - 12	11	4.875	1 x 36 x 4
8.5	11.5-12.5	12	4.875	1 x 36 x 4
9.0 (11 Gauge)	12 - 13	12.375	4.875	1 x 36 x 4
9.0 (7 Gauge)	13 - 14	12.75	5.875	1.25 x 48 x 6
10	13.5 - 14.5	13	4.875	1 x 48 x 4
11	15 - 16	14	5.875	1.25 x 48 x 6
12	16 - 17	15.5	6.75	1.5 x 54 x 6

*Nominal — Dimensions in Inches

Pole

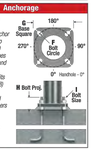
Pole shaft shall be weldable-grade, hot-rolled, commercial quality carbon steel tubing conforming to ASTM A595 Grade A. Options include 11 gauge and 7 gauge. All welds shall conform to AWS D1.1 using E70T0G-E electrodes.

Base Style

4-Bolt Steel Base Plate of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware. Base Cover will be fabricated from metal materials.

Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153. Kits will contain eight (8) Hex Nuts, four (4) Lock Washers, and eight (8) Flat Washers (all components Galvanized Steel). A paper bolt circle template will be provided.



Handhole

Up To 5.9" Butt Diameters – Reinforced, 3" x 5" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

6"+ Butt Diameters – Reinforced, 4" x 6-1/2" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

Base Cover

Square metal powder coated Base Covers are standard on all RTS poles.

Vibration Damper

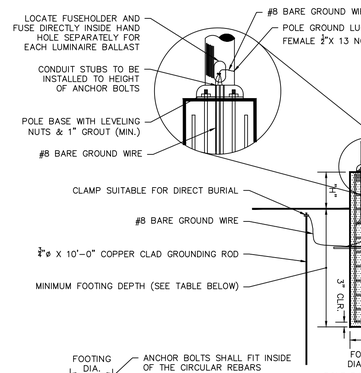
If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.

hapco www.hapco.com

WARNING: *Do not install light pole without luminaire.*

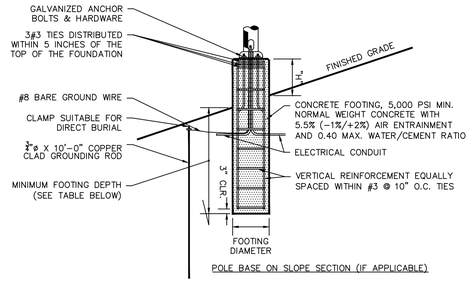
3 POLE TYPE 'A, B, C, & D'

NTS



NOTES:

EXPOSED HEIGHT OF POLE BASE (H) SHALL BE MEASURED ON THE UPHILL SIDE OF A SLOPE. FOOTING DEPTH (D) SHALL BE MEASURED ON THE DOWNHILL SIDE OF A SLOPE. AN ADDITIONAL VARIABLE HEIGHT (V) WILL BE BASED ON THE SLOPE ON WHICH THE POLE BASE IS LOCATED. CONTRACTOR TO CALCULATE FULL LENGTH OF EACH POLE BASE REQUIRED ON SLOPES (H+D+V = TOTAL BASE LENGTH)



MOUNTING HEIGHT	FOOTING DEPTH	FOOTING DIAMETER	VERTICAL REINFORCEMENT	'H'
30'-0"	8'-0"	2'-0"	6 #5 BARS	3'-0" EXPOSED CONCRETE BASE

NOTES:

1. SHAFT CAP, ARMS, BASE FLANGE, ANCHOR BOLTS, LEVELING NUTS, CONNECTION HARDWARE, BOLT COVERS, HANDHOLE COVER, AND BOLT CIRCLE TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER.
2. EACH STANDARD TO BE PROTECTED AGAINST LIGHTNING WITH AN INTERCONNECTED GROUND ROD. THIS ROD SHALL BE BONDED PER SECTION NUMBER 250-86, N.E.C.
3. CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENT OF ACI 318. CAST-IN-PLACE SHALL HAVE UNCONFINED COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI AT 28-DAYS. DEFORMED REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.
4. CONTRACTOR TO ENSURE CONCRETE POLE BASES ARE POURED / PLACED ABSOLUTELY VERTICAL & LEVEL.
5. IF POLE BASE IS CAST-IN-PLACE, POLE BASE SHALL BE ONE CONTINUOUS POUR. EXPOSED PORTION OF BASE SHALL BE HAND-RUBBED SMOOTH.
6. CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS / GEOTECH REPORT.
7. THE INFORMATION ILLUSTRATED IN THE LIGHT POLE FOUNDATION DETAIL HAS BEEN PROVIDED FOR GENERAL REFERENCE AND PRELIMINARY COST ESTIMATE PURPOSES. LIGHT POLE FOUNDATIONS SHOULD BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER BASED ON EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
8. CONTRACTOR TO CONFIRM GROUNDING DESIGN WITH MEP.

4 LIGHT POLE BASE

NTS

Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Interactive Menu

Product Certifications

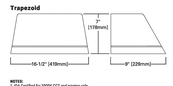
Quick Facts

- 10 Optical Distributions
- Lumen packages range from 2,459 to 8,123 (20W - 66W)
- Efficacy up to 143 lumens per watt

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details



NOTES:
1. IES Certified for 3000K CCT and warmer only.

COOPER Lighting Solutions

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October 26, 2021 8:29 AM

5 WALL LIGHT FIXTURE 'G'

NTS

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

NOTE: SEE SHEET LL101 FOR LIGHTING PLAN, SCHEDULE AND STATISTICS

Date	Description	No.
01/07/22	REVISED SUBMISSION	2
10/08/21	SCHEMATIC DESIGN DOCUMENTS	1

REVISIONS

REGISTERED LANDSCAPE ARCHITECT MICHAEL SZURA

2/7/2022

SIGNATURE OF MICHAEL SZURA, RLA — DATE SIGNED

NY REGISTERED LANDSCAPE ARCHITECT

LICENSE NUMBER 001901

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

One North Broadway, Suite 910

White Plains, NY 10601

T: 914.323.7400 F: 914.323.7401 www.langan.com

Project

NEWBURGH COMMERCE CENTER

SECTION No. 95, BLOCK No. 1, LOT No. 58

TOWN OF NEWBURGH

ORANGE COUNTY NEW YORK

Drawing Title

SITE LIGHTING NOTES AND DETAILS

Project No.	Drawing No.
190071901	LL501
Date: DECEMBER 30, 2021	
Drawn By: MJ	
Checked By: MH	

Sheet 13 of 15

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-LL501-0101.dwg Date: 2/7/2022 Time: 12:03 User: idin Style Table: Langan.stb Layout: LL501

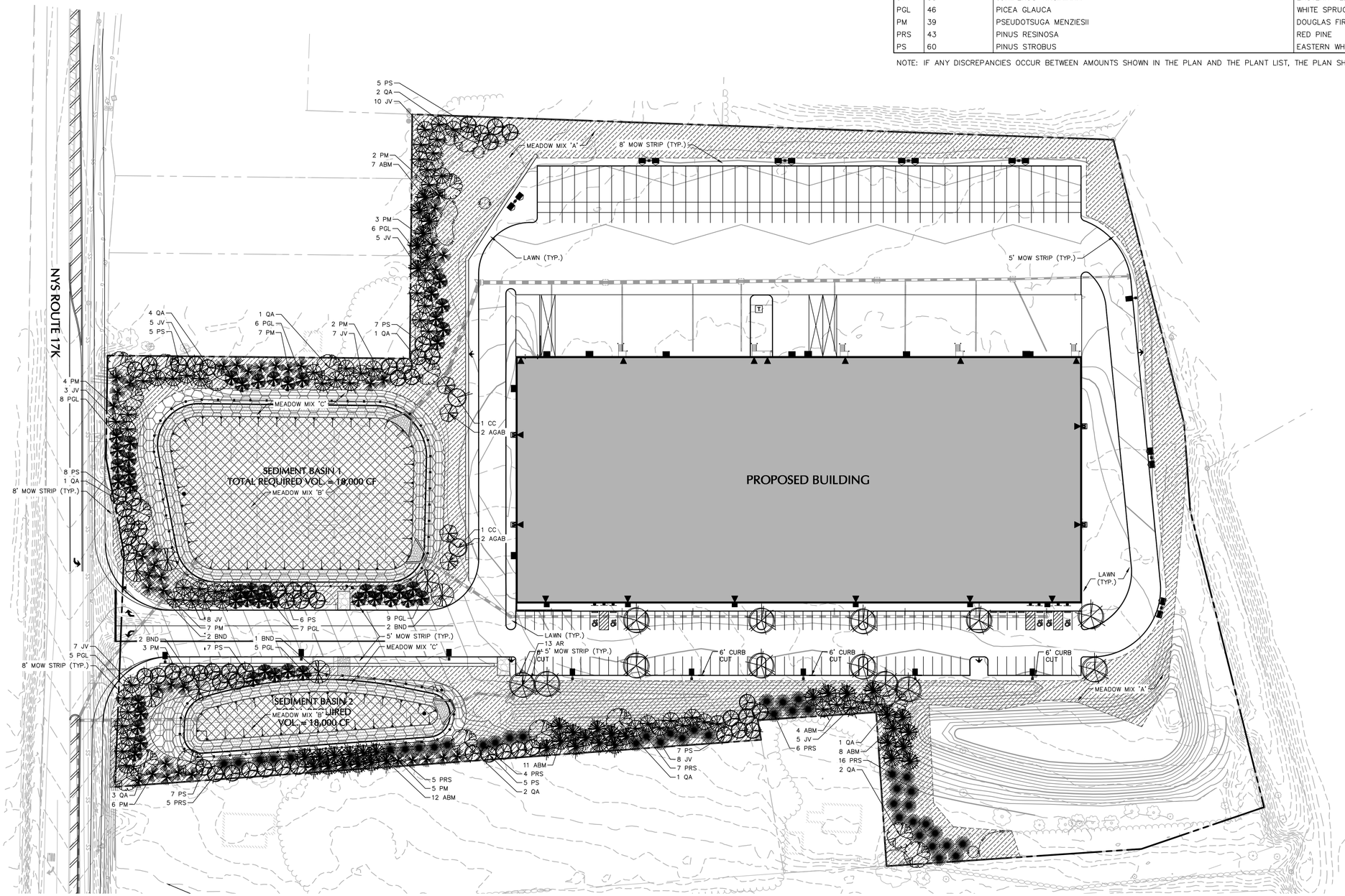
LANGAN

PROJECT NO. 190071901

PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)						
AR	13	ACER RUBRUM	RED MAPLE	2 1/2–3" CAL.	B+B	–
QA	18	QUERCUS ALBA	WHITE OAK	2 1/2–3" CAL.	B+B	–
ORNAMENTAL TREE(S)						
AGAB	4	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	6–8'	B+B	–
BND	7	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	6–8'	B+B	–
CC	2	CERCIS CANADENSIS	EASTERN REDBUD	6–8'	B+B	–
EVERGREEN TREE(S)						
ABM	42	ABIES BALSAMEA	BALSAM FIR	6–8'	B+B	–
JV	58	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6–8'	B+B	–
PGL	46	PICEA GLAUCA	WHITE SPRUCE	6–8'	B+B	–
PM	39	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6–8'	B+B	–
PRS	43	PINUS RESINOSA	RED PINE	6–8'	B+B	–
PS	60	PINUS STROBUS	EASTERN WHITE PINE	6–8'	B+B	–

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.



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SCALE: 1 INCH = 50 FEET

Date	Description	No.
01/07/22	REVISED SUBMISSION	4
11/29/21	PLANNING BOARD SUBMISSION	3
11/29/21	ZBA SUBMISSION	2
10/08/21	SCHEMATIC DESIGN DOCUMENTS	1

REVISIONS

REGISTERED LANDSCAPE ARCHITECT MICHAEL SZURA NY REGISTERED LANDSCAPE ARCHITECT NO. 001901

SIGNATURE & MICHAEL SZURA, RLA DATE SIGNED 2/7/2022

LANGAN

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
PLANTING PLAN

Project No. 190071901
Date AUGUST 19, 2021
Drawn By MJ
Checked By MH

Drawing No. LP101

Sheet 14 of 15

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

LANGAN PROJECT NO. 190071901

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GENERAL LANDSCAPE PLANTING NOTES

1. NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
2. ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.
3. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
4. STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION.
5. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES.
6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
7. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.
8. LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.
9. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
10. DELIVERY, STORAGE, AND HANDLING
    A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT SITE.
    B. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT. DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING.
    C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOTBALL WRAPPING AND BINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO LOCATIONS.
    D. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.
11. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING.
12. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
13. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
14. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.
16. THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.
17. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATION.
18. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
19. ALL FENCE INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN AND GRASSES, OR IRRIGATION WORK.
20. FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN SHALL GOVERN.
21. PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED.
22. ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 – JUNE 15 OR AUGUST 15 – NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DATES IN SEEDING NOTES.

LAWN WATERING SCHEDULE

THE FOLLOWING WATERING SCHEDULE COVERS ROUGHLY 8 WEEKS TO ESTABLISH A HEALTHY STAND OF GRASS FROM SEED. THE CONTRACTOR SHALL BE OBLIGATED TO ENSURE A HEALTHY STAND OF GRASS AT THE END OF THE MAINTENANCE/BOND PERIOD. ANY BARE OR DEAD AREAS IN THE LAWN SHALL BE PREPARED, RESEEDED AND REESTABLISHED PRIOR TO THE END OF THE MAINTENANCE/BOND PERIOD AND TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER.

IMPORTANT ASPECTS TO ATTAINING AND SUSTAINING A HEALTHY STAND OF GRASS ARE THE INSTALLATION OF TOPSOIL, SEED BED PREPARATION, ATTAINING OPTIMAL pH FOR THE INTENDED PLANT SPECIES, FERTILIZING, MULCH COVERING, AND SUFFICIENT WATERING PER THESE NOTES AND/OR PROJECT SPECIFICATIONS.

1. SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT SPECIFICATIONS.
2. AFTER THE SEEDBED IS PREPARED, SEED IS INSTALLED, AND MULCH IS APPLIED, WATER LIGHTLY TO KEEP THE TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT NO TIME SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED.
3. DEPENDING ON SOIL TEMPERATURES, IT MAY TAKE SEVERAL WEEKS FOR GERMINATION TO OCCUR. DIFFERENT SPECIES WITHIN THE MIX GERMINATE AT DIFFERENT TIMES AND THEREFORE CONTRACTOR SHOULD CONTINUE THE LIGHT WATERING, AS DESCRIBED ABOVE, UNTIL THERE IS AT LEAST 2 INCHES OF GROWTH THROUGHOUT.
4. AT THIS POINT, WATERING FREQUENCY MAY BE REDUCED TO EVERY 3 TO 5 DAYS. WATER SHALL BE APPLIED TO WET A 6 INCH MINIMUM SOIL DEPTH TO PROMOTE HEALTHY DEEP ROOTS.
5. BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO LESS THAN 2-½ INCHES. AFTER 2 TO 3 WEEKS OF MOWING, CONTINUE TO WATER TO A 6 INCH MINIMUM SOIL DEPTH AS NECESSARY PER WEATHER CONDITIONS, AND SOIL MOISTURE SENSORS IF APPLICABLE.

LAWN SEED MIX

1. LAWN SEED MIX: LESCO GRASS SEED – ALL PRO TRANSITION MIX (3 TURF-TYPE TALL-FESCUE GRASSES)

   NOTES:
   A) SEED RATE:
      1) NEW ESTABLISHMENT: SEED AT A RATE OF 6-8 LBS/1000 SQ FT
      2) RENOVATION: 20-50% EXISTING COVER: 5-7 LBS/1000 SQ FT
         50-75% EXISTING COVER: 4-6 LBS/1000 SQ FT

2. GENERAL SEED NOTES:

   A) FINAL SEED MIXTURES, RATES, AND SPECIES TO BE DETERMINED BASED ON PROJECT LANDSCAPE ARCHITECT REVIEW.
   B) SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15).
   C) ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A GLYPHOSATE-BASED HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
   D) IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL SEEDER WHERE APPLICABLE.
   E) THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW FOR PROPER GERMINATION.

NOTE: SEE SHEET LP101 FOR PLANTING PLAN

PLANTING SOIL SPECIFICATIONS

1. PLANTING SOIL, ALTERNATELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED, FREE OF DEBRIS, TOXINS, TRASH AND STONES OVER 1/2" DIA., IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO NOXIOUS ODORS.

2. PLANTING SOIL:

   REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING, THE CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND SPECIFICATIONS.

   SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR CONTAMINATED SITES.

   CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER, MATERIAL COMPOSITION, MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR AMENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL BE PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE COVERED WITH A TARPAULIN UNTIL TIME OF ACTUAL USE.

   ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.

   A. THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR APPROVAL BEFORE INSTALLATION:
      a. PARTICLE SIZE ANALYSIS – LOAMY SAND: 60-75% SAND, 25-40% SILT, AND 5-15% CLAY.
      b. FERTILITY ANALYSIS: pH (5.5-6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM
      c. ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS
      d. TOXIC SUBSTANCE ANALYSIS
      e. MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED
      f. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE

3. BIORETENTION SOIL MIX
   a. BIORETENTION SOIL MIX IS TO BE USED IN ALL DETENTION BASINS AND RAIN GARDENS.
   b. MIX TO CONSIST OF 60% COARSE SAND, 40% SUBMITTED TOPSOIL/HORTICULTURAL SOIL MIX
   c. TOPSOIL/HORTICULTURAL SOIL MIX: REFER TO SPECIFICATIONS LISTED IN SECTION ABOVE

   d. COARSE SAND

   1) PARTICLE SIZE ANALYSIS

SIEVE	PERCENT PASSING
3/8 INCH (9.5 MM)	100
NO 4 (4.75 MM)	95-100
NO 8 (2.36 MM)	80-100
NO 16 (1.18 MM)	50-85
NO 30 (.60 MM)	25-60
NO 50 (.30 MM)	10-30
NO 100 (.15 MM)	2-10
NO 200 (0.75 MM	2-5

   2) CHEMICAL ANALYSIS
      PH: LOWER THAN 7.0
      TOXIC SUBSTANCE ANALYSIS

   e. FINAL BIORETENTION MIX

   1) PARTICLE SIZE ANALYSIS
      a) SAND – 80-85%
      b) SILT – 10-15%
      c) CLAY – 2-5%

      NOT MORE THAN 1% OF MATERIAL TO BE RETAINED BY A #4 SIEVE

   2) CHEMICAL ANALYSIS
      a) PH – 5.5-6.5
      b) SOLUBLE SALTS: LESS THAN 2 MMHO/CM

   3) CONTRACTOR TO SUBMIT TOXIC SUBSTANCE ANALYSIS AND MATERIAL DRAINAGE RATE IN ADDITION TO INFORMATION LISTED ABOVE. DRAINAGE RATE OF MATERIAL TO EXCEED 1 INCH/HOUR

4. SOIL AMENDMENT FOR PLANT MATERIAL:
   IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER. ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8; MOISTURE CONTENT 35-55% BY WEIGHT 100% PASSING THROUGH 1" SIEVE; SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM; MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR CLEAN FILL.

   A. ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOLD WITH 60-90% ORGANIC CONTENT BY WEIGHT. SHREDDED LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2", WOOD CHIPS OVER 1".

   B. SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL, SHOULD BE FRIABLE, WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH.

   C. AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS:
      a. GROUND LIMESTONE (WITH A MIN. OF 88% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING RESULTS OF SOIL ANALYSIS.
         – BRING pH LEVELS TO 5.5 MIN. TO 6.5 FOR NON-ERICACEOUS PLANTS
         – BRING pH LEVELS TO 4.5 MIN. TO 5.5 FOR ERICACEOUS PLANTS
      b. TERRA-SORB BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN PLANTER BACKFILL MIXTURE WITH TREES AND SHRUBS.
      c. MYCOR-ROOT SAVER BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.

5. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2%) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES.

6. CLEAN SOIL FILL IN LANDSCAPE AREAS:
   LANDSCAPE FILL MATERIAL, BELOW PLANTING SOILS, SHALL HAVE THE PHYSICAL PROPERTIES OF A SANDY LOAM WITH AN ORGANIC CONTENT OF LESS THAN 2% AND A PH BETWEEN 5 – 7.

7. SOIL PLACEMENT:
   A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS, EIGHTEEN INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB AREAS, AND THIRTY-SIX INCHES (36") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE PLANTING AREAS.

   B. SCARIFY AND/OR TILL COMPACTED SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOIL PRIOR TO PLACING PLANTING SOIL AT THE DEPTHS INDICATED ABOVE. PLANTING SOIL SHALL BE PLACED IN 12-18" LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.

   C. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE PLANTING SOIL UTILIZED IN ALL PLANTING AREAS.

8. SOIL CONDITIONING:
   A. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER pH USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 88% CALCIUM AND MAGNESIUM CARBONATES AND SHALL HAVE TOTAL 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE.

   B. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

   C. SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS):
      a. THOROUGHLY TILL ORGANIC MATTER (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS ORGANIC MATTER AMENDMENT.

      b. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.

      c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

MEADOW SEED NOTES

1. MEADOW SEED MIX A – ERNST SEED MIX ERNMX-123 "NATIVE UPLAND WILDLIFE FORAGE & COVER MEADOW MIX"

34.9%	ANDROPOGON GERARDII, 'NIAGARA'	BIG BLUESTEM, 'NIAGARA'
27.0%	PANICUM VIRGATUM, 'CAVE-IN-ROCK'	SWITCHGRASS, 'CAVE-IN-ROCK'
21.0%	ELYMUS VIRGINICUS, 'MADISON'	VIRGINIA WILDRYE, 'MADISON'
9.0%	SORGHASTRUM NUTANS, 'TOMAHAWK'	INDIANGRASS, 'TOMAHAWK'
3.0%	RUDBECKIA HIRTA, PA ECOTYPE	BLACKEYED SUSAN, PA ECOTYPE
2.0%	CHAMAECRISTA FASCICULATA, PA ECOTYPE	PARTRIDGE PEA, PA ECOTYPE
1.5%	HELIOPSIS HELIANTHOIDES, PA ECOTYPE	OXEYE SUNFLOWER, PA ECOTYPE
1.0%	COREOPSIS TINCTORIA	PLAINS COREOPSIS
0.4%	DESMODIUM CANADENSE, PA ECOTYPE	SHOWY TICKTREFOIL, PA ECOTYPE
0.1%	ASCLEPIAS SYRIACA	COMMON MILKWEED
0.1%	MONARDA FISTULOSA, PA ECOTYPE	WILD BERGAMOT, PA ECOTYPE

   NOTES:
   SEED AT A RATE OF 20 LB/ACRE OF 100% PURE LIVE SEED

2. MEADOW SEED MIX B ERNST SEED MIX ERNMX-183 "NATIVE DETENTION AREA MIX"

32%	PANICUM CLANDESTINUM, 'TIOGA'	DEERTONGUE, 'TIOGA'
20%	CAREX VULPINOIDEA	FOX SEDGE
20%	ELYMUS VIRGINICUS	VIRGINIA WILDRYE
20%	PANICUM VIRGATUM, 'SHAWNEE'	SWITCHGRASS, 'SHAWNEE'
4%	AGROSTIS PERENNANS, ALBANY PINE BUSH	AUTUMN BENTGRASS, ALBANY PINE BUSH
2%	JUNCUS TENUIS	PATH RUSH
1%	JUNCUS EFFUSUS	SOFT RUSH
1%	PANICUM RIGIDULUM	REDTOP PANICGRASS

   NOTES:
   1. SEED AT A RATE OF 20 LBS/ACRE OF 100% PURE LIVE SEED.
   2. FOR SPRING SEEDING, APPLY A NURSE CROP OF OATS AT A RATE OF 30 LBS/ACRE.
   3. FOR FALL SEEDING, APPLY A NURSE CROP OF WINTER RYE AT A RATE OF 30 LBS/ACRE.

3. MEADOW SEED MIX C – ERNMX-181 "NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS"

31%	SORGHASTRUM NUTANS	INDIANGRASS
20%	LOLIUM MULTIFLORUM	ANNUAL RYEGRASS
14%	ANDROPOGON GERARDII, 'NIAGARA'	BIG BLUESTEM 'NIAGARA'
10%	ELYMUS VIRGINICUS	VIRGINIA WILDRYE
7%	ELUYMUS CANADENSIS	CANADA WILDRYE
4%	AGROSTIS PERENNANS	AUTUMN BENTGRASS
4%	PANICUM VIRGATUM 'CARTHAGE'	SWITCHGRASS, 'CARTHAGE'
3%	PANICUM CLANDESTINUM, TIOGA	DEERTONGUE, TIOGA
1.5%	ECHINACEA PURPUREA	PURPLE CONEFLOWER
1.3%	CHAMAECRISTA FASCICULATA	PARTRIDGE PEA
1.2%	HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER
1%	COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS
1%	RUDBECKIA HIRTA	BLACKEYED SUSAN
.3%	MONARDA FISTULOSA	WILD BERGAMOT
.2%	ASCLEPIAS SYRIACA	COMMON MILKWEED
.2%	SOLIDAGO RUGOSA	WRINKLELEAF GOLDENROD
.1%	ASTER LATERIFLORUS	CALICO ASTER
.1%	ASTER PILOSUS	HEATH ASTER

   NOTES:
   SEED AT A RATE OF 60 LBS/ACRE OF 100% PURE LIVE SEED.

GENERAL SEEDING NOTES:

1. FINAL SEED MIXTURES, RATES & SPECIES TO BE DETERMINED BASED ON SCD REVIEW.
2. SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15).
3. ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
4. IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL WHERE APPLICABLE.
5. THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW PROPER GERMINATION.
6. NO DRILL SEEDING IS TO TAKE PLACE UNDER EXISTING TREES TO REMAIN.

WEED CONTROL / MAINTENANCE

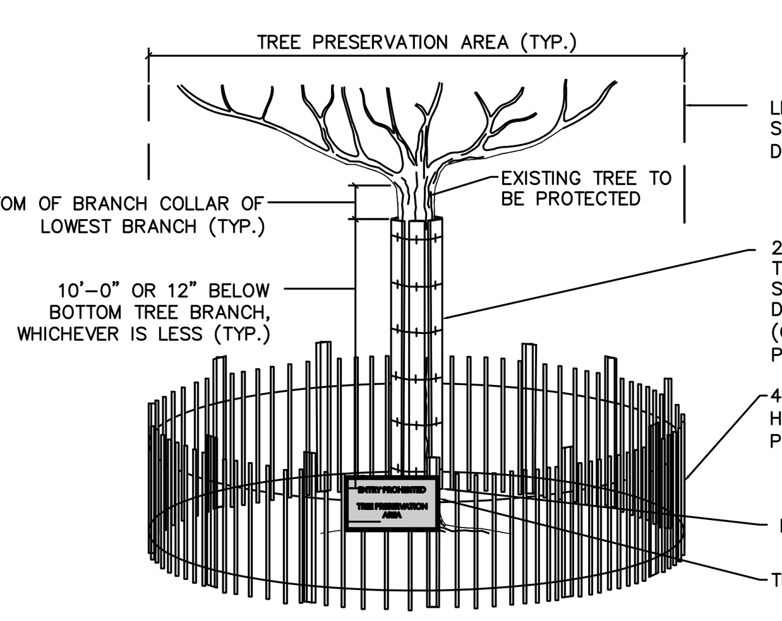
1. DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSE, AS SOME OF THE MEADOW MIX MAY BE DAMAGED.
2. AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL BE MOWED ONLY ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN LATE WINTER DURING THE MONTH OF MARCH.
3. MOW IN DETENTION BASIN AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURBANCE WILL NOT OCCUR. MAINTENANCE FOR DETENTION BASIN AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 15 – AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN DETENTION BASIN, WETLAND OR WETLAND TRANSITION AREAS AFTER ESTABLISHMENT OF MEADOW MIX.

LANDSCAPE MAINTENANCE NOTES

1. MAINTENANCE OPERATIONS BEFORE APPROVAL:
   A. PLANT CARE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS SATISFACTORILY INSTALLED AND SHALL CONTINUE THROUGHOUT THE LIFE OF THE CONTRACT UNTIL FINAL ACCEPTANCE OF THE PROJECT.
   B. CARE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYS AS ORIGINALLY INSTALLED, WATERING WHEN NEEDED OR DIRECTED, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
   C. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEAD, DEFECTIVE AND/OR REJECTED PLANTS AS REQUIRED BEFORE FINAL ACCEPTANCE.
2. MAINTENANCE DURING CONSTRUCTION:
   A. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING. PLANTS SHALL BE WATERED, MULCHED, WEEDED, PRUNED, SPRAYED, FERTILIZED, CULTIVATED, AND OTHERWISE MAINTAINED AND PROTECTED UNTIL PROVISIONAL ACCEPTANCE. SETTLED PLANTS SHALL BE RESET TO PROPER GRADE AND POSITION, PLANTING SAUCER RESTORED AND DEAD MATERIAL REMOVED. STAKES AND WIRES SHALL BE TIGHTENED AND REPAIRED. DEFECTIVE WORK SHALL BE CORRECTED AS SOON AS POSSIBLE AFTER IT BECOMES APPARENT AND WEATHER AND SEASON PERMIT.
   B. IF A SUBSTANTIAL NUMBER OF PLANTS ARE SICKLY OR DEAD AT THE TIME OF INSPECTION, ACCEPTANCE SHALL NOT BE GRANTED AND THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF ALL PLANTS SHALL BE EXTENDED FROM THE TIME REPLACEMENTS ARE MADE OR EXISTING PLANTS ARE DEEMED ACCEPTABLE BY THE LANDSCAPE ARCHITECT.
   C. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE SPECIFIED ON THE PLANT LIST OR THAT WHICH WAS TO REMAIN OR BE RELOCATED. THEY SHALL BE FURNISHED AND PLANTED AS SPECIFIED. THE COST SHALL BE BORNE BY THE CONTRACTOR. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, VANDALISM, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, ETC., AND LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.
   D. PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER INSPECTION AND PROVISIONAL ACCEPTANCE.
   E. AT THE END OF THE ESTABLISHMENT PERIOD, INSPECTION SHALL BE MADE AGAIN. ANY PLANT REQUIRED UNDER THIS CONTRACT THAT IS DEAD OR UNSATISFACTORY TO THE LANDSCAPE ARCHITECT OR OWNER SHALL BE REMOVED FROM THE SITE AND REPLACED DURING THE NORMAL PLANTING SEASON.
3. LAWN MAINTENANCE:
   A. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED AND CONTINUE FOR 8 WEEKS AFTER ALL LAWN PLANTING IS COMPLETED.
   B. WATER TO KEEP SURFACE SOIL MOIST, REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL, LIMING, FERTILIZING AND RE-SEEDING; MOW TO 2 1/2 – 3 INCHES AFTER GRASS REACHES 3 1/2 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 3 1/2 INCHES. WEED BY LOCAL SPOT APPLICATION OF SELECTIVE HERBICIDE ONLY AFTER GRASS IS WELL-ESTABLISHED.

TREE PROTECTION NOTES:

1. ALL EXISTING TREES WITHIN THE LIMITS OF TREE PROTECTION FENCING. SHALL BE PROTECTED THOUGHOUT THE DURATION OF WORK. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE DRIP-LINE OF THE PROTECTED TREE UNLESS CONDITIONS WARRANT THE FENCE TO BE LOCATED WITHIN THE LIMIT OF BRANCHING. THE PROJECT LANDSCAPE ARCHITECT TO APPROVE THE LOCATION OF ALL FENCING PRIOR TO EXCAVATION.
2. TREE PROTECTION PLANKING SHALL BE INSTALLED AROUND ALL EXISTING TREES AS NOTED ON THIS DRAWING. REFER TO DETAIL ON THIS SHEET.
3. TREE PROTECTION FENCING SHALL BE MAINTAINED TO PROTECT TREES AT ALL TIMES. ANY DAMAGED FENCING SHALL BE IMMEDIATELY REPLACED WHEN DAMAGED.
4. IF TREE PROTECTION FENCING NEEDS TO BE MOVED OR BREACHED DUE TO TEMPORARY CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION ZONE, THE FENCING WILL BE RESET TO ITS ORIGINAL LOCATION IMMEDIATELY AFTER CONSTRUCTION WITHIN THE TREE PROTECTION ZONE IS COMPLETE.
5. DEMOLITION WORK ADJACENT TO PROTECTED TREES SHALL BE PERFORMED BY NON-MECHANICAL METHODS. CONTRACTOR TO PROTECT ROOT MASS AGAINST DAMAGE DURING EXCAVATION. ANY TREE ROOTS THAT ARE DISTURBED, BROKEN, OR CUT SHALL BE PRUNED BACK WITH CLEAN SHARP TOOLS.
6. ALL EXPOSED TREE ROOTS SHALL BE THOROUGHLY IRRIGATED ON A DAILY BASIS AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.
7. ALL WORK TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF EITHER THE OWNER'S REPRESENTATIVE OR THE PROJECT LANDSCAPE ARCHITECT.

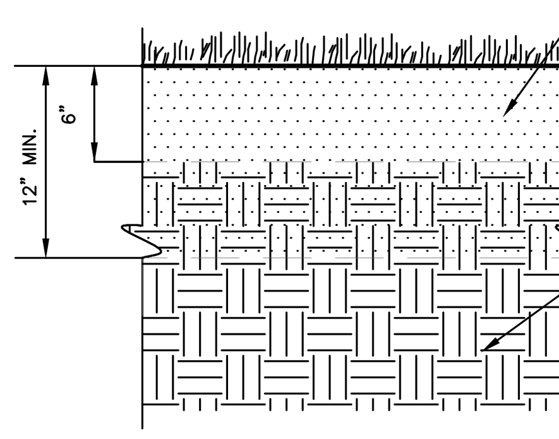


1 TREE PROTECTION FENCE AND PLANKING

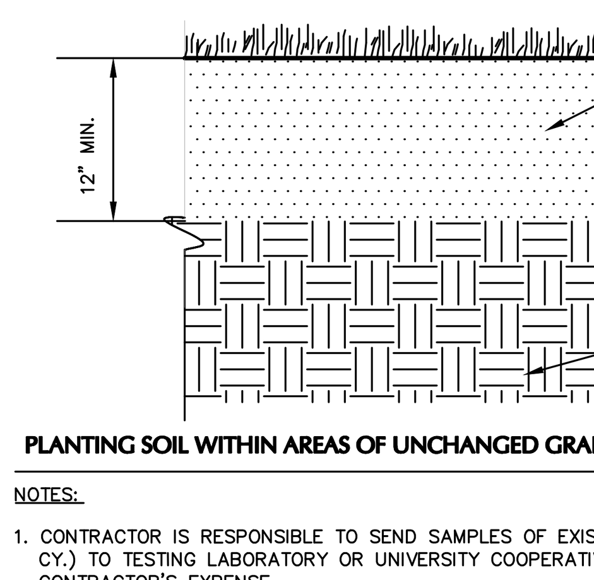
NTS

GENERAL NOTE:

DUE TO GENERAL CONSTRUCTION ACTIVITIES AND ADJACENT SITE COMPACTION REQUIREMENTS, SUBGRADE SOILS WITHIN PROPOSED PLANTING AREAS TEND TO BECOME HIGHLY COMPACTED. IN ORDER TO CREATE A HEALTHY GROWTH MEDIUM TO ALLOW PROPOSED PLANTINGS TO ESTABLISH A VIGOROUS ROOT MASS, THIS SUBGRADE SOIL MUST UNDERGO A RESTORATION PROCESS. IN ADDITION, IMPORTED OR AMENDED EXISTING SOILS SHALL BE MIXED WITH SUBGRADE SOILS WHERE THEY MEET IN ORDER TO CREATE A TRANSITIONAL GRADIENT TO ALLOW FOR PROPER DRAINAGE.



PLANTING SOIL WITHIN AREAS OF CUT OR RAISED GRADE



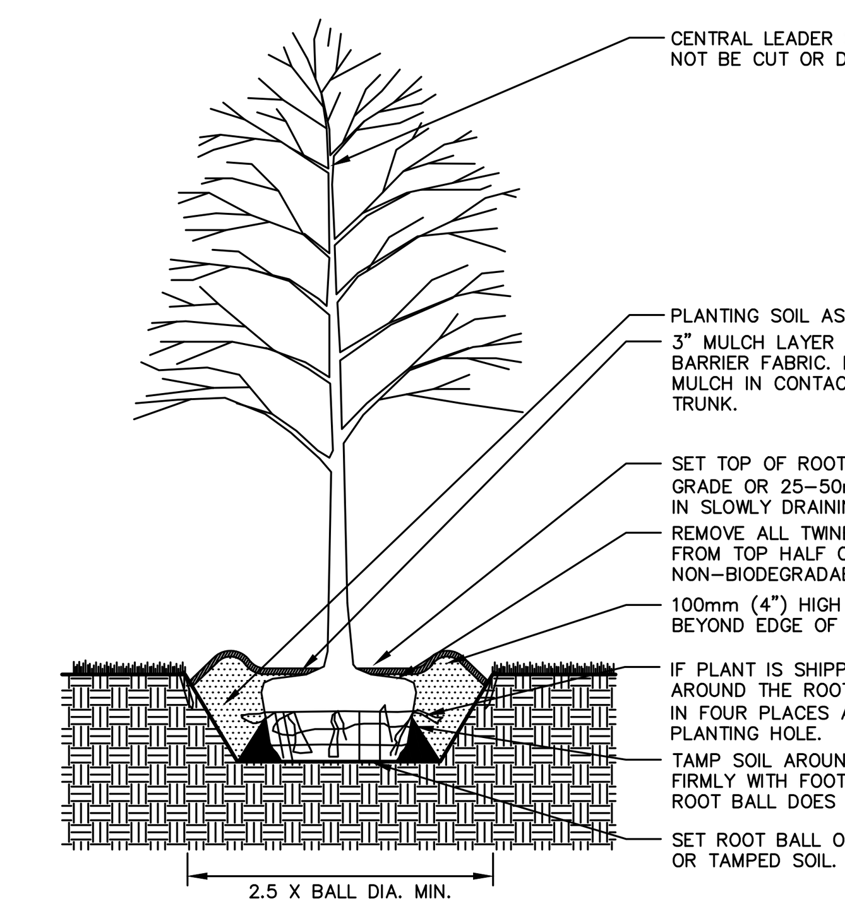
PLANTING SOIL WITHIN AREAS OF UNCHANGED GRADE

NOTES:

1. CONTRACTOR IS RESPONSIBLE TO SEND SAMPLES OF EXISTING SOILS INTENDED FOR USE IN PLANTING AREAS (1 PER 500 CY.) TO TESTING LABORATORY OR UNIVERSITY COOPERATIVE EXTENSION FOR TESTING. ALL TESTING COSTS ARE AT THE CONTRACTOR'S EXPENSE.
2. RECYCLED CRUSHED CONCRETE AND ASPHALT MILLINGS SHALL NOT BE PLACED WITHIN 2'-6" OF FINISH GRADE IN PROPOSED LANDSCAPE AREAS.
3. IMPORTED FILL SHALL CONTAIN NO CONTAMINATION IN EXCEEDENCE OF THE APPLICABLE STATE ENVIRONMENTAL STANDARDS AND MEET THE ENVIRONMENTAL REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF COMPLIANCE PRIOR TO DELIVERY OF ANY FILL TO THE SITE.
4. CONTRACTOR TO LIGHTLY COMPACT ALL PLACED PLANTING SOILS AND RAISE GRADES ACCORDINGLY TO ALLOW FOR FUTURE SETTLEMENT OF PLANTING SOILS (TYP.)
5. NO STONES, WOOD CHIPS, OR DEBRIS LARGER THAN 1/2" SHALL BE ACCEPTABLE WITHIN PLANTING AREAS.

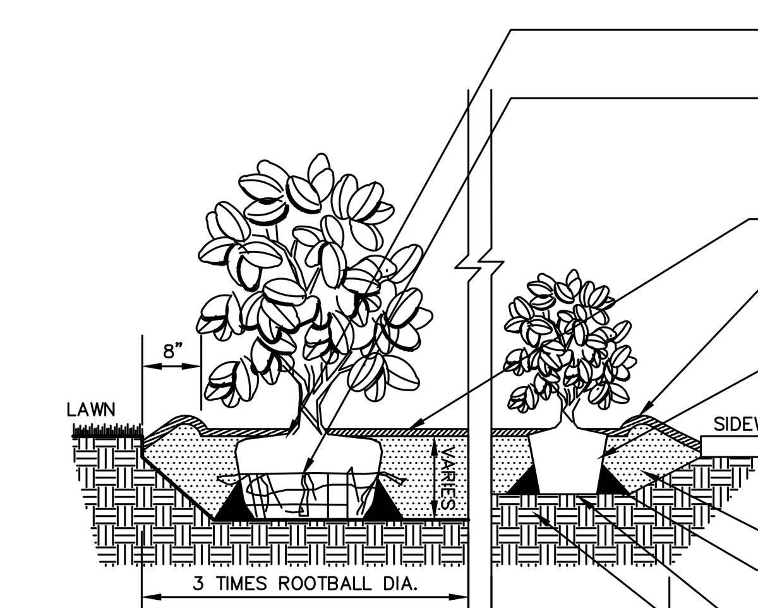
2 PLANTING SOIL

NTS



3 TREE PLANTING

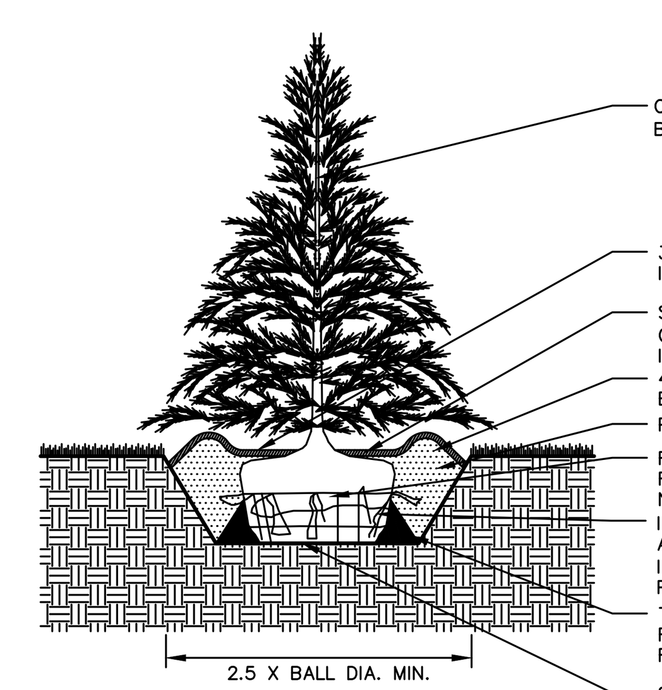
NTS



NOTES:
1. ALL SHRUBS TO BE SET PLUMB.
2. REFER TO LANDSCAPE PLAN FOR SPACING OF INDIVIDUAL PLANTS.
3. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.

4 SHRUB AND ORNAMENTAL GRASS PLANTING

NTS



5 EVERGREEN TREE PLANTING

NTS

Date	Description	No.
01/07/22	REVISED SUBMISSION	2
10/08/21	SCHEMATIC DESIGN DOCUMENTS	1

REVISIONS

SIGNATURE 2/7/2022 DATE SIGNED
MICHAEL SZURA, RLA
NY REGISTERED LANDSCAPE ARCHITECT
Lic. No. 001901

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
PLANTING NOTES AND DETAILS

Project No. 190071901
Date AUGUST 19, 2021
Drawn By MJ
Checked By MH

Drawing No. LP501

LANGAN PROJECT NO. 190071901

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Site Plan Approval\190071901-LP501-0101.dwg Date: 2/7/2022 Time: 12:03 User: idin Style Table: Langan.stb Layout: LL501

APPENDIX 5

STORMWATER POLLUTION PREVENTION PLAN

for

Newburgh Commerce Center
124 Route 17K
Town of Newburgh, NY

Prepared For:

Zachary Zweifler
Development Manager
Scannell Properties
8801 River Crossing Blvd Suite 300
Indianapolis, Indiana 46240

Prepared By:

Langan Engineering, Environmental, Surveying
Landscape Architecture and Geology, D.P.C.
One North Broadway, Suite 910
White Plains, New York 10601

November 29, 2021
Revised February 07, 2022

LANGAN

Project No.: 190071901

November 29, 2021
Revised February 07, 2022

Preparer of the SWPPP

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the SPDES General Permit for Stormwater Discharges from Construction Activity. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil or administrative proceedings.

Name: W. Charles Utschig Jr., PE

Date: February 07, 2022

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1 Executive Summary

This Stormwater Pollution Prevention Plan (SWPPP) and accompanying project plans have been prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (General Permit) latest revision, the *New York State Stormwater Management Design Manual* (*Design Manual*) latest revision, and the *New York State Standards and Specifications for Erosion and Sediment Control* latest revision. The Applicant, Scannell Properties, is proposing to develop ±13.83 acre property at 124 Route 17K, in the Town of Newburgh, NY. The project, Newburgh Commerce Center, is a commercial development that consists of a ±132,000-square-foot single story warehouse with associated car and trailer parking spaces. A private access road from NYS route 17K will provide access to the building. The proposed project is a new development that will maintain existing drainage patterns as much as practical, control the rate of stormwater runoff resulting from the development, and mitigate potential impacts on water quality and erosion generated during and after construction. A combination of runoff reduction techniques and standard stormwater management practices with runoff reduction volume capacity will be used to treat stormwater runoff.

Because the project is located within a City of Newburgh tributary to a Class A stream, the Town of Newburgh's policy to ensure the stormwater management practice is sized to treat 110 percent of the calculated NYSDEC water quality volume.

The pre- and post-development conditions were analyzed using the USDA Soil Conservation Service Publication Technical Release (TR-55) "Urban Hydrology for Small Watersheds", which provides procedures for estimating runoff and peak discharges in small watersheds. The analysis is based upon the watershed areas, land coverage, soil group types, curve numbers (CN), times of concentration (Tc), rainfall distribution type, and rainfall amount for the design storm events. The pre- and post-development peak discharge rates of runoff have been evaluated utilizing stormwater modeling software. An overall comparison of the pre- and post-development peak discharge rates for each of the design storms analyzed is provided in the table below.

Table 1-1: Overall Summary of Peak Discharge Rates

Storm Event	Pre (cfs)	Post (cfs)	Diff (cfs)
1-year	8.79	4.69	-4.10
10-year	26.85	14.90	-11.95
100-year	48.51	33.84	-14.67

The overall comparison of the pre- and post-development stormwater runoff peak discharge rates demonstrates no significant adverse impacts to the design points analyzed. In addition, the erosion control, sediment control, pollution-prevention, and stormwater management measures to be implemented during construction as outlined in this SWPPP and project drawings will minimize soil erosion and control sediment transport off site, and after construction will control the water quality and quantity of stormwater runoff.

2 Project Information

The Applicant is proposing to develop a property in the Town of Newburgh, NY (see Figure 1). Below is a summary of the project information:

Table 2-1: Project Summary

Project Name:	Newburgh Commerce Center
Project Location:	124 Route 17K Town of Newburgh, NY
Property Tax ID No.:	Section 95 Block 1 Lot 58
Property Acreage:	12.5 acres (on-site disturbance)
Municipality:	Town of Newburgh, which is a municipal separate storm sewer system (MS4)
Project Description:	Commercial development that consists of a ±132,000-square-foot single story warehouse with associated car and trailer parking spaces. A private access road from NYS route 17K will provide access to the building.
Estimated Disturbed Area:	13.8 acres, which does require coverage under the SPDES General Permit
Existing Site Conditions:	Woods (fair condition), grass (fair condition), impervious area (structures, pavement) ±0.19 acres of existing impervious area
Proposed Site Conditions:	Woods (fair condition), grass (fair condition), impervious area (structures, pavement) ±7.16 acres of proposed impervious area
Stormwater Management Practices:	Bioretention basins and dry detention ponds
Construction Duration:	From Spring 2022 to Winter 2023, including planned winter shutdowns.

Coverage under the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (General Permit) latest revision will be required (see Appendix A), since the project involves soil disturbance of 1 or more acres. The proposed project is also in a municipal separate storm sewer system (MS4); therefore, the Town of Newburgh will review and accept the SWPPP. The Notice of Intent (NOI) form and signed "MS4 SWPPP Acceptance" form will be submitted to the NYSDEC before construction begins to obtain coverage under the SPDES General Permit. The forms have been provided in Appendix B.

3 Site Conditions

3.1 Soils

The United States Department of Agriculture (USDA) Soil Conservation Service Soil Survey for Orange County has been reviewed. The surficial soil conditions are shown in Figure 2 and are summarized in the table below.

Table 3-1: USDA Soil Data

Map Symbol	Description	Depth to Groundwater (ft.)	Depth to Bedrock (in)	Hydrologic Soil Group
BnB	Bath-Nassau channery silt loams, 3 to 8 percent slopes	2.0 - 4.0	46 - 60	C
Ab	Alden silt loam	0 – 0.5	> 60	D
MdB	Mardin gravelly silt loam, 3 to 8 percent slopes	1.5 – 2.0	> 60	C

1. The depth to groundwater for the Bath component is 24-30 inches, and the Nassau component is more than 80 inches.
2. The depth to bedrock for the Bath component is 40-60 inches, and the Nassau component is 10-20 inches.
3. The hydrological soil group for the Bath component is Type C, and the Nassau component is Type D.
4. The depth to bedrock is not provided for Alden silt loam, Mardin gravelly silt loam, or Erie gravelly silt loam. The depth to bedrock will be assumed to be the same as the surrounding soil groups if no soil-testing information is available.

The Soil Conservation Service defines the hydrologic soil groups as follows:

- **Type A Soils**: Soils having a high infiltration rate and low runoff potential when thoroughly wet. These soils consist mainly of deep, well-drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

- **Type B Soils**: Soils having a moderate infiltration rate when thoroughly wet. These soils consist mainly of moderately deep to deep, moderately well to well-drained soils with moderately fine to moderately course textures. These soils have a moderate rate of water transmission.

- **Type C Soils**: Soils having a low infiltration rate when thoroughly wet. These soils consist mainly of soils with a layer that impedes downward movement of water, and soils with moderately fine to fine texture. These soils have a low rate of water transmission.

- **Type D Soils**: Soils having a very low infiltration rate and high runoff potential when thoroughly wet. These soils consist mainly of clays that have high shrink-swell potential, soils that have a permanent high water table, soils that have a clay pan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very low rate of water transmission.

Soil Borings and infiltration tests were performed by Terracon Consultants in October 2021 to determine the subsurface soil conditions in various locations throughout the property. The

boring/infiltration tests that are applicable to the locations of the stormwater management facilities are INF-3, INF-4, INF-5, and INF-6. Results are summarized below

- Boring INF-3 (located in Bioretention 1) went down to a depth of ±16.2 feet below the existing surface grade, to auger refusal. Water was not encountered. The infiltration rate is 0 in/hr. This location is used to treat hot spot runoff so the bioretention will be designed with a liner and will be non-infiltrating.

- Boring INF-4 (located in Bioretention 1) went down to a depth of ±11 feet below the existing surface grade, to auger refusal. Water was not encountered. The infiltration rate is 0.8 in/hr. This location is used to treat hot spot runoff so the bioretention will be designed with a liner and will be non-infiltrating.

- Boring INF-5 (located in Bioretention 2) went down to a depth of ±9.9 feet below the existing surface grade, to spoon refusal. Water was encountered at a depth of 8.3 feet (el. ±430). The infiltration rate is 0 in/hr. This bioretention location will be designed with a liner and will be non-infiltrating.

- Boring INF-6 (located in Bioretention 2) had an infiltration rate of 0 in/hr. This bioretention location will be designed with a liner and will be non-infiltrating.

All boring logs and infiltration test results are provided in Appendix I.

3.2 Water Resources

A wetland delineation was conducted and no on-site wetlands were identified. Aquifer mapping was reviewed to determine whether the site is over a sole source, primary or principal aquifer. According to the Environmental Protection Agency "Sole Source Aquifers" map, the site is not over a sole-source aquifer. According to the NYSDEC "Primary and Principal Aquifers in New York State" map, the site is not over a primary aquifer or a principal aquifer.

3.3 Floodplains

The Flood Insurance Rate Map (FIRM) was reviewed and the property is not located within a floodplain (see Figure 3).

3.4 Cultural Resources

According to the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) Cultural Resource Information System (CRIS), the property is not within an archaeological sensitive area; not listed or eligible for listing on the state or national registers of historic places; and not adjacent to a place listed or eligible for listing on the state or national registers of historic places (see Figure 4).

4 Stormwater Management Plan

4.1 Stormwater Site Planning

4.1.1 Preservation of Natural Features and Conservation

Preservation of natural features includes techniques to identify and preserve natural areas that can be used to protect water, habitat and vegetative resources. Conservation includes designing elements of the development in a way that the site design takes advantage of a site's natural features, preserves sensitive areas and identifies constraints and opportunities to prevent or reduce negative effects of a development. An evaluation of the preservation of natural features and conservation planning practices is provided in the table below.

Table 4-1: Preservation of Natural Features and Conservation

Practice	Description	Incorporated	Reason
Preservation of Undisturbed Areas	Delineate and place into permanent conservation undisturbed forests, native vegetated areas, riparian corridors, wetlands, and natural terrain.	Considered and Not Applied	While, existing sensitive areas will not be disturbed, they will not be placed into permanent conservation easements. Therefore, credit cannot be taken.
Preservation of Buffers	Define, delineate and preserve naturally vegetated buffers along perennial streams, rivers, shorelines and wetlands.	N/A	N/A
Reduction of Clearing and Grading	Limit clearing and grading to the minimum amount needed for roads, driveways, foundations, utilities and stormwater management facilities.	Considered and applied	The grading has been minimized.
Locating Development in Less Sensitive Areas	Avoid sensitive resource areas such as floodplains, steep slopes, erodible soils, wetlands, mature forests and critical habitats by locating development to fit the terrain in areas that will create the least impact.	N/A	N/A
Open Space Design	Use clustering, conservation design or open space design to reduce impervious cover, preserve more open space and protect water resources.	N/A	This is more applicable to a residential subdivision, which the project is not.
Soil Restoration	Restore the original properties and porosity of the soil by deep till and amendment with compost to reduce the generation of runoff and enhance the runoff reduction performance of post construction practices.	Considered and Applied	Soil restoration will be applied to all pervious areas within the limits of disturbance to restore the original properties and porosity of the soil.

4.1.2 Reduction of Impervious Cover

Reduction of impervious cover includes methods to reduce the amount of rooftops, parking lots, roadways, sidewalks, and other surfaces that do not allow rain to infiltrate into the soil. An evaluation of the reduction of impervious cover techniques is provided in the table below.

Table 4-2: Reduction of Impervious Cover

Practice	Description	Incorporated	Reason
Roadway Reduction	Minimize roadway widths and lengths to reduce site impervious area	Considered and Not Applied	The roadway width cannot be minimized, since the driveway is designed to accommodate a WB67 tractor trailer and turning lanes are required.
Sidewalk Reduction	Minimize sidewalk lengths and widths to reduce site impervious area	Considered and Applied	Sidewalks have been limited to provide areas where pedestrian connectivity is required and not throughout the development
Driveway Reduction	Minimize driveway lengths and widths to reduce site impervious area	Considered and Not Applied	This is more suitable for residential developments. The driveway width cannot be minimized, since the driveway is designed to accommodate a WB67 tractor trailer and turning lanes are required.
Cul-de-sac Reduction	Minimize the number of cul-de-sacs and incorporate landscaped areas to reduce their impervious cover.	Considered and Applied	Cul-de-sacs are not proposed on the site.
Building Footprint Reduction	Reduce the impervious footprint of residences and commercial buildings by using alternate or taller buildings while maintaining the same floor to area ratio.	Considered and Not Applied	The proposed building meets project needs.
Parking Reduction	Reduce imperviousness on parking lots by eliminating unneeded spaces, providing compact car spaces and efficient parking lanes, minimizing stall dimensions, using porous pavement surfaces in overflow parking areas, and using multi-storied parking decks where appropriate.	Considered and Applied	The parking is reduced to the minimum extend practical.

4.1.3 Runoff Reduction Techniques

Green infrastructure techniques use the natural features of the site and promote runoff reduction through micromanaging runoff, promoting groundwater recharge, increasing losses through evapotranspiration, and emulating the existing hydrology. An evaluation of the runoff reduction practices is provided in the table below.

Table 4-3: Runoff-Reduction Practices

Practice	Description	Incorporated	Reason
Conservation of Natural Areas	Retain the pre-development hydrologic and water quality characteristics of undisturbed natural areas, stream and wetland buffers by restoring and/or permanently conserving these areas on a site.	N/A	N/A

Practice	Description	Incorporated	Reason
Sheet flow to Riparian Buffers or Filter Strips	Undisturbed natural areas such as forested conservation areas and stream buffers or vegetated filter strips and riparian buffers can be used to treat and control stormwater runoff from some areas of a development project.	N/A	N/A
Vegetated Open Swale	The natural drainage paths, or properly designed vegetated channels, can be used instead of constructing underground storm sewers or concrete open channels to increase time of concentration, reduce the peak discharge, and provide infiltration.	Considered and Not Applied	There is limited space on-site to incorporate open swales.
Tree Planting/Tree Box	Plant or conserve trees to reduce stormwater runoff, increase nutrient uptake, and provide bank stabilization. Trees can be used for applications such as landscaping, stormwater management practice areas, conservation areas and erosion and sediment control.	Considered and Applied	Shade trees are proposed in car parking lot islands and other landscaping is proposed around property lines that are adjacent to residential uses to enhance screening of the development.
Disconnection of Rooftop Runoff	Direct runoff from residential rooftop areas and upland overland runoff flow to designated pervious areas.	N/A	N/A
Stream Daylighting for Redevelopment Projects	Stream daylight previously culverted/ piped streams to restore natural habitats, better attenuate runoff by increasing the storage size and promoting infiltration.	N/A	This project is not a redevelopment
Rain Garden	Manage and treat small volumes of stormwater runoff using a conditioned planting soil bed and planting materials to filter runoff stored within a shallow depression.	Considered and Not Applied	Similar to bioretention practices; however they do not provide the added benefit of using the portion of the water quality volume that is not reduced to meet the total water quality volume requirement.
Green Roof	Capture runoff through a layer of vegetation and soil installed on top of a conventional flat or sloped roof.	Considered and Not Applied	Based on the size of the building it is not feasible to incorporate a green roof.
Stormwater Planter	Small landscaped stormwater treatment devices that can be designed as infiltration or filtering practices.	Considered and Not Applied	Stormwater planters are more suitable for residential or smaller commercial buildings.
Rain Tank/Cistern	Capture and store stormwater runoff to be used for irrigation systems or filtered and reused for non-contact activities.	Considered and Not Applied	The water source provided by the cisterns is not reliable for firefighting purposes.
Porous Pavement	Pervious types of pavements that provide an alternative to conventional paved surfaces, designed to infiltrate rainfall through the surface.	Considered and Not Applied	There are areas considered to be within a hot spot. Infiltration practices are not suitable for hot spot areas.

4.1.4 Standard Stormwater Management Practices

Standard stormwater management practices (SMPs) are structural practices that are designed to capture and treat the water quality volume. Some of the standard SMPs can also provide runoff reduction or water quantity controls. An evaluation of the standard SMPs is provided in the table below.

Table 4-4: Standard Stormwater Management Practices

Practice	Description	Incorporated	Reason
Stormwater Ponds	Constructed stormwater retention basins that have a permanent pool (or micropool). Runoff from each rain event is detained and treated in the pool. Can be used to treat hot spot runoff if 2 feet minimum separation to seasonally groundwater is provided or if a permeable liner is provided.	Considered and Applied	A stormwater extended detention ponds is proposed.
Stormwater Wetlands	Constructed stormwater wetlands that are structural practices that incorporate wetland plants to store and treat runoff. Can be used to treat hot spot runoff if 2 feet minimum separation to seasonally groundwater is provided.	Considered and Not Applied	Not applied. Other practices are proposed.
Stormwater Infiltration	Excavated trench or basin used to capture and allow for infiltration into the surrounding soils from the bottom and sides of the basin or trench. Also, a standard stormwater practice that also provides runoff reduction volume capacity.	Considered and Not Applied	There are areas considered to be within a hot spot. Infiltration practices are not suitable for hot spot areas.
Underground Infiltration System	An underground perforated piping or chambers used to capture and allow for infiltration into the surrounding soils from the bottom and sides. Also, a standard stormwater practice that also provides runoff reduction volume capacity.	Considered and Not Applied	There are areas considered to be within a hot spot. Infiltration practices are not suitable for hot spot areas.
Stormwater Filtering Systems – Sand or Organic	Aboveground or underground multi-chamber practice designed to treat stormwater runoff through filtration using a sediment forebay, primary filter media and underdrain. Can be used to treat hot spot runoff if a permeable liner is provided.	Considered and Not Applied	Not applied. Other practices are proposed.
Stormwater Filtering Systems – Bioretention	Shallow basin or landscaped area that uses engineered soils and vegetation to capture and treat runoff. Can be used to treat hot spot runoff if a permeable liner is provided. Also, a standard stormwater practice that also provides runoff reduction volume capacity.	Considered and Applied	Bioretention practices are proposed to capture and treat the stormwater runoff.
Stormwater Open Channel Systems - Dry Swale	Vegetated channel that captures and treats runoff within dry cells formed by check dams or other means. Can be used to treat hot spot runoff if a	Considered and Not Applied	There is limited space on-site to incorporate open swales.

Practice	Description	Incorporated	Reason
	permeable liner is provided. Also, a standard stormwater practice that also provides runoff reduction volume capacity.		
Stormwater Open Channel Systems - Wet Swale	Vegetated channel that captures and treats runoff within wet cells formed by check dams or other means.	Considered and Not Applied	There is limited space on-site to incorporate open swales.
Hydrodynamic Separator	Proprietary practice used to provide pretreatment in new development and treatment in redevelopment.	Considered and Applied	Hydrodynamic separators are proposed to provide pretreatment where above ground pretreatment cannot be accomplished.

4.2 Stormwater Hotspots

A stormwater hotspot is defined as a land use or activity that generates higher concentrations of hydrocarbons, trace metals or toxicants than are found in typical stormwater runoff. For projects having stormwater hotspot runoff, non-infiltration type practices have to be used for stormwater management, treatment, and runoff reduction. Bioretention practices can accept stormwater hotspot runoff as long as an impermeable liner is provided.

The fleet storage and loading dock areas have been identified as stormwater hotspots, which is consistent with the Town of Newburgh's determination. The rooftop and car parking area runoff is being separately collected from the fleet storage and loading docks, if possible. The collected stormwater runoff from the fleet storage and loading dock areas will be conveyed to bioretention practices that will have an impermeable liner at the bottom while the other areas will be conveyed to a bioretention practice that is not lined. Both lined and unlined bioretention practices will have underdrain systems (refer to details on site plans).

4.3 Hydrologic Analysis

4.3.1 Drainage Patterns

The site is located within the Quassaick Creek Watershed, as shown on the Orange County Water Authority Quassaick Creek Watershed Map. The Quassaick Creek is an important tributary of the Hudson River.

Looking at existing drainage patterns, stormwater runoff from a majority of the site, generally flows east overland, through an adjacent property, and into a NYSDEC class A stream, which is tributary to Brookside Pond. The class A stream flows through a 4'x7' Box Culvert under Route 17K, east of the project site (DP-1).

A small portion of stormwater runoff from the site flows west overland into a 60-inch concrete pipe, which flows underneath Route 17K, west of the project site (DP-2). The concrete pipe discharges into a NYSDEC class A stream, which is also a tributary to Brookside Pond.

In the proposed conditions, stormwater runoff outside the development will continue to flow overland in the same direction as in the existing conditions. Stormwater runoff within the development will be collected and conveyed to the NYSDEC class A steam at DP-1.

4.3.2 Stormwater Modeling

The USDA Soil Conservation Service Publication Technical Release (TR-55) "Urban Hydrology for Small Watersheds" has been used to analyze the pre- and post-development rainfall runoff rates and volumes. Watershed areas, curve numbers (CN), and times of concentration (T_C) were calculated for each contributing watershed. The curve number is a land-sensitive coefficient that dictates the relationship between total rainfall depth and direct storm runoff. Based on the land coverage and soil group types, the average CN has been determined for each of the subcatchments for both the existing and proposed conditions.

The T_C is defined as the time for runoff to travel from the hydraulically most distant point in the watershed to a Design Point (DP). Values of the time of concentration were determined for both the pervious and impervious area of each watershed for both the existing and proposed conditions based on land cover and slope of the flow path using methods outlined in TR-55. As per TR-55, the minimum T_C used in 0.1 hours (for 6 minutes).

An overall watershed boundary was developed for the pre- and post-development conditions (see Figure 5 and Figure 6, respectively). The overall watershed was broken down into smaller watersheds, or subcatchments to allow for analysis of runoff conditions at several locations. Each of these locations is defined as a Design Point (DP) to compare the proposed development to the existing conditions. Descriptions of each of the selected design points are provided below:

- Design Point 1: 4-foot x 7-foot Box Culvert Under Route 17K - East of Property
- Design Point 2: 60-inch Concrete Pipe Culvert Under Route 17K - West of Property

Rainfall data used in the modeling and analysis was obtained from the isohyet maps provided in the *Design Manual* and the Northeast Regional Climate Center (NRCC). The 1-, 10-, and 100-year 24-hour storm events are typically analyzed in accordance with the *Design Manual*. The NRCC rainfall data is as follows:

Table 4-5: NRCC Rainfall Data

Storm Event	24-Hour Rainfall
1-year	2.60 inches
10-year	4.70 inches
100-year	8.37 inches

Chapter 157 "Stormwater Management" of the Town of Newburgh Code outlines the rainfall data for the 1-, 10-, and 100-year 24-hour storm events, which are to be used in the hydrologic analysis. The Town of Newburgh rainfall data is as follows:

Table 4-6: Town of Newburgh Rainfall Data

Storm Event	24-Hour Rainfall
1-year	2.9 inches
10-year	5.5 inches
100-year	8 inches

Comparing the rainfall data from the NRCC and the Town of Newburgh Code shows the rainfall data values were higher than the NRCC values, with the exception of the 100-year 24-hour storm event. Therefore, the NRCC rainfall amount for the 100-year 24-hour storm event will be used instead of the Town of Newburgh Code rainfall data since it will be more conservative.

A Type III rainfall distribution was used to evaluate the pre- and post-development stormwater runoff conditions for the 1-, 10-, and 100-year 24-hour storm events. The rainfall data used in the stormwater management design and analysis is provided in the table below.

Table 4-7: Rainfall Data

Storm Event	24-Hour Rainfall
90th Percentile (1&2)	1.50 inches
1-year	2.9 inches
2-year	3.16 inches
10-year	5.5 inches
100-year	8.37 inches

1. The 90th percentile 24-hour rainfall value was taken from the *New York State Stormwater Management Design Manual*. The other 24-hour rainfall values are taken from NRCC.
2. The 90th percentile 24-hour rainfall amount was used to calculate the required total water quality volume.
3. The 2-year 24-hour rainfall amount was used to calculate the sheet flow component in the time of concentration.

The rainfall data used in the stormwater management design and analysis is provided in Appendix E. The results of the computer modeling used to analyze the pre- and post-development watershed conditions are provided in Appendix F and Appendix G, respectively.

4.3.3 Water Quality Control

Because the project is located within a City of Newburgh tributary to a Class A stream, the Town of Newburgh's policy to ensure the stormwater management practice is sized to treat 110 percent of the calculated NYSDEC water quality volume. The water quality volumes have been determined based on the methodology described in the Design Manual. The total water quality volume is provided in the table below.

Table 4-8: Total Water Quality Volume

Subcatchment	Area (ac)	Impervious Area (ac)	110% WQ_v (cf)
101	8.57	5.82	31,656
102	1.58	1.01	5,522
Total	**10.15**	**6.83**	**37,178**

Detailed design calculations have been provided in Appendix E.

4.3.4 Pretreatment

Pretreatment is required prior to a water quality best management practice. Due to site constraints, pretreatment will be provided through proprietary hydrodynamic separators. Three hydrodynamic separators are proposed on this site, which have been sized to pretreat the WQv storm and to bypass the 100-yr storm safely. Refer to the grading and drainage plan (Sheet CG201) for pretreatment unit locations. Refer to the Cascade Separator (CS) Water Quality Unit Detail on Sheet CS503, for corresponding unit model numbers.

4.3.5 Runoff Reduction Volume

Runoff reduction is achieved by infiltration, groundwater recharge, reuse, recycle, evaporation and evapotranspiration of 100 percent of the post-development water quality volumes to replicate pre-development hydrology by maintaining pre-construction infiltration, peak runoff flow, discharge volume, and minimizing concentrated flow by using runoff-control techniques to provide treatment in a distributed manner before runoff reaches the collection system. The runoff-reduction-volume techniques that were used to reduce the total required water quality volume are in the table below.

Table 4-9: Implemented Runoff Reduction Volume Techniques

Techniques/ Practices	RRv Reduction Method	Reduction Amount
Bioretention Practice	Standard SMP with RRv capacity	40% of the WQv provided by practice (with underdrains)

After applying the runoff-reduction-volume techniques, the total required water quality volume was not reduced 100 percent. The minimum required runoff reduction volume was determined to confirm that at least the minimum percent of the total water quality volume has been reduced. The total provided runoff reduction volume was greater than the minimum required runoff reduction volume. Therefore, the minimum required runoff-reduction volume has been met. Detailed design calculations have been provided in Appendix E.

4.3.6 Water Quantity Control

Due to site constraints such as poor infiltrating soils, high bedrock, high groundwater, and limited open space, water quantity will be provide on top of the bioretention practices. A comparison of the required and provided channel protection volume is provided in the table below.

Table 4-10: Summary of Channel Protection Volume

Water Quantity Parameter	Required (cf)	Provided (cf)
Channel Protection Volume	40,424	194,190

Detailed channel protection volume calculations have been provided in Appendix E.

A comparison of the pre- and post-development peak discharge rates is provided in the table below.

Table 4-11: Summary of Peak Discharge Rates

Storm Event	Design Point	Pre (cfs)	Post (cfs)	Diff (cfs)

1-year	1	6.56	4.31	-2.25
	2	2.23	0.38	-1.85
10-year	1	20.20	13.72	-6.48
	2	6.65	1.18	-5.47
100-year	1	36.59	31.70	-4.89
	2	11.92	2.14	-9.78

Comparison of the peak discharge rates for pre- and post-development watershed conditions demonstrates that the peak rate of runoff from the proposed development will not be increased. The pre- and post-development stormwater models have been provided in Appendix F and Appendix G, respectively.

4.4 Hydraulic Analysis

Stormwater runoff from the proposed development will be collected and conveyed to the proposed stormwater management facilities by the closed pipe-network system. A hydraulic analysis of the proposed stormwater collection system will be performed to verify that the system has the capacity to convey the stormwater runoff associated with the 25-year storm. A rainfall intensity of 6.89 inches per hour will be used for the 25-year storm. The minimum time of concentration of six minutes was used for each of the drainage areas to be conservative.

5 Erosion and Sediment Control Plan

5.1 Construction Sequencing Schedule and Phasing

It is anticipated that the project will be completed in one phase. The Applicant is requesting written approval from the Town of Newburgh, which is an MS4, to disturb more than 5 acres of soil at any one time to obtain the necessary fill to construct sections of the project while balancing the site earthworks. This disturbance will reduce the need to import and export material from off site.

5.2 Erosion and Sediment Control Measures

Temporary erosion and sediment control measures to be used during construction generally include the following:

- **Stabilized Construction Access** - Before construction, the stabilized construction access shall be installed to reduce the tracking of sediment onto adjacent roadways. Construction traffic must enter and exit the site at the stabilized construction access. The stabilized construction access shall be maintained in good condition to control tracking of sediment onto rights-of-way or streets. When necessary, the placement of additional aggregate atop the filter fabric shall be done to maintain the minimum thickness. Sediments and soils spilled, dropped, or washed onto the public rights-of-way shall be removed immediately.

- **Dust Control** - Water trucks or other approved water source shall be used, as needed, during construction to reduce dust generated on the site. Dust control shall be provided

by the general contractor to a degree acceptable to the owner/operator, and in compliance with the applicable local and state dust control requirements.

- **Temporary Soil Stockpile** - Materials, such as topsoil, shall be temporarily stockpiled (if necessary) on site during construction. Stockpiles shall be located away from storm drainage, water bodies or courses, and shall be properly protected from erosion in accordance with the NYSDEC standard detail.

- **Silt Fencing** - Before initiation of and during construction, silt fencing shall be established along the perimeter of areas to be disturbed as a result of the construction up gradient of water courses or adjacent properties. These barriers may extend into non-impact areas to adequately protect adjacent lands. Clearing and grubbing shall be performed only as necessary for the installation of the sediment control barrier. To maximize effectiveness of the silt fencing, daily inspections shall be performed by site personnel. Maintenance of the fence shall be performed as needed and when directed by the Qualified Inspector.

- **Temporary Seeding** - Within seven days after construction ceases on any particular area of the site, all disturbed areas where there shall be no construction for longer than 14 days shall be temporarily seeded and mulched to minimize erosion and sediment loss. Other stabilization methods maybe approved by the Qualified Inspector.

- **Inlet Protection** – Inlet protection shall be installed around existing and proposed catch basins (once installed) to keep sediment from entering the storm-sewer system. During construction, the inlet protection measures shall be replaced as needed to ensure proper function of the structure.

- **Check Dams** - Check dams shall be installed within drainage ditches to reduce the velocity of stormwater runoff, promote settling of sediment, and reduce sediment transport off site. The stone check dams shall be inspected at least every seven days. Damage shall be repaired upon discovery. If significant erosion has occurred between structures, a liner of stone or other suitable material shall be installed in that part of the channel. Sediment accumulated behind the stone check dams shall be removed to allow the channel to drain through the stone check dam and prevent large flows from carrying sediment over or around the dam. Stones shall be replaced to maintain the design cross section of the structures.

- **Temporary Sediment Basins and Traps** - Temporary sediment basins and traps shall be constructed to intercept sediment laden runoff, reduce the amount of sediment leaving the disturbed areas, and protect drainage ways, properties, and rights-of-way. Projects that have proposed stormwater ponds can be used as temporary sediment basins during construction. Temporary sediment basins and traps shall be inspected at least every seven days. All damage caused by soil erosion and construction equipment shall be repaired upon discovery. Accumulated sediment shall be removed from the sediment basin or trap when it reaches 50 percent of the design capacity and must not exceed 50 percent. Sediment must not be placed downstream from the embankment, adjacent to a stream, or floodplain.

- **Dewatering** - Dewatering, if required, must not be discharged directly into wetlands, water courses, water bodies, and storm sewer systems without appropriate protection

or authorizations. Proper methods and devices shall be used to the extent permitted by law, such as pumping water into temporary sediment basins, providing surge protection at the inlet and outlet of pumps, floating the intake of the pump, or other methods to minimize and retain the suspended solids.

Permanent erosion and sediment control measures to be used after construction generally include the following:

- **Establish Permanent Vegetation** - Disturbed areas not covered by impervious surfaces shall be seeded in accordance with the accompanying plans. The type of seed, mulch, and maintenance measures shall be followed. All areas at final grade shall be seeded and mulched within 14 days after completion of the major construction. All seeded areas shall be protected with mulch or hay. Final site stabilization is achieved when soil-disturbing activities have been completed and a uniform, perennial vegetative cover with a density of 80 percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on the disturbed unpaved areas and areas not covered by permanent structures.

- **Rock Outlet Protection** - Rock outlet protection shall be installed at the locations as shown on the accompanying plans. The installation of rock outlet protection will reduce the depth, velocity, and energy of water, such that the flow will not erode the receiving water course or water body.

Specific erosion and sediment control measures, inspection frequency, and remediation procedures are provided in the subsequent sections and on the accompanying project plans.

5.3 Pollution Prevention Controls

Good housekeeping practices are designed to maintain a clean and orderly work environment. Good housekeeping measures shall be maintained throughout the construction process by those parties involved with the direct care and development of the site. The following measures shall be implemented to control the possible exposure of harmful substances and materials to stormwater runoff:

1. Material resulting from the clearing and grubbing operation shall be stockpiled away from storm drainage, water bodies or watercourses and surrounded with adequate erosion and sediment control measures. Soil stockpile locations shall be exposed no longer than 14 days before seeding.

2. Equipment maintenance areas shall be protected from stormwater flows and shall be supplied with appropriate waste receptacles for spent chemicals, solvents, oils, greases, gasoline, and any pollutants that might contaminate the surrounding habitat or water supply. Equipment wash-down zones shall be within areas draining to sediment control devices.

3. The use of detergents for large-scale (e.g., vehicles, buildings, pavement surfaces) washing is prohibited.

4. Material storage locations and facilities (e.g., covered storage areas, storage sheds) shall be on-site and shall be stored according to the manufacturer's standards in a dedicated staging area. Chemicals, paints, solvents, fertilizers, and other toxic material shall be stored in waterproof containers. Runoff containing such materials shall be collected, removed from the site, treated and disposed of at an approved solid waste or chemical disposal facility.

5. Hazardous spills shall be immediately contained to prevent pollutants from entering the surrounding habitat or water supply. Spill Kits shall be provided on site and shall be displayed in a prominent location for ease of access and use. Spills greater than 5 gallons shall be reported to the NYSDEC Response Unit at 1-800-457-7362. In addition, a record of the incidents or notifications shall be documented and attached to the SWPPP.

6. Portable sanitary waste facilities shall be provided on site for workers and shall be properly maintained.

7. Dumpsters or debris containers shall be on site and shall be of adequate size to manage respective materials. Regular collection and disposal of wastes must occur as required.

8. Temporary concrete washout facilities shall be a minimum of 50 feet from storm drain inlets, open drainage facilities, and watercourses. Each facility should be away from construction traffic or access areas to prevent disturbance or tracking. A sign shall be installed adjacent to each washout facility to inform concrete equipment operators to use the proper facilities. When temporary concrete washout facilities are no longer required for the work, the hardened concrete shall be removed and disposed of. Materials used to construct the temporary concrete washout facilities shall be removed and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities shall be backfilled or repaired, seeded, and mulched for final stabilization. Wastewater discharges from washout of concrete is prohibited.

9. Non-stormwater components of site discharge shall be clean water. Water used for construction, which discharges from the site, must originate from a public water supply or approved private well. Water used for construction that does not originate from an approved public supply must not discharge from the site.

10. Discharges from dewatering activities, including discharges from dewatering trenches and excavations, shall be managed by appropriate control measures.

11. Wastewater discharges from washout and cleanout of stucco, paint, form-release oils, curing compounds, and other construction materials is prohibited.

5.4 Soil Stabilization and Restoration

Stabilization

In areas where soil disturbance has temporarily or permanently ceased, the application of soil stabilization measures shall be initiated by the end of the next business day and completed within 14 days from the date the current soil disturbance ceased. The soil-stabilization measures shall

be in conformance with the *New York State Standards and Specifications for Erosion and Sediment Control*, latest edition.

For construction sites authorized to disturb more than 5 acres of soil at any one time, the application of soil stabilization measures shall be initiated by the end of the next business day and completed within seven days from the date that current soil disturbance ceased. The soil-stabilization measures shall be in conformance with the *New York State Standards and Specifications for Erosion and Sediment Control*, latest edition. Additional site-specific practices shall be installed as needed to protect water quality.

Restoration

Soil restoration shall be performed in the disturbed areas. The soils shall be restored in accordance with the table below.

Table 5-1: Soil Restoration

Type of Soil Disturbance	Soil Restoration Requirement
No Soil Disturbance (e.g., preservation of natural features)	Restoration not required.
Minimal Soil Disturbance (e.g., clearing and grubbing)	Restoration not required.
Areas where top soil is stripped only (e.g., no change in grade)	Aerate and apply 6 inches of topsoil in Type C and D soils
Areas of cut or fill	Apply full soil restoration in Type C and D soils
Heavy traffic areas on site (especially in 5 to 25 feet around buildings, but not within a 5-foot perimeter around foundation walls)	Apply full soil restoration (see below).
Areas where runoff reduction or infiltration practices are applied	Restoration not required, but can be applied to enhance soil infiltration.
Redevelopment projects	Soil restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area.

Full Soil Restoration

Before applying full soil restoration, all construction, including construction equipment and material storage, site cleanup and trafficking, should be finished and the site closed to further disturbance. Full soil restoration should be performed with a heavy-duty agricultural-grade deep ripper, deep angled-leg subsoiler, or equivalent machinery to achieve de-compaction.

Full soil restoration is implemented in a two-phase process:

1. Deep rip the affected thickness of exposed subsoil, aggressively fracturing it before the protected topsoil is reapplied on the site.
2. De-compact simultaneously through the restored topsoil layer and upper half of the affected subsoil.

Low to Moderate Subsoil Moisture

The disturbed soils are returned to rough grade and the following is applied:

1. Apply 3 inches of compost over the subsoil.
2. Till compost a minimum of 12 inches into the subsoil using a cat-mounted ripper, tractor-mounted disc, or tiller mixing and circulating air and compost into subsoils.
3. Rock-pick until uplifted stone and rock of 4 inches or larger size are cleaned off the site. All construction material and foreign debris and existing root masses shall be removed from proposed planting areas.
4. Apply 6 inches of topsoil. Newly installed planting soils shall be mixed with existing soils where they meet in order to create a transitional gradient to allow for proper drainage.
5. Install plants and vegetation in accordance with the Landscaping Plan.

6 Stormwater Pollution Prevention Plan Implementation

6.1 Certification Statements

Before starting construction, the owner/operator, contractors, and subcontractors are required to sign the certification statements provided in Appendix C.

The owner/operator must sign a copy of the Owner's/Operator's certification before submitting the Notice of Intent. The owner/operator acknowledges that the SWPPP has been developed and will be implemented as the first element of construction and agrees to comply with the terms and conditions of the general permit for which the Notice of Intent is being submitted.

The owner/operator must identify the contractors and subcontractors that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices; and constructing the post-construction stormwater management practices included in the SWPPP. The contractors and subcontractors must identify at least one trained individual from their company who will be responsible for implementation of the SWPPP. This person will be known as the trained contractor. At least one trained contractor will be on site daily when soil disturbing activities are being performed. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has begun, they must also sign the certification statement and identify their responsibilities.

6.2 Pre-Construction Meeting

Before beginning construction, the owner/operator must set up a pre-construction meeting with the Town of Newburgh representative, qualified professional, qualified inspector, contractors, and subcontractors. The primary purpose of the pre-construction meeting is to discuss the responsibilities of each party as they relate to the implementation of the SWPPP and to clarify any questions.

6.3 Construction Site Log

The owner/operator must maintain a copy of the following, including but not limited to: General Permit, signed NOI, signed MS4 Acceptance form, NOI Acknowledgement Letter, SWPPP, signed certification statements, and inspections reports. The documents must be maintained in

a secure location on site. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.

6.4 Construction Inspections and Maintenance

6.4.1 Contractor Maintenance Inspection Requirements

The trained contractor must inspect the erosion and sediment control practices and pollution-prevention measures to verify that they are being maintained in effective operating condition. The inspections will be conducted as follows:

- For construction sites where soil disturbance is on-going, the trained contractor must inspect the measures within the active work area daily. If deficiencies are identified, the contractor will begin implementing corrective actions within one business day and must complete the corrective actions by the end of the day.

- For construction sites where soil disturbance activities have been temporarily suspended (e.g., winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the trained contractor can stop conducting the maintenance inspections. The trained contractor must conduct the daily maintenance inspections as soil disturbance resumes.

- For construction sites where soil disturbance has been shut down with partial project completion, the trained contractor can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed part of the project have been constructed in conformance with the SWPPP and are operational.

6.4.2 Qualified Inspector Inspection Requirements

The owner/operator must have a Qualified Inspector conduct site inspections to verify the stability and effectiveness of protective measures and practices employed during construction. The site inspections will be conducted as follows:

- For construction sites where soil disturbance is ongoing, the Qualified Inspector must conduct a site inspection at least once every seven days.

- For construction sites where soil disturbance is ongoing and the owner/operator has received authorization to disturb greater than 5 acres, the Qualified Inspector must conduct at least two site inspections every seven days. The two site inspections shall be separated by a minimum of two days.

- For construction sites where soil disturbance activities have been temporarily suspended (e.g., winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the Qualified Inspector must conduct a site inspection at least once every 30 days. The owner/operator must notify the NYSDEC or MS4 in writing before reducing the frequency of the inspections.

- For construction sites where soil disturbance activities have been shut down with partial project completion, the Qualified Inspector can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices are operational. The owner/operator must notify the NYSDEC or the MS4 in writing before the shutdown.

All erosion and sediment control inspections shall be performed in accordance with this SWPPP, accompanying project plans, latest revision of *New York State Standards and Specifications for Erosion and Sediment Control,* and procedures outlined in Appendix H of the latest revision of the *New York State Stormwater Management Design Manual*. Inspection reports must identify and document the maintenance of the erosion and sediment control measures. A Example inspection report has been provided in Appendix D.

Specific maintenance components, schedule frequency, inspection parameters and remediation procedures are provided on the accompanying project plans. Any adjustments or modifications to the maintenance plan shall be noted in the inspection reports and submitted to the Town for approval.

7 Termination of Coverage

The owner/operator may terminate coverage when:

a. Total project completion has occurred.
b. A planned shutdown with partial project completion has occurred.
c. Property ownership changes or when there is a change in operational control over the construction plans and specifications; and the new owner/operator has obtained coverage under the SPDES General Permit.
d. Coverage under an alternative SPDES general permit or an individual SPDES permit has been obtained.

The completed NOT must be submitted to the NYSDEC to cancel coverage. A blank copy of the NOT has been provided in Appendix B.

8 Post-Construction Requirements

8.1 Record Retention

Following construction, the owner/operator must retain a copy of the signed NOI, signed MS4 SWPPP Acceptance, NOI Acknowledgement Letter, SWPPP, project plans, and any inspection reports that were prepared in conjunction with the General Permit for at least five years from the date that the NYSDEC receives a complete NOT.

8.2 Inspection and Maintenance

Post-construction inspections and maintenance will be performed by Scannell Properties. Inspections and maintenance for the various site components and stormwater management facilities shall be performed in accordance with the accompanying project plans and this SWPPP. Detailed post-construction inspections and maintenance procedures are provided in Appendix H.

9 Conclusion

This Stormwater Pollution Prevention Plan has been developed in accordance with the requirements of the Town of Newburgh and the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Phase II technical guidelines. This SWPPP identifies the erosion control, sediment control, pollution-prevention, and stormwater management measures to be implemented during construction to minimize soil erosion and control sediment transport off site, and after construction to control and treat stormwater runoff from the developed site.

In the opinion of the SWPPP preparer, the proposed project will not have adverse impacts if the measures for erosion control, sediment control, pollution prevention, and stormwater management measures are properly constructed and maintained in accordance with the requirements outlined herein and on the accompanying project plans.

Figures

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SCALE: 1 INCH = 250 FEET

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Project
NEWBURGH COMMERCE CENTER
BLOCK No. 1, LOT No.58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
SITE LOCATION MAP

Project No. 190071901
Date NOVEMBER 8, 2021
Drawn By JN
Checked By CZ

Drawing No.
FG01
Sheet 1 of 1

Filename: \\langan.com\data\WPW\data9\190071901\Project Data\CAD\01\SheetFiles\Figures\FG01-190071901-CS101-0101.dwg Date: 11/8/2021 Time: 17:42 User: lmcmahon Style Table: Langan.stb Layout: FG01

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SCALE: 1 INCH = 500 FEET

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Project
NEWBURGH COMMERCE CENTER
BLOCK No. 1, LOT No.58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
SOILS MAP

Project No. 190071901
Date NOVEMBER 8, 2021
Drawn By JN
Checked By CZ

Drawing No. FG02
Sheet 1 of 1

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Figures\FG02-190071901-CS101-0101.dwg Date: 11/8/2021 Time: 17:44 User: lmcmahon Style Table: Langan.stb Layout: FG02

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1000 0 500 1000

SCALE: 1 INCH = 1000 FEET

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

One North Broadway, Suite 910
White Plains, NY 10601

T: 914.323.7400 F: 914.323.7401 www.langan.com

Project

NEWBURGH COMMERCE CENTER

BLOCK No. 1, LOT No.58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title

FLOOD INSURANCE RATE MAP

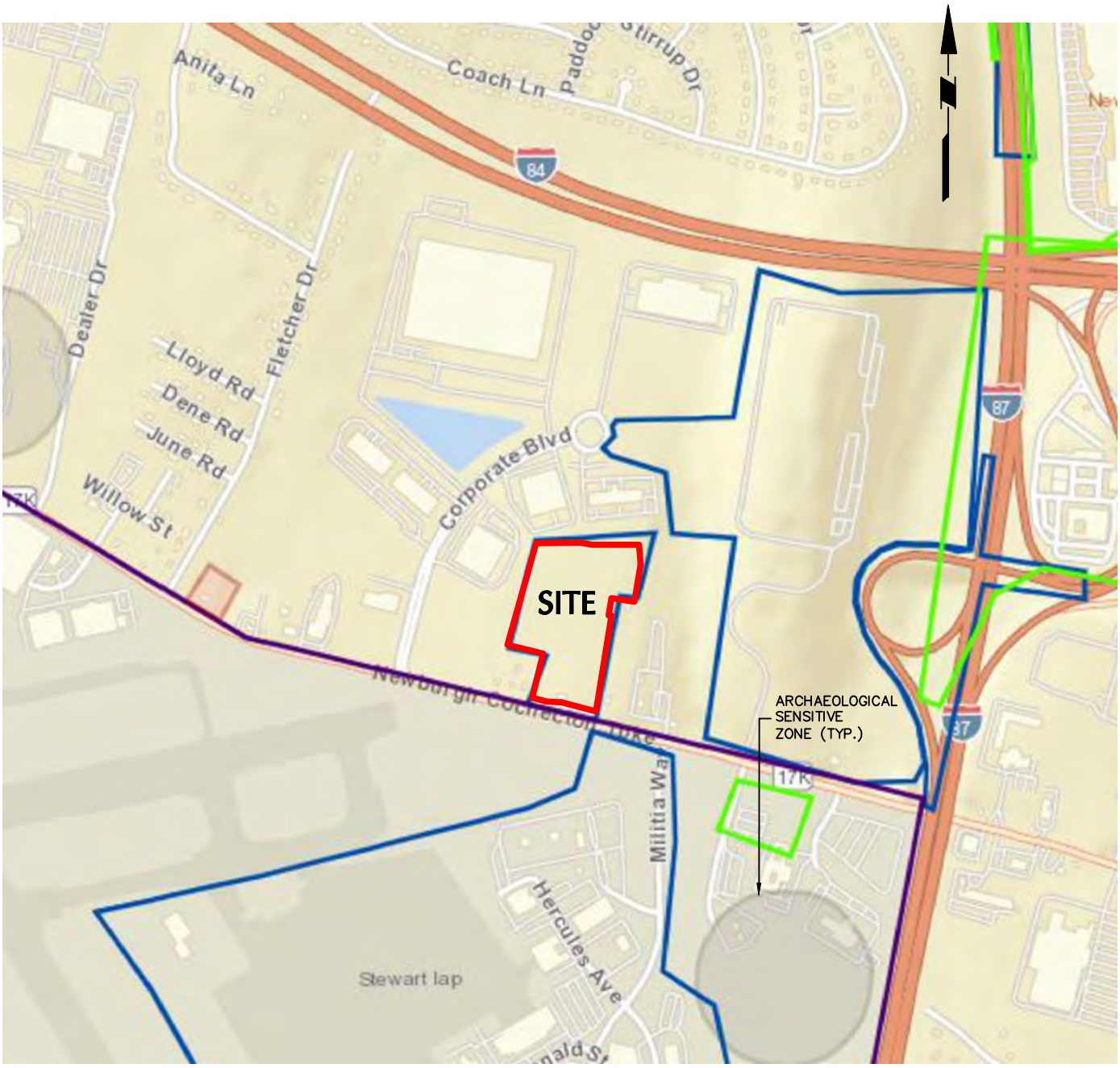
Project No.	190071901
Date	NOVEMBER 8, 2021
Drawn By	JN
Checked By	CZ

Drawing No.

FG03

Sheet 1 of 1

Filename: \\langan.com\data\WPW\data9\190071901\Project Data\CAD\01\SheetFiles\Figures\FG03-190071901-CS101-0101.dwg Date: 11/8/2021 Time: 17:41 User: lmcmahon Style Table: Langan.stb Layout: FG03



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SCALE: 1 INCH = 500 FEET

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Project
NEWBURGH COMMERCE CENTER
BLOCK No. 1, LOT No.58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
CULTURAL RESOURCE

Project No. 190071901
Date NOVEMBER 8, 2021
Drawn By JN
Checked By CZ

Drawing No.
FG04
Sheet 1 of 1

Filename: \\langan.com\data\WPW\data9\190071901\Project Data\CAD\01\SheetFiles\Figures\FG04-190071901-CS101-0101.dwg Date: 11/8/2021 Time: 17:46 User: lmcmahon Style Table: Langan.stb Layout: FG04

CORPORATE BOULEVARD

NYS ROUTE 17K NEWBURGH - COCHECTON TURNPIKE

DP–2

60-INCH Ø
CONCRETE PIPE

D
C
B
A
20

A
B
C
10

D
E

DP–1

4-FT X 7-FT
BOX CULVERT

NOTES

1. EXISTING SITE FEATURES, TOPOGRAPHIC, AND UTILITY INFORMATION SHOWN HEREON ARE FROM THE ALTA/NSPS LAND TITLE SURVEY "LANDS OWNED BY RED OAK SOS LLC" TAX PARCEL 95–1–58, PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C., DATED OCTOBER 7, 2021.
2. ADDITIONAL OFFSITE TOPOGRAPHIC AND UTILITY INFORMATION, NOT WITHIN THE BOUNDARY REFERENCED IN NOTE 1, IS TAKEN FROM "TOPOGRAPHIC AND BOUNDARY SURVEY OF SECTION 95 BLOCK 1 LOT 4.12, LOT 54.1, LOT 69.25 AND LOT 49.12" DATED JULY 17, 2015, LAST REVISED AUGUST 24, 2015. OFF–SITE DRAINAGE STRUCTURES ARE FROM SUPPLIED MAPPING, AS PREPARED BY LANGAN ENGINEERING.

100 0 50 100
SCALE IN FEET

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
PRE DEVELOPMENT WATERSHED MAP

Project No.	190071901
Date	NOVEMBER 8, 2021
Drawn By	JN
Checked By	LM

Drawing No. FG05

Sheet 1 of 1

LANGAN
PROJECT NO. 190071901

CORPORATE BOULEVARD

NYS ROUTE 17K NEWBURGH - COCHECTON TURNPIKE

DP-2

60-INCH Ø
CONCRETE PIPE

200

101

103

PROPOSED BUILDING
FFE: 452.0

BIORETENTION BASIN 1
BED: 438.0

102

BIORETENTION BASIN 2
BED: 437.0

104

DP-1

4-FT X 7-FT
BOX CULVERT

NOTES

1. EXISTING SITE FEATURES, TOPOGRAPHIC, AND UTILITY INFORMATION SHOWN HEREON ARE FROM THE ALTA/NSPS LAND TITLE SURVEY "LANDS OWNED BY RED OAK SOS LLC" TAX PARCEL 95-1-58, PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C., DATED OCTOBER 7, 2021.
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100 0 50 100
SCALE IN FEET

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Project
NEWBURGH COMMERCE CENTER
SECTION No. 95, BLOCK No. 1, LOT No. 58
TOWN of NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
POST DEVELOPMENT WATERSHED MAP

Project No. 190071901
Date NOVEMBER 8, 2021
Drawn By LM
Checked By CU

Drawing No. FG06
Sheet 1 of 1

Filename: \\langan.com\data\WPW\data9\190071901\project data\CAD\01\sheetfiles\Figures\FG06-190071901-CD101-0101.dwg Date: 2/3/2022 Time: 10:37 User: lmcmahon Style Table: Langan.stb Layout: FG06

PROJECT NO. 190071901 LANGAN

Appendix A: NYSDEC SPDES General Permit

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2020

Expiration Date: January 28, 2025

John J. Ferguson

Chief Permit Administrator

1-23-20

Authorized Signature

Date

Address: NYS DEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System ("NPDES")* permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An *owner or operator* of a *construction activity* that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of "*construction activity*", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a *point source* and therefore, pursuant to ECL section 17-0505 and 17-0701, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

Table of Contents

Part 1. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;

2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State.*

3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Discharges from Construction Activities

*Discharge*s authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the *Stormwater Pollution Prevention Plan* (“SWPPP”) the reason(s) for the

deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:

   (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s;

   (ii) Control stormwater *discharge*s, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;

   (iii) *Minimize* the amount of soil exposed during *construction activity*;

   (iv) *Minimize* the disturbance of *steep slopes*;

   (v) *Minimize* sediment *discharge*s from the site;

   (vi) Provide and maintain *natural buffer*s around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharge*s, unless *infeasible*;

   (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;

   (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and

   (ix) *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.

b. **Soil Stabilization**. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments

listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

c. **Dewatering**. *Discharge*s from *dewatering* activities, including *discharge*s from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures**. Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:

(i) *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;

(ii) *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use) ; and

(iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Prohibited *Discharge*s.** The following *discharge*s are prohibited:

(i) Wastewater from washout of concrete;

(ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

(iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;

(iv) Soaps or solvents used in vehicle and equipment washing; and

(v) Toxic or hazardous substances from a spill or other release.

f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-construction Stormwater Management Practice Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the *performance criteria* in the Design Manual, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. Sizing Criteria for New Development

(i) Runoff Reduction Volume ("RRv"): Reduce the total Water Quality Volume ("WQv") by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
(2) The site discharges directly to tidal waters, or fifth order or larger streams.

(iv) *Overbank* Flood Control Criteria ("Qp"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
(1) the site discharges directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

(v) Extreme Flood Control Criteria ("Qf"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
(1) the site discharges directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watershed

(i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
(2) The site *discharge*s directly to tidal waters, or fifth order or larger streams.

(iv) *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

(v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

c. Sizing Criteria for Redevelopment Activity

(i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.

(1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or

(2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity., or

(3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or

(4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

(ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(iii) *Overbank* Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control *discharge*s necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;

2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharge*s authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharge*s will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

E. Eligibility Under This General Permit

1. This permit may authorize all *discharges* of stormwater from *construction activity* to *surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.

2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharge*s; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.

3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated *discharge*s from *construction site* de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.

4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **not** authorized by this permit:

1. *Discharge*s after *construction activities* have been completed and the site has undergone *final stabilization*;

2. *Discharge*s that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;

3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;

4. *Construction activities* or *discharges* from *construction activities* that may adversely affect an *endangered or threatened species* unless the *owner or*

operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;

6. *Construction activities* for residential, commercial and institutional projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which are undertaken on land with no existing *impervious cover*; and

   c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

7. *Construction activities* for linear transportation projects and linear utility projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which are undertaken on land with no existing *impervious cover*; and

   c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase "D" (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:

   a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.

      - 1-5 acres of disturbance - 20 feet
      - 5-20 acres of disturbance - 50 feet
      - 20+ acres of disturbance - 100 feet, or

   b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
      (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
      (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
      (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
      (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or

   c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

(i) No Affect
(ii) No Adverse Affect
(iii) Executed Memorandum of Agreement, or

d. Documentation that:

(i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.

9. *Discharge*s from *construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

Part II. PERMIT COVERAGE

A. How to Obtain Coverage

1. An *owner or operator* of a *construction activity* that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.

2. An *owner or operator* of a *construction activity* that is subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department. The *owner or operator* shall have the “MS4 SWPPP Acceptance” form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.

3. The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of *Owner or Operator*) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4* . This exemption does not apply to *construction activities* subject to the New York City Administrative Code.

B. Notice of Intent (NOI) Submittal

1. Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (http://www.dec.ny.gov/). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

   NOTICE OF INTENT
   NYS DEC, Bureau of Water Permits
   625 Broadway, 4th Floor
   Albany, New York 12233-3505

2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.

3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.

4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

C. Permit Authorization

1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.

2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied all of the following criteria:

   a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (http://www.dec.ny.gov/) for more information,

   b. where required, all necessary Department permits subject to the *Uniform Procedures Act ("UPA")* (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators* of *construction activities* that are required to obtain *UPA* permits

must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

c. the final SWPPP has been prepared, and

d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.

3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:

   a. For *construction activities* that are not subject to the requirements of a *regulated, traditional land use control MS4*:

      (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or

      (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;

      (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:

(i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "*MS4* SWPPP Acceptance" form, or

(ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.

4. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.C. of this permit.

D. General Requirements For Owners or Operators With Permit Coverage

1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.

2. The *owner or operator* shall maintain a copy of the General Permit (GP-0-20-001), NOI, *NOI Acknowledgment Letter*, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the *construction site* until all disturbed areas have achieved *final stabilization* and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.

3. The *owner or operator* of a *construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

use control MS4, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*). At a minimum, the *owner or operator* must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

a. The *owner or operator* shall have a *qualified inspector* conduct **at least** two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.

e. The *owner or operator* shall include the requirements above in their SWPPP.

4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..

5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

6. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the

regulated, traditional land use control MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the *owner or operator* shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice.

E. Permit Coverage for Discharges Authorized Under GP-0-15-002

1. Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-15-002), an *owner or operator* of *a construction activity* with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to *discharge* in accordance with GP- 0-20-001, unless otherwise notified by the Department.

   An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

F. Change of Owner or Operator

1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For *construction activities* subject to the requirements of a *regulated, traditional land use control MS4,* the original *owner or operator* must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.

2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.

3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General SWPPP Requirements

1. A SWPPP shall be prepared and implemented by the *owner or operator* of each *construction activity* covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the *commencement of construction activity*. A copy of the completed, final NOI shall be included in the SWPPP.

2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.

3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.

4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP, including construction drawings:

    a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*;

c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* the Department or other regulatory authority; and

d. to document the final construction conditions.

5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.

6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor.* The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

   The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

   "I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with

the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharge*s from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Required SWPPP Contents

1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:

    a. Background information about the scope of the project, including the location, type and size of project

b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);

c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);

d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;

e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;

f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;

g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;

i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;

k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and

l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

   Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

   The post-construction stormwater management practice component of the SWPPP shall include the following:

   a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;

c. A Stormwater Modeling and Analysis Report that includes:
   (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;

   (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;

   (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;

   (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;

   (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and

   (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;

d. Soil testing results and locations (test pits, borings);

e. Infiltration test results, when required; and

f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria,* Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators* of *construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators* of the *construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.

2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- New York State Erosion and Sediment Control Certificate Program holder
- Registered Landscape Architect, or
- someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].

1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, with the exception of:

   a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located

in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and

d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:

a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.

b. For construction sites where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* shall have the *qualified inspector* perform a final inspection and certify that all disturbed areas have achieved *final stabilization,* and all temporary, structural erosion and sediment control measures have been removed*;* and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The *owner or operator* shall then submit the completed NOT form to the address in Part II.B.1 of this permit.

e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization,* all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site*, and all points of *discharge* from the *construction site*.

4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

a. Date and time of inspection;

b. Name and title of person(s) performing inspection;

c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;

d. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This shall include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;

e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;

f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;

g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;

i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;

j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);

k. Identification and status of all corrective actions that were required by previous inspection; and

l. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

6. All inspection reports shall be signed by the *qualified inspector.* Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Coverage

1. An *owner or operator* that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.

2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:

   a. Total project completion - All *construction activity* identified in the SWPPP has been completed; and all areas of disturbance have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;

c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.

d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.

3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.

4. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4* and meet subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *regulated, traditional land use control MS4* sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The *regulated, traditional land use control MS4* official, by signing this statement, has determined that it is acceptable for the *owner or operator* to submit the NOT in accordance with the requirements of this Part. The *regulated, traditional land use control MS4* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) required in Part V.A.3. of this permit.

5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:

a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),

c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,

d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

Part VI. REPORTING AND RETENTION RECORDS

A. Record Retention

The *owner or operator* shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator,* its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to $37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit , or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Signatory Requirements

1. All NOIs and NOTs shall be signed as follows:

    a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

(i) the chief executive officer of the agency, or

(ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.

3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.

4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4,* or by a duly authorized representative of that person.

   It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge*(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the owner’s or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.

4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re-Opener Clause

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.

2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

APPENDIX A – Acronyms and Definitions

Acronyms

APO – Agency Preservation Officer
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
Cpv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DOW – Division of Water
EAF – Environmental Assessment Form
ECL - Environmental Conservation Law
EPA – U. S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review
SEQRA - State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

Definitions

All definitions in this section are solely for the purposes of this permit.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property –means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

Alter Hydrology from Pre to Post-Development Conditions - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer - means a sewer that is designed to collect and convey both "sewage" and "stormwater".

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for "*Construction Activity(ies)*" also.

Construction Activity(ies) - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Construction Site – means the land area where *construction activity(ies)* will occur. See definition for "*Commence (Commencement of) Construction Activities"* and "*Larger Common Plan of Development or Sale" also.*

Dewatering – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Direct Discharge (to a specific surface waterbody) - means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Discharge(s) - means any addition of any pollutant to waters of the State through an outlet or *point source*.

Embankment –means an earthen or rock slope that supports a road/highway.

Endangered or Threatened Species – see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

Equivalent (Equivalence) – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

Historic Property – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term “plan” in “larger common plan of development or sale” is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

Minimize – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

(i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State*;*
(ii) Designed or used for collecting or conveying stormwater;
(iii) Which is not a *combined sewer*; and
(iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

Natural Buffer –means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

NOI Acknowledgment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

Nonpoint Source - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank –means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

Performance Criteria – means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

Point Source - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be discharged.

Pollutant - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq .

Qualified Inspector - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Routine Maintenance Activity - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

Site limitations – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

State Pollutant Discharge Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

Steep Slope – means land area designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%) , or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Streambank – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls; for many projects, includes post-construction stormwater management controls); and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

Surface Waters of the State - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint source*s. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint source*s, and a margin of safety (MOS).

Trained Contractor - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

Water Quality Standard - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

APPENDIX B – Required SWPPP Components by Project Type

Table 1
Construction Activities that Require the Preparation of a SWPPP That Only Includes Erosion and Sediment Controls

The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single family home not located in one of the watersheds listed in Appendix C or not *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions with 25% or less impervious cover at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.

The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover
- Cross-country ski trails and walking/hiking trails
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.
- Slope stabilization projects
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics

Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that *alter hydrology from pre to post development* conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre to post development* conditions
- Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) and structural practices as identified in Table II in the “Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State” that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW’s, water treatment plants, and water storage tanks
- Office complexes
- Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover,* and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, and are not listed in Table 1

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River - Figure 1
- Onondaga Lake Watershed - Figure 2
- Greenwood Lake Watershed -Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Figure 1 - New York City Watershed East of the Hudson

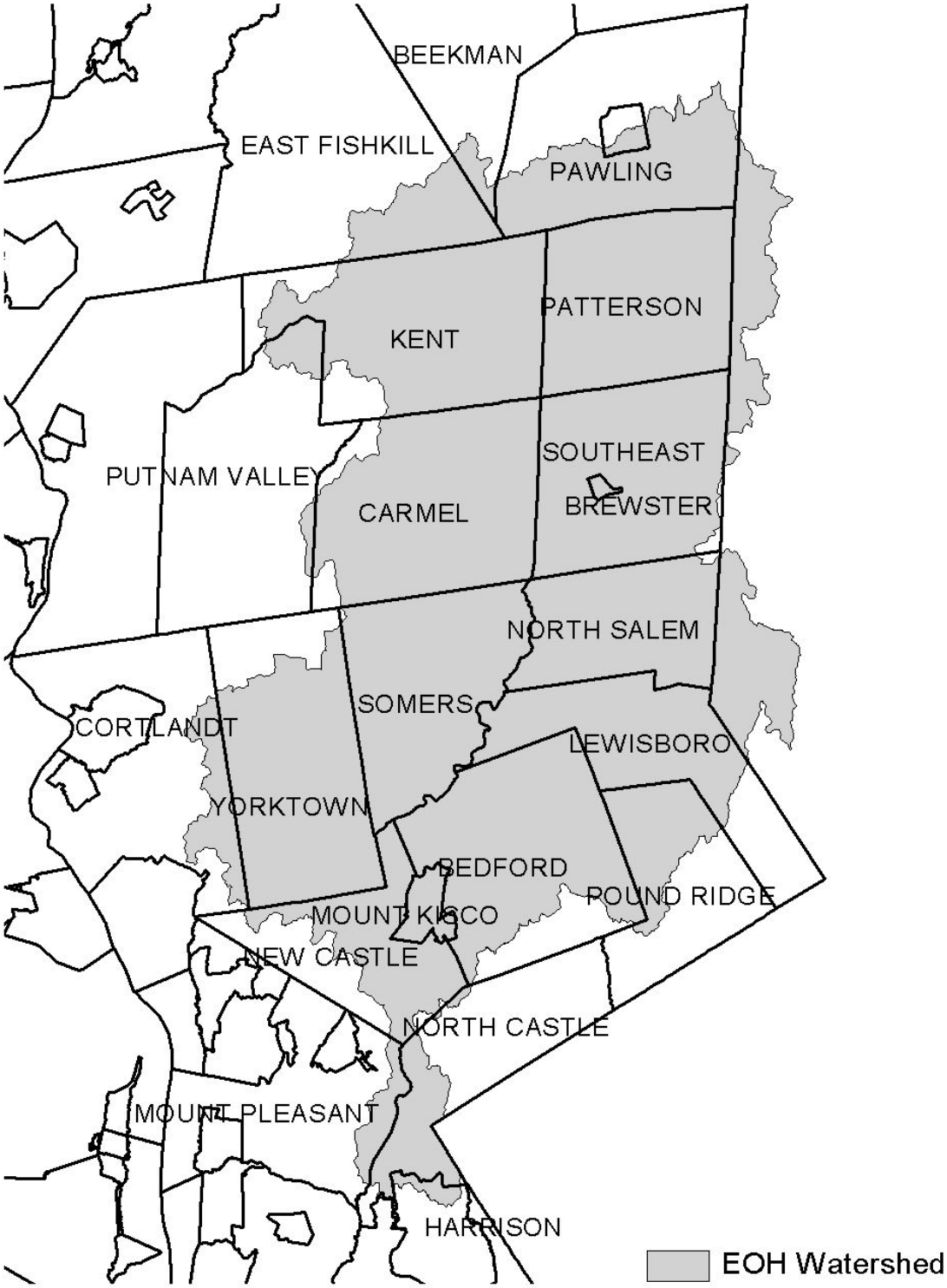


Figure 2 - Onondaga Lake Watershed

Figure 3 - Greenwood Lake Watershed

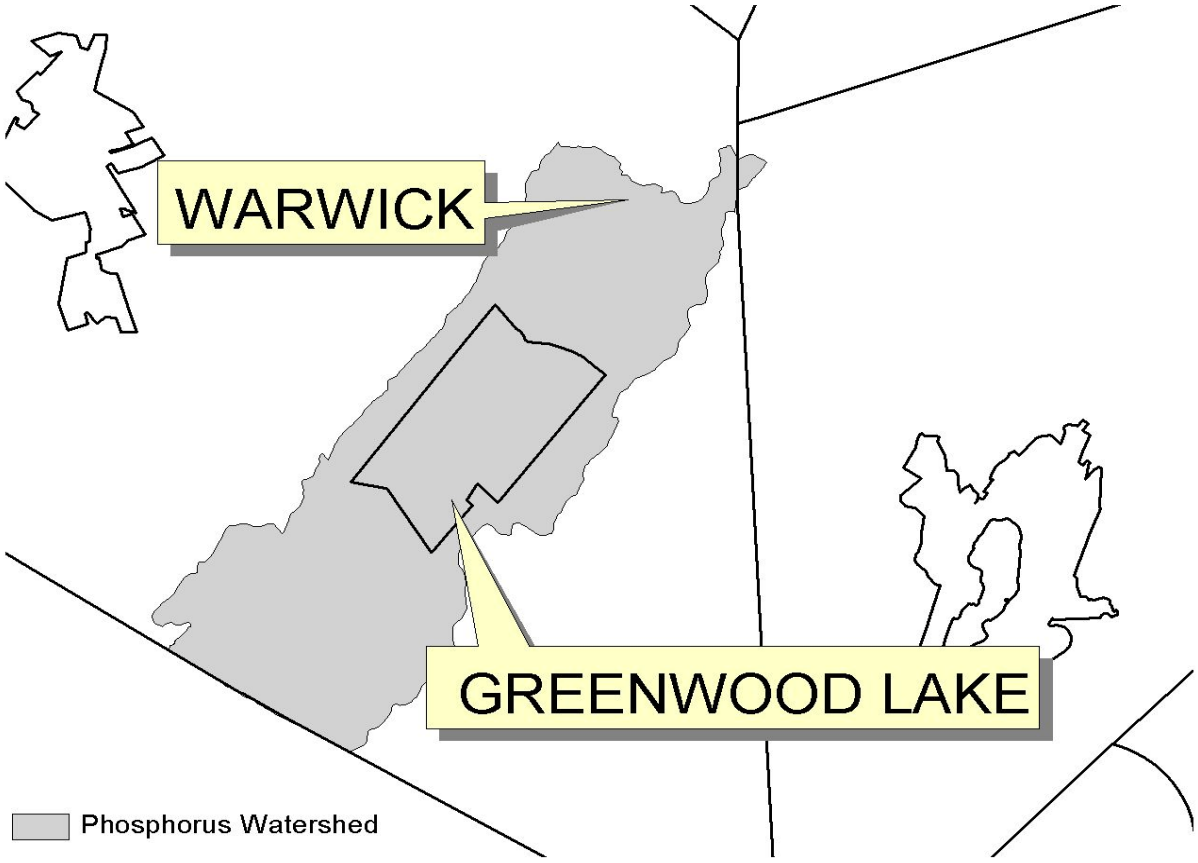


Figure 4 - Oscawana Lake Watershed

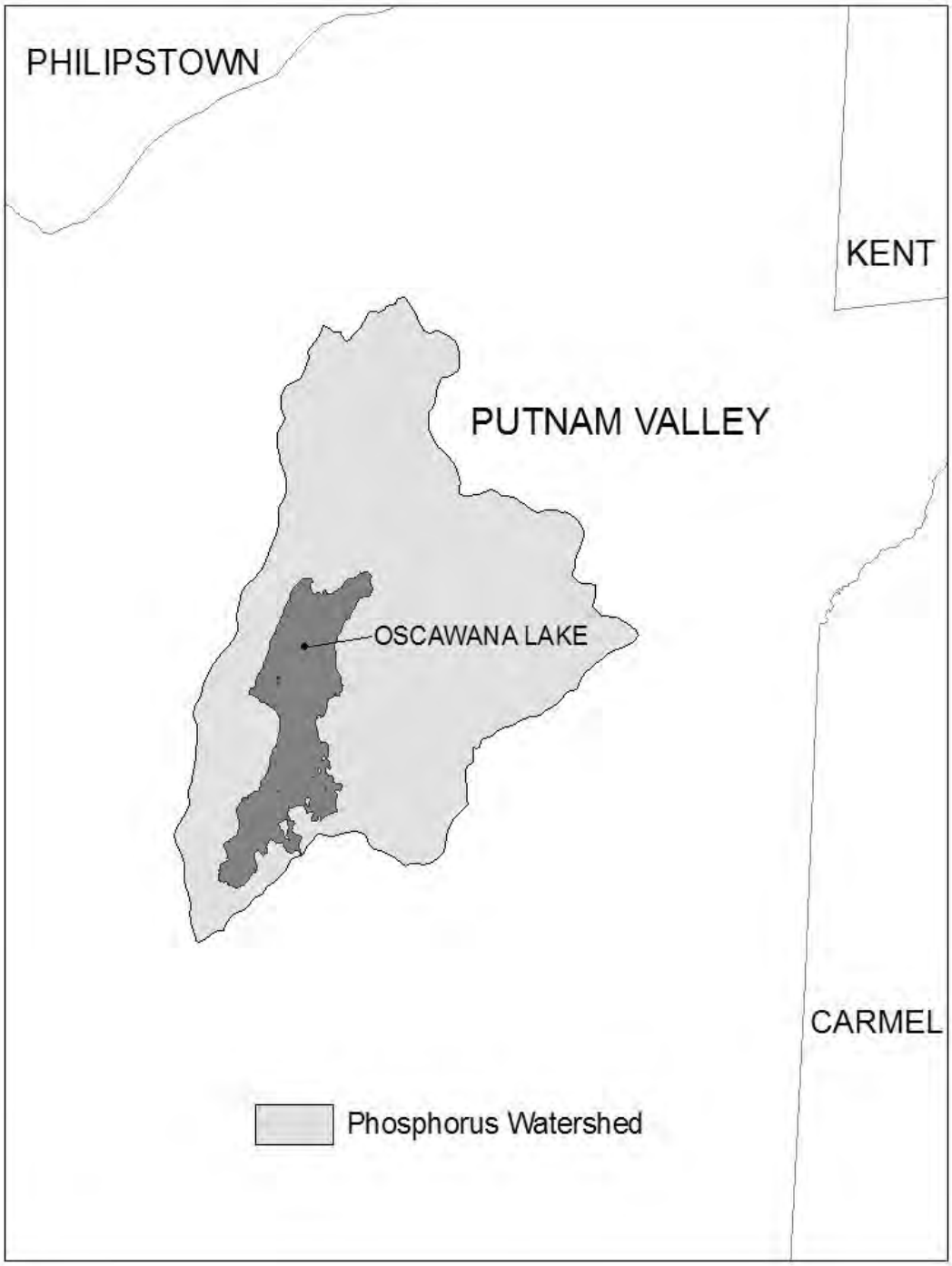
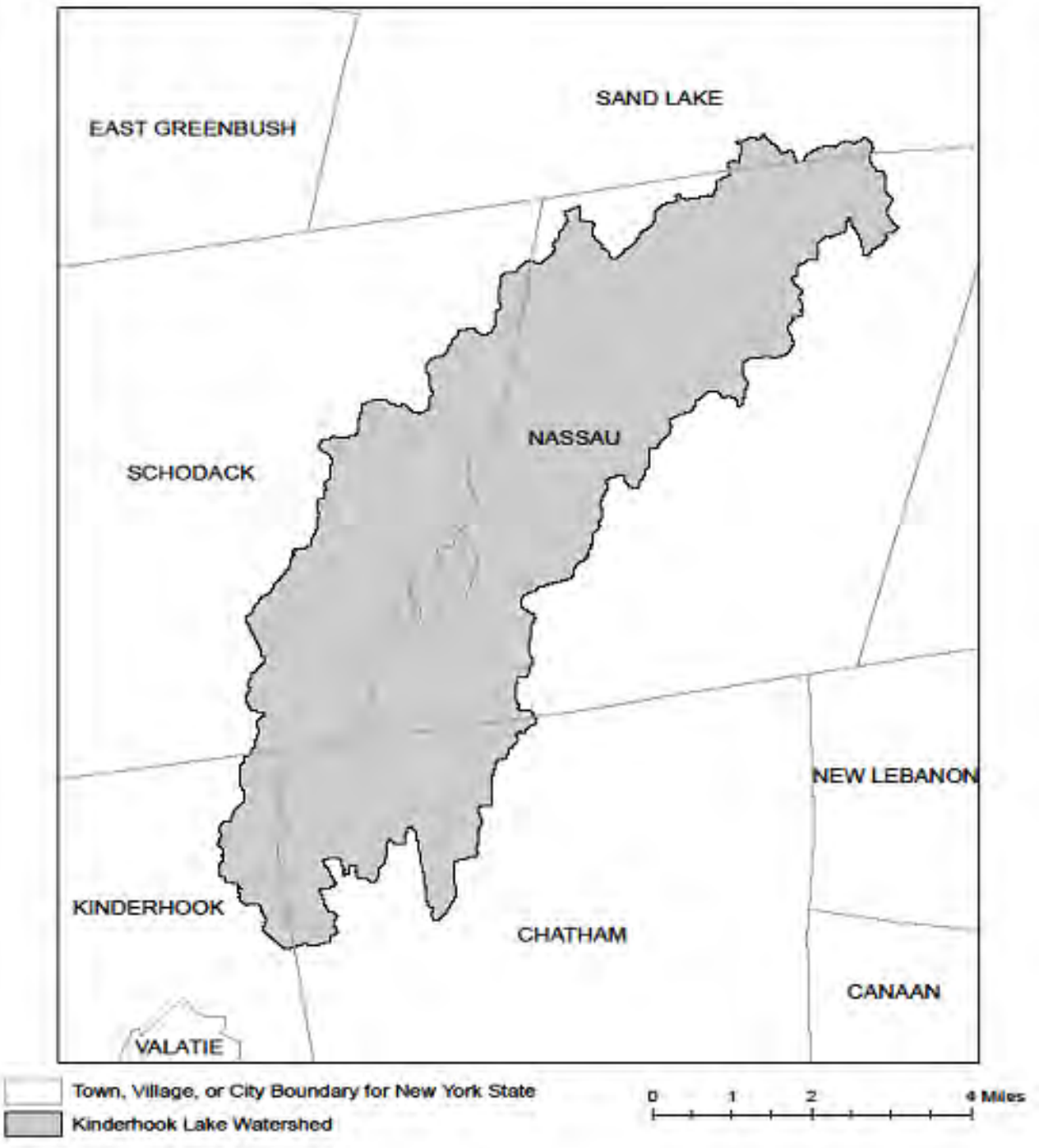


Figure 5 - Kinderhook Lake Watershed



APPENDIX D – Watersheds with Lower Disturbance Threshold

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linlyco/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willsboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Silt/Sediment
Nassau	Tribs to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholtz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Tribs to Lake Lonely	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

303(d) Segments Impaired by Construction Related Pollutant(s)

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Tribs to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Tribs to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolndale	Nutrients
Westchester	Lake Meahagh	Nutrients
Westchester	Lake Mohegan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

APPENDIX F – List of NYS DEC Regional Offices

Region	Covering the following counties:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators	DIVISION OF WATER (DOW) Water (SPDES) Program
1	Nassau and Suffolk	50 Circle Road Stony Brook, NY 11790 Tel. (631) 444-0365	50 Circle Road Stony Brook, NY 11790-3409 Tel. (631) 444-0405
2	Bronx, Kings, New York, Queens and Richmond	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4933
3	Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester	21 South Putt Corners Road New Paltz, NY 12561-1696 Tel. (845) 256-3059	100 Hillside Avenue, Suite 1W White Plains, NY 10603 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1150 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 State Route 86, Po Box 296 Ray Brook, NY 12977-0296 Tel. (518) 897-1234	232 Golf Course Road Warrensburg, NY 12885-1172 Tel. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070

Appendix B: NYSDEC SPDES General Permit Forms

0644089821

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR _____ (for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
Scannell Properties

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Zweifler

Owner/Operator Contact Person First Name
Zachary

Owner/Operator Mailing Address
294 Grove Lane East Suite 140

City
Wayzata

State
MN

Zip
55391 - ____

Phone (Owner/Operator)
763 - 331 - 8857

Fax (Owner/Operator)
___ - ___ - ____

Email (Owner/Operator)
zacharyz@scannellproperties.com

FED TAX ID
__ - _____ (not required for individuals)

Project Site Information

Project/Site Name
Newburgh Commerce Center

Street Address (NOT P.O. BOX)
124 Route 17k

Side of Street
● **North** ○ **South** ○ **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Town of Newburgh

State: NY
Zip: 12550 -
County: Orange
DEC Region: 3

Name of Nearest Cross Street
Orr Avenue

Distance to Nearest Cross Street (Feet)
920

Project In Relation to Cross Street
○ **North** ○ **South** ○ **East** ● **West**

Tax Map Numbers
Section-Block-Parcel
95-1-58

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting): 576468

Y Coordinates (Northing): 4595545

2. What is the nature of this construction project?

● **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- ○ FOREST
- ○ PASTURE/OPEN LAND
- ○ CULTIVATED LAND
- ● SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY
- ○ PARKING LOT
- ○ OTHER

Post-Development Future Land Use

- ○ SINGLE FAMILY HOME — Number of Lots
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ● INDUSTRIAL
- ○ COMMERCIAL
- ○ MUNICIPAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY (water, sewer, gas, etc.)
- ○ PARKING LOT
- ○ CLEARING/GRADING ONLY
- ○ DEMOLITION, NO REDEVELOPMENT
- ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ○ OTHER

***Note**: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
13.8	12.4	0.2	7.2

5. Do you plan to disturb more than 5 acres of soil at any one time? ● **Yes** ○ **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
%	%	76 %	24 %

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date	End Date
03/01/2022	01/01/2023

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

NYSDEC Class A Stream

Tributary to Brookside Pond

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ● Stream / Creek On Site
- ● Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ● Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ○ **No**
If Yes, what is the acreage to be disturbed?

.

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ Yes ○ No ● Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ● Yes ○ No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ● Yes ○ No

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer: Langan Engineering

Contact Name (Last, Space, First): McMahon, Lauren

Mailing Address: lmcmahon@langan.com

City: White Plains

State: NY Zip: 10601-

Phone: 914-323-7422 Fax: 914-323-7401

Email: lmcmahon@langan.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name W. Charles **MI**

Last Name Utschig Jr.

Signature

Date / /

25. Has a construction sequence schedule for the planned management practices been prepared? ● Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ● Check Dams
- ○ Construction Road Stabilization
- ● Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ● Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ● Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ● Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ● Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ● Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ● Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ○ **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ● **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ● **Roadway Reduction**
- ● **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ● **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ● All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

0.776 **acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area(acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1)		and/or	
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or	
○ Tree Planting/Tree Pit (RR-3)		and/or	
○ Disconnection of Rooftop Runoff (RR-4)		and/or	
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			
○ Rain Garden (RR-6)			
○ Stormwater Planter (RR-7)			
○ Rain Barrel/Cistern (RR-8)			
○ Porous Pavement (RR-9)			
○ Green Roof (RR-10)			
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			
○ Infiltration Basin (I-2)			
○ Dry Well (I-3)			
○ Underground Infiltration System (I-4)			
● Bioretention (F-5)			6.83
○ Dry Swale (O-1)			
Standard SMPs			
○ Micropool Extended Detention (P-1)			
○ Wet Pond (P-2)			
○ Wet Extended Detention (P-3)			
○ Multiple Pond System (P-4)			
○ Pocket Pond (P-5)			
○ Surface Sand Filter (F-1)			
○ Underground Sand Filter (F-2)			
○ Perimeter Sand Filter (F-3)			
○ Organic Filter (F-4)			
○ Shallow Wetland (W-1)			
○ Extended Detention Wetland (W-2)			
○ Pond/Wetland System (W-3)			
○ Pocket Wetland (W-4)			
○ Wet Swale (O-2)			

Table 2 - Alternative SMPs
(DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area(acres)
○ **Hydrodynamic**	
○ **Wet Vault**	
○ **Media Filter**	
○ **Other** [ ]	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name [ ]

Manufacturer [ ]

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

0.341 **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ○ **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

0.202 **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

● **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

0.512 **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a).

0.853

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ◉ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

0.928 **acre-feet**

CPv Provided

4.458 **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

26.85 **CFS**

Post-development

14.90 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

48.51 **CFS**

Post-development

33.84 **CFS**

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ● **Yes** ○ **No**

If Yes, Identify the entity responsible for the long term Operation and Maintenance

Scannell Properties

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

The placement of the runoff reduction practice, stormwater management practice, and the volume of water quality provided in the runoff reduction practices were dictated by a number of specific site characteristics. These characteristics include: poor soils, depth to bedrock, and high water tables. Given these factors 100% of the water quality volume could not be reduced through the use of runoff reduction practices. However, enough water quality volume has been reduced to exceed the minimum required runoff reduction volume.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ○ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ● **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

MI

Print Last Name

Owner/Operator Signature

Date

/ /

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	Scannell Properties
2. Contact Person:	Zachary Zweifler
3. Street Address:	294 Grove Lane East Suite 140
4. City/State/Zip:	Wayzata, Minnesota 55391
II. Project Site Information	
5. Project/Site Name:	Newburgh Commerce Center
6. Street Address:	124 Route 17k
7. City/State/Zip:	Town of Newburgh, NY 12550
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4:	Town of Newburgh
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Contact Person:	
14. Street Address:	
15. City/State/Zip:	
16. Telephone Number:	

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-20-001)

Project Site Information

Project/Site Name

Newburgh Commerce Center

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

Scannell Properties

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First name | MI | Last Name

Signature | Date

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name: Newburgh Commerce Center

eNOI Submission Number: _____

eNOI Submitted by: ☐ **Owner/Operator** ☐ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Owner/Operator First Name M.I. Last Name

_____

Signature

_____

Date

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505
(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ___ ___ ___ ___ ___ ___

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person:	4a.Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. □ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. □ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ___ ___ ___ ___ ___ ___
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. □ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? □ yes □ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? □ yes □ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

_____

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? □ yes □ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

□ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

□ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

□ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

□ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____ (acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? □ yes □ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:	
Title/Position:	
Signature:	Date:

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

(NYS DEC Notice of Termination - January 2015)

Appendix C: Certification Statements

Owner's/Operator's Certification

"I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted."

Name (please print) _____

Title _____ **Date** _____

Address _____

Phone _____ **Email** _____

Signature _____

Contractor's Certification

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations."

Contracting Firm Name _____

Address _____

Phone _____ **Fax** _____

Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

_____

Trained Individual Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

Note: All Contractors involved with Stormwater related activities shall sign a Contractor's Certification.

Subcontractor's Certification

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations."

Subcontracting Firm Name _____

Address _____

Phone _____ **Fax** _____

Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

_____

Trained Individual Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

Note: All subcontractors involved with Stormwater related activities shall sign a Subcontractor's Certification.

Appendix D: Example Inspection Form

EXAMPLE EROSION CONTROL REPORT

PROJECT NO: _____ PROJECT NAME: _____ DATE: _____

MUNICIPALITY: _____ LOCATION: _____

CONTRACTOR: _____ OWNER: _____

DATE OF PREVIOUS INSPECTION: _____ INSPECTOR'S NAME: _____

DATE OF MOST RECENT STORM 0.5" OR GREATER: _____ DATE OF INSPECTION: _____

LAST RAIN EVENT: _____ DEPTH: _____

WEATHER: _____ TEMPERATURE: _____ °F

SPECIAL NOTES: _____

EROSION CONTROL CHECKLIST

ADDITIONAL ACTION REQUIRED BY PROJECT MANAGER OR PROJECT ENGINEER ☐ YES ☐ NO

PHOTOS OR SKETCHES ATTACHED ☐ ADDITIONAL REMARKS ATTACHED ☐

_____ _____

Inspector (print name) **Inspection Date**

_____ _____

Qualified Professional (print name) **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes	No	NA	
☐	☐	☐	Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐	☐	☐	Is there residue from oil and floating substances, visible oil film, or globules of grease?
☐	☐	☐	All disturbance is within the limits of the approved plans.
☐	☐	☐	Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes	No	NA	
☐	☐	☐	Is construction site litter and debris appropriately managed?
☐	☐	☐	Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐	☐	☐	Is construction impacting the adjacent properties?
☐	☐	☐	Is dust adequately controlled?

2. Temporary Stream Crossing

Yes	No	NA	
☐	☐	☐	Maximum diameter pipes necessary to span creek without dredging are installed.
☐	☐	☐	Installed non-woven geotextile fabric beneath approaches
☐	☐	☐	Is fill composed of aggregate (no earth or soil)?
☐	☐	☐	Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering

Yes	No	NA	
☐	☐	☐	Upstream and downstream berms (sandbags, inflatable damns, etc.) are installed per plan.
☐	☐	☐	Clean water from upstream pool is being pumped to the downstream pool.
☐	☐	☐	Sediment laden water from work area is being discharged to a silt-trapping device.
☐	☐	☐	Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader

Yes	No	NA	
☐	☐	☐	Installed per plan.
☐	☐	☐	Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐	☐	☐	Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes	No	NA	
☐	☐	☐	Installed per plan with minimum side slopes 2H:1V or flatter.
☐	☐	☐	Stabilized by geotextile fabric, seed, or mulch with no erosion occuring.
☐	☐	☐	Sediment-laden runoff directed to sediment trapping structure.

4. Stone Check Dam

Yes	No	NA	
☐	☐	☐	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☐	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☐	Has accumulated sediment been removed?

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☐	Installed per plan.
☐	☐	☐	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☐	☐	Stockpiles are stabilized with vegetation and/or mulch.
☐	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☐	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☐	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☐	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☐	☐	☐	Installed per standards and specifications?
☐	☐	☐	Does all traffic use the stabilized entrance to enter and leave the site?
☐	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☐	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☐	☐	☐	Fabric buried 6 inches minimum.
☐	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is ____% of design capacity.

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☐	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☐	Place wire screen between No. 3 crushed stone and concrete blocks.
☐	☐	☐	Drainage area is 1 acre or less.
☐	☐	☐	Excavated area is 900 cubic feet.
☐	☐	☐	Excavated side slopes should be 2:1.
☐	☐	☐	2" x 4" frame is constructed and structurally sound.
☐	☐	☐	Posts 3-foot maximum spacing between posts.
☐	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is ____% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☐	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☐	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ____% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☐	Basin and outlet structure constructed per the approved plan.
☐	☐	☐	Basin side slopes are stablized with seed/mulch.
☐	☐	☐	Drainage structure is flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ____% of design capacity.

Appendix E: Design Calculations

Total Required Water Quality Volume Calculation Worksheet

Is this project subject to Chapter 10 of the NYS Design Manual (i.e. WQv is equal to post-development 1 year runoff volume)?.....

Design Point(s):	DP-1		*Manually enter the information below.*
P=	1.40	*inch*	

Breakdown of Subcatchments

Subcatchment Number	Subcatchment Model Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	110% WQv *(ft^3)*	Description
1	101	8.57	5.82	68%	0.66	28,778	31,656	Bioretention
2	102	1.58	1.01	64%	0.63	5,020	5,522	Bioretention
3								
4								
5								
6								
7								
8								
9								
10								
Subtotal		10.15	6.83	67%	0.66	33,798	37,178	Subtotal 1
Total		**10.15**	**6.83**	**67%**	**0.66**	**33,798**	**37,178**	**Initial WQv**

Identify Runoff Reduction Techniques By Area

Technique	Total Contributing Area *(Acre)*	Contributing Impervious Area *(Acre)*	Notes
Conservation of Natural Areas	0.00	0.00	*minimum 10,000 sf*
Riparian Buffers	0.00	0.00	*maximum contributing length 75 feet to 150 feet*
Filter Strips	0.00	0.00	
Tree Planting	0.00	0.00	*Up to 100 sf directly connected impervious area may*
Total	**0.00**	**0.00**	

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*	
Initial WQv	10.15	6.83	67%	0.66	33,798	
Subtract Area	0.00	0.00	--	--	--	
WQv adjusted after Area Reductions	**10.15**	**6.83**	67%	0.66	33,798	
Disconnection of Rooftops		0.00				
Adjusted WQv after Area Reduction and Rooftop Disconnect	10.15	6.83	67%	0.66	**33,798**	**0.78**
WQv reduced by Area Reduction techniques					0	**0.00**

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Runoff Reduction Summary Table Worksheet

Runoff Reduction Volume and Treated Volumes						
Runoff Reduction Techniques/Standard SMPs			Total Contributing Area (acres)	Total Contributing Impervious Area (acres)	WQv Reduced (RRv) cf	WQv Treated cf
Area Reduction	Conservation of Natural Areas	RR-1	0.00	0.00		
	Sheet flow to Riparian Buffers	RR-2	0.00	0.00		
	Sheet flow to Filter Strips		0.00	0.00		
	Tree Planting/Tree Pit	RR-3	0.00	0.00		
	Disconnection of Rooftop Runoff	RR-4		0.00		
Volume Reduction	Vegetated Swale	RR-5	0.00	0.00	0	
	Rain Garden	RR-6	0.00	0.00	0	
	Stormwater Planter	RR-7	0.00	0.00	0	
	Rain Barrel/Cistern	RR-8	0.00	0.00	0	
	Porous Pavement	RR-9	0.00	0.00	0	
	Green Roof (Intensive)	RR-10	0.00	0.00	0	
	Green Roof (Extensive)		0.00	0.00	0	
Standard SMPs w/RRv Capacity	Infiltration Trench	I-1	0.00	0.00	0	0
	Infiltration Basin	I-2	0.00	0.00	0	0
	Dry Well	I-3	0.00	0.00	0	0
	Underground Infiltration System	I-4	0.00	0.00	0	0
	Bioretention	F-5	10.15	6.83	14,871	22,307
	Infiltration Bioretention		0.00	0.00	0	0
	Dry swale	O-1	0.00	0.00		0
Standard SMPs	Micropool Extended Detention Pond	P-1	0.00	0.00		0
	Wet Pond	P-2	0.00	0.00		0
	Wet Extended Detention Pond	P-3	0.00	0.00		0
	Multiple Pond system	P-4	0.00	0.00		0
	Pocket Pond	P-5	0.00	0.00		0
	Surface Sand Filter	F-1	0.00	0.00		0
	Underground Sand Filter	F-2	0.00	0.00		0
	Perimeter Sand Filter	F-3	0.00	0.00		0
	Organic Filter	F-4	0.00	0.00		0
	Shallow Wetland	W-1	0.00	0.00		0
	Extended Detention Shallow Wetland	W-2	0.00	0.00		0
	Pond/Wetland System	W-3	0.00	0.00		0
	Pocket Wetland	W-4	0.00	0.00		0
	Wet Swale	O-2	0.00	0.00		0
Totals by Area Reduction →			0.00	0.00	0	
Totals by Volume Reduction →			0.00	0.00	0	
Totals by Standard SMP w/RRV →			10.15	6.83	14,871	22,307
Totals by Standard SMP →			0.00	0.00		0
Totals (Area + Volume + all SMPs) →			**10.15**	**6.83**	**14,871**	**22,307**

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Minimum Runoff Reduction Volume Worksheet

Minimum Runoff Reduction Volume

1. Construction activities that cannot achieve 100% reduction of the total water quality volume due to site limitation shall direct runoff from all newly constructed impervious areas to a runoff reduction technique or standard stormwater management practice with runoff reduction volume capacity unless infeasible.
2. In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the minimum runoff reduction (RRv_{min}).
3. The minimum runoff reduction volume is calculated as follows:

$$RRv_{min} = \frac{P * \bar{R}v * Aic * S}{12}$$

Where:

RRv_{min} = Minimum runoff reduction required from impervious area

$\bar{R}v$ = 0.05 + 0.009 (I), where I is 100% impervious

Aic = Total area of new impervious cover

S = Hydrologic Soil Group Specific Reduction Factor

Enter the Soils Data for the site

Soil Group	Acres	S	
A	0.00	55%	*(new impervious area in Type A Soils)*
B	0.00	40%	*(new impervious area in Type B Soils)*
C	4.81	30%	*(new impervious area in Type C Soils)*
D	2.35	20%	*(new impervious area in Type D Soils)*
Total Area	7.16		

Calculate the Minimum RRv

Soil Group Speific Reduction Factor (S)	**0.27**		*(weighted average)*
Total Area of New Impervious Cover (Aic)	6.83	*acre*	
Precipitation (P)	1.40	*in*	
Rv	0.95		
Minimum RRv	**8,806**	***ft3***	*(P * Rv x Aic * S)/12*
	0.20	af	

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Bioretention Worksheet

(For use on HSG C or D Soils with underdrains)

Af=WQv*(df)/[k*(hf+df)(tf)]

where:

Af	Required Surface Area (ft^2)
WQv	Water Quality Volume (ft^3)
df	Depth of the Soil Medium (ft)
hf	Average height of water above the planter bed (ft)
tf	The Design Time to Filter the Treatment Volume Through the Filter Media (days)
k	Hydraulic conductivity (ft/day)

Design Point(s):	**DP-1**

Enter Site Data For Drainage Area to be Treated by Practice								
Subcatchment Number	**Subcatchment Model Number**	**Total Area** *(Acres)*	**Impervious Area** *(Acres)*	**Percent Impervious** *%*	**Rv**	**WQv** *(ft^3)*	**Precipitation** *(in)*	**Description**
1	101	8.57	5.82	0.68	0.66	31,656	1.40	Bioretention
Enter Impervious Area Reduced by Disconnection of Rooftops			0.00	68%	0.66	31,656	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						0	ft^3	

Soil Information		
Soil Group	C	
Using Underdrains?	*yes*	*Okay*

Pretreatment			
WQv	31,656	ft^3	
Pretreatment Sizing	25%	*of WQv*	
Required Pretreatment Volume	7,914	ft^3	
Pretreatment Provided	5,338	ft^3	*Inadequate Pretreatment Provided*
Pretreatment techniques utilized	*Other*		*Hydrodynamic Separator*

Calculate the Minimum Filter Area				
WQv		31,656	ft^3	
Media Type	--	Bioretention Soil		
Depth of Soil Media	*df*	2.5	*ft*	*2.5 ft to 4 ft*
Hydraulic Conductivity	*k*	0.5	*ft/day*	
Average Height of Ponding	*hf*	0.25	*ft*	*typically 0.25 ft*
Filter Time	*tf*	2.00	*days*	
Required Filter Area	***Af***	**28,778**	ft^2	

Determine Actual Bioretention Area			
Filter Width	-	*ft*	
Filter Length	-	*ft*	
Filter Area	33,100	ft^2	*OK*
Actual Volume Provided	36,410	ft^3	

Determine Underdrain			
Underdrain Gravel Bed With	3	*ft*	
Required length of underdrain	1,103	*ft*	
Provided length of underdain	1,250	*ft*	*OK*

Determine Runoff Reduction			
Percent Reduction	40%		
Runoff Reduction	**12,662**	ft^3	***This is 40% of the storage provided or WQv, whichever is smaller.***
Volume Treated	**18,994**	ft^3	***This is the portion of the WQv that is not reduced in the practice.***

Is the Bioretention contributing flow to another practice?		*no*	Select Practice	N/A
Volume Directed to Another Practice	0	ft^3	This volume is directed another practice	

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Bioretention Worksheet

Design Point(s):	DP-1

Enter Site Data For Drainage Area to be Treated by Practice								
Subcatchment Number	**Subcatchment Model Number**	**Total Area** *(Acres)*	**Impervious Area** *(Acres)*	**Percent Impervious** *%*	**Rv**	**WQv** *(ft^3)*	**Precipitation** *(in)*	**Description**
2	102	1.58	1.01	0.64	0.63	5,522	1.40	Bioretention
Enter Impervious Area Reduced by Disconnection of Rooftops			0.00	64%	0.63	5,522	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						0	ft^3	

Soil Information		
Soil Group	C	
Using Underdrains?	*yes*	*Okay*

Pretreatment			
WQv	5,522	ft^3	
Pretreatment Sizing	25%	*of WQv*	
Required Pretreatment Volume	1,380	ft^3	
Pretreatment Provided	5,338	ft^3	
Pretreatment techniques utilized	*Other*		*Hydrodynamic Separator*

Calculate the Minimum Filter Area				
WQv		5,522	ft^3	
Media Type	--	Bioretention Soil		
Depth of Soil Media	*df*	2.5	*ft*	*2.5 ft to 4 ft*
Hydraulic Conductivity	*k*	0.5	*ft/day*	
Average Height of Ponding	*hf*	0.25	*ft*	*typically 0.25 ft*
Filter Time	*tf*	2.00	*days*	
Required Filter Area	***Af***	**5,020**	ft^2	

Determine Actual Bioretention Area			
Filter Width	-	*ft*	
Filter Length	-	*ft*	
Filter Area	7,880	ft^2	*OK*
Actual Volume Provided	8,668	ft^3	

Determine Underdrain			
Underdrain Gravel Bed With	3	*ft*	
Required length of underdrain	263	*ft*	
Provided length of underdain	420	*ft*	*OK*

Determine Runoff Reduction			
Percent Reduction	40%		
Runoff Reduction	**2,209**	ft^3	***This is 40% of the storage provided or WQv, whichever is smaller.***
Volume Treated	**3,313**	ft^3	***This is the portion of the WQv that is not reduced in the practice.***
Is the Bioretention contributing flow to another practice?			Select Practice
Volume Directed to Another Practice	0	ft^3	This volume is directed another practice

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Channel Protection Volume Worksheet

Design Point(s):	DP-1		
Channel Protection Volume			
Area	10.15	*ac*	*0.016 sq. miles*
Curve Number (CN)	91		
Precipitation for 1 yr storm ($P_{1\ yr\ storm}$)	2.60	*in*	
Ia (200 / CN - 2)	0.20		
Ia / $P_{1\ yr\ storm}$	0.08		
S (Ia / 0.2)	1.02		
Time of Concentration	6.00	*min*	*0.100 hours*
Unit peak discharge (q_u)	700	*csm/in*	*from Exhibit 4-III of TR-55*
Ratio of Outflow to Inflow (q_o/q_i)	0.022		*from Figure B.1 of Design Manual*
Unit Volume (V_S/V_r)	0.65		$0.683 - 1.43*(q_o/q_i) + 1.64*(q_o/q_i)^2 - 0.804*(q_o/q_i)^3$
Runoff for 1 yr storm ($Q_{1\ yr\ runoff}$)	1.68	*in*	$(P_{1\ yr\ storm} - 0.2*S)^2/(P_{1\ yr\ storm} + 0.8*S)$
Channel Protection Volume	**40,424**	***cf***	$[((V_s/V_r) * (Q_{1\ yr\ runoff}) * A)/12]*43560$
Average Release Rate over 24 hours	**0.47**	***cfs***	

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Appendix F: Pre-Development Stormwater Analysis

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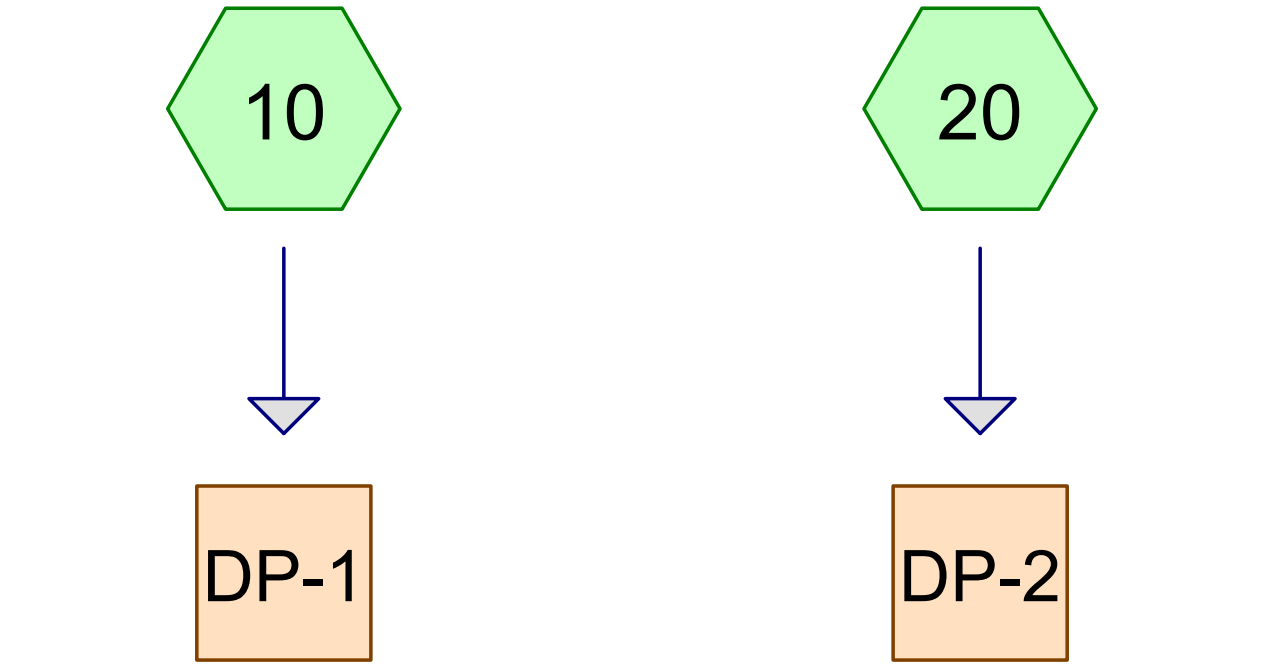


Subcat Reach Pond Link

Routing Diagram for 2021-10-29 Existing Conditions
Prepared by Langan Eng & Env Srvcs, Inc, Printed 11/8/2021

Time span=0.00-96.00 hrs, dt=0.05 hrs, 1921 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment10: Runoff Area=11.210 ac 1.69% Impervious Runoff Depth=1.06"
Flow Length=867' Tc=40.4 min CN=78 Runoff=6.56 cfs 0.989 af

Subcatchment20: Runoff Area=2.620 ac 0.00% Impervious Runoff Depth=1.12"
Flow Length=240' Tc=20.2 min CN=79 Runoff=2.23 cfs 0.244 af

Reach DP-1: Eastern Property Line Inflow=6.56 cfs 0.989 af
Outflow=6.56 cfs 0.989 af

Reach DP-2: Western Property Line Inflow=2.23 cfs 0.244 af
Outflow=2.23 cfs 0.244 af

Total Runoff Area = 13.830 ac Runoff Volume = 1.232 af Average Runoff Depth = 1.07"
98.63% Pervious = 13.640 ac 1.37% Impervious = 0.190 ac

Summary for Subcatchment 10:

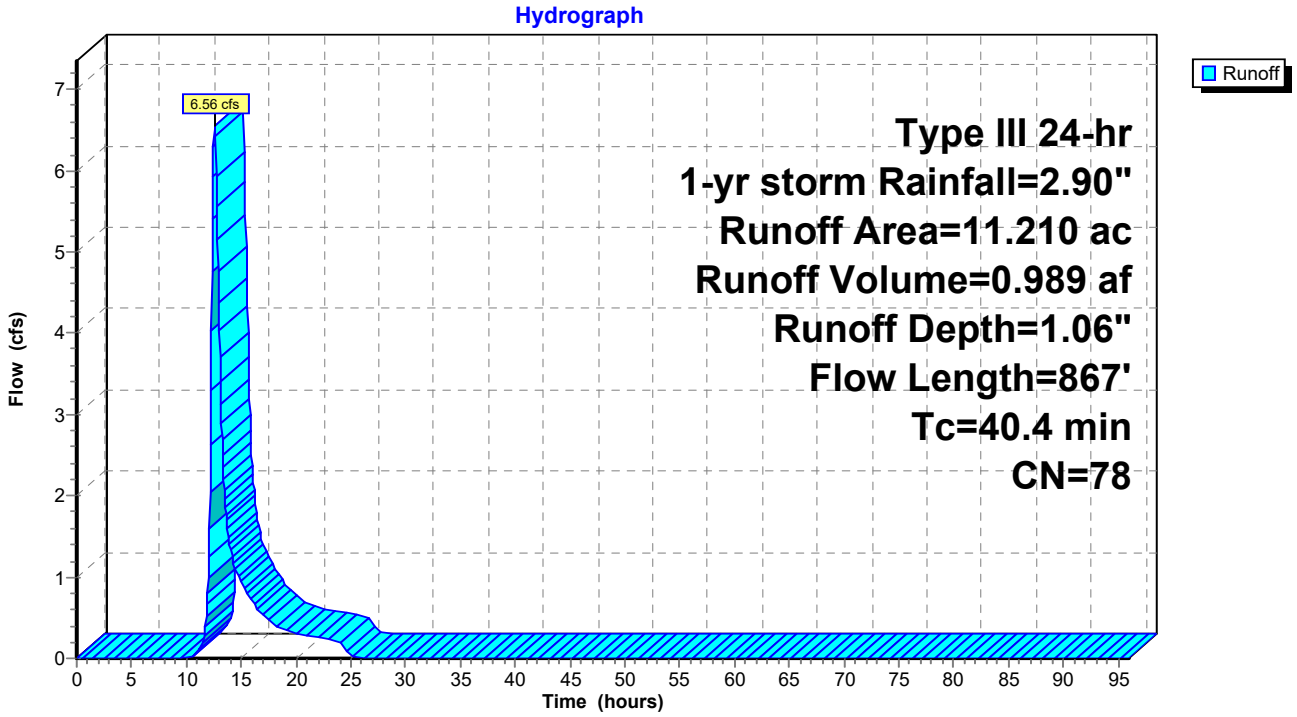
Runoff = 6.56 cfs @ 12.59 hrs, Volume= 0.989 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-yr storm Rainfall=2.90"

	Area (ac)	CN	Description
*	0.190	98	Impervious Surface
	2.670	73	Woods, Fair, HSG C
	6.910	79	Pasture/grassland/range, Fair, HSG C
	0.190	79	Woods, Fair, HSG D
	1.250	84	Pasture/grassland/range, Fair, HSG D
	11.210	78	Weighted Average
	11.020		98.31% Pervious Area
	0.190		1.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	63	0.0100	0.05		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.16"
5.9	37	0.0100	0.11		**Sheet Flow, B-C** Grass: Short n= 0.150 P2= 3.16"
13.0	690	0.0160	0.89		**Shallow Concentrated Flow, C-D** Short Grass Pasture Kv= 7.0 fps
1.8	77	0.0200	0.71		**Shallow Concentrated Flow, D-E** Woodland Kv= 5.0 fps
40.4	867	Total			

Subcatchment 10:



Summary for Subcatchment 20:

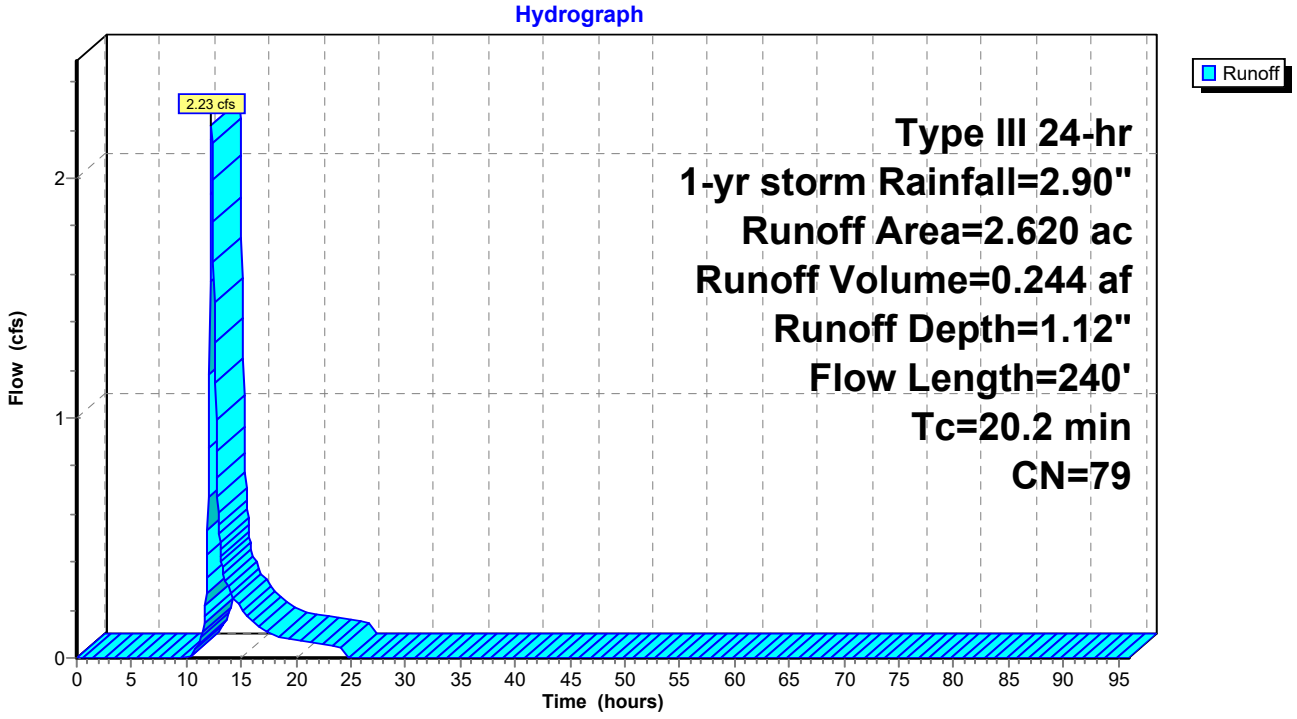
Runoff = 2.23 cfs @ 12.30 hrs, Volume= 0.244 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-yr storm Rainfall=2.90"

Area (ac)	CN	Description
0.560	73	Woods, Fair, HSG C
0.260	79	Pasture/grassland/range, Fair, HSG C
1.100	79	Woods, Fair, HSG D
0.700	84	Pasture/grassland/range, Fair, HSG D
2.620	79	Weighted Average
2.620		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	42	0.0100	0.11		**Sheet Flow, A-B** Grass: Short n= 0.150 P2= 3.16"
11.4	58	0.0330	0.08		**Sheet Flow, B-C** Woods: Light underbrush n= 0.400 P2= 3.16"
2.3	140	0.0430	1.04		**Shallow Concentrated Flow, C-D** Woodland Kv= 5.0 fps
20.2	240	Total			

Subcatchment 20:



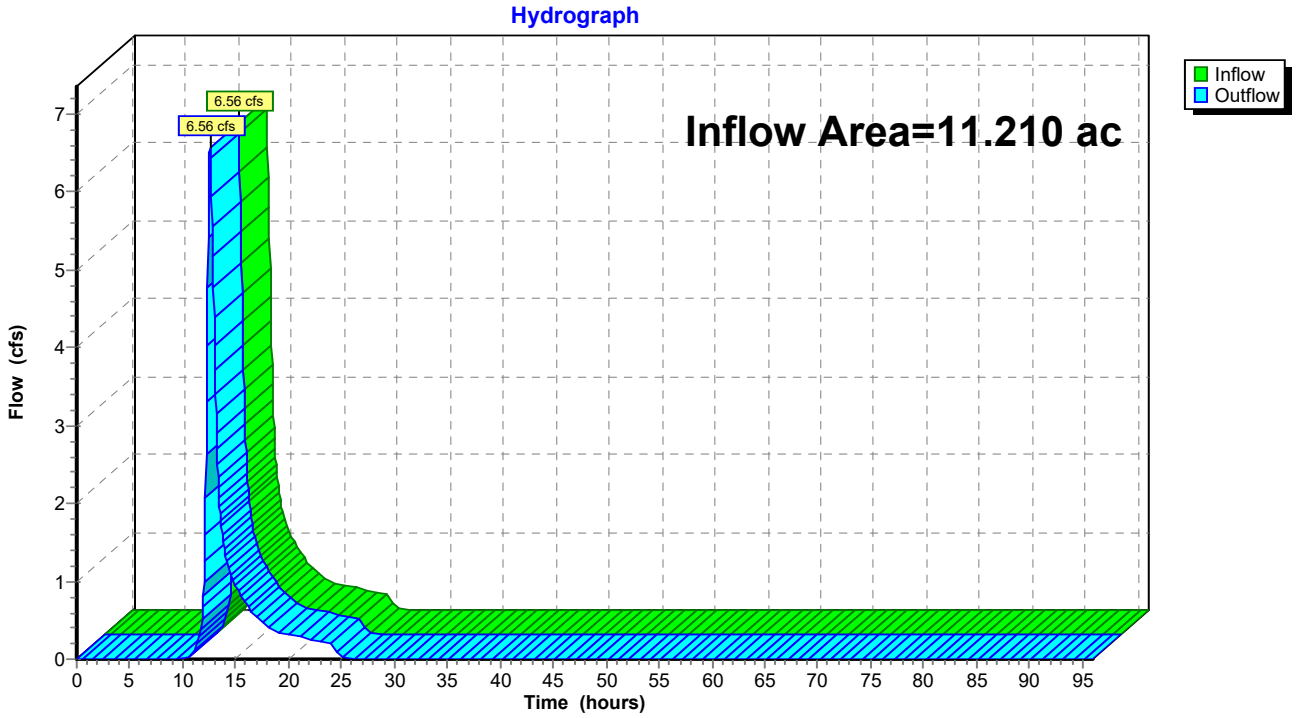
Summary for Reach DP-1: Eastern Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 11.210 ac, 1.69% Impervious, Inflow Depth = 1.06" for 1-yr storm event
Inflow = 6.56 cfs @ 12.59 hrs, Volume= 0.989 af
Outflow = 6.56 cfs @ 12.59 hrs, Volume= 0.989 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-1: Eastern Property Line



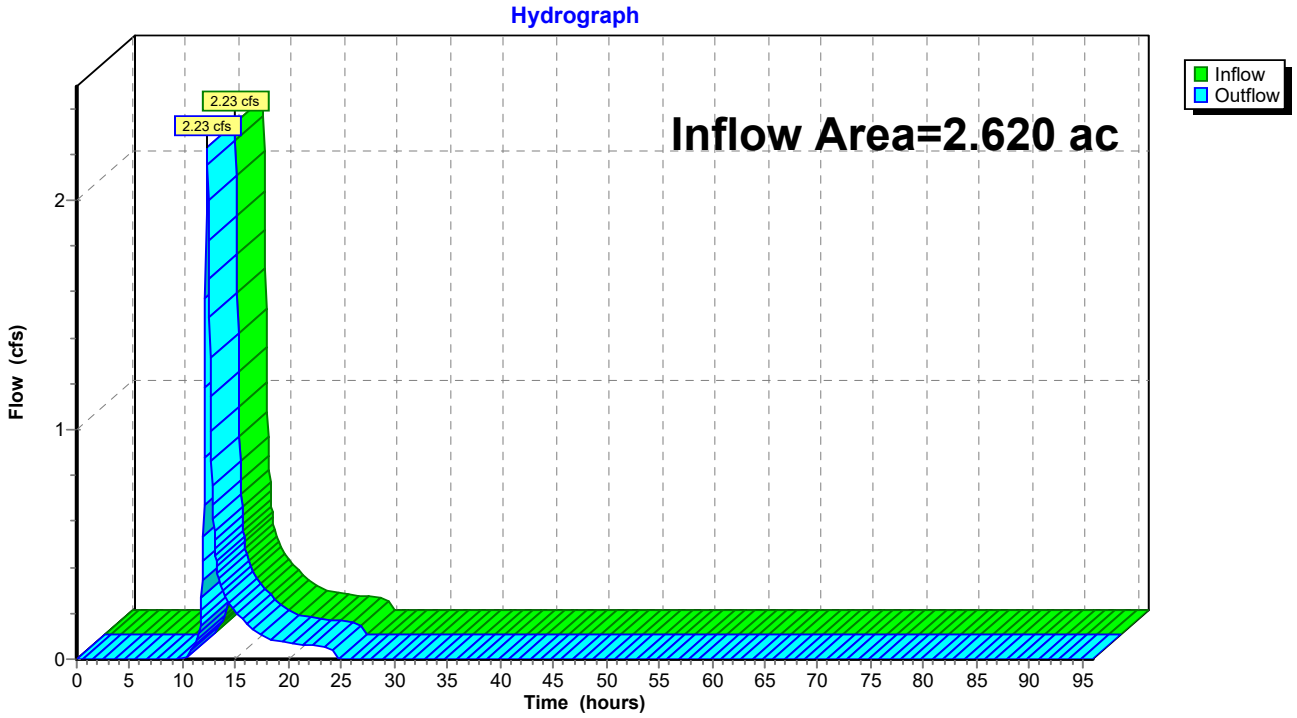
Summary for Reach DP-2: Western Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.620 ac, 0.00% Impervious, Inflow Depth = 1.12" for 1-yr storm event
Inflow = 2.23 cfs @ 12.30 hrs, Volume= 0.244 af
Outflow = 2.23 cfs @ 12.30 hrs, Volume= 0.244 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-2: Western Property Line



Time span=0.00-96.00 hrs, dt=0.05 hrs, 1921 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment10: Runoff Area=11.210 ac 1.69% Impervious Runoff Depth=3.14"
Flow Length=867' Tc=40.4 min CN=78 Runoff=20.20 cfs 2.934 af

Subcatchment20: Runoff Area=2.620 ac 0.00% Impervious Runoff Depth=3.24"
Flow Length=240' Tc=20.2 min CN=79 Runoff=6.65 cfs 0.707 af

Reach DP-1: Eastern Property Line Inflow=20.20 cfs 2.934 af
Outflow=20.20 cfs 2.934 af

Reach DP-2: Western Property Line Inflow=6.65 cfs 0.707 af
Outflow=6.65 cfs 0.707 af

Total Runoff Area = 13.830 ac Runoff Volume = 3.641 af Average Runoff Depth = 3.16"
98.63% Pervious = 13.640 ac 1.37% Impervious = 0.190 ac

Summary for Subcatchment 10:

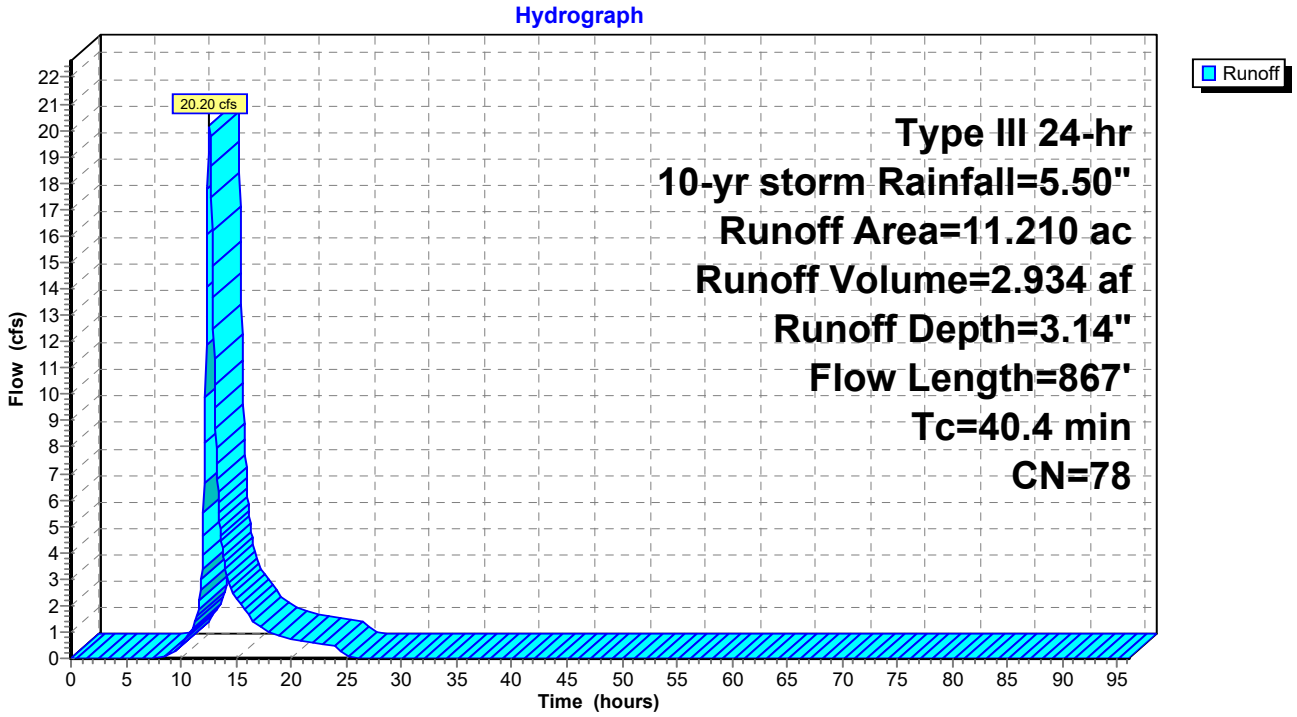
Runoff = 20.20 cfs @ 12.56 hrs, Volume= 2.934 af, Depth= 3.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr storm Rainfall=5.50"

	Area (ac)	CN	Description
*	0.190	98	Impervious Surface
	2.670	73	Woods, Fair, HSG C
	6.910	79	Pasture/grassland/range, Fair, HSG C
	0.190	79	Woods, Fair, HSG D
	1.250	84	Pasture/grassland/range, Fair, HSG D
	11.210	78	Weighted Average
	11.020		98.31% Pervious Area
	0.190		1.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	63	0.0100	0.05		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.16"
5.9	37	0.0100	0.11		**Sheet Flow, B-C** Grass: Short n= 0.150 P2= 3.16"
13.0	690	0.0160	0.89		**Shallow Concentrated Flow, C-D** Short Grass Pasture Kv= 7.0 fps
1.8	77	0.0200	0.71		**Shallow Concentrated Flow, D-E** Woodland Kv= 5.0 fps
40.4	867	Total			

Subcatchment 10:



Summary for Subcatchment 20:

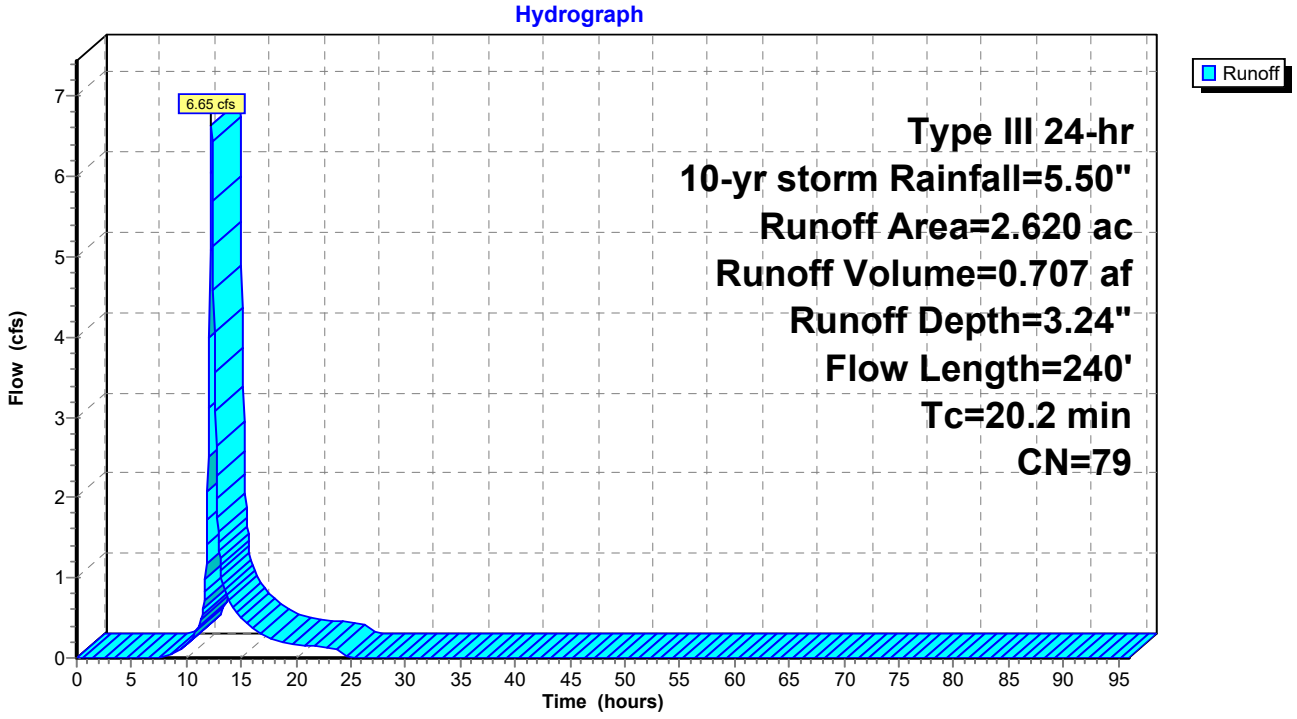
Runoff = 6.65 cfs @ 12.28 hrs, Volume= 0.707 af, Depth= 3.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr storm Rainfall=5.50"

Area (ac)	CN	Description
0.560	73	Woods, Fair, HSG C
0.260	79	Pasture/grassland/range, Fair, HSG C
1.100	79	Woods, Fair, HSG D
0.700	84	Pasture/grassland/range, Fair, HSG D
2.620	79	Weighted Average
2.620		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	42	0.0100	0.11		**Sheet Flow, A-B** Grass: Short n= 0.150 P2= 3.16"
11.4	58	0.0330	0.08		**Sheet Flow, B-C** Woods: Light underbrush n= 0.400 P2= 3.16"
2.3	140	0.0430	1.04		**Shallow Concentrated Flow, C-D** Woodland Kv= 5.0 fps
20.2	240	Total			

Subcatchment 20:



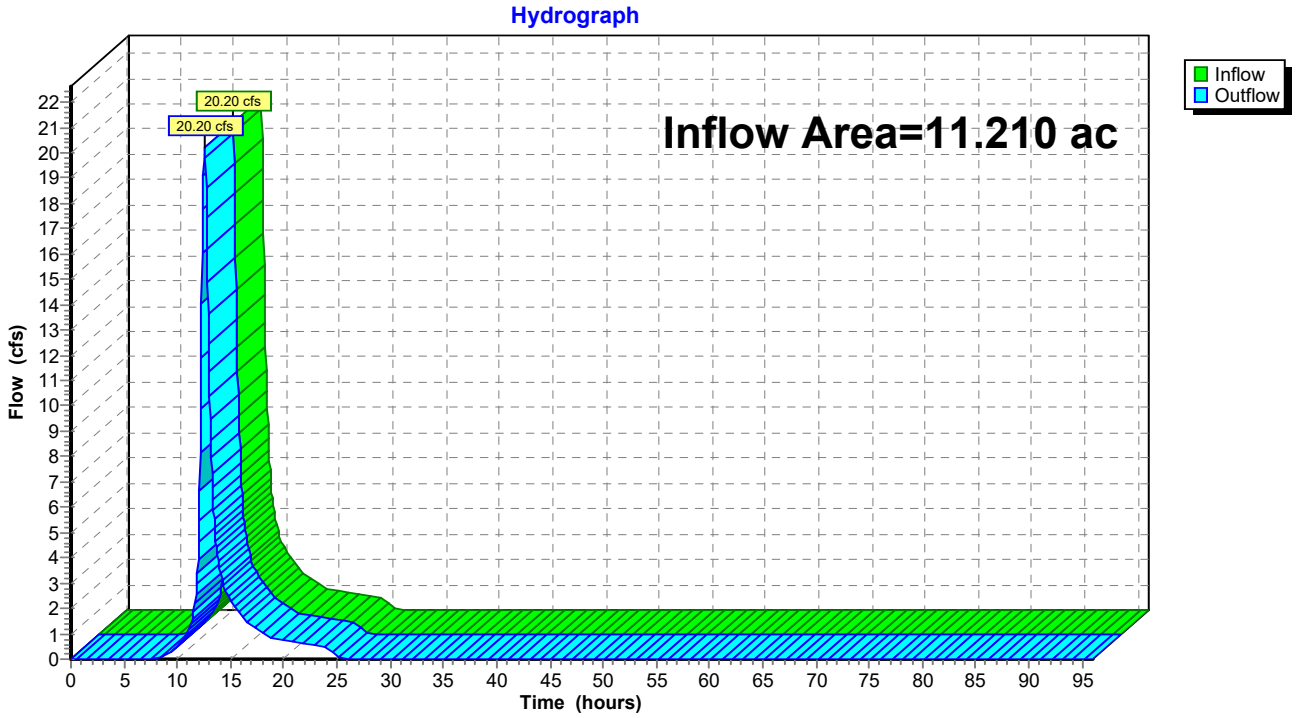
Summary for Reach DP-1: Eastern Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 11.210 ac, 1.69% Impervious, Inflow Depth = 3.14" for 10-yr storm event
Inflow = 20.20 cfs @ 12.56 hrs, Volume= 2.934 af
Outflow = 20.20 cfs @ 12.56 hrs, Volume= 2.934 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-1: Eastern Property Line



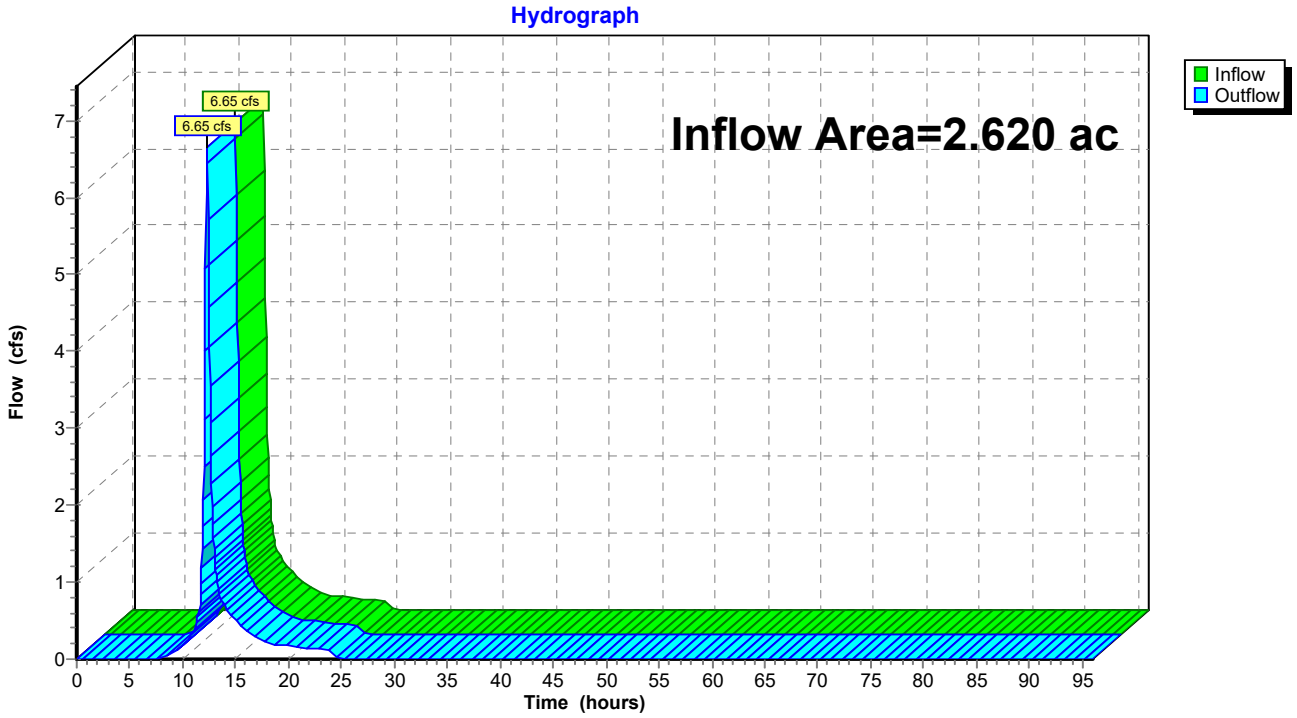
Summary for Reach DP-2: Western Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.620 ac, 0.00% Impervious, Inflow Depth = 3.24" for 10-yr storm event
Inflow = 6.65 cfs @ 12.28 hrs, Volume= 0.707 af
Outflow = 6.65 cfs @ 12.28 hrs, Volume= 0.707 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-2: Western Property Line



Time span=0.00-96.00 hrs, dt=0.05 hrs, 1921 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment10: Runoff Area=11.210 ac 1.69% Impervious Runoff Depth=5.73"
Flow Length=867' Tc=40.4 min CN=78 Runoff=36.59 cfs 5.357 af

Subcatchment20: Runoff Area=2.620 ac 0.00% Impervious Runoff Depth=5.85"
Flow Length=240' Tc=20.2 min CN=79 Runoff=11.92 cfs 1.278 af

Reach DP-1: Eastern Property Line Inflow=36.59 cfs 5.357 af
Outflow=36.59 cfs 5.357 af

Reach DP-2: Western Property Line Inflow=11.92 cfs 1.278 af
Outflow=11.92 cfs 1.278 af

Total Runoff Area = 13.830 ac Runoff Volume = 6.635 af Average Runoff Depth = 5.76"
98.63% Pervious = 13.640 ac 1.37% Impervious = 0.190 ac

Summary for Subcatchment 10:

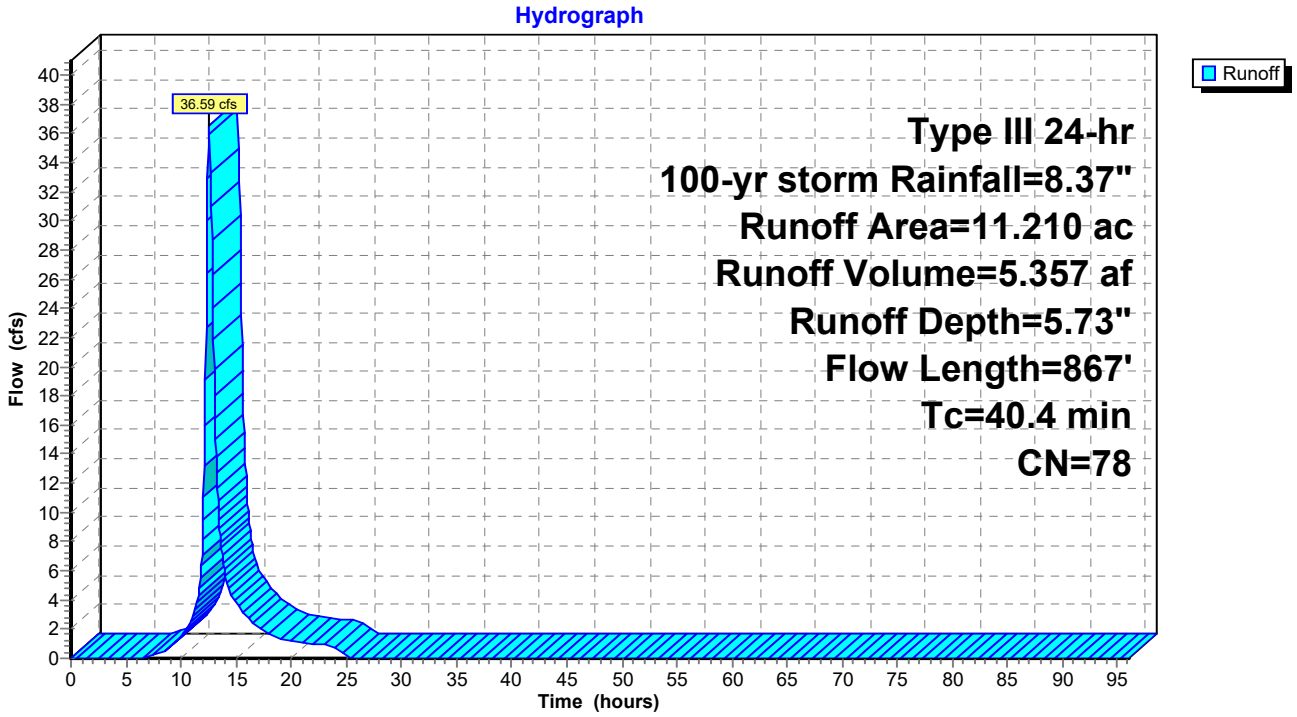
Runoff = 36.59 cfs @ 12.55 hrs, Volume= 5.357 af, Depth= 5.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr storm Rainfall=8.37"

	Area (ac)	CN	Description
*	0.190	98	Impervious Surface
	2.670	73	Woods, Fair, HSG C
	6.910	79	Pasture/grassland/range, Fair, HSG C
	0.190	79	Woods, Fair, HSG D
	1.250	84	Pasture/grassland/range, Fair, HSG D
	11.210	78	Weighted Average
	11.020		98.31% Pervious Area
	0.190		1.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	63	0.0100	0.05		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.16"
5.9	37	0.0100	0.11		**Sheet Flow, B-C** Grass: Short n= 0.150 P2= 3.16"
13.0	690	0.0160	0.89		**Shallow Concentrated Flow, C-D** Short Grass Pasture Kv= 7.0 fps
1.8	77	0.0200	0.71		**Shallow Concentrated Flow, D-E** Woodland Kv= 5.0 fps
40.4	867	Total			

Subcatchment 10:



Summary for Subcatchment 20:

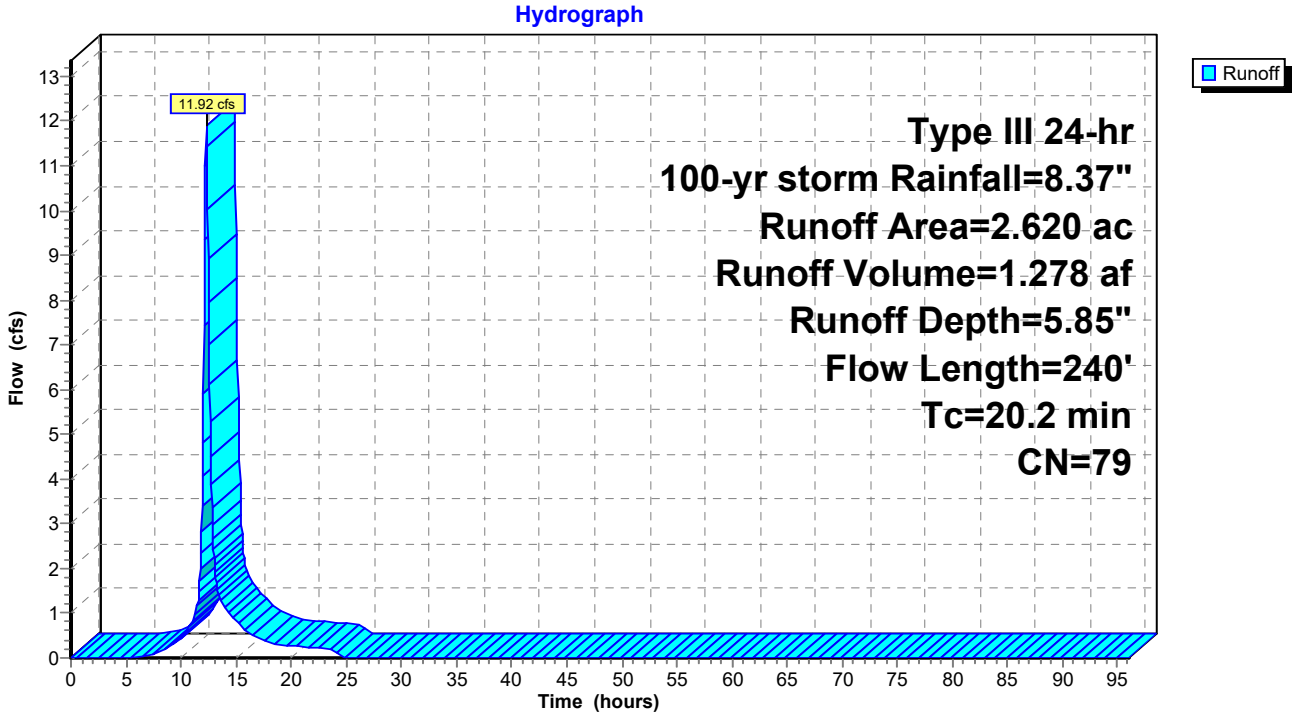
Runoff = 11.92 cfs @ 12.27 hrs, Volume= 1.278 af, Depth= 5.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr storm Rainfall=8.37"

Area (ac)	CN	Description
0.560	73	Woods, Fair, HSG C
0.260	79	Pasture/grassland/range, Fair, HSG C
1.100	79	Woods, Fair, HSG D
0.700	84	Pasture/grassland/range, Fair, HSG D
2.620	79	Weighted Average
2.620		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	42	0.0100	0.11		**Sheet Flow, A-B** Grass: Short n= 0.150 P2= 3.16"
11.4	58	0.0330	0.08		**Sheet Flow, B-C** Woods: Light underbrush n= 0.400 P2= 3.16"
2.3	140	0.0430	1.04		**Shallow Concentrated Flow, C-D** Woodland Kv= 5.0 fps
20.2	240	Total			

Subcatchment 20:



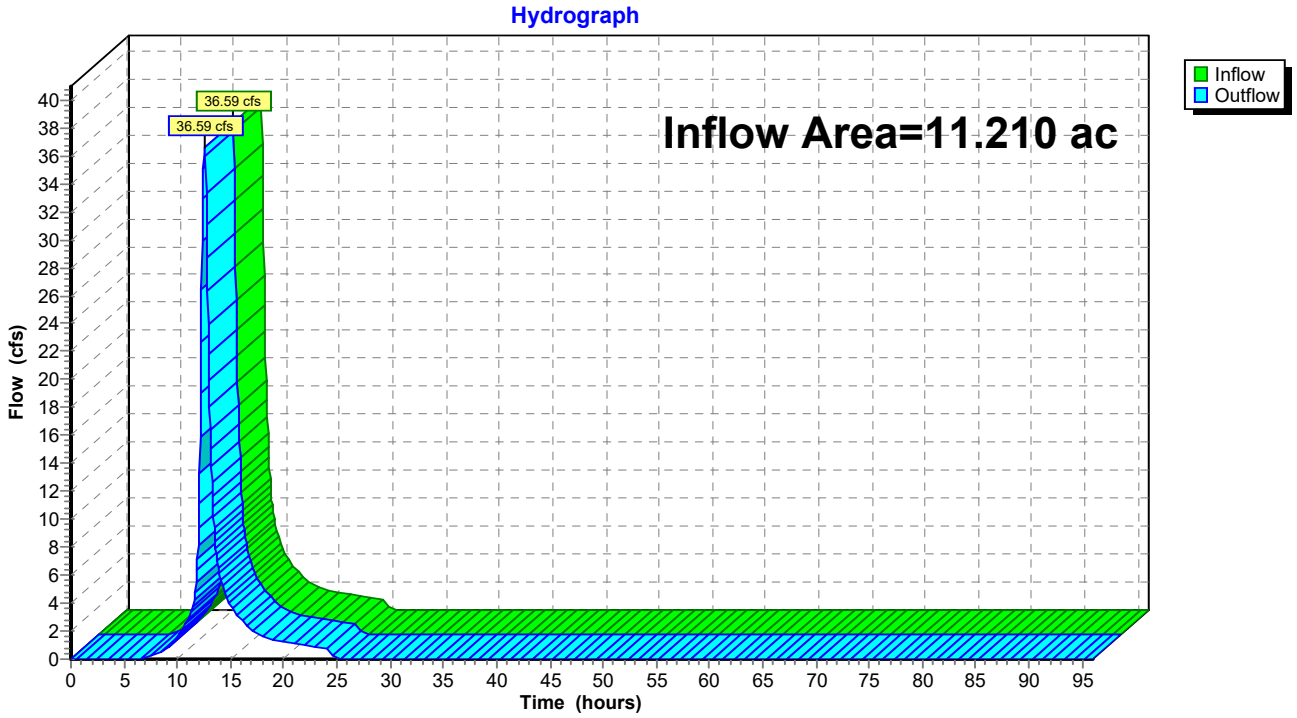
Summary for Reach DP-1: Eastern Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 11.210 ac, 1.69% Impervious, Inflow Depth = 5.73" for 100-yr storm event
Inflow = 36.59 cfs @ 12.55 hrs, Volume= 5.357 af
Outflow = 36.59 cfs @ 12.55 hrs, Volume= 5.357 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-1: Eastern Property Line



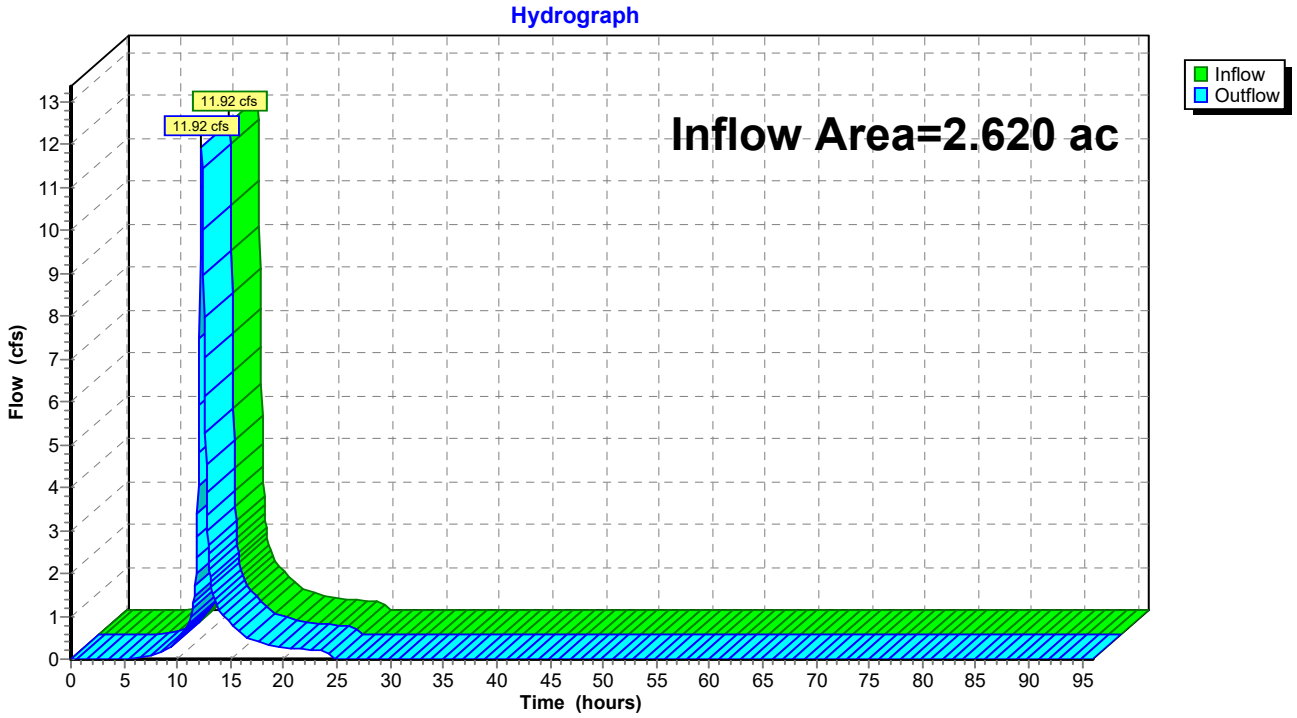
Summary for Reach DP-2: Western Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.620 ac, 0.00% Impervious, Inflow Depth = 5.85" for 100-yr storm event
Inflow = 11.92 cfs @ 12.27 hrs, Volume= 1.278 af
Outflow = 11.92 cfs @ 12.27 hrs, Volume= 1.278 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-2: Western Property Line



Newburgh Commerce Center
124 Route 17K
Town of Newburgh, NY

Appendix G: Post-Development Stormwater Analysis

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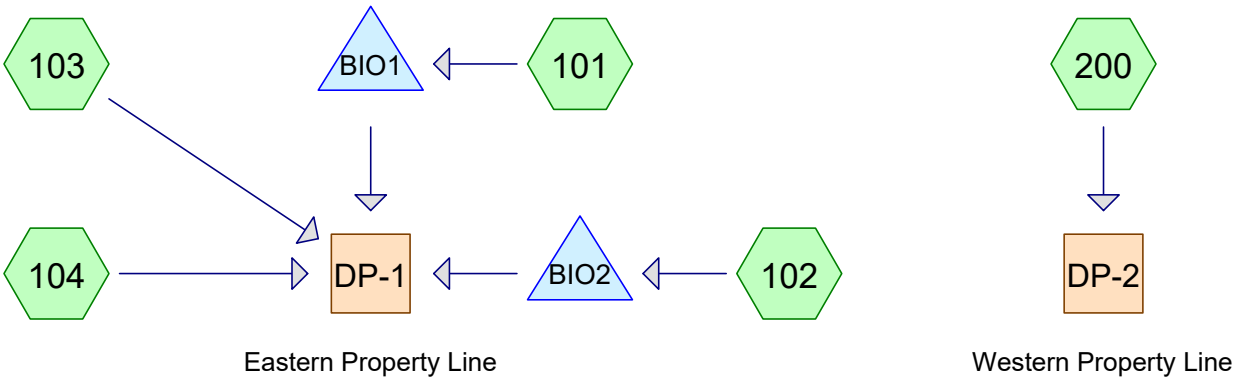


Subcat Reach Pond Link

Routing Diagram for 2021-11-08 Proposed Conditions - Building to Bio 1

Prepared by Langan Eng & Env Srvcs, Inc, Printed 11/8/2021

Time span=0.00-96.00 hrs, dt=0.05 hrs, 1921 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101: Runoff Area=8.580 ac 67.83% Impervious Runoff Depth=1.98"
Tc=6.0 min CN=91 Runoff=19.24 cfs 1.414 af

Subcatchment102: Runoff Area=1.580 ac 63.92% Impervious Runoff Depth=1.89"
Tc=6.0 min CN=90 Runoff=3.41 cfs 0.249 af

Subcatchment103: Runoff Area=1.010 ac 30.69% Impervious Runoff Depth=1.37"
Tc=6.0 min CN=83 Runoff=1.58 cfs 0.115 af

Subcatchment104: Runoff Area=2.230 ac 0.00% Impervious Runoff Depth=1.00"
Tc=6.0 min CN=77 Runoff=2.47 cfs 0.186 af

Subcatchment200: Runoff Area=0.440 ac 0.00% Impervious Runoff Depth=1.06"
Flow Length=100' Slope=0.0400 '/' Tc=16.4 min CN=78 Runoff=0.38 cfs 0.039 af

Reach DP-1: Eastern Property Line Inflow=4.31 cfs 1.965 af
Outflow=4.31 cfs 1.965 af

Reach DP-2: Western Property Line Inflow=0.38 cfs 0.039 af
Outflow=0.38 cfs 0.039 af

Pond BIO1: Peak Elev=439.13' Storage=38,715 cf Inflow=19.24 cfs 1.414 af
Outflow=0.79 cfs 1.415 af

Pond BIO2: Peak Elev=437.66' Storage=5,508 cf Inflow=3.41 cfs 0.249 af
Outflow=0.37 cfs 0.249 af

Total Runoff Area = 13.840 ac Runoff Volume = 2.004 af Average Runoff Depth = 1.74"
48.41% Pervious = 6.700 ac 51.59% Impervious = 7.140 ac

Summary for Subcatchment 101:

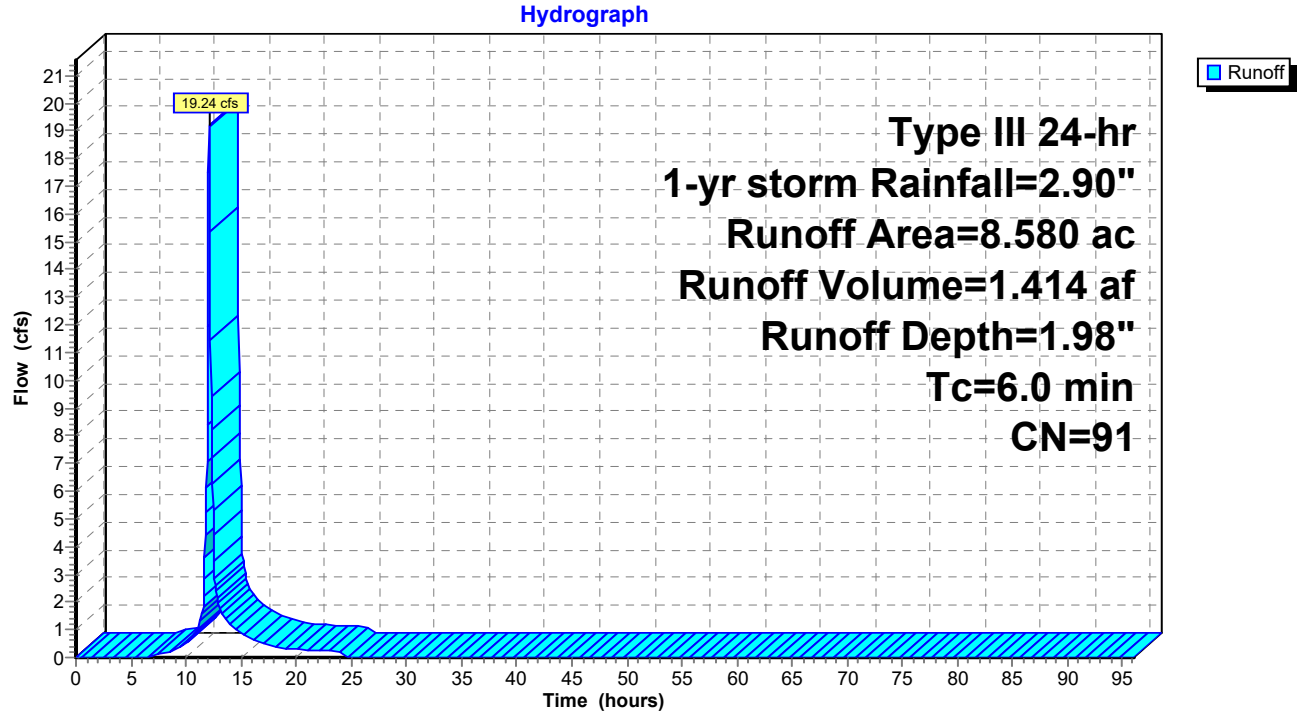
Runoff = 19.24 cfs @ 12.09 hrs, Volume= 1.414 af, Depth= 1.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-yr storm Rainfall=2.90"

	Area (ac)	CN	Description
*	5.820	98	Impervious Surface
	0.280	73	Woods, Fair, HSG C
	1.220	79	Pasture/grassland/range, Fair, HSG C
*	0.760	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.500	84	Pasture/grassland/range, Fair, HSG D
	8.580	91	Weighted Average
	2.760		32.17% Pervious Area
	5.820		67.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 101:



Summary for Subcatchment 102:

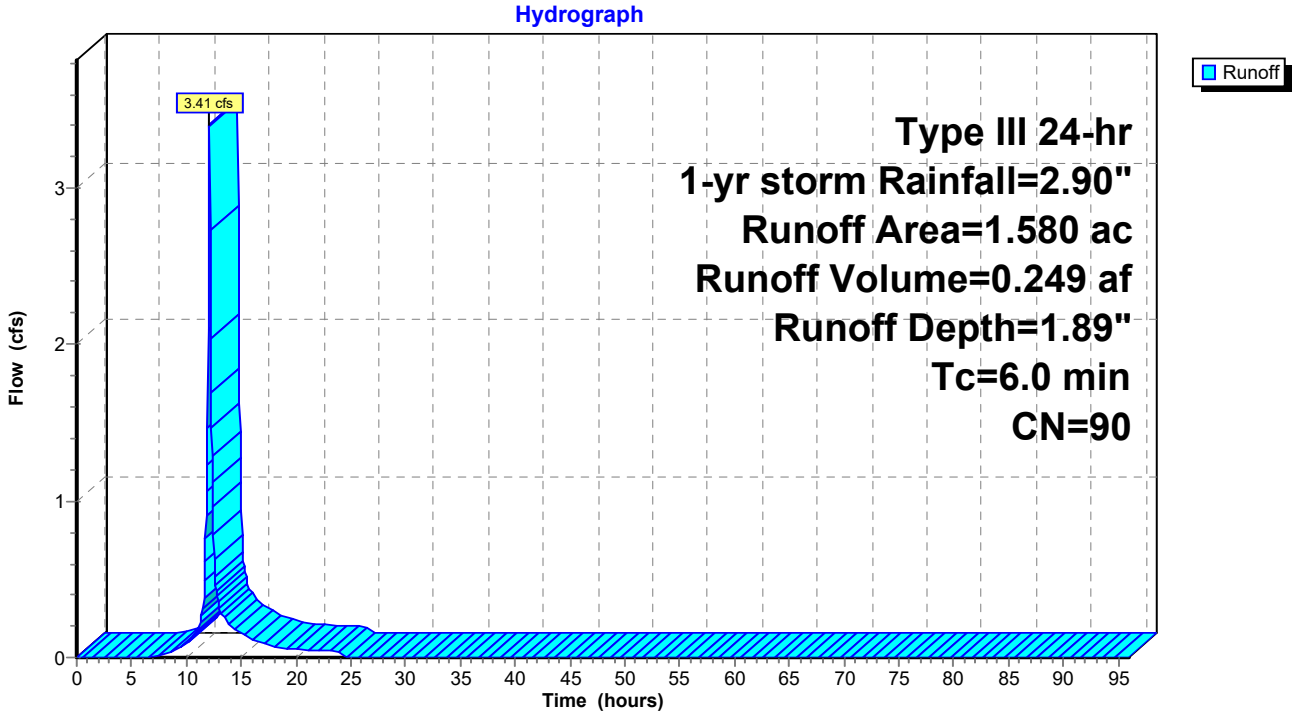
Runoff = 3.41 cfs @ 12.09 hrs, Volume= 0.249 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-yr storm Rainfall=2.90"

	Area (ac)	CN	Description
*	1.010	98	Impervious Surface
	0.000	73	Woods, Fair, HSG C
	0.390	79	Pasture/grassland/range, Fair, HSG C
*	0.180	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.580	90	Weighted Average
	0.570		36.08% Pervious Area
	1.010		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 102:



Summary for Subcatchment 103:

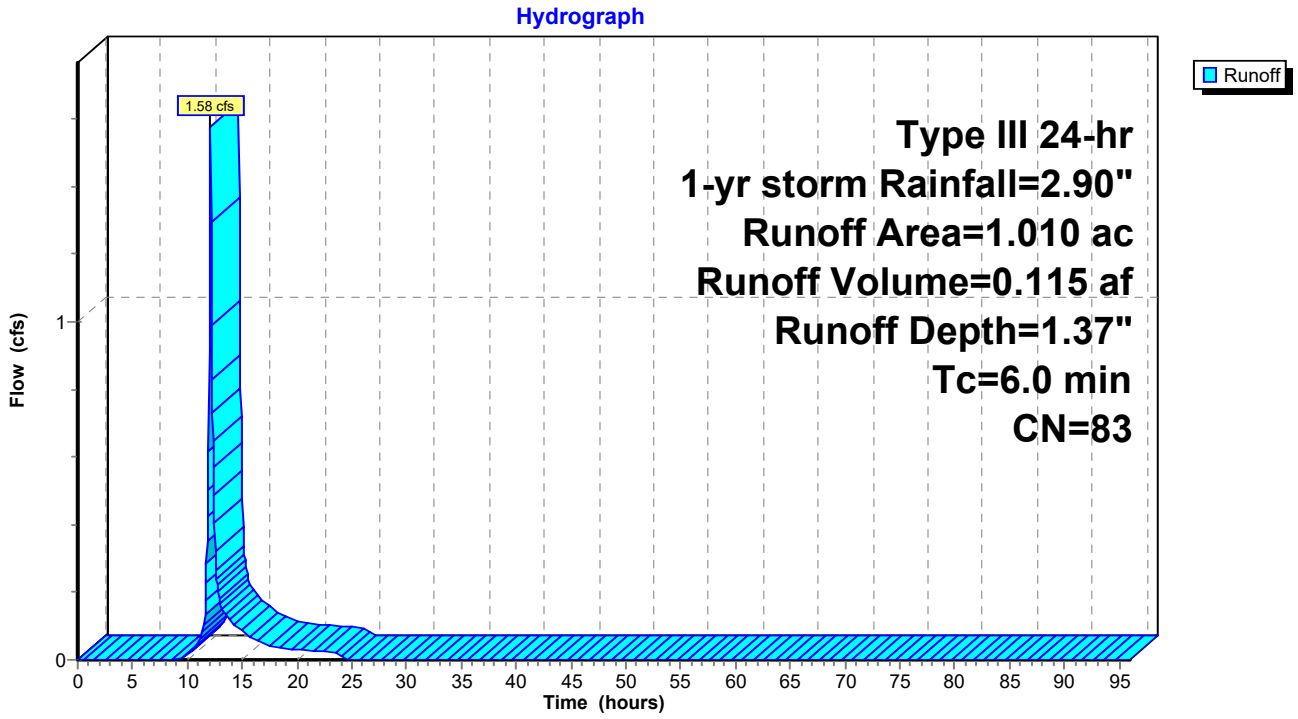
Runoff = 1.58 cfs @ 12.09 hrs, Volume= 0.115 af, Depth= 1.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-yr storm Rainfall=2.90"

	Area (ac)	CN	Description
*	0.310	98	Impervious Surface
	0.320	73	Woods, Fair, HSG C
	0.380	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.010	83	Weighted Average
	0.700		69.31% Pervious Area
	0.310		30.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 103:



Summary for Subcatchment 104:

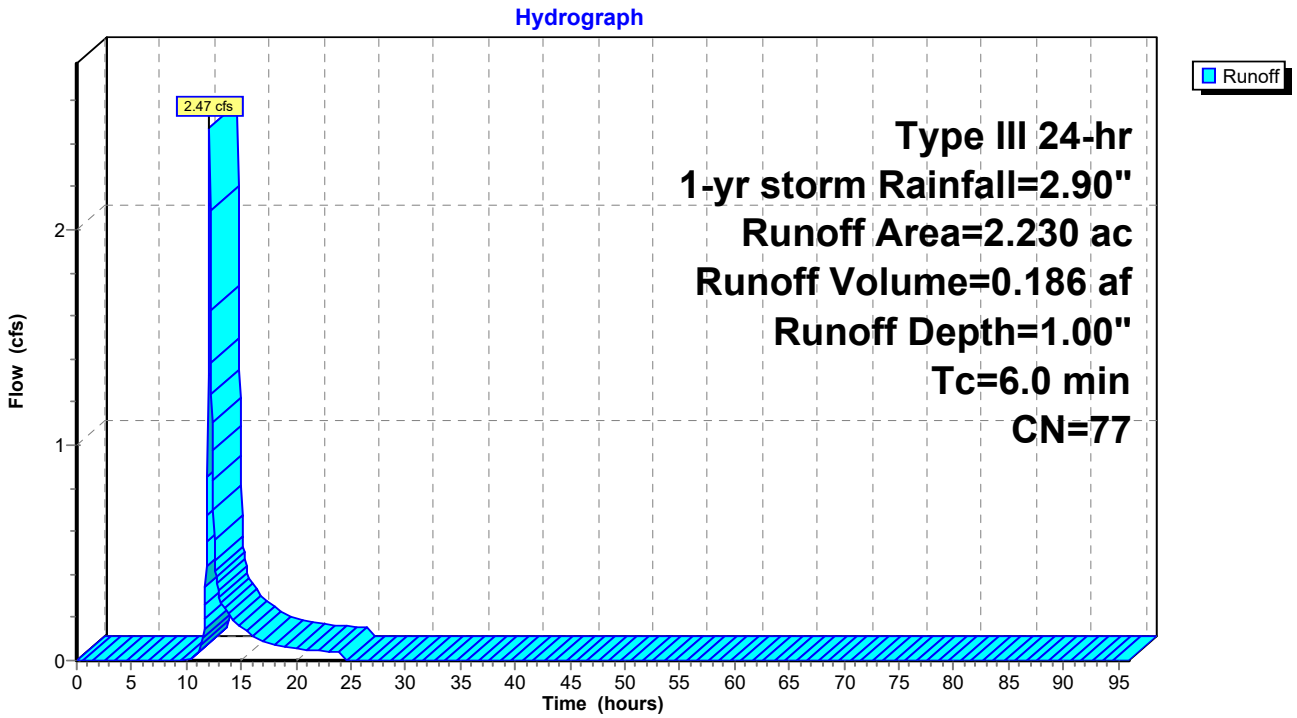
Runoff = 2.47 cfs @ 12.10 hrs, Volume= 0.186 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-yr storm Rainfall=2.90"

	Area (ac)	CN	Description
*	0.000	98	Impervious Surface
	0.730	73	Woods, Fair, HSG C
	1.500	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	2.230	77	Weighted Average
	2.230		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 104:



Summary for Subcatchment 200:

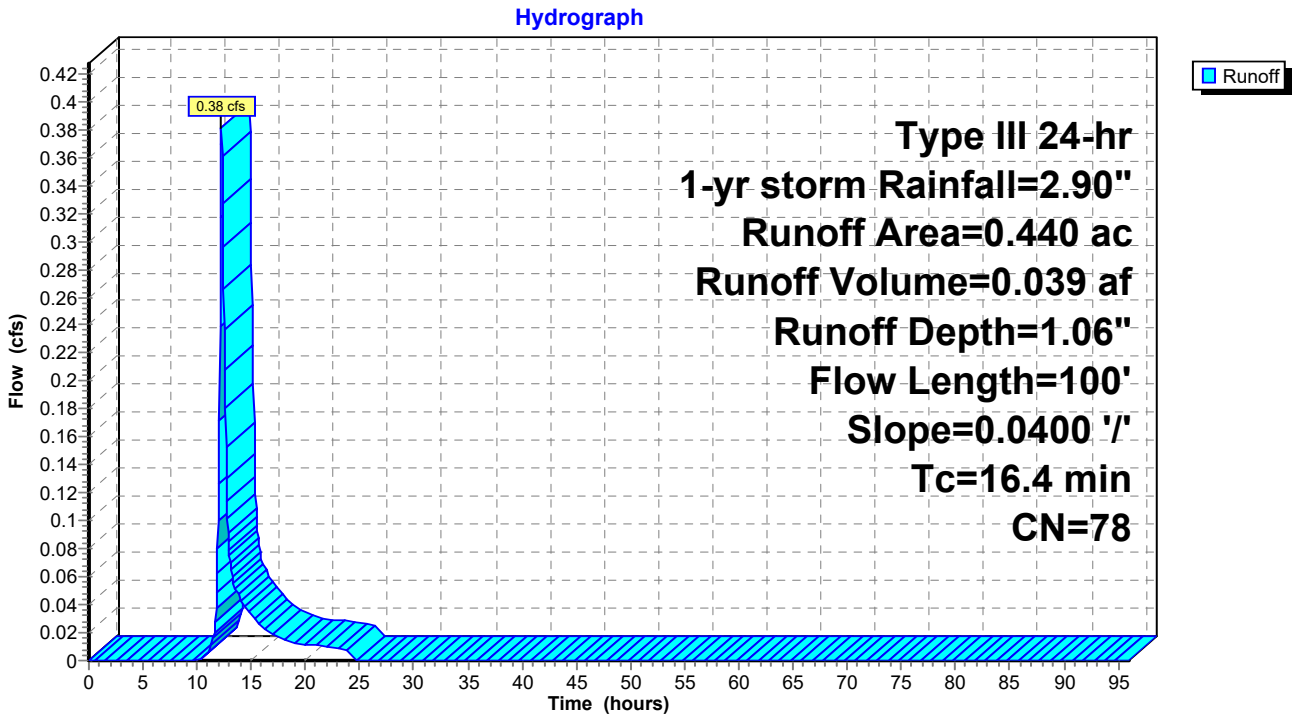
Runoff = 0.38 cfs @ 12.24 hrs, Volume= 0.039 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-yr storm Rainfall=2.90"

Area (ac)	CN	Description
0.060	73	Woods, Fair, HSG C
0.000	79	Pasture/grassland/range, Fair, HSG C
0.380	79	Woods, Fair, HSG D
0.000	84	Pasture/grassland/range, Fair, HSG D
0.440	78	Weighted Average
0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	100	0.0400	0.10		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.16"

Subcatchment 200:



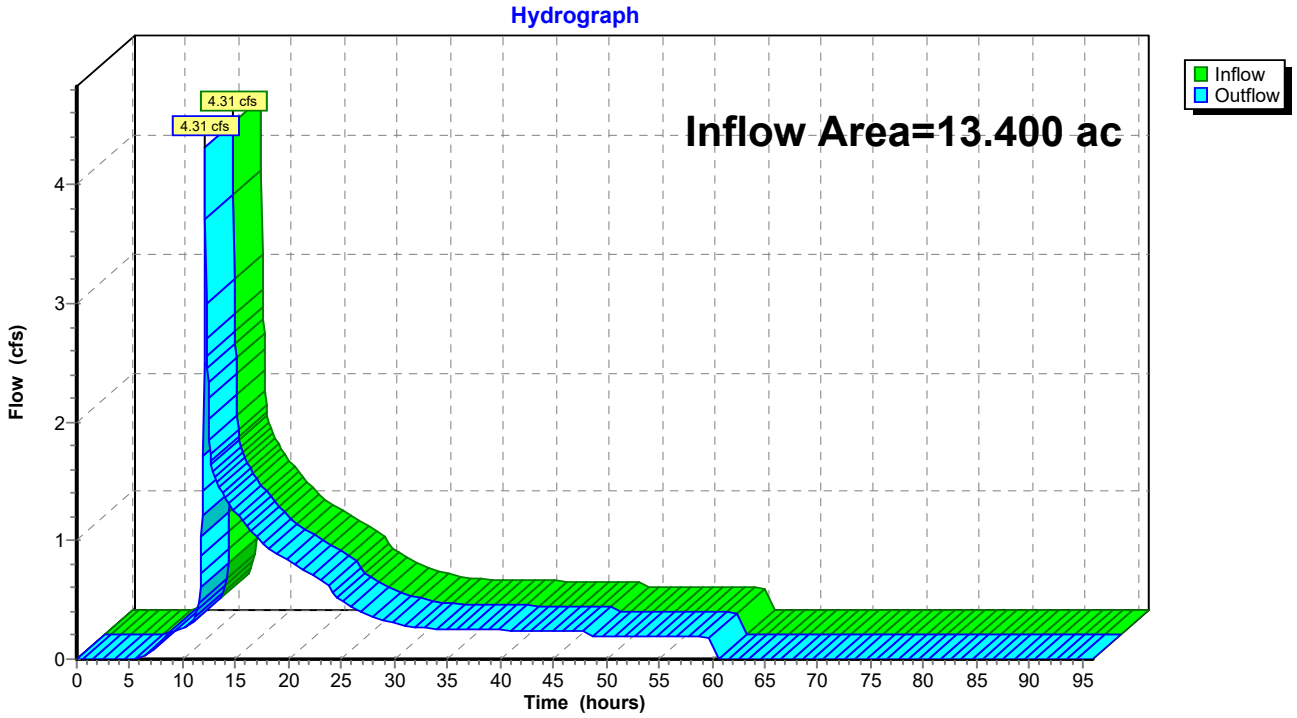
Summary for Reach DP-1: Eastern Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.400 ac, 53.28% Impervious, Inflow Depth = 1.76" for 1-yr storm event
Inflow = 4.31 cfs @ 12.10 hrs, Volume= 1.965 af
Outflow = 4.31 cfs @ 12.10 hrs, Volume= 1.965 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-1: Eastern Property Line



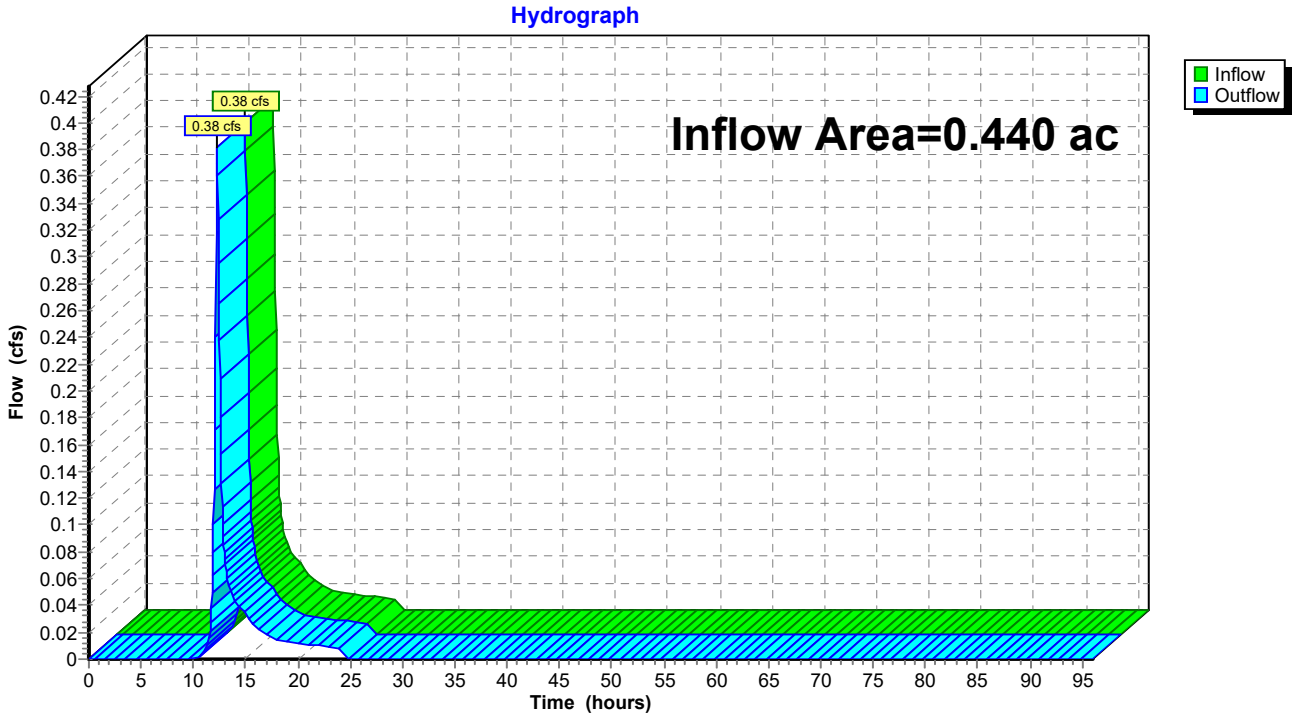
Summary for Reach DP-2: Western Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.440 ac, 0.00% Impervious, Inflow Depth = 1.06" for 1-yr storm event
Inflow = 0.38 cfs @ 12.24 hrs, Volume= 0.039 af
Outflow = 0.38 cfs @ 12.24 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-2: Western Property Line



Summary for Pond BIO1:

Inflow Area = 8.580 ac, 67.83% Impervious, Inflow Depth = 1.98" for 1-yr storm event
Inflow = 19.24 cfs @ 12.09 hrs, Volume= 1.414 af
Outflow = 0.79 cfs @ 15.36 hrs, Volume= 1.415 af, Atten= 96%, Lag= 195.9 min
Primary = 0.79 cfs @ 15.36 hrs, Volume= 1.415 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 439.13' @ 15.36 hrs Surf.Area= 35,513 sf Storage= 38,715 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 864.1 min (1,670.4 - 806.2)

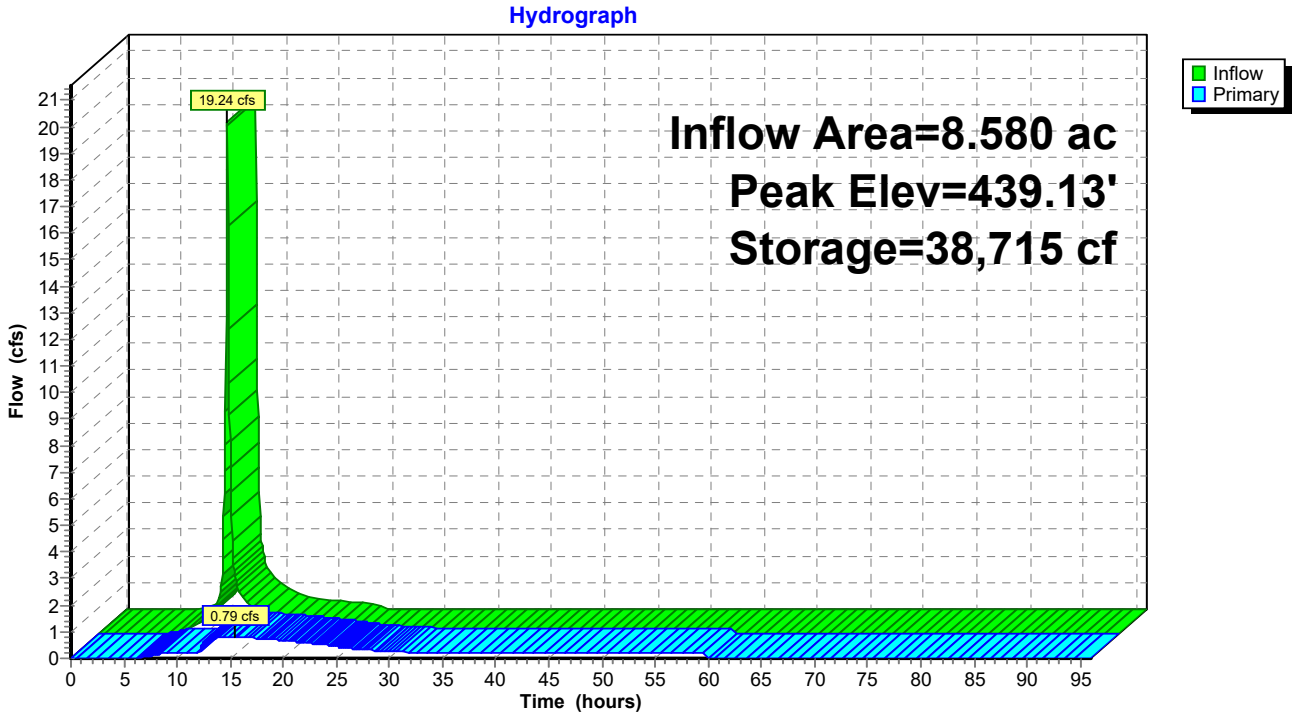
Volume	Invert	Avail.Storage	Storage Description
#1	438.00'	149,885 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
438.00	33,100	0	0
439.00	35,230	34,165	34,165
440.00	37,430	36,330	70,495
441.00	39,680	38,555	109,050
442.00	41,990	40,835	149,885

Device	Routing	Invert	Outlet Devices
#1	Primary	429.50'	**24.0" Round Culvert** L= 139.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 429.50' / 426.30' S= 0.0230 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	441.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.90'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	438.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	438.50'	**6.0" Vert. Orifice at 6" of ponding** C= 0.600
#6	Device 1	439.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.79 cfs @ 15.36 hrs HW=439.13' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 0.79 cfs of 35.08 cfs potential flow)
  - **2=Grate** (Controls 0.00 cfs)
  - **3=Underdrain Inlet** (Passes 0.21 cfs of 2.50 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.21 cfs)
  - **5=Orifice at 6" of ponding** (Orifice Controls 0.58 cfs @ 2.96 fps)
  - **6=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond BIO1:


Hydrograph
Inflow
Primary
19.24 cfs
0.79 cfs
Inflow Area=8.580 ac
Peak Elev=439.13'
Storage=38,715 cf
Flow (cfs)
Time (hours)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95

Summary for Pond BIO2:

Inflow Area = 1.580 ac, 63.92% Impervious, Inflow Depth = 1.89" for 1-yr storm event
Inflow = 3.41 cfs @ 12.09 hrs, Volume= 0.249 af
Outflow = 0.37 cfs @ 12.88 hrs, Volume= 0.249 af, Atten= 89%, Lag= 47.4 min
Primary = 0.37 cfs @ 12.88 hrs, Volume= 0.249 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 437.66' @ 12.88 hrs Surf.Area= 8,899 sf Storage= 5,508 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 587.7 min (1,398.4 - 810.8)

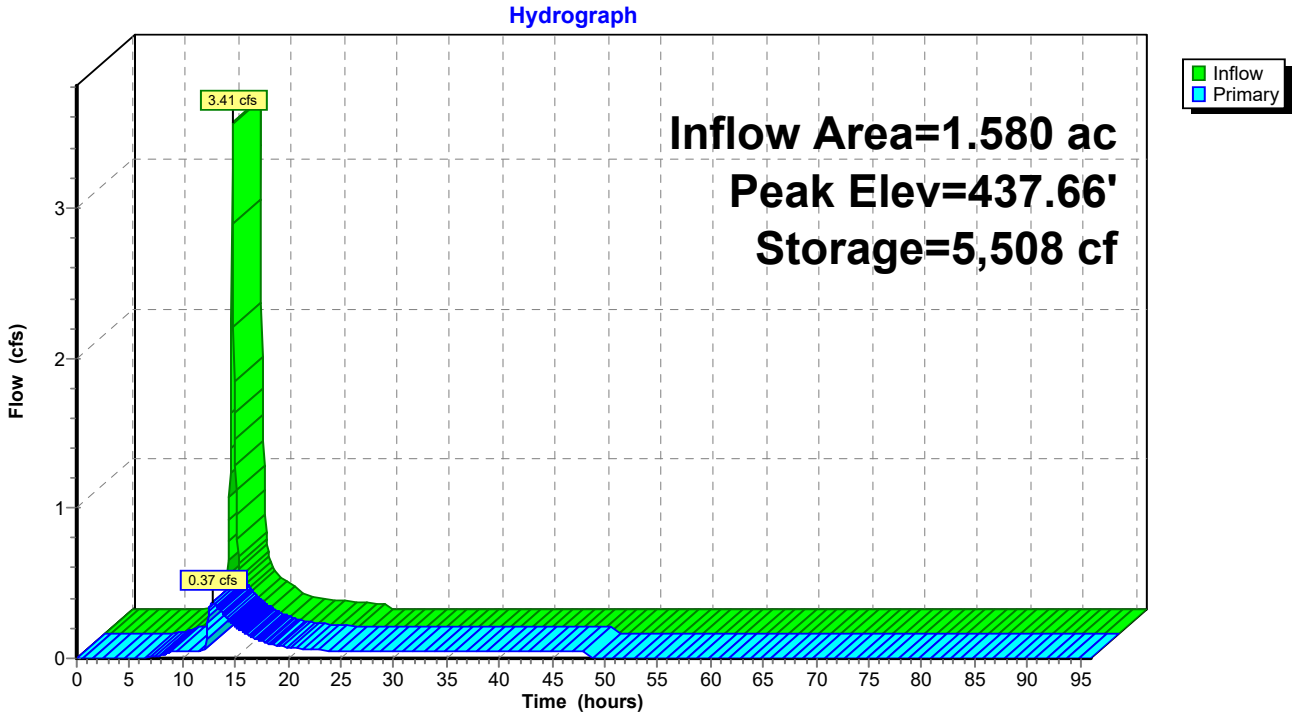
Volume	Invert	Avail.Storage	Storage Description
#1	437.00'	44,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
437.00	7,883	0	0
438.00	9,430	8,657	8,657
439.00	11,033	10,232	18,888
440.00	12,700	11,867	30,755
441.00	14,400	13,550	44,305

Device	Routing	Invert	Outlet Devices
#1	Primary	428.00'	**24.0" Round Culvert** L= 116.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 428.00' / 425.00' S= 0.0259 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	440.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.20'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	437.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	437.50'	**6.0" Horiz. Orifice at 6" of Ponding** C= 0.600 Limited to weir flow at low heads
#6	Device 1	438.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.37 cfs @ 12.88 hrs HW=437.66' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 0.37 cfs of 44.51 cfs potential flow)
  - **2=Grate** (Controls 0.00 cfs)
  - **3=Underdrain Inlet** (Passes 0.05 cfs of 2.36 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.05 cfs)
  - **5=Orifice at 6" of Ponding** (Weir Controls 0.32 cfs @ 1.29 fps)
  - **6=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond BIO2:


Hydrograph
Inflow
Primary
3.41 cfs
0.37 cfs
Inflow Area=1.580 ac
Peak Elev=437.66'
Storage=5,508 cf
Flow (cfs)
0
1
2
3
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95
Time (hours)

Time span=0.00-96.00 hrs, dt=0.05 hrs, 1921 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101: Runoff Area=8.580 ac 67.83% Impervious Runoff Depth=4.47"
Tc=6.0 min CN=91 Runoff=41.79 cfs 3.195 af

Subcatchment102: Runoff Area=1.580 ac 63.92% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=90 Runoff=7.57 cfs 0.574 af

Subcatchment103: Runoff Area=1.010 ac 30.69% Impervious Runoff Depth=3.63"
Tc=6.0 min CN=83 Runoff=4.17 cfs 0.306 af

Subcatchment104: Runoff Area=2.230 ac 0.00% Impervious Runoff Depth=3.05"
Tc=6.0 min CN=77 Runoff=7.81 cfs 0.566 af

Subcatchment200: Runoff Area=0.440 ac 0.00% Impervious Runoff Depth=3.14"
Flow Length=100' Slope=0.0400 '/' Tc=16.4 min CN=78 Runoff=1.18 cfs 0.115 af

Reach DP-1: Eastern Property Line Inflow=13.72 cfs 4.641 af
Outflow=13.72 cfs 4.641 af

Reach DP-2: Western Property Line Inflow=1.18 cfs 0.115 af
Outflow=1.18 cfs 0.115 af

Pond BIO1: Peak Elev=440.18' Storage=77,174 cf Inflow=41.79 cfs 3.195 af
Outflow=5.31 cfs 3.195 af

Pond BIO2: Peak Elev=438.42' Storage=12,805 cf Inflow=7.57 cfs 0.574 af
Outflow=0.97 cfs 0.574 af

Total Runoff Area = 13.840 ac Runoff Volume = 4.756 af Average Runoff Depth = 4.12"
48.41% Pervious = 6.700 ac 51.59% Impervious = 7.140 ac

Summary for Subcatchment 101:

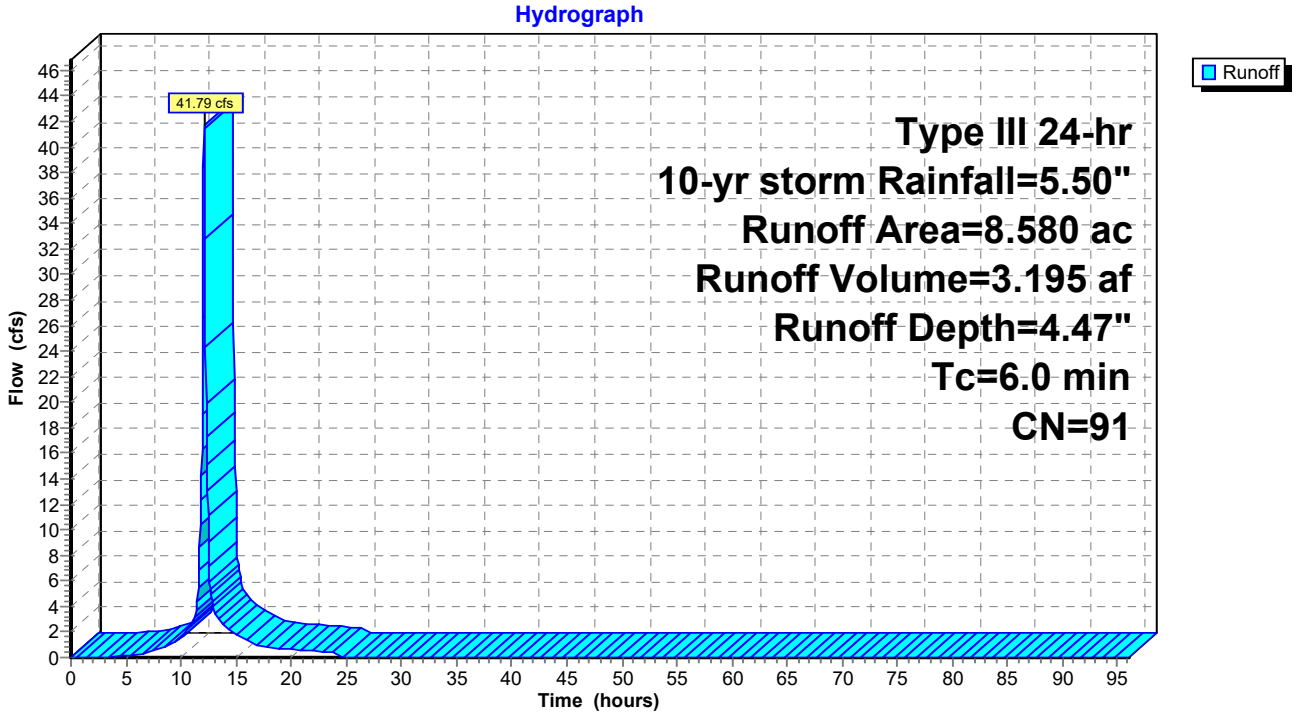
Runoff = 41.79 cfs @ 12.09 hrs, Volume= 3.195 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr storm Rainfall=5.50"

	Area (ac)	CN	Description
*	5.820	98	Impervious Surface
	0.280	73	Woods, Fair, HSG C
	1.220	79	Pasture/grassland/range, Fair, HSG C
*	0.760	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.500	84	Pasture/grassland/range, Fair, HSG D
	8.580	91	Weighted Average
	2.760		32.17% Pervious Area
	5.820		67.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 101:



Summary for Subcatchment 102:

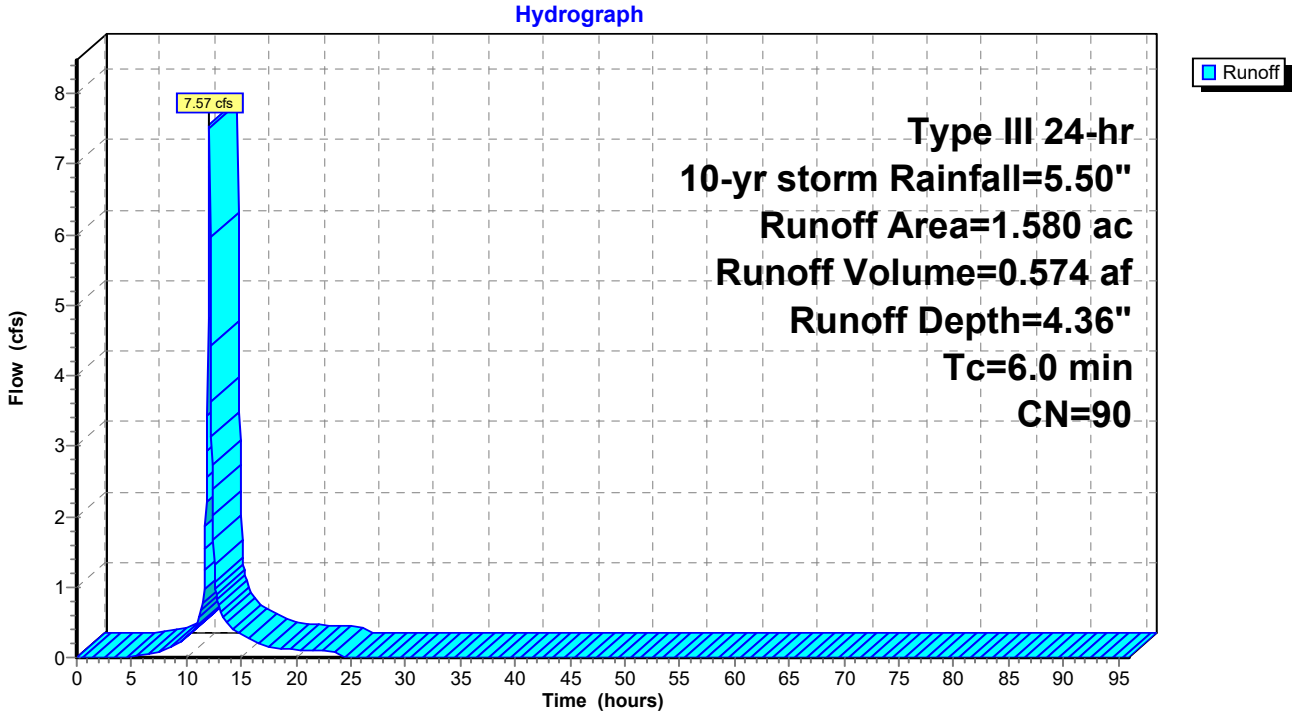
Runoff = 7.57 cfs @ 12.09 hrs, Volume= 0.574 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr storm Rainfall=5.50"

	Area (ac)	CN	Description
*	1.010	98	Impervious Surface
	0.000	73	Woods, Fair, HSG C
	0.390	79	Pasture/grassland/range, Fair, HSG C
*	0.180	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.580	90	Weighted Average
	0.570		36.08% Pervious Area
	1.010		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 102:



Summary for Subcatchment 103:

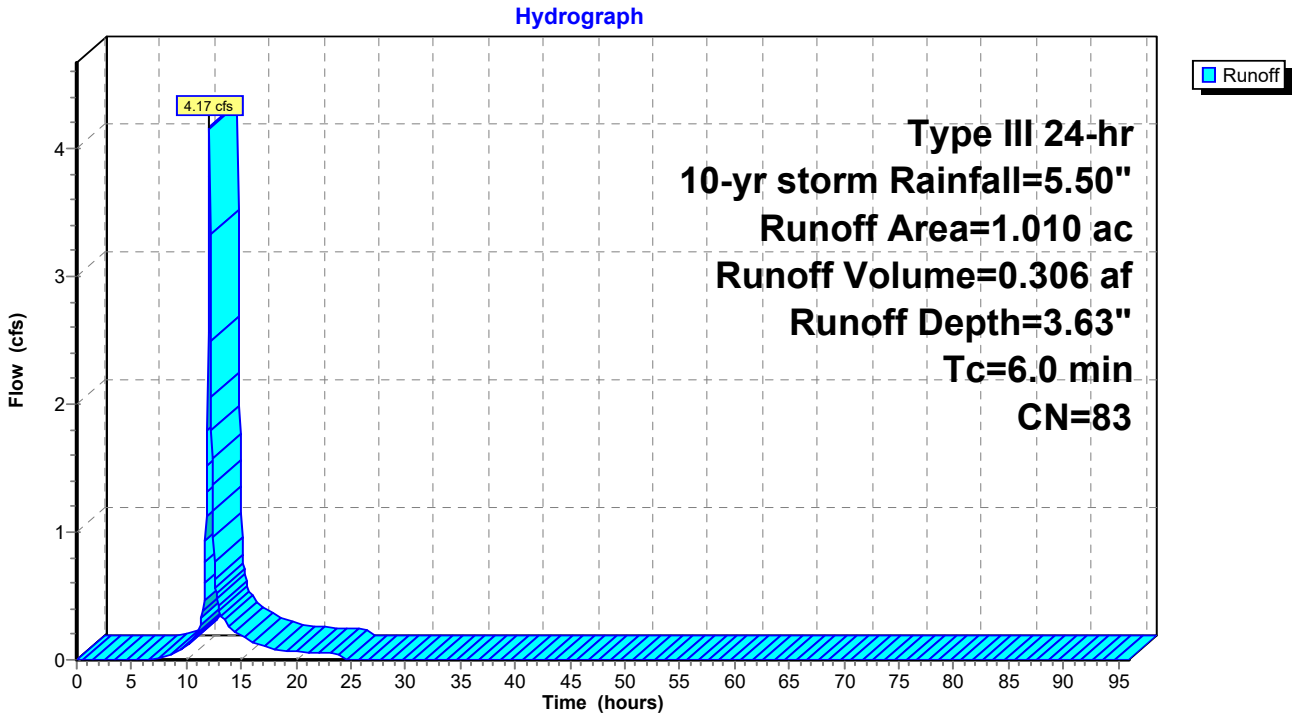
Runoff = 4.17 cfs @ 12.09 hrs, Volume= 0.306 af, Depth= 3.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr storm Rainfall=5.50"

	Area (ac)	CN	Description
*	0.310	98	Impervious Surface
	0.320	73	Woods, Fair, HSG C
	0.380	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.010	83	Weighted Average
	0.700		69.31% Pervious Area
	0.310		30.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 103:



Summary for Subcatchment 104:

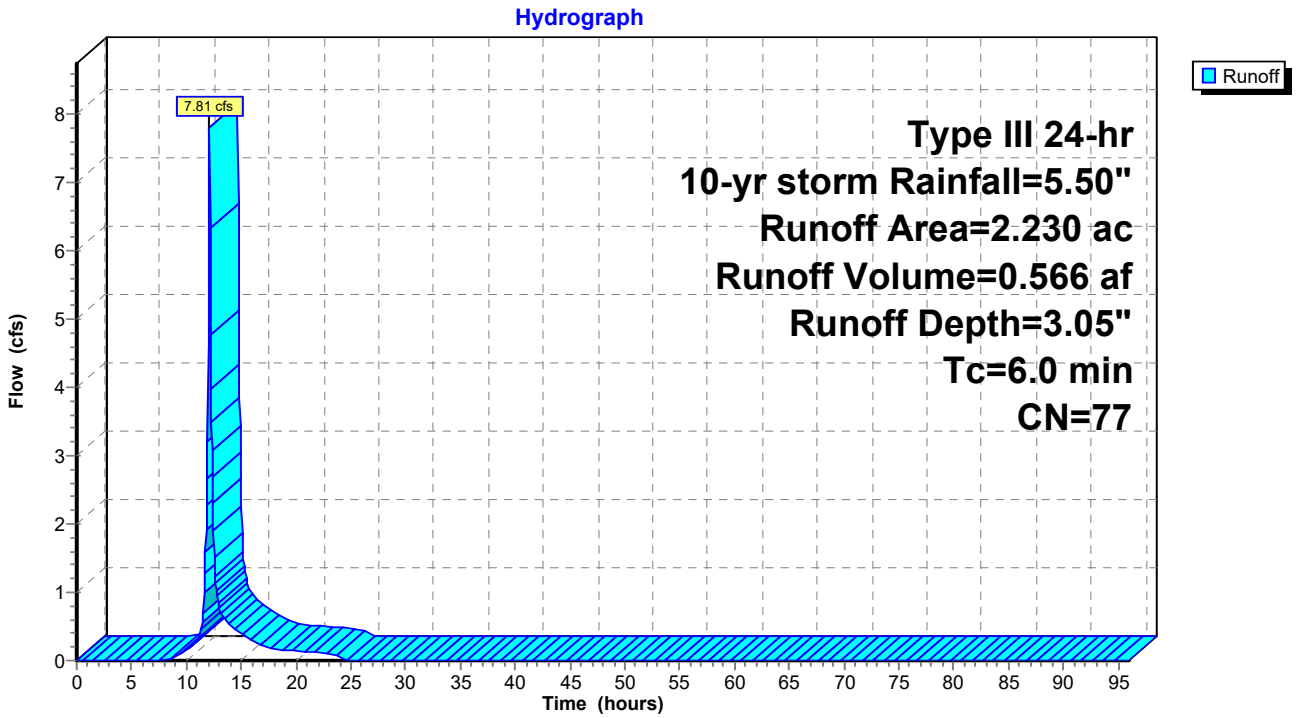
Runoff = 7.81 cfs @ 12.09 hrs, Volume= 0.566 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr storm Rainfall=5.50"

	Area (ac)	CN	Description
*	0.000	98	Impervious Surface
	0.730	73	Woods, Fair, HSG C
	1.500	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	2.230	77	Weighted Average
	2.230		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 104:



Summary for Subcatchment 200:

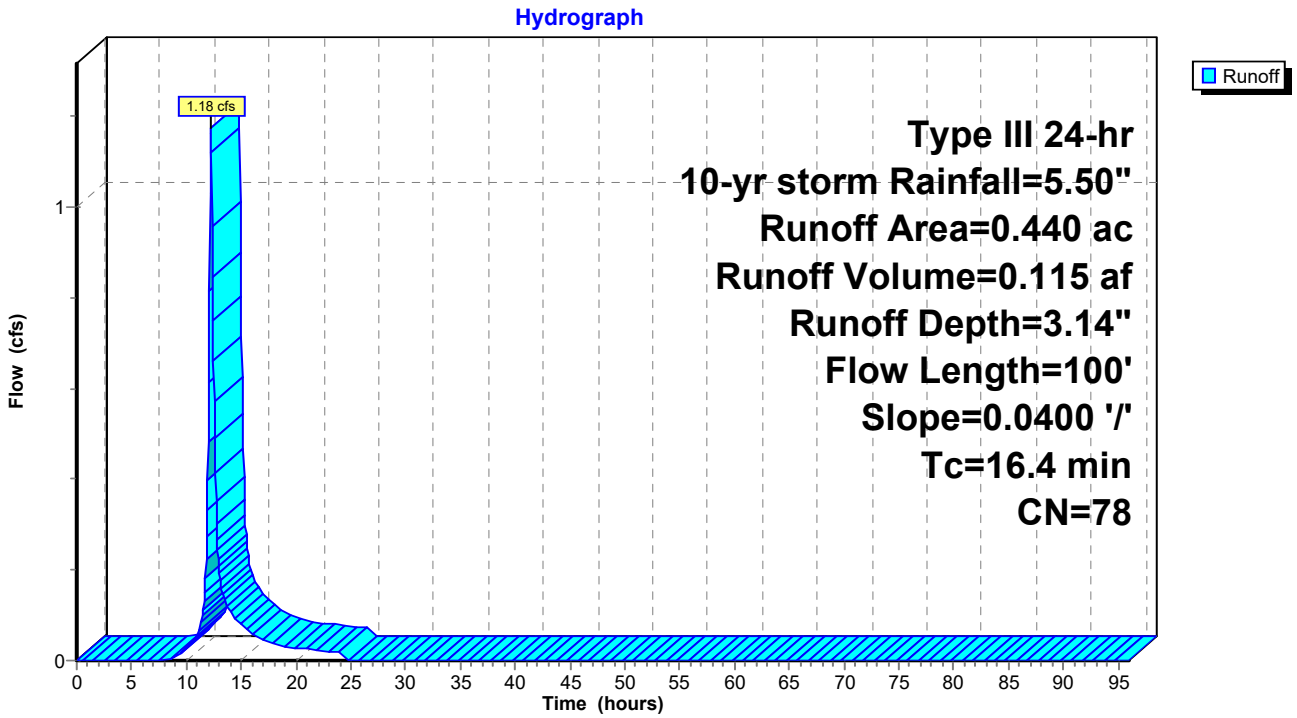
Runoff = 1.18 cfs @ 12.23 hrs, Volume= 0.115 af, Depth= 3.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr storm Rainfall=5.50"

Area (ac)	CN	Description
0.060	73	Woods, Fair, HSG C
0.000	79	Pasture/grassland/range, Fair, HSG C
0.380	79	Woods, Fair, HSG D
0.000	84	Pasture/grassland/range, Fair, HSG D
0.440	78	Weighted Average
0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	100	0.0400	0.10		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.16"

Subcatchment 200:



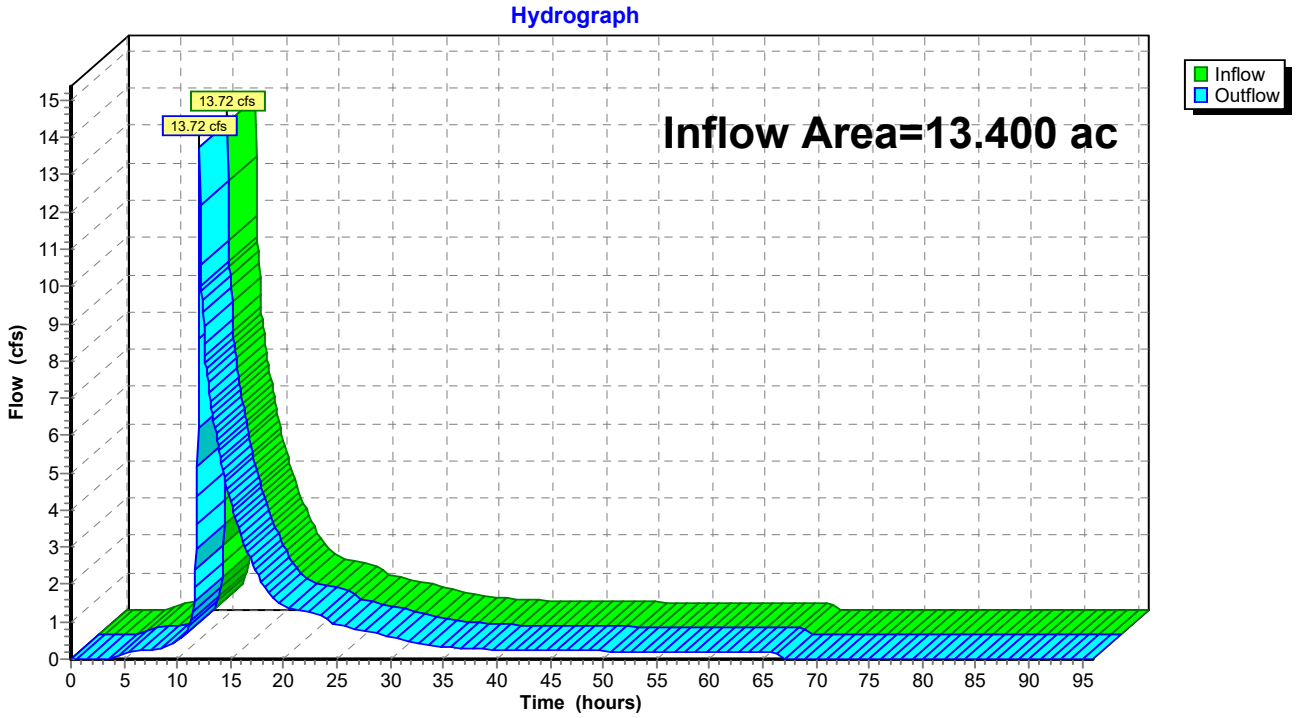
Summary for Reach DP-1: Eastern Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.400 ac, 53.28% Impervious, Inflow Depth = 4.16" for 10-yr storm event
Inflow = 13.72 cfs @ 12.10 hrs, Volume= 4.641 af
Outflow = 13.72 cfs @ 12.10 hrs, Volume= 4.641 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-1: Eastern Property Line



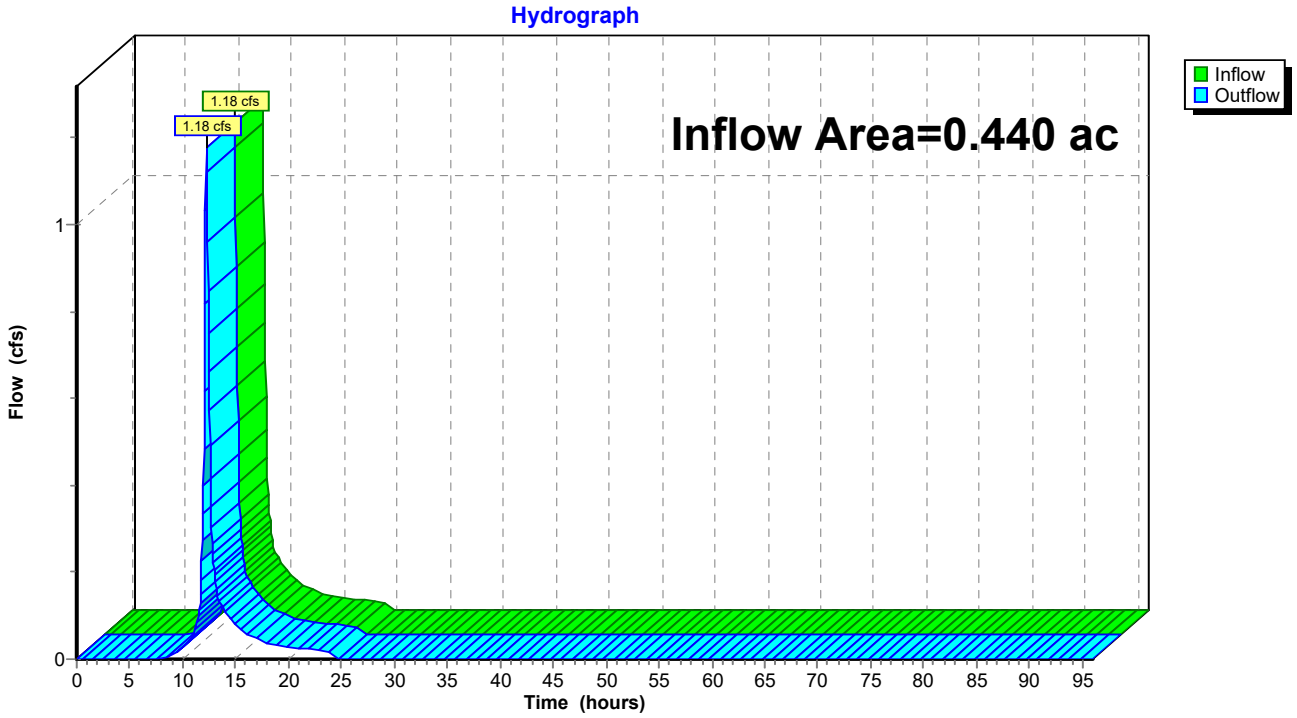
Summary for Reach DP-2: Western Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.440 ac, 0.00% Impervious, Inflow Depth = 3.14" for 10-yr storm event
Inflow = 1.18 cfs @ 12.23 hrs, Volume= 0.115 af
Outflow = 1.18 cfs @ 12.23 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-2: Western Property Line



Summary for Pond BIO1:

Inflow Area = 8.580 ac, 67.83% Impervious, Inflow Depth = 4.47" for 10-yr storm event
Inflow = 41.79 cfs @ 12.09 hrs, Volume= 3.195 af
Outflow = 5.31 cfs @ 12.66 hrs, Volume= 3.195 af, Atten= 87%, Lag= 34.3 min
Primary = 5.31 cfs @ 12.66 hrs, Volume= 3.195 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 440.18' @ 12.66 hrs Surf.Area= 37,829 sf Storage= 77,174 cf

Plug-Flow detention time= 623.6 min calculated for 3.194 af (100% of inflow)
Center-of-Mass det. time= 624.6 min (1,408.4 - 783.8)

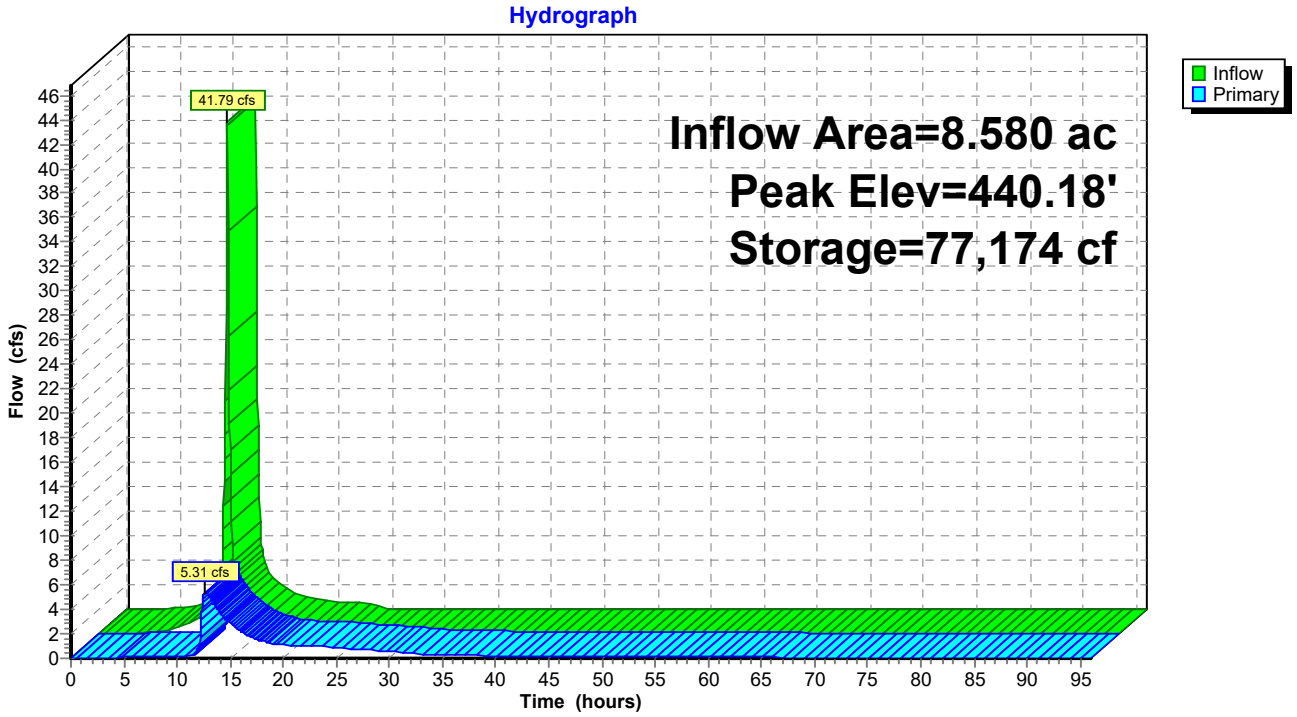
Volume	Invert	Avail.Storage	Storage Description
#1	438.00'	149,885 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
438.00	33,100	0	0
439.00	35,230	34,165	34,165
440.00	37,430	36,330	70,495
441.00	39,680	38,555	109,050
442.00	41,990	40,835	149,885

Device	Routing	Invert	Outlet Devices
#1	Primary	429.50'	**24.0" Round Culvert** L= 139.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 429.50' / 426.30' S= 0.0230 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	441.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.90'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	438.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	438.50'	**6.0" Vert. Orifice at 6" of ponding** C= 0.600
#6	Device 1	439.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=5.31 cfs @ 12.66 hrs HW=440.18' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 5.31 cfs of 37.15 cfs potential flow)
  - **2=Grate** (Controls 0.00 cfs)
  - **3=Underdrain Inlet** (Passes 0.22 cfs of 2.68 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.22 cfs)
  - **5=Orifice at 6" of ponding** (Orifice Controls 1.13 cfs @ 5.75 fps)
  - **6=Sharp-Crested Rectangular Weir** (Weir Controls 3.96 cfs @ 3.14 fps)

Pond BIO1:


Hydrograph
Inflow
Primary
41.79 cfs
5.31 cfs
Inflow Area=8.580 ac
Peak Elev=440.18'
Storage=77,174 cf
Flow (cfs)
Time (hours)
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95

Summary for Pond BIO2:

Inflow Area = 1.580 ac, 63.92% Impervious, Inflow Depth = 4.36" for 10-yr storm event
Inflow = 7.57 cfs @ 12.09 hrs, Volume= 0.574 af
Outflow = 0.97 cfs @ 12.66 hrs, Volume= 0.574 af, Atten= 87%, Lag= 34.3 min
Primary = 0.97 cfs @ 12.66 hrs, Volume= 0.574 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 438.42' @ 12.66 hrs Surf.Area= 10,111 sf Storage= 12,805 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 350.1 min (1,137.6 - 787.5)

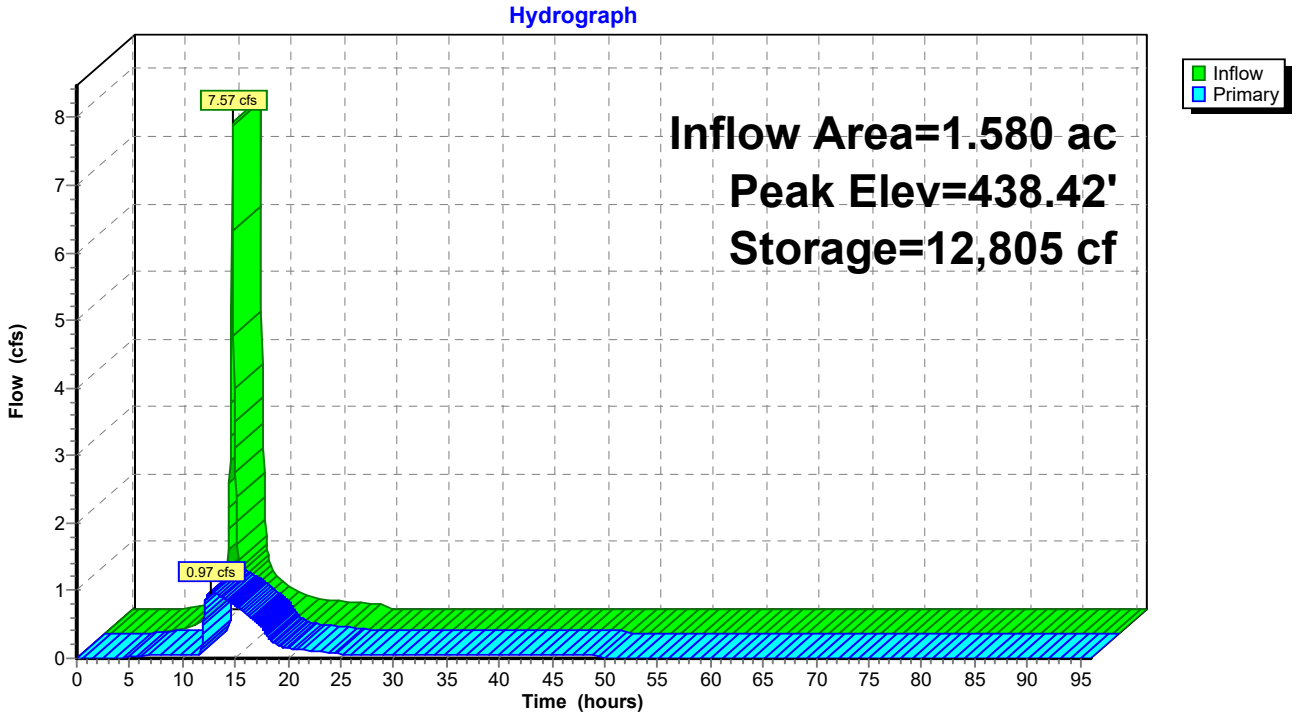
Volume	Invert	Avail.Storage	Storage Description
#1	437.00'	44,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
437.00	7,883	0	0
438.00	9,430	8,657	8,657
439.00	11,033	10,232	18,888
440.00	12,700	11,867	30,755
441.00	14,400	13,550	44,305

Device	Routing	Invert	Outlet Devices
#1	Primary	428.00'	**24.0" Round Culvert** L= 116.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 428.00' / 425.00' S= 0.0259 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	440.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.20'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	437.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	437.50'	**6.0" Horiz. Orifice at 6" of Ponding** C= 0.600 Limited to weir flow at low heads
#6	Device 1	438.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.97 cfs @ 12.66 hrs HW=438.42' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 0.97 cfs of 46.44 cfs potential flow)
  - **2=Grate** (Controls 0.00 cfs)
  - **3=Underdrain Inlet** (Passes 0.06 cfs of 2.50 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.06 cfs)
  - **5=Orifice at 6" of Ponding** (Orifice Controls 0.91 cfs @ 4.63 fps)
  - **6=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond BIO2:


Hydrograph
Inflow
Primary
Inflow Area=1.580 ac
Peak Elev=438.42'
Storage=12,805 cf
7.57 cfs
0.97 cfs
Flow (cfs)
Time (hours)
0
1
2
3
4
5
6
7
8
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95

Time span=0.00-96.00 hrs, dt=0.05 hrs, 1921 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101: Runoff Area=8.580 ac 67.83% Impervious Runoff Depth=7.29"
Tc=6.0 min CN=91 Runoff=66.26 cfs 5.212 af

Subcatchment102: Runoff Area=1.580 ac 63.92% Impervious Runoff Depth=7.17"
Tc=6.0 min CN=90 Runoff=12.09 cfs 0.944 af

Subcatchment103: Runoff Area=1.010 ac 30.69% Impervious Runoff Depth=6.33"
Tc=6.0 min CN=83 Runoff=7.11 cfs 0.533 af

Subcatchment104: Runoff Area=2.230 ac 0.00% Impervious Runoff Depth=5.61"
Tc=6.0 min CN=77 Runoff=14.23 cfs 1.043 af

Subcatchment200: Runoff Area=0.440 ac 0.00% Impervious Runoff Depth=5.73"
Flow Length=100' Slope=0.0400 '/' Tc=16.4 min CN=78 Runoff=2.14 cfs 0.210 af

Reach DP-1: Eastern Property Line Inflow=31.70 cfs 7.733 af
Outflow=31.70 cfs 7.733 af

Reach DP-2: Western Property Line Inflow=2.14 cfs 0.210 af
Outflow=2.14 cfs 0.210 af

Pond BIO1: Peak Elev=441.09' Storage=112,674 cf Inflow=66.26 cfs 5.212 af
Outflow=18.09 cfs 5.213 af

Pond BIO2: Peak Elev=438.98' Storage=18,629 cf Inflow=12.09 cfs 0.944 af
Outflow=3.50 cfs 0.944 af

Total Runoff Area = 13.840 ac Runoff Volume = 7.943 af Average Runoff Depth = 6.89"
48.41% Pervious = 6.700 ac 51.59% Impervious = 7.140 ac

Summary for Subcatchment 101:

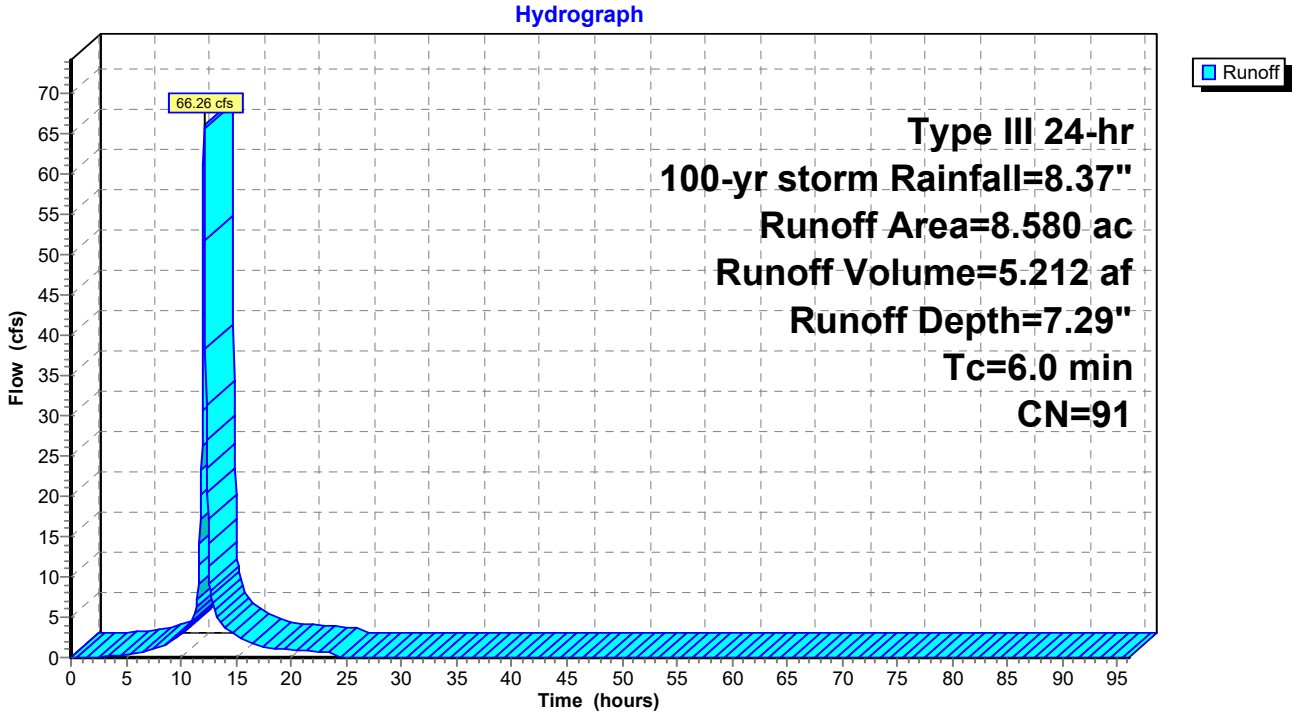
Runoff = 66.26 cfs @ 12.09 hrs, Volume= 5.212 af, Depth= 7.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr storm Rainfall=8.37"

	Area (ac)	CN	Description
*	5.820	98	Impervious Surface
	0.280	73	Woods, Fair, HSG C
	1.220	79	Pasture/grassland/range, Fair, HSG C
*	0.760	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.500	84	Pasture/grassland/range, Fair, HSG D
	8.580	91	Weighted Average
	2.760		32.17% Pervious Area
	5.820		67.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 101:



Summary for Subcatchment 102:

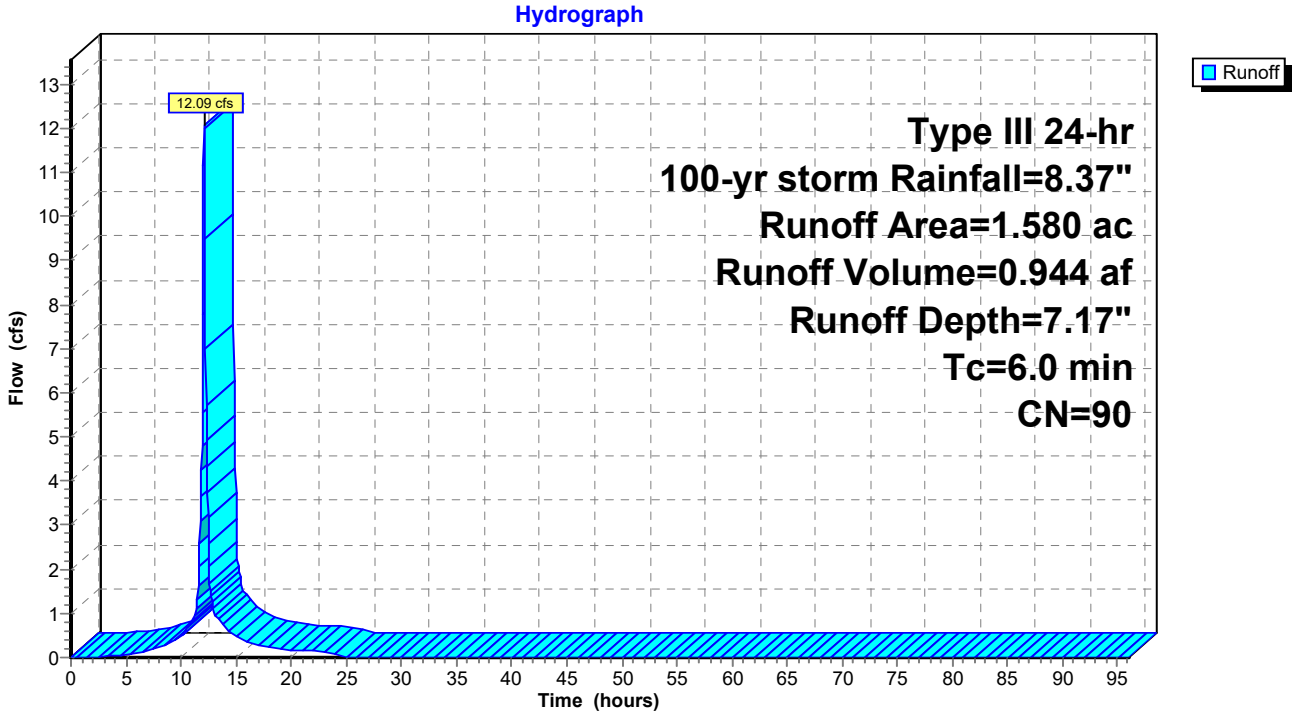
Runoff = 12.09 cfs @ 12.09 hrs, Volume= 0.944 af, Depth= 7.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr storm Rainfall=8.37"

	Area (ac)	CN	Description
*	1.010	98	Impervious Surface
	0.000	73	Woods, Fair, HSG C
	0.390	79	Pasture/grassland/range, Fair, HSG C
*	0.180	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.580	90	Weighted Average
	0.570		36.08% Pervious Area
	1.010		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 102:



Summary for Subcatchment 103:

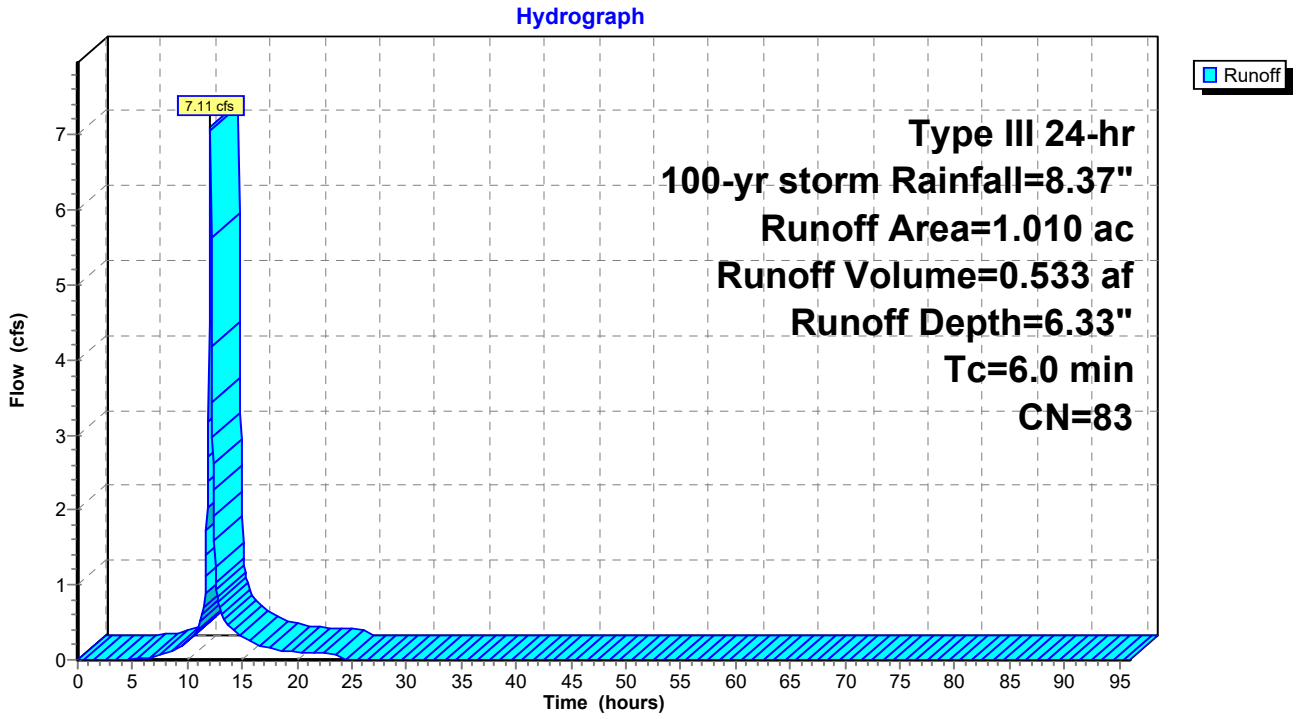
Runoff = 7.11 cfs @ 12.09 hrs, Volume= 0.533 af, Depth= 6.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr storm Rainfall=8.37"

	Area (ac)	CN	Description
*	0.310	98	Impervious Surface
	0.320	73	Woods, Fair, HSG C
	0.380	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.010	83	Weighted Average
	0.700		69.31% Pervious Area
	0.310		30.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 103:



Summary for Subcatchment 104:

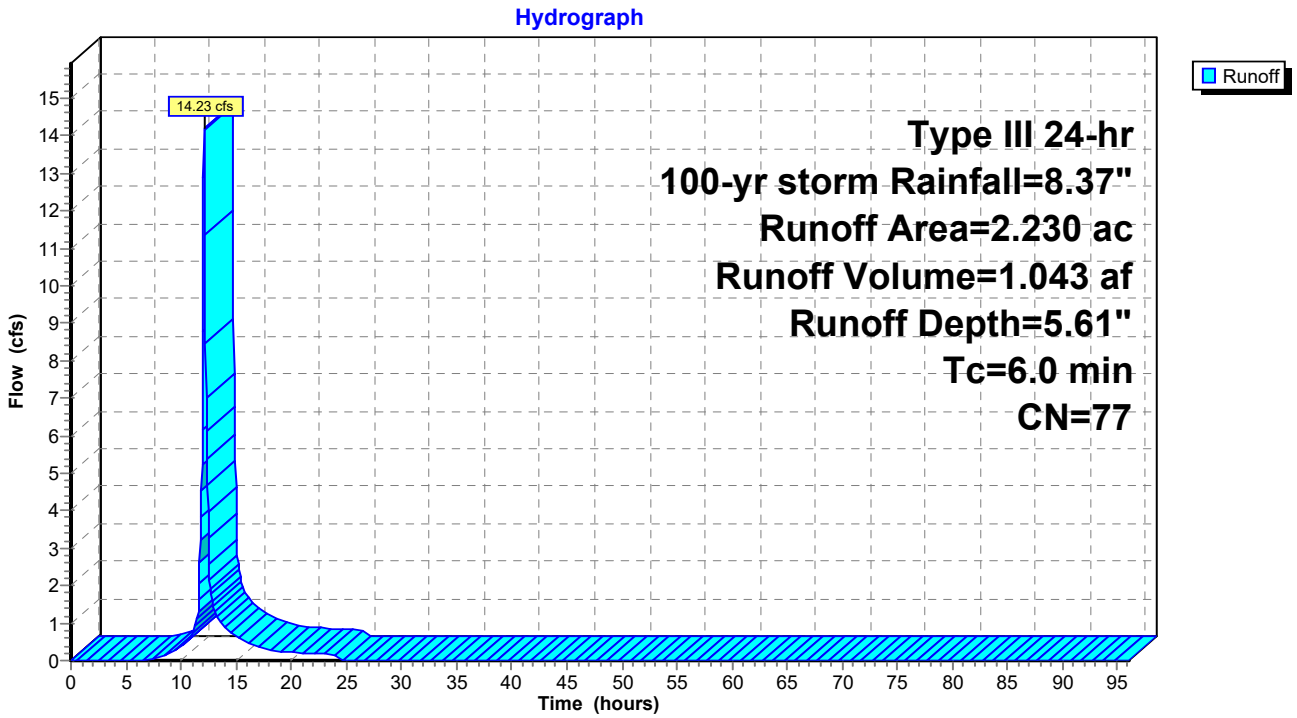
Runoff = 14.23 cfs @ 12.09 hrs, Volume= 1.043 af, Depth= 5.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr storm Rainfall=8.37"

	Area (ac)	CN	Description
*	0.000	98	Impervious Surface
	0.730	73	Woods, Fair, HSG C
	1.500	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	2.230	77	Weighted Average
	2.230		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 104:



Summary for Subcatchment 200:

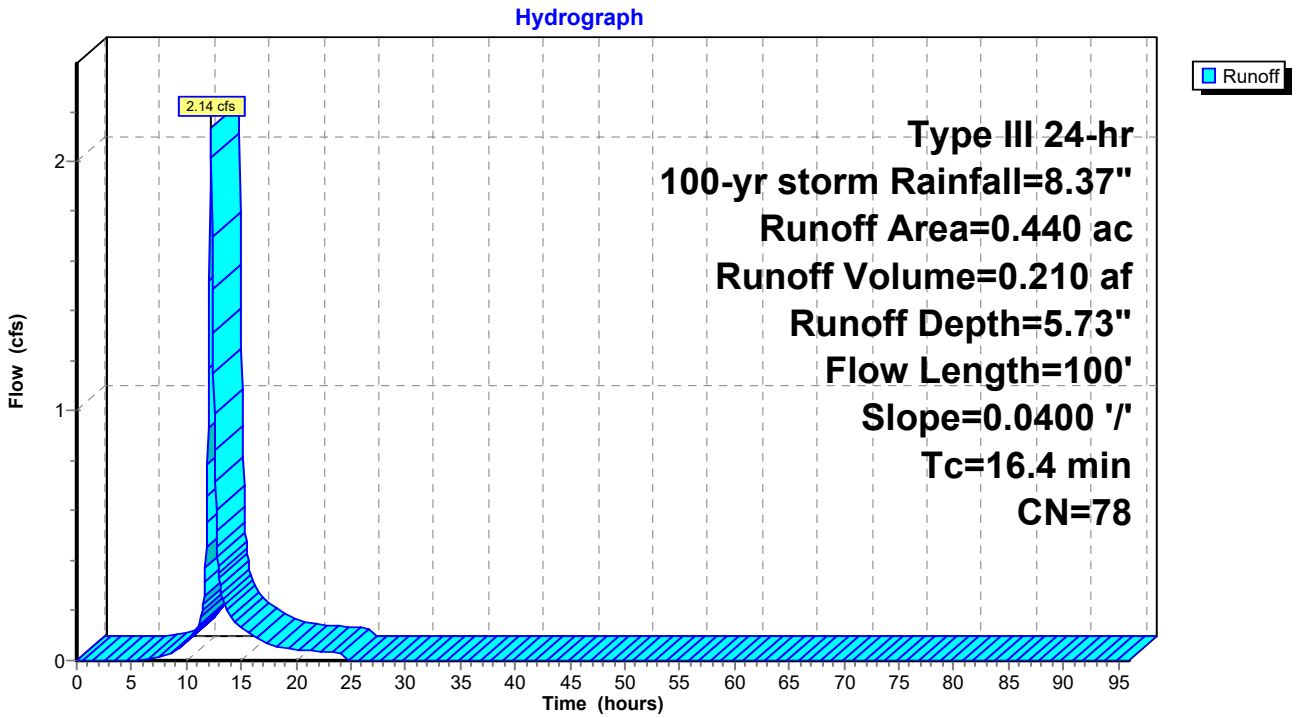
Runoff = 2.14 cfs @ 12.22 hrs, Volume= 0.210 af, Depth= 5.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr storm Rainfall=8.37"

Area (ac)	CN	Description
0.060	73	Woods, Fair, HSG C
0.000	79	Pasture/grassland/range, Fair, HSG C
0.380	79	Woods, Fair, HSG D
0.000	84	Pasture/grassland/range, Fair, HSG D
0.440	78	Weighted Average
0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	100	0.0400	0.10		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.16"

Subcatchment 200:



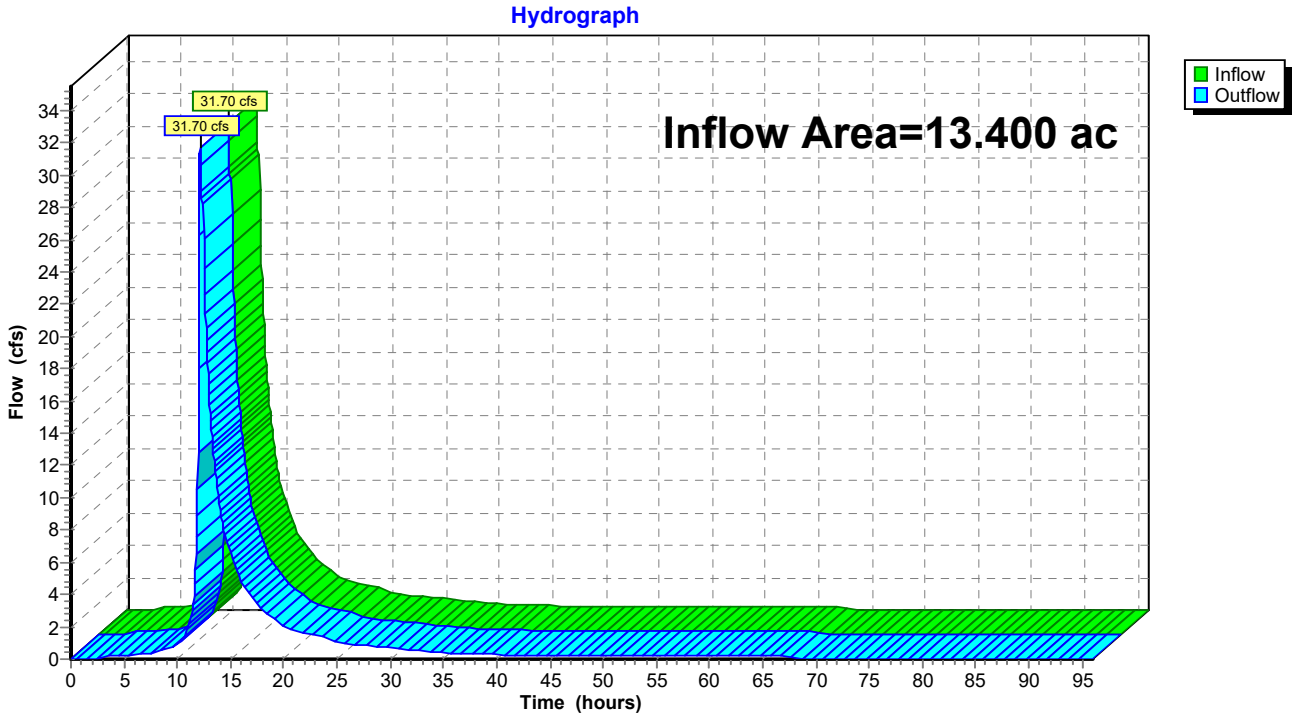
Summary for Reach DP-1: Eastern Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.400 ac, 53.28% Impervious, Inflow Depth = 6.93" for 100-yr storm event
Inflow = 31.70 cfs @ 12.12 hrs, Volume= 7.733 af
Outflow = 31.70 cfs @ 12.12 hrs, Volume= 7.733 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-1: Eastern Property Line



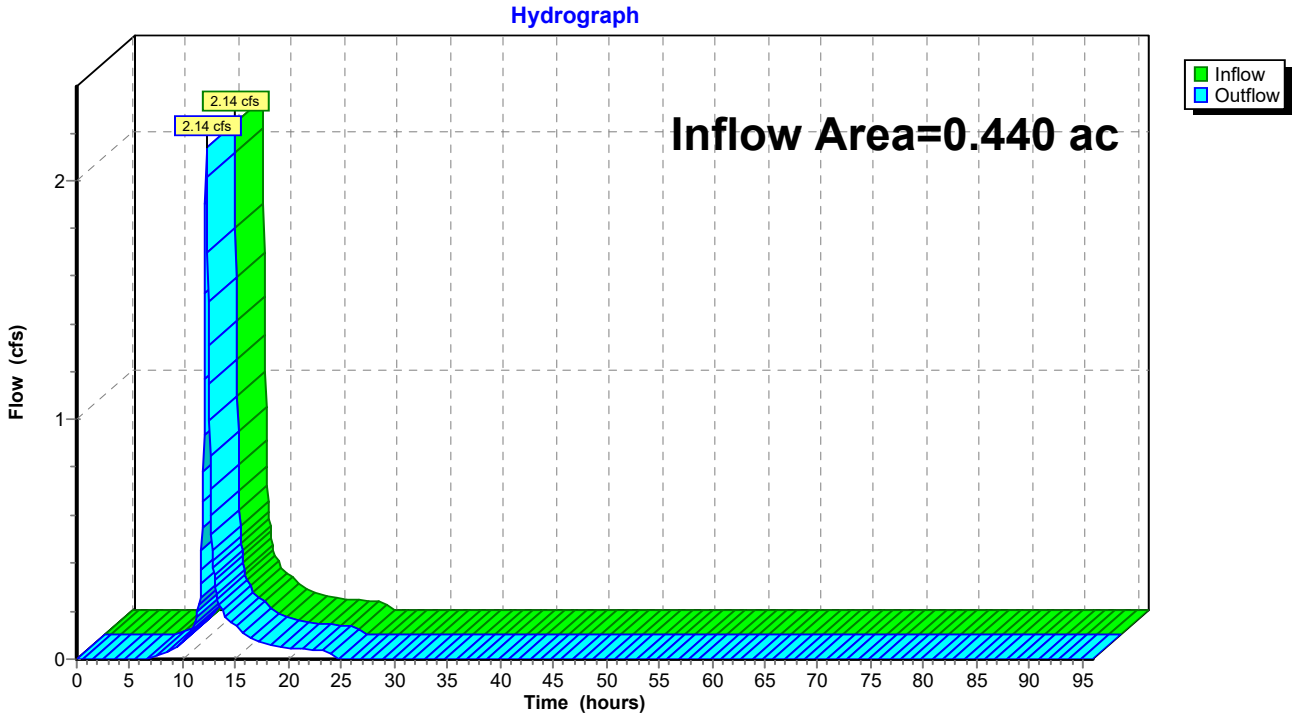
Summary for Reach DP-2: Western Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.440 ac, 0.00% Impervious, Inflow Depth = 5.73" for 100-yr storm event
Inflow = 2.14 cfs @ 12.22 hrs, Volume= 0.210 af
Outflow = 2.14 cfs @ 12.22 hrs, Volume= 0.210 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-2: Western Property Line



Summary for Pond BIO1:

Inflow Area = 8.580 ac, 67.83% Impervious, Inflow Depth = 7.29" for 100-yr storm event
Inflow = 66.26 cfs @ 12.09 hrs, Volume= 5.212 af
Outflow = 18.09 cfs @ 12.44 hrs, Volume= 5.213 af, Atten= 73%, Lag= 21.1 min
Primary = 18.09 cfs @ 12.44 hrs, Volume= 5.213 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 441.09' @ 12.44 hrs Surf.Area= 39,890 sf Storage= 112,674 cf

Plug-Flow detention time= 443.9 min calculated for 5.210 af (100% of inflow)
Center-of-Mass det. time= 445.1 min (1,216.4 - 771.3)

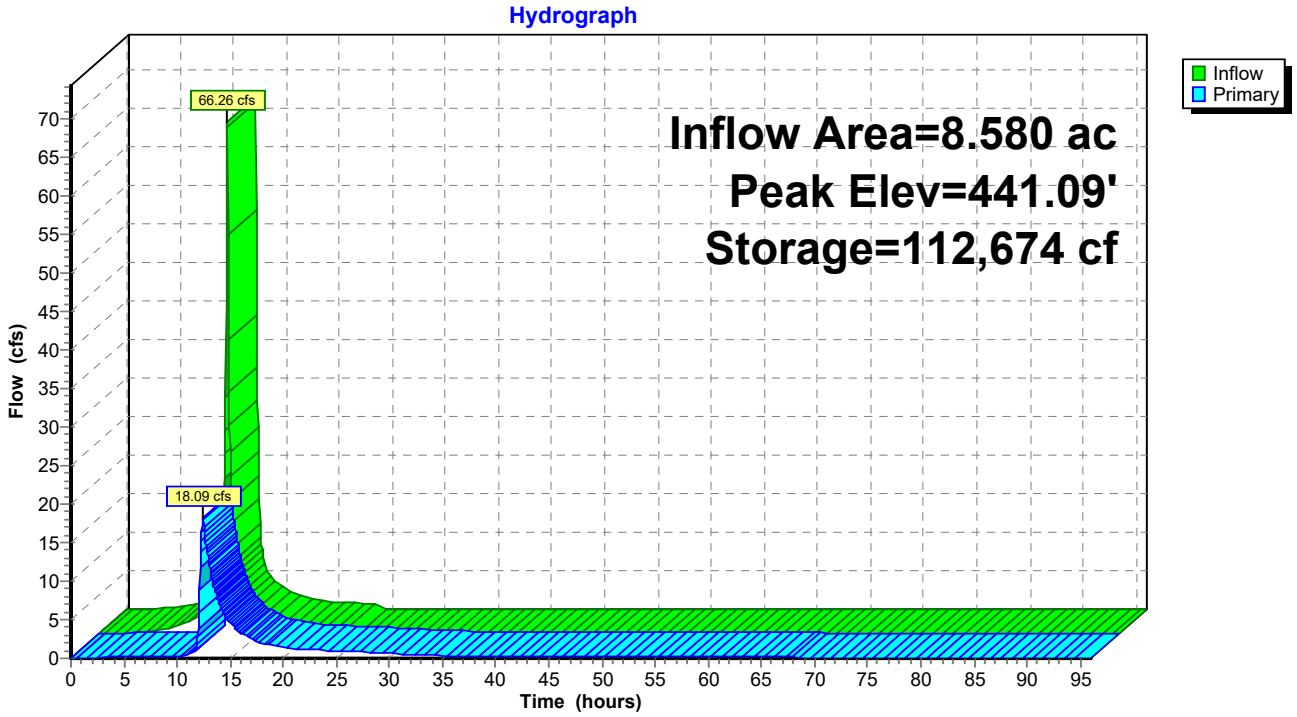
Volume	Invert	Avail.Storage	Storage Description
#1	438.00'	149,885 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
438.00	33,100	0	0
439.00	35,230	34,165	34,165
440.00	37,430	36,330	70,495
441.00	39,680	38,555	109,050
442.00	41,990	40,835	149,885

Device	Routing	Invert	Outlet Devices
#1	Primary	429.50'	**24.0" Round Culvert** L= 139.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 429.50' / 426.30' S= 0.0230 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	441.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.90'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	438.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	438.50'	**6.0" Vert. Orifice at 6" of ponding** C= 0.600
#6	Device 1	439.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=18.05 cfs @ 12.44 hrs HW=441.09' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 18.05 cfs of 38.86 cfs potential flow)
  - **2=Grate** (Weir Controls 1.06 cfs @ 0.98 fps)
  - **3=Underdrain Inlet** (Passes 0.23 cfs of 2.83 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.23 cfs)
  - **5=Orifice at 6" of ponding** (Orifice Controls 1.45 cfs @ 7.37 fps)
  - **6=Sharp-Crested Rectangular Weir** (Weir Controls 15.32 cfs @ 5.73 fps)

Pond BIO1:


Hydrograph
Inflow
Primary
66.26 cfs
18.09 cfs
Inflow Area=8.580 ac
Peak Elev=441.09'
Storage=112,674 cf
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95

Summary for Pond BIO2:

Inflow Area = 1.580 ac, 63.92% Impervious, Inflow Depth = 7.17" for 100-yr storm event
Inflow = 12.09 cfs @ 12.09 hrs, Volume= 0.944 af
Outflow = 3.50 cfs @ 12.42 hrs, Volume= 0.944 af, Atten= 71%, Lag= 20.1 min
Primary = 3.50 cfs @ 12.42 hrs, Volume= 0.944 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 438.98' @ 12.42 hrs Surf.Area= 10,995 sf Storage= 18,629 cf

Plug-Flow detention time= 263.0 min calculated for 0.944 af (100% of inflow)
Center-of-Mass det. time= 263.7 min (1,038.3 - 774.6)

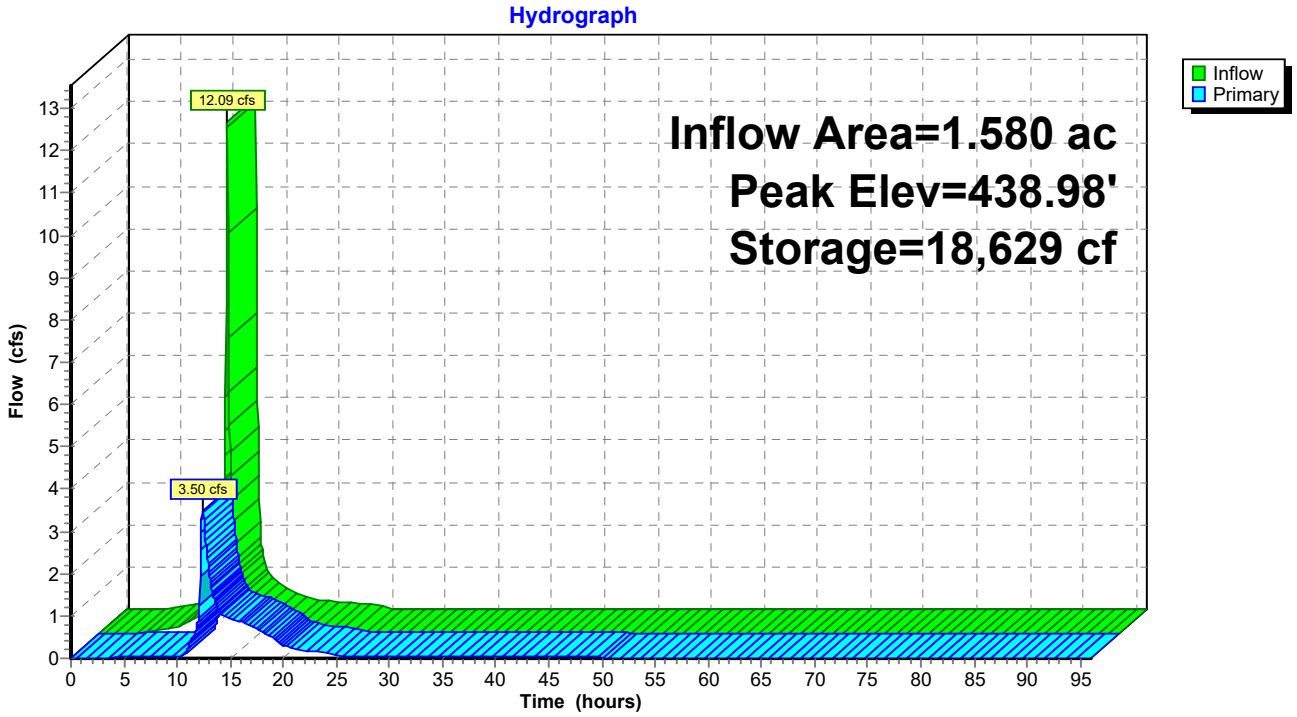
Volume	Invert	Avail.Storage	Storage Description
#1	437.00'	44,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
437.00	7,883	0	0
438.00	9,430	8,657	8,657
439.00	11,033	10,232	18,888
440.00	12,700	11,867	30,755
441.00	14,400	13,550	44,305

Device	Routing	Invert	Outlet Devices
#1	Primary	428.00'	**24.0" Round Culvert** L= 116.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 428.00' / 425.00' S= 0.0259 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	440.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.20'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	437.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	437.50'	**6.0" Horiz. Orifice at 6" of Ponding** C= 0.600 Limited to weir flow at low heads
#6	Device 1	438.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=3.49 cfs @ 12.42 hrs HW=438.98' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 3.49 cfs of 47.78 cfs potential flow)
  - **2=Grate** (Controls 0.00 cfs)
  - **3=Underdrain Inlet** (Passes 0.06 cfs of 2.59 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.06 cfs)
  - **5=Orifice at 6" of Ponding** (Orifice Controls 1.15 cfs @ 5.85 fps)
  - **6=Sharp-Crested Rectangular Weir** (Weir Controls 2.28 cfs @ 2.52 fps)

Pond BIO2:


Hydrograph
Inflow
Primary
Inflow Area=1.580 ac
Peak Elev=438.98'
Storage=18,629 cf
12.09 cfs
3.50 cfs
Flow (cfs)
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95

Time span=0.00-96.00 hrs, dt=0.05 hrs, 1921 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101: Runoff Area=8.580 ac 67.83% Impervious Runoff Depth=0.66"
Tc=6.0 min CN=91 Runoff=6.48 cfs 0.472 af

Subcatchment102: Runoff Area=1.580 ac 63.92% Impervious Runoff Depth=0.61"
Tc=6.0 min CN=90 Runoff=1.09 cfs 0.080 af

Subcatchment103: Runoff Area=1.010 ac 30.69% Impervious Runoff Depth=0.32"
Tc=6.0 min CN=83 Runoff=0.32 cfs 0.027 af

Subcatchment104: Runoff Area=2.230 ac 0.00% Impervious Runoff Depth=0.17"
Tc=6.0 min CN=77 Runoff=0.24 cfs 0.032 af

Subcatchment200: Runoff Area=0.440 ac 0.00% Impervious Runoff Depth=0.19"
Flow Length=100' Slope=0.0400 '/' Tc=16.4 min CN=78 Runoff=0.05 cfs 0.007 af

Reach DP-1: Eastern Property Line Inflow=0.79 cfs 0.611 af
Outflow=0.79 cfs 0.611 af

Reach DP-2: Western Property Line Inflow=0.05 cfs 0.007 af
Outflow=0.05 cfs 0.007 af

Pond BIO1: Peak Elev=438.38' Storage=12,613 cf Inflow=6.48 cfs 0.472 af
Outflow=0.20 cfs 0.472 af

Pond BIO2: Peak Elev=437.23' Storage=1,876 cf Inflow=1.09 cfs 0.080 af
Outflow=0.05 cfs 0.080 af

Total Runoff Area = 13.840 ac Runoff Volume = 0.617 af Average Runoff Depth = 0.54"
48.41% Pervious = 6.700 ac 51.59% Impervious = 7.140 ac

Summary for Subcatchment 101:

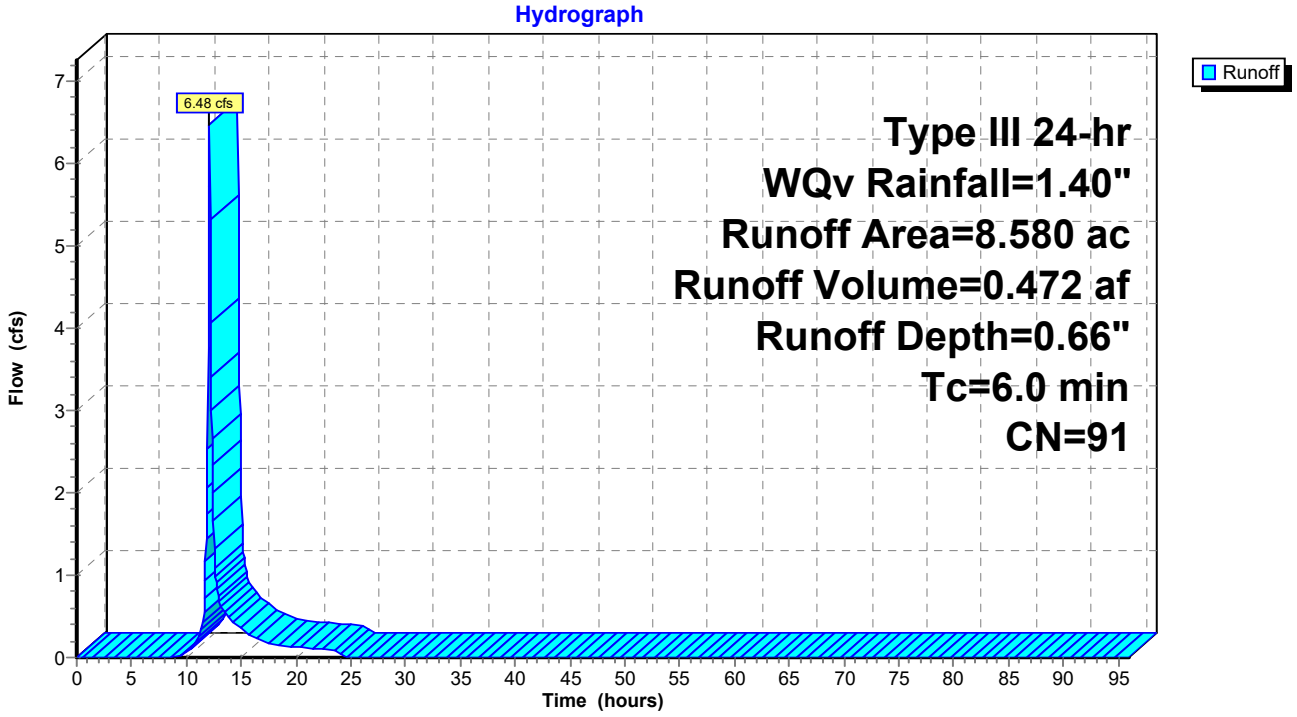
Runoff = 6.48 cfs @ 12.09 hrs, Volume= 0.472 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr WQv Rainfall=1.40"

	Area (ac)	CN	Description
*	5.820	98	Impervious Surface
	0.280	73	Woods, Fair, HSG C
	1.220	79	Pasture/grassland/range, Fair, HSG C
*	0.760	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.500	84	Pasture/grassland/range, Fair, HSG D
	8.580	91	Weighted Average
	2.760		32.17% Pervious Area
	5.820		67.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 101:



Summary for Subcatchment 102:

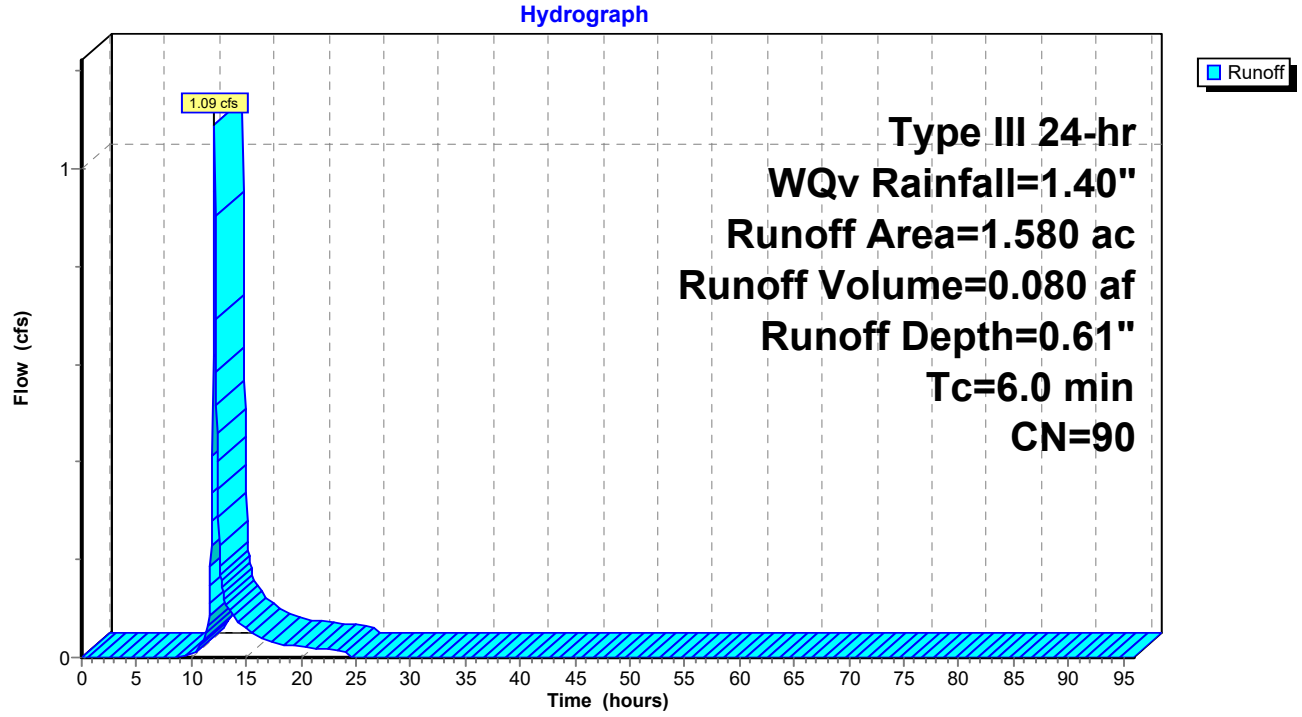
Runoff = 1.09 cfs @ 12.10 hrs, Volume= 0.080 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr WQv Rainfall=1.40"

	Area (ac)	CN	Description
*	1.010	98	Impervious Surface
	0.000	73	Woods, Fair, HSG C
	0.390	79	Pasture/grassland/range, Fair, HSG C
*	0.180	71	Bioretention Meadow Mix
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.580	90	Weighted Average
	0.570		36.08% Pervious Area
	1.010		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 102:



Summary for Subcatchment 103:

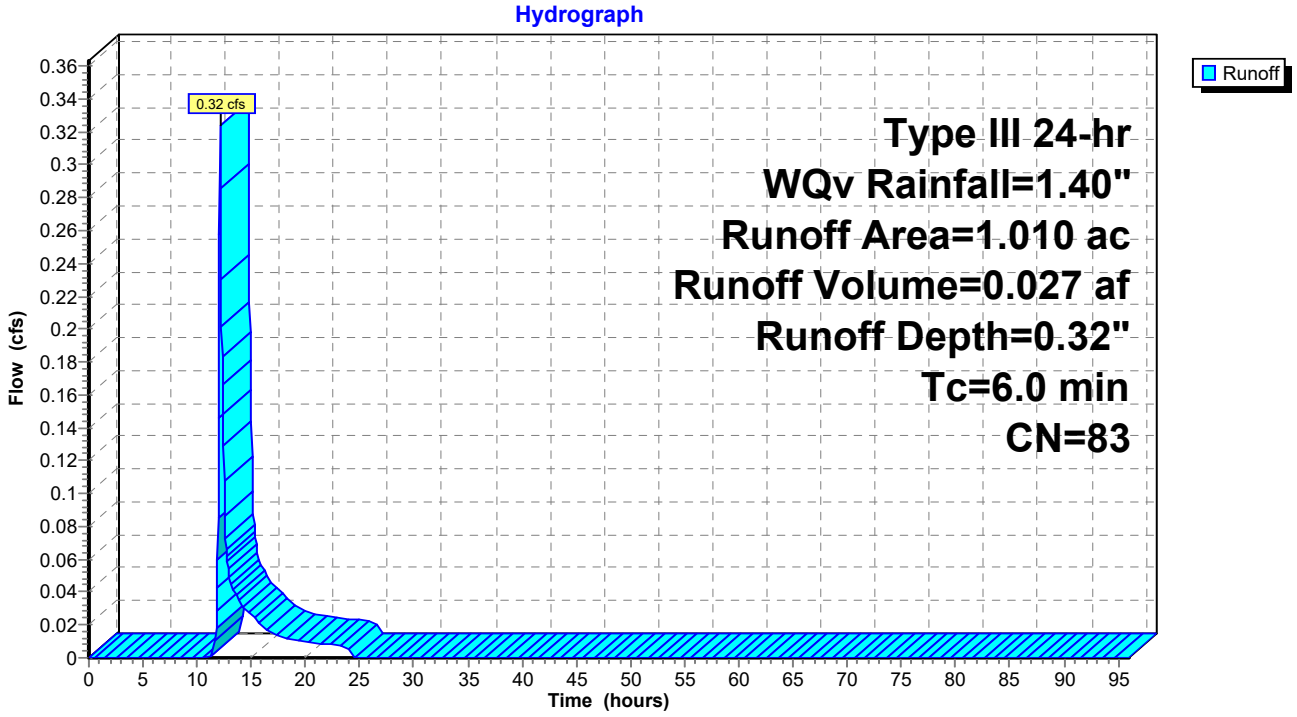
Runoff = 0.32 cfs @ 12.11 hrs, Volume= 0.027 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr WQv Rainfall=1.40"

	Area (ac)	CN	Description
*	0.310	98	Impervious Surface
	0.320	73	Woods, Fair, HSG C
	0.380	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	1.010	83	Weighted Average
	0.700		69.31% Pervious Area
	0.310		30.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 103:



Summary for Subcatchment 104:

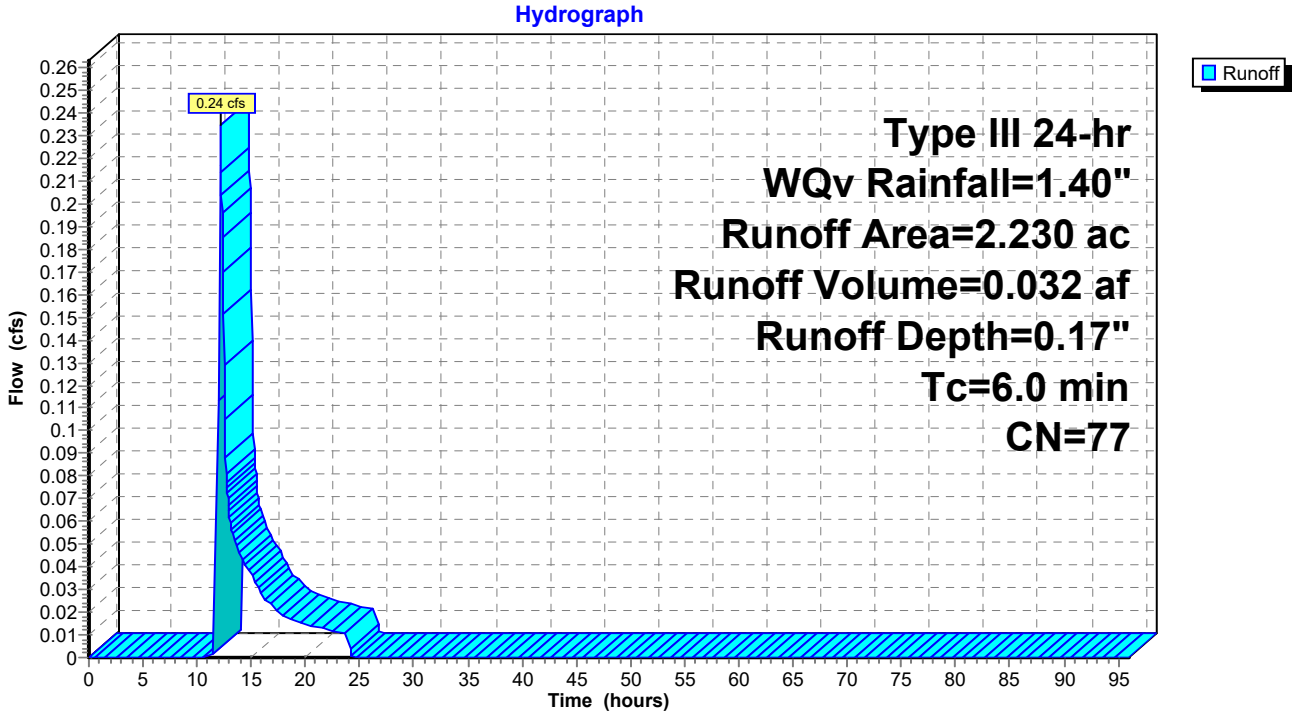
Runoff = 0.24 cfs @ 12.15 hrs, Volume= 0.032 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr WQv Rainfall=1.40"

	Area (ac)	CN	Description
*	0.000	98	Impervious Surface
	0.730	73	Woods, Fair, HSG C
	1.500	79	Pasture/grassland/range, Fair, HSG C
	0.000	79	Woods, Fair, HSG D
	0.000	84	Pasture/grassland/range, Fair, HSG D
	2.230	77	Weighted Average
	2.230		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment 104:



Summary for Subcatchment 200:

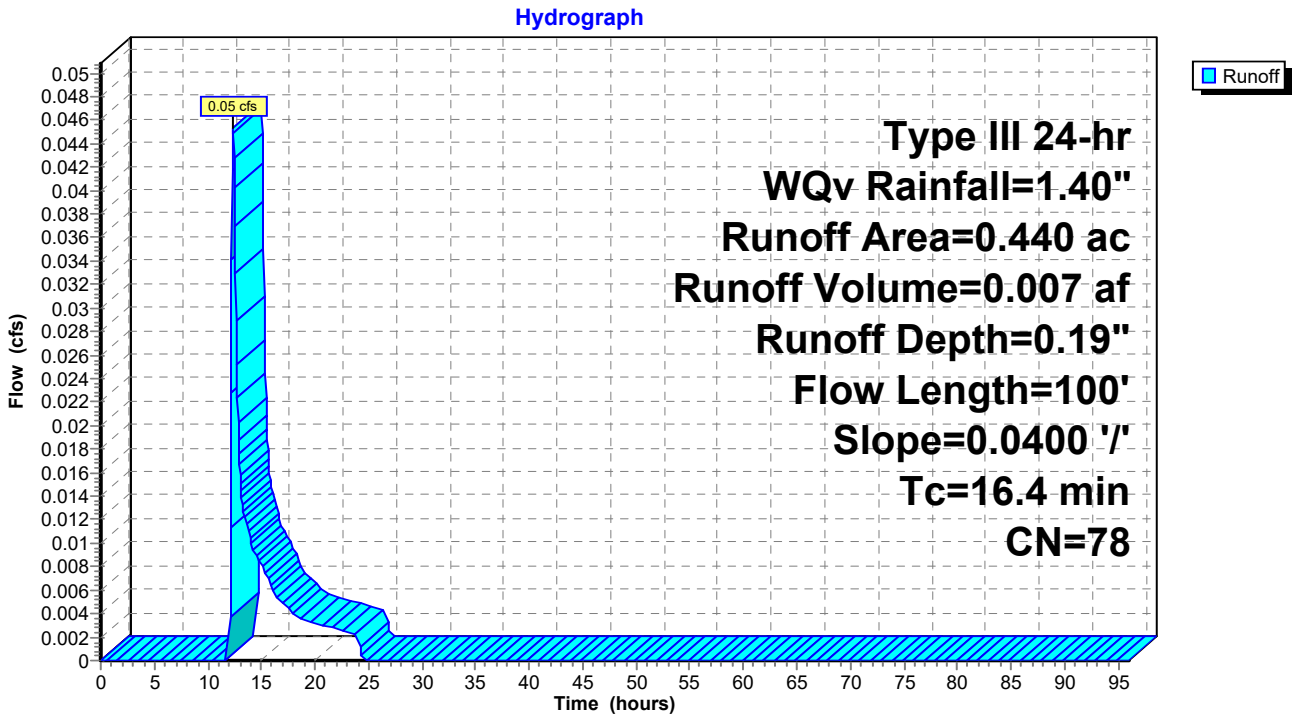
Runoff = 0.05 cfs @ 12.34 hrs, Volume= 0.007 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Type III 24-hr WQv Rainfall=1.40"

Area (ac)	CN	Description
0.060	73	Woods, Fair, HSG C
0.000	79	Pasture/grassland/range, Fair, HSG C
0.380	79	Woods, Fair, HSG D
0.000	84	Pasture/grassland/range, Fair, HSG D
0.440	78	Weighted Average
0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	100	0.0400	0.10		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.16"

Subcatchment 200:



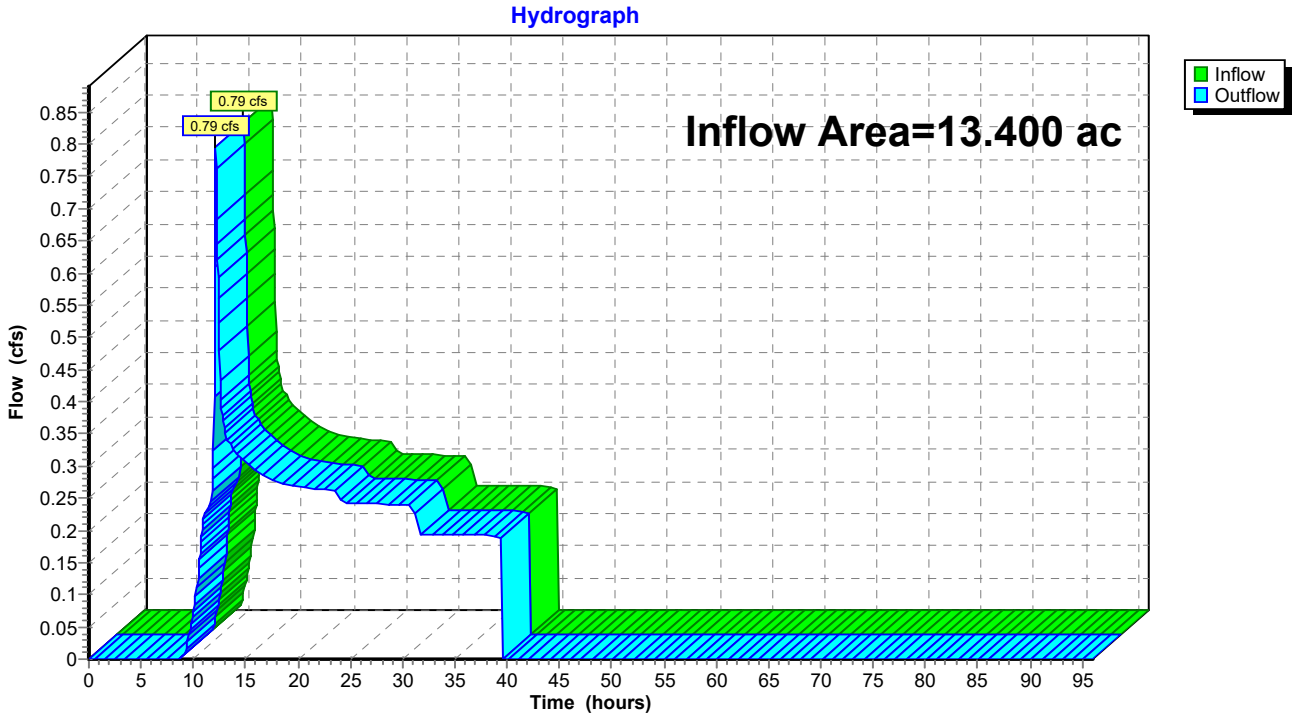
Summary for Reach DP-1: Eastern Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.400 ac, 53.28% Impervious, Inflow Depth = 0.55" for WQv event
Inflow = 0.79 cfs @ 12.12 hrs, Volume= 0.611 af
Outflow = 0.79 cfs @ 12.12 hrs, Volume= 0.611 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-1: Eastern Property Line



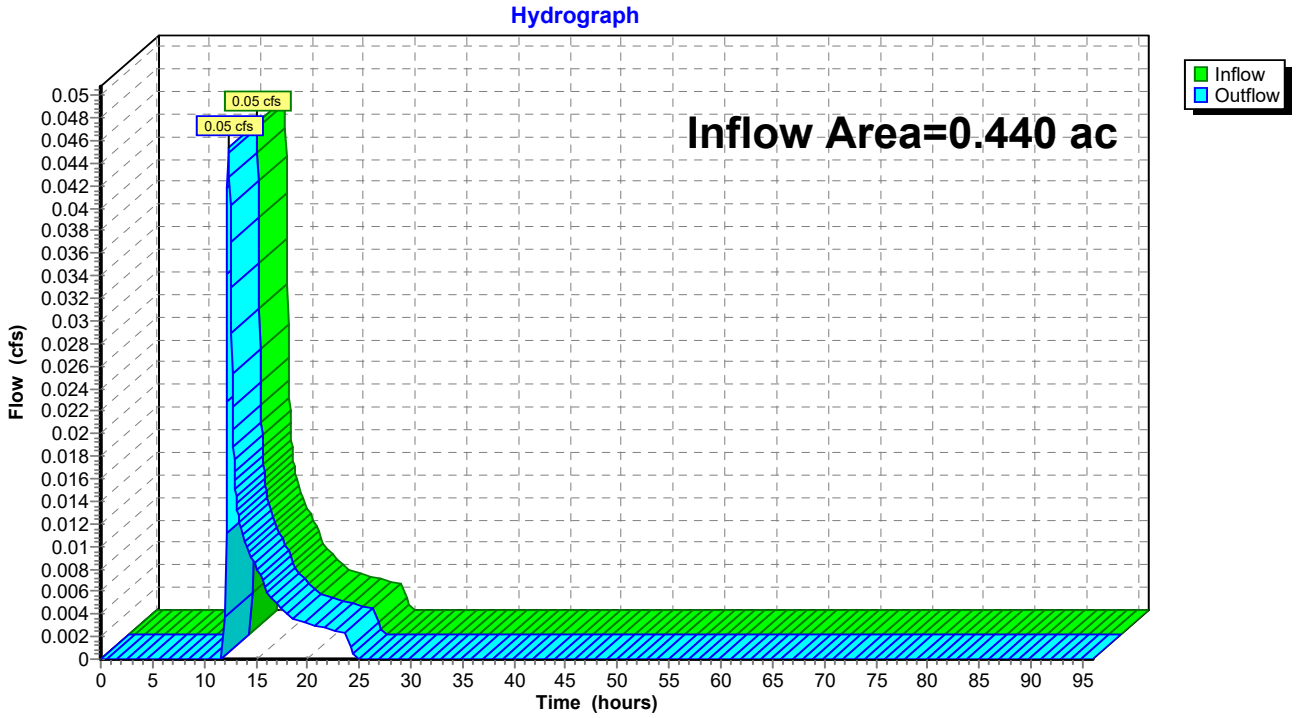
Summary for Reach DP-2: Western Property Line

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.440 ac, 0.00% Impervious, Inflow Depth = 0.19" for WQv event
Inflow = 0.05 cfs @ 12.34 hrs, Volume= 0.007 af
Outflow = 0.05 cfs @ 12.34 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs

Reach DP-2: Western Property Line



Summary for Pond BIO1:

Inflow Area = 8.580 ac, 67.83% Impervious, Inflow Depth = 0.66" for WQv event
Inflow = 6.48 cfs @ 12.09 hrs, Volume= 0.472 af
Outflow = 0.20 cfs @ 17.09 hrs, Volume= 0.472 af, Atten= 97%, Lag= 299.6 min
Primary = 0.20 cfs @ 17.09 hrs, Volume= 0.472 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 438.38' @ 17.09 hrs Surf.Area= 33,902 sf Storage= 12,613 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 652.6 min (1,490.2 - 837.7)

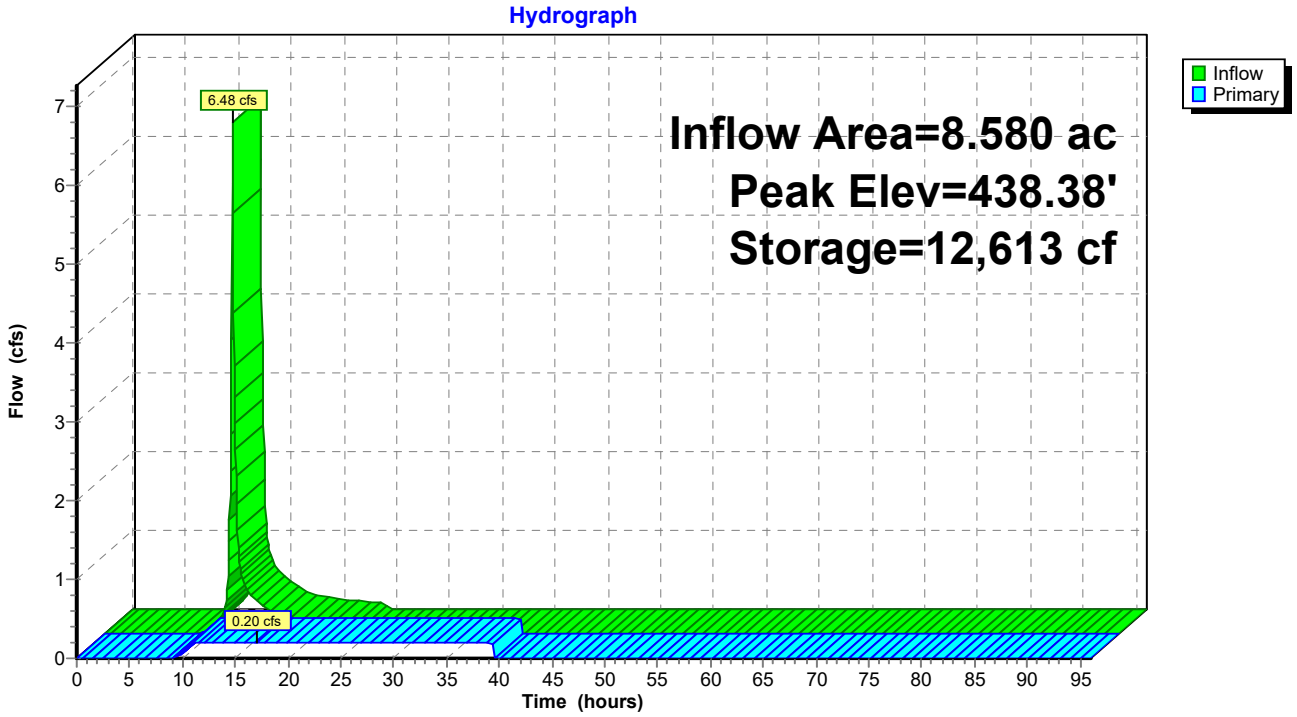
Volume	Invert	Avail.Storage	Storage Description
#1	438.00'	149,885 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
438.00	33,100	0	0
439.00	35,230	34,165	34,165
440.00	37,430	36,330	70,495
441.00	39,680	38,555	109,050
442.00	41,990	40,835	149,885

Device	Routing	Invert	Outlet Devices
#1	Primary	429.50'	**24.0" Round Culvert** L= 139.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 429.50' / 426.30' S= 0.0230 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	441.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.90'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	438.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	438.50'	**6.0" Vert. Orifice at 6" of ponding** C= 0.600
#6	Device 1	439.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.20 cfs @ 17.09 hrs HW=438.38' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 0.20 cfs of 33.52 cfs potential flow)
  - **2=Grate** (Controls 0.00 cfs)
  - **3=Underdrain Inlet** (Passes 0.20 cfs of 2.36 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.20 cfs)
  - **5=Orifice at 6" of ponding** (Controls 0.00 cfs)
  - **6=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond BIO1:


Hydrograph
Inflow Area=8.580 ac
Peak Elev=438.38'
Storage=12,613 cf
6.48 cfs
0.20 cfs
Inflow
Primary
Flow (cfs)
Time (hours)
0
1
2
3
4
5
6
7
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95

Summary for Pond BIO2:

Inflow Area = 1.580 ac, 63.92% Impervious, Inflow Depth = 0.61" for WQv event
Inflow = 1.09 cfs @ 12.10 hrs, Volume= 0.080 af
Outflow = 0.05 cfs @ 15.79 hrs, Volume= 0.080 af, Atten= 96%, Lag= 221.5 min
Primary = 0.05 cfs @ 15.79 hrs, Volume= 0.080 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.05 hrs
Peak Elev= 437.23' @ 15.79 hrs Surf.Area= 8,243 sf Storage= 1,876 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 411.3 min (1,254.9 - 843.6)

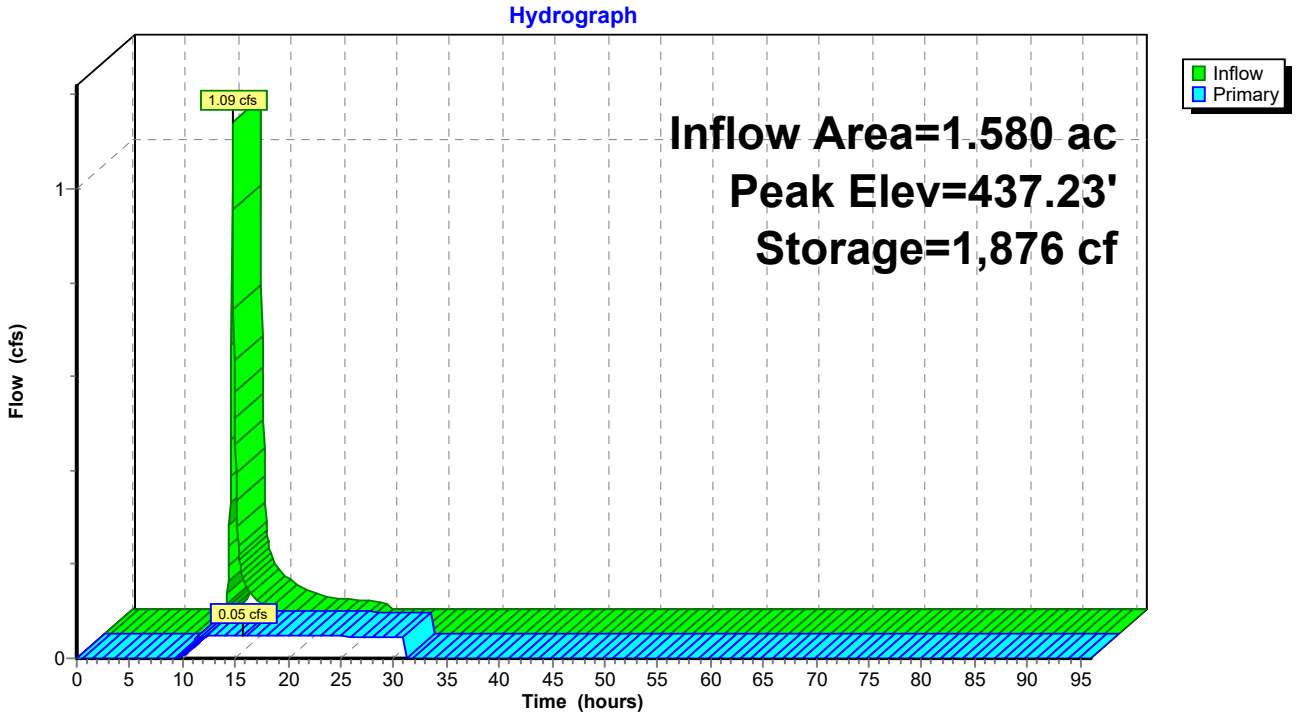
Volume	Invert	Avail.Storage	Storage Description
#1	437.00'	44,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
437.00	7,883	0	0
438.00	9,430	8,657	8,657
439.00	11,033	10,232	18,888
440.00	12,700	11,867	30,755
441.00	14,400	13,550	44,305

Device	Routing	Invert	Outlet Devices
#1	Primary	428.00'	**24.0" Round Culvert** L= 116.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 428.00' / 425.00' S= 0.0259 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	440.00'	**24.0" x 48.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	431.20'	**6.0" Vert. Underdrain Inlet** C= 0.600
#4	Device 3	437.00'	**0.250 in/hr Exfiltration through media over Surface area**
#5	Device 1	437.50'	**6.0" Horiz. Orifice at 6" of Ponding** C= 0.600 Limited to weir flow at low heads
#6	Device 1	438.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.05 cfs @ 15.79 hrs HW=437.23' TW=0.00' (Dynamic Tailwater)
- **1=Culvert** (Passes 0.05 cfs of 43.40 cfs potential flow)
  - **2=Grate** (Controls 0.00 cfs)
  - **3=Underdrain Inlet** (Passes 0.05 cfs of 2.27 cfs potential flow)
    - **4=Exfiltration through media** (Exfiltration Controls 0.05 cfs)
  - **5=Orifice at 6" of Ponding** (Controls 0.00 cfs)
  - **6=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond BIO2:


Hydrograph
Inflow
Primary
1.09 cfs
0.05 cfs
Inflow Area=1.580 ac
Peak Elev=437.23'
Storage=1,876 cf
Flow (cfs)
0
1
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95
Time (hours)

Newburgh Commerce Center
124 Route 17K
Town of Newburgh, NY

Appendix H: Post-Construction Inspection & Maintenance

LANGAN

Post Construction Inspection and Maintenance Site Checklist

	Yes	No	NA
1. Steep Slopes (any slope 3:1 or steeper) (Frequency: Annual)			
a. Vegetation and ground cover adequate.	☐	☐	☐
i. Minimum 80% ground cover. *Maintenance: Topsoil, rake and seed bare areas. Remove any dead or dying plants and decaying plant material. Replace dead and dying plants.*	☐	☐	☐
ii. Excessively tall grass (greater than 6" in height) *Maintenance: Mow slopes 3:1 or flatter to have a grass height of 4" to 6". Increase mowing frequency as necessary. Steep slopes planted with meadow mix as shown on the approved plans do not have to be mowed.*	☐	☐	☐
iii. Unauthorized plants. *Maintenance: Remove any unauthorized plants, including roots. Do not use herbicides. Topsoil, rake and seed the area disturbed by their removal.*	☐	☐	☐
b. Slope erosion.	☐	☐	☐
i. Small bare areas (min. 50 square feet). *Maintenance: Topsoil, rake and seed bare areas.*	☐	☐	☐
ii. Ruts less than 12" wide. *Maintenance: Prior to making any repairs, identify the source of erosion and correct. Protect the slopes prior to any work occurring. Backfill ruts and compact soil. Topsoil, rake and seed bare areas. Alternatively, hydroseeding can be used to seed the slope.*	☐	☐	☐
iii. Ruts greater than 12" wide. *Maintenance: Prior to making any repairs, identify the source of erosion and correct. Protect the slopes prior to any work occurring. Re-grade, backfill ruts and compact soil. Install erosion control mats on slopes 3:1 or steeper to protect the re-graded slope. Topsoil, rake and seed bare areas. Inspect on a weekly basis until 80% ground cover is achieved. Alternatively, hydroseeding can be used to seed the slope.*	☐	☐	☐
c. Uneven settling *Maintenance: Visually inspect for uneven settling. Classify the settling based upon the categories below.*	☐	☐	☐
i. Greater than 0" but less than 2" of settling. *Maintenance: No immediate action required. Re-inspect in 6 months.*	☐	☐	☐
ii. Greater than 2" but less than 4" of settling. *Maintenance: Immediately repair. Re-grade and compact the soil. Topsoil, rake and seed the area. Re-inspect in 6 months.*	☐	☐	☐

	Yes	No	NA
iii. Greater than 4" of settling. *<u>Maintenance</u>: Immediately stabilize the area and consult a NYS Licensed Professional Engineer within 2 weeks before making any additional repairs.*	☐	☐	☐

2. Swales (Frequency: Annual)	**Yes**	**No**	**NA**
a. Inflow Points	☐	☐	☐
i. Vegetation and ground cover adequate. *<u>Maintenance</u>: Reseed bare areas. Remove any unauthorized plants or any nuisance weeds and vegetation, including their roots. Do not use any herbicides. Topsoil, rake and seed the disturbed area by their removal.*	☐	☐	☐
ii. Free from erosion/undercutting. *<u>Maintenance</u>: Immediately stabilize and repair any areas where erosion around has occurred. Rake and seed the area. Seed mixture shall meet the seed mixture requirements specified on the approved plans.*	☐	☐	☐
iii. Rip rap in good condition. *<u>Maintenance</u>: Replace stone, as necessary.*	☐	☐	☐
iv. No evidence of sediment buildup. *<u>Maintenance</u>: Remove and properly dispose of any accumulated sediment when the depth is 20% of swale design depth.*	☐	☐	☐
b. Check Dams	☐	☐	☐
i. No evidence of sediment buildup. *<u>Maintenance</u>: Remove accumulated sediment behind dams when sediment depth is one-third the dam height.*	☐	☐	☐
ii. Stone in good condition. *<u>Maintenance</u>: Replace stone, as necessary.*	☐	☐	☐
iii. No evidence of erosion *<u>Maintenance</u>: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and reseed area.*	☐	☐	☐
c. Energy Dissipaters	☐	☐	☐
i. No evidence of sediment buildup. *<u>Maintenance</u>: Remove and properly dispose of any accumulated sediment when half of the void space is filled.*	☐	☐	☐
ii. Rip rap in good condition. *<u>Maintenance</u>: Replace stone, as necessary.*	☐	☐	☐
iii. No evidence of erosion. *<u>Maintenance</u>: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and reseed.*	☐	☐	☐

3. Culverts (Frequency: Annual)	**Yes**	**No**	**NA**
a. Headwalls or End sections	☐	☐	☐
i. In good condition, no need for repairs.	☐	☐	☐
a. Cracks or displacement. *Maintenance: Repair any minor cracks. If minor displacement is observed, re-inspect in 6 months. Replace structure if major cracks or significant displacement is observed.*	☐	☐	☐
b. Minor spalling (<1"). *Maintenance: Repair any minor spalling.*	☐	☐	☐
c. Major spalling (rebars exposed). *Maintenance: Replace structure.*	☐	☐	☐
ii. Clear of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment.*	☐	☐	☐
iii. Clear of debris and trash. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
b. Rip rap in good condition. *Maintenance: Replace stone, as necessary.*	☐	☐	☐
c. Pipes free from damage, corrosion, and sediment. *Maintenance: Immediately repair any damaged pipes. If pipes are severely damaged and cannot be repaired, replace the pipes. Remove and properly dispose of any sediment.*	☐	☐	☐

Notes:

1. The site must be returned to the approved conditions when any repairs are made.
2. Unauthorized plants are any plants that are growing or have been installed that are not any of the plants shown on the approved plans.
3. All seed mixtures shall meet the seed mixture requirements specified on the approved plans.
4. Replace any dead or dying plants with plants specified in the planting schedule shown on the approved plans.

Comments:

_____

_____

_____

_____

Actions to be taken:

_____

_____

_____

_____

Post Construction Inspection and Maintenance Checklist
Bioretention

1. Embankment

(Frequency: Annual)	**Yes**	**No**	**NA**
a. Vegetation and ground cover adequate.	☐	☐	☐
i. Minimum 80% ground cover.	☐	☐	☐
Maintenance: Topsoil, rake and seed bare areas. Replace dead and dying plants.			
ii. Excessively tall grass (greater than 6" in height)	☐	☐	☐
Maintenance: Mow grass to have a height of 4" to 6". Increase mowing frequency as necessary.			
iii. Unauthorized plants.	☐	☐	☐
Maintenance: Remove any unauthorized plants, including roots. Do not use herbicides. Topsoil, rake and seed the area disturbed by their removal.			
b. Slope erosion.	☐	☐	☐
i. Small bare areas (min. 50 square feet).	☐	☐	☐
Maintenance: Topsoil, rake and seed bare areas.			
ii. Ruts less than 12" wide.	☐	☐	☐
Maintenance: Prior to making any repairs, identify the source of erosion and correct. Protect the slopes prior to any work occurring. Backfill ruts and compact soil. Topsoil, rake and seed bare areas. Alternatively, hydroseeding can be used to seed the slope.			
iii. Ruts greater than 12" wide.	☐	☐	☐
Maintenance: Prior to making any repairs, identify the source of erosion and correct. Protect the slopes prior to any work occurring. Re-grade, backfill ruts and compact soil. Install erosion control mats on slopes 3:1 or steeper to protect the re-graded slope. Topsoil, rake and seed bare areas. Inspect on a weekly basis until 80% ground cover is achieved. Alternatively, hydroseeding can be used to seed the slope.			
c. Uneven settling	☐	☐	☐
Maintenance: Install permanent benchmarks or other permanent reference point in each practice to be used with as-built elevations to measure uneven settling.			
i. Greater than 0" but less than 2" of settling.	☐	☐	☐
Maintenance: No immediate action required. Re-inspect in 6 months.			
ii. Greater than 2" but less than 4" of settling.	☐	☐	☐
Maintenance: Immediately repair. Re-grade and compact the soil. Topsoil, rake and seed the area. Re-inspect in 6 months.			

	Yes	No	NA
iii. Greater than 4" of settling. *Maintenance: Immediately stabilize the area and consult a NYS Licensed Professional Engineer within 2 weeks before making any additional repairs.*	☐	☐	☐
d. Animal burrows. *Maintenance: Fill animal burrows with similar material to the existing material and compact. Rake and seed the area.*	☐	☐	☐
e. Cracking, bulging, or sliding of slope.	☐	☐	☐
i. Upstream face.	☐	☐	☐
ii. Downstream face.	☐	☐	☐
iii. At or beyond downstream toe.	☐	☐	☐
iv. At or beyond upstream toe.	☐	☐	☐
v. Emergency spillway. *Maintenance: Immediately stabilize the slope and consult an NYS Licensed Professional Engineer within 2 weeks before making any additional repairs.*	☐	☐	☐
f. Seeps/leaks at downstream face. *Maintenance: Look for changes in the color of the vegetation, plant species and their density to help locate the leak source.*	☐	☐	☐
g. Rip rap slope protection failure. *Maintenance: Stabilize slope, re-grade and compact the soil. Replace stone as necessary.*	☐	☐	☐
i. Emergency spillway clear of any obstructions or debris. *Maintenance: Remove and properly dispose of any trash and debris. Remove any unauthorized plants or any nuisance weeds and vegetation, including their roots. Do not use any herbicides. Topsoil, rake and seed the disturbed area by their removal.*	☐	☐	☐

2. Inflow Points

(Frequency: Annual)	**Yes**	**No**	**NA**
a. Vegetation and ground cover adequate. *Maintenance: Reseed bare areas. Remove any unauthorized plants or any nuisance weeds and vegetation, including their roots. Do not use any herbicides. Topsoil, rake and seed the disturbed area by their removal.*	☐	☐	☐
b. Free from erosion/undercutting. *Maintenance: Immediately stabilize and repair any areas where erosion around has occurred. Rake and seed the area. Seed mixture shall meet the seed mixture requirements specified on the approved plans.*	☐	☐	☐
c. Rip rap in good condition. *Maintenance: Replace stone, as necessary.*	☐	☐	☐

	Yes	No	NA
d. Pipes free from damage, corrosion, and sediment. *Maintenance: Immediately repair any damaged pipes. If pipes are severely damaged and cannot be repaired, replace the pipes. Remove and properly dispose of any sediment.*	☐	☐	☐

3. Outlet Structure/Overflow Spillway

(Frequency: Annual)	Yes	No	NA
a. Outlet structure in good condition.	☐	☐	☐
i. In good condition, no need for repairs.	☐	☐	☐
a. Cracks or displacement *Maintenance: Repair any minor cracks or displacement. Replace structure if major cracks or displacement is observed.*	☐	☐	☐
b. Minor spalling (<1"). *Maintenance: Repair any minor spalling observed.*	☐	☐	☐
c. Major spalling (rebars exposed). *Maintenance: Replace structure.*	☐	☐	☐
d. Joint failures. *Maintenance: Replace structure.*	☐	☐	☐
e. Water tightness. *Maintenance: Reseal structure for water tightness if minor leaks are observed. Replace structure if significant leaks are observed.*	☐	☐	☐
ii. Clear of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment when at 50% of sump height.*	☐	☐	☐
iii. Clear of debris and trash. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
iv. Pipes free from damage, corrosion, and sediment. *Maintenance: Immediately repair any damaged pipes. If pipes are severely damaged and cannot be repaired, replace the pipes. Remove and properly dispose of any sediment.*	☐	☐	☐
b. Overflow spillway	☐	☐	☐
i. In good condition, no need for repairs. *Maintenance: Replace stone, as necessary.*	☐	☐	☐
ii. Clear of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment when half of the void space is filled.*	☐	☐	☐
iii. Clear of debris and trash. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐

	Yes	No	NA
iv. No evidence of erosion. *Maintenance: Immediately stabilize and repair any areas where erosion occurred around or below the overflow spillway. Replace stone, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐
v. No evidence of erosion at downstream toe of drop structure or weir spillway. *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and reseed.*	☐	☐	☐

4. Check Dams/Energy Dissipaters/Swales

(Frequency: Annual)	**Yes**	**No**	**NA**
a. Check Dams	☐	☐	☐
i. No evidence of sediment buildup. *Maintenance: Remove accumulated sediment behind dams when sediment depth is one-third the dam height.*	☐	☐	☐
ii. Stone in good condition. *Maintenance: Replace stone, as necessary.*	☐	☐	☐
iii. No evidence of erosion *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and reseed area.*	☐	☐	☐
b. Energy Dissipaters	☐	☐	☐
i. No evidence of sediment buildup. *Maintenance: Remove and properly dispose of any accumulated sediment when half of the void space is filled.*	☐	☐	☐
ii. Rip rap in good condition. *Maintenance: Replace stone, as necessary.*	☐	☐	☐
iii. No evidence of erosion. *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and reseed.*	☐	☐	☐
c. Swales	☐	☐	☐
i. No evidence of sediment buildup. *Maintenance: Remove and properly dispose of any accumulated sediment when the depth is 20% of swale design depth.*	☐	☐	☐
ii. No evidence of erosion. *Maintenance: Immediately stabilize. Backfill any ruts and compact the soil. Topsoil, rake and seed the area.*	☐	☐	☐

5. Sediment Forebay

(Frequency: Monthly)	**Yes**	**No**	**NA**
a. Free of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment when at 50% of the design capacity.*	☐	☐	☐
b. No evidence of erosion. *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Topsoil, rake and seed the area.*	☐	☐	☐
c. Overflow Spillway.	☐	☐	☐
i. In good working condition, no need for repairs. *Maintenance: Replace stone, as necessary.*	☐	☐	☐
ii. Clear of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment when half of the void space is filled.*	☐	☐	☐
iii. Clear of trash and debris. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
iv. No evidence of erosion. *Maintenance: Immediately stabilize and repair any areas where erosion occurred around or below the overflow spillway. Replace stone, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐
v. No evidence of erosion at downstream toe of drop structure or weir spillway. *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐

6. Debris Cleanout

(Frequency: Monthly)	**Yes**	**No**	**NA**
a. Contributing areas clean of debris. *Maintenance: Remove and properly dispose of any trash and debris.*	☐	☐	☐
b. No dumping of yard wastes into practice. *Maintenance: Remove any yard wastes. Remind any maintenance personnel, landscapers, etc. to properly dispose of any yard wastes.*	☐	☐	☐
c. Clear of debris and litter. *Maintenance: Remove and properly dispose of any trash and debris.*	☐	☐	☐

7. Bioretention Basin Vegetation

(Frequency: Monthly)	**Yes**	**No**	**NA**
a. Plant height not less than design water depth of 3". *Maintenance: Remove any plants that have heights less than 3". Replace with plants specified on the approved plans that have a minimum height of 3".*	☐	☐	☐
b. Plant composition according to approved plans. *Maintenance: Remove any dead or dying plants and decaying plant material. Replace dead and dying plants.*	☐	☐	☐
c. No placement of unapproved plants. *Maintenance: Remove any unauthorized plants or any nuisance weeds and vegetation, including their roots. Do not use herbicides.*	☐	☐	☐
d. Grass height not greater than 6". *Maintenance: Mow grass. Increase frequency of mowing as necessary to keep grass heights less than 6".*	☐	☐	☐
e. Sparse or bare vegetation in more than 10% of bioretention area. *Maintenance: Install replacement plants, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐
f. Nuisance weeds or vegetation taking over more than 25% of the basin. *Maintenance: Remove any nuisance weeds and vegetation, including their roots. Do not use any herbicides. Topsoil, rake and seed the disturbed area*	☐	☐	☐
g. Mulch is in good condition and the appropriate thickness. *Maintenance: Replace decomposed mulch to the thickness shown on the approved plans.*	☐	☐	☐

8. Bioretention Basin Dewatering

(Frequency: Monthly)	**Yes**	**No**	**NA**
a. Dewaters between storms. *Maintenance: If filter bed is clogged or draining poorly, remove top few inches of discolored filter media. Rake the remaining material and replace the removed filter bed media.*	☐	☐	☐
b. No evidence of standing water 48 or more hours after a rainfall. *Maintenance: If standing water covers more than 15% of the planting bed 48 hours after a rainfall, remove top few inches of planting bed media. Rake the filter bed media to loosen the soil. Recheck after next rainfall event. If still not dewatering fully after 48 hours, remove and replace the entire filter bed media. If problem persists, contact a NYS licensed Professional Engineer.*	☐	☐	☐

	Yes	No	NA
c. Underdrain present and no evidence of standing water 48 or more hours after a rainfall. *Maintenance: Flush underdrain system to remove any trapped sediment. If no sediment is present, remove top few inches of planting bed media. Rake the filter bed media to loosen the soil. Recheck after next rainfall event. If still not dewatering fully after 48 hours, remove entire filter bed material and check the gravel drainage layer for clogging. Replace filter bed media and gravel drainage layer with new material. If problem persists, contact a NYS licensed Professional Engineer.*	☐	☐	☐

9. Bioretention Basin Filter Bed Integrity

(Frequency: Annual)	**Yes**	**No**	**NA**
a. Filter bed has not been blocked or filled inappropriately. *Maintenance: Remove all blockages and inappropriate fill. Restore filter bed to elevation shown on the approved plans.*	☐	☐	☐
b. Filter bed flat and level. *Maintenance: Remove all blockages, inappropriate fill, or accumulated sediment if present. Check embankment for differential settlement. If differential settlement is noted, refer to Item 1.c for maintenance procedures. If no differential settlement is noted, rake and level the planting bed media so that it is flat and level.*	☐	☐	☐
c. Uneven ponding. *Maintenance: Remove all blockages, inappropriate fill, or accumulated sediment if present. Check embankment for differential settlement. If differential settlement is noted, refer to Item 1.c for maintenance procedures. If no differential settlement is noted, rake and level the planting bed media so that it is flat and level.*	☐	☐	☐

Notes:

1. The site must be returned to the approved conditions when any repairs are made.
2. Unauthorized plants are any plants that are growing or have been installed that are not any of the plants shown on the approved plans.
3. All seed mixtures shall meet the seed mixture requirements specified on the approved plans.
4. Replace any dead or dying plants with plants specified in the planting schedule shown on the approved plans.
5. Replaced stone shall meet the stone requirements specified on the approved plans.
6. Replaced filter bed media shall meet the filter bed media requirements specified on the approved plans.
7. Replaced gravel drainage layer shall meet the gravel drainage layer requirements specified on the approved plans.

Comments:

Actions to be taken:

Post Construction Inspection and Maintenance Checklist
Dry Detention Basin

1. Embankment **(Frequency: Annual)**	**Yes**	**No**	**NA**
a. Vegetation and ground cover adequate.	☐	☐	☐
i. Minimum 80% ground cover.	☐	☐	☐
Maintenance: Topsoil, rake and seed bare areas. Replace dead and dying plants.			
ii. Excessively tall grass (greater than 6" in height)	☐	☐	☐
Maintenance: Mow grass to have a height of 4" to 6". Increase mowing frequency as necessary.			
iii. Unauthorized plants.	☐	☐	☐
Maintenance: Remove any unauthorized plants, including roots. Do not use herbicides. Topsoil, rake and seed the area disturbed by their removal.			
b. Slope erosion.	☐	☐	☐
i. Small bare areas (min. 50 square feet).	☐	☐	☐
Maintenance: Topsoil, rake and seed bare areas.			
ii. Ruts less than 12" wide.	☐	☐	☐
Maintenance: Prior to making any repairs, identify the source of erosion and correct. Protect the slopes prior to any work occurring. Backfill ruts and compact soil. Topsoil, rake and seed bare areas. Alternatively, hydroseeding can be used to seed the slope.			
iii. Ruts greater than 12" wide.	☐	☐	☐
Maintenance: Prior to making any repairs, identify the source of erosion and correct. Protect the slopes prior to any work occurring. Re-grade, backfill ruts and compact soil. Install erosion control mats on slopes 3:1 or steeper to protect the re-graded slope. Topsoil, rake and seed bare areas. Inspect on a weekly basis until 80% ground cover is achieved. Alternatively, hydroseeding can be used to seed the slope.			
c. Uneven settling	☐	☐	☐
Maintenance: Install permanent benchmarks or other permanent reference point in each practice to be used with as-built elevations to measure uneven settling.			
i. Greater than 0" but less than 2" of settling.	☐	☐	☐
Maintenance: No immediate action required. Re-inspect in 6 months.			
ii. Greater than 2" but less than 4" of settling.	☐	☐	☐
Maintenance: Immediately repair. Re-grade and compact the soil. Topsoil, rake and seed the area. Re-inspect in 6 months.			

	Yes	No	NA
iii. Greater than 4" of settling. *Maintenance: Immediately stabilize the area and consult a NYS Licensed Professional Engineer within 2 weeks before making any additional repairs.*	☐	☐	☐
d. Animal burrows. *Maintenance: Fill animal burrows with similar material to the existing material and compact. Topsoil, rake and seed the area.*	☐	☐	☐
e. Cracking, bulging, or sliding of slope.	☐	☐	☐
i. Upstream face.	☐	☐	☐
ii. Downstream face.	☐	☐	☐
iii. At or beyond downstream toe.	☐	☐	☐
iv. At or beyond upstream toe.	☐	☐	☐
v. Emergency spillway. *Maintenance: Immediately stabilize the slope and consult an NYS Licensed Professional Engineer within 2 weeks before making any additional repairs.*	☐	☐	☐
f. Seeps/leaks at downstream face. *Maintenance: Look for changes in the color of the vegetation, plant species and their density to help locate the leak source.*	☐	☐	☐
g. Rip rap slope protection failure. *Maintenance: Stabilize slope, re-grade and compact the soil. Replace stone, as necessary.*	☐	☐	☐
i. Emergency spillway clear of any obstructions or debris. *Maintenance: Remove and properly dispose of any trash and debris. Remove any unauthorized plants, or any nuisance weeds and vegetation, including their roots. Do not use any herbicides. Topsoil, rake and seed the area disturbed by their removal.*	☐	☐	☐

2. Inflow Points

(Frequency: Annual)	Yes	No	NA
a. Vegetation and ground cover adequate. *Maintenance: Reseed bare areas. Remove any unauthorized plants or any nuisance weeds and vegetation, including their roots. Do not use any herbicides. Topsoil, rake and seed the area disturbed by their removal.*	☐	☐	☐
b. Free from erosion/undercutting. *Maintenance: Immediately stabilize and repair any areas where erosion around has occurred. Topsoil, rake and seed the area.*	☐	☐	☐
c. Rip rap in good condition. *Maintenance: Replace stone, as necessary.*	☐	☐	☐
d. Pipes free from damage, corrosion, and sediment. *Maintenance: Immediately repair any damaged pipes. If pipes are severely damaged and cannot be repaired, replace the pipes. Remove and properly dispose of any sediment.*	☐	☐	☐

3. Outlet Structure/Overflow Spillway

(Frequency: Annual)	**Yes**	**No**	**NA**
a. Riser pipe	☐	☐	☐
i. In good condition, no need for repairs.	☐	☐	☐
Maintenance: Repair any minor damages. Replace structure if significant damages are observed.			
ii. Clear of sediment.	☐	☐	☐
Maintenance: Remove and properly dispose of any accumulated sediment when at 50% of sump height.			
iii. Clear of debris and trash.	☐	☐	☐
Maintenance: Remove and properly dispose of any debris and trash.			
b. Concrete outlet structure	☐	☐	☐
i. In good condition, no need for repairs.	☐	☐	☐
a. Cracks or displacement.	☐	☐	☐
Maintenance: Repair any minor cracks. If minor displacement is observed, re-inspect in 6 months. Replace structure if major cracks or significant displacement is observed.			
b. Minor spalling (<1").	☐	☐	☐
Maintenance: Repair any minor spalling.			
c. Major spalling (rebars exposed).	☐	☐	☐
Maintenance: Replace structure.			
d. Joint failures.	☐	☐	☐
Maintenance: Replace structure.			
e. Water tightness.	☐	☐	☐
Maintenance: Reseal structure for water tightness if minor leaks are observed. Replace structure if significant leaks are observed.			
ii. Clear of sediment.	☐	☐	☐
Maintenance: Remove and properly dispose of any accumulated sediment when at 50% of sump height.			
iii. Clear of debris and trash.	☐	☐	☐
Maintenance: Remove and properly dispose of any debris and trash.			
iv. Pipes free from damage, corrosion, and sediment.	☐	☐	☐
Maintenance: Immediately repair any damaged pipes. If pipes are severely damaged and cannot be repaired, replace the pipes. Remove and properly dispose of any sediment.			
c. Low flow orifice is unobstructed.	☐	☐	☐
Maintenance: Remove and properly dispose of any debris and trash.			

	Yes	No	NA
d. Low flow trash rack.	☐	☐	☐
i. Clear of debris and trash. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
ii. Clear of any corrosion. *Maintenance: If significant corrosion is observed, replace trash rack.*	☐	☐	☐
e. Weir trash rack.	☐	☐	☐
i. Clear of debris and trash. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
ii. Clear of any corrosion. *Maintenance: If significant corrosion is observed, replace trash rack.*	☐	☐	☐
f. Control valve operational. *Maintenance: Replace if not functioning or operational.*	☐	☐	☐
g. Pond valve operational, chained and locked. *Maintenance: Replace valve if not functioning or operational.*	☐	☐	☐
h. Overflow spillway	☐	☐	☐
i. In good condition, no need for repairs. *Maintenance: Replace any dislodged stone with the same stone type.*	☐	☐	☐
ii. Clear of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment when half of the void space is filled.*	☐	☐	☐
iii. Clear of debris and trash. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
iv. No evidence of erosion. *Maintenance: Immediately stabilize and repair any areas where erosion occurred around or below the overflow spillway. Replace stone, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐
v. No evidence of erosion at downstream toe of drop structure or weir spillway. *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐

4. Sediment Forebay

(Frequency: Monthly)	**Yes**	**No**	**NA**
a. Free of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment when at 50% of the design capacity.*	☐	☐	☐

	Yes	No	NA
b. No evidence of erosion. *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Topsoil, rake and seed the area.*	☐	☐	☐
c. Overflow Spillway.	☐	☐	☐
i. In good working condition, no need for repairs. *Maintenance: Replace stone, as necessary.*	☐	☐	☐
ii. Clear of sediment. *Maintenance: Remove and properly dispose of any accumulated sediment when half of the void space is filled.*	☐	☐	☐
iii. Clear of trash and debris. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
iv. No evidence of erosion. *Maintenance: Immediately stabilize and repair any areas where erosion occurred around or below the overflow spillway. Replace stone, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐
v. No evidence of erosion at downstream toe of drop structure or weir spillway. *Maintenance: Immediately stabilize and repair any areas where erosion has occurred. Replace stone, as necessary. Topsoil, rake and seed the area.*	☐	☐	☐

5. Dry Pond Areas

(Frequency: Monthly)	Yes	No	NA
a. Vegetation adequate. *Maintenance: Topsoil, rake and seed the area.*	☐	☐	☐
b. Undesirable vegetative growth. *Maintenance: Mow grass to have a height of 4" to 6". Remove any unauthorized plants or any nuisance weeds and vegetation, including their roots. Do not use herbicides. Topsoil, rake and seed the area disturbed by their removal.*	☐	☐	☐
c. Undesirable woody vegetation. *Maintenance: Remove any undesirable woody vegetation, including their roots. Do not use herbicides. Topsoil, rake and seed the area disturbed by their removal.*	☐	☐	☐
d. Low flow channels clear of obstructions. *Maintenance: Remove and properly dispose of any debris and trash.*	☐	☐	☐
e. Standing water or wet spots. *Maintenance: Re-grade areas to ensure positive drainage. Topsoil, rake and seed the area.*	☐	☐	☐
f. Sediment and trash accumulation. *Maintenance: Remove and properly dispose of any accumulated sediment and trash.*	☐	☐	☐

6. Vegetation **(Frequency: Annual)**	**Yes**	**No**	**NA**
a. Vegetation health and growing. *Maintenance: Remove any dead or dying plants and decaying plant material. Replace dead and dying plants.*	☐	☐	☐
b. Evidence of invasive species. *Maintenance: Remove invasive species, including roots. Do not use herbicides. Install additional wetland plants as necessary.*	☐	☐	☐
c. Accumulated sediment reducing volume significantly. *Maintenance: Remove and properly dispose of any accumulated sediment when at 50% of the design capacity.*	☐	☐	☐

7. Miscellaneous **(Frequency: Monthly)**	**Yes**	**No**	**NA**
a. Encroachment on pond or easement area. *Maintenance: Remove any encroachments into the pond or easement area.*	☐	☐	☐
b. Maintenance access routes in good condition. *Maintenance: Repair any minor damage or erosion to the maintenance access routes. If significant damage or erosion is noted, stabilize, re-grade and re-establish the maintenance access routes in accordance with the plans.*	☐	☐	☐
c. Signs of hydrocarbon build-up. *Maintenance: Coordinate removal/cleanup of any oil, gas, or contaminants with the appropriate clean-up personnel.*	☐	☐	☐
d. Fence in good condition. *Maintenance: Replace any damaged sections of fence.*	☐	☐	☐
e. Safety signs are installed. *Maintenance: Replace any missing signs.*	☐	☐	☐

Notes:

1. The site must be returned to the approved conditions when any repairs are made.
2. Unauthorized plants are any plants that are growing or have been installed that are not any of the plants shown on the approved plans.
3. All seed mixtures shall meet the seed mixture requirements specified on the approved plans.
4. Replace any dead or dying plants with plants specified in the planting schedule shown on the approved plans.
5. Replaced stone shall meet the stone requirements specified on the approved plans.

Comments:

Actions to be taken:

Appendix I: Soil Boring & Infiltration Data

BORING LOG NO. B-1

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5089° Longitude: -74.0841°

Approximate Surface Elev.: 451 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	Description	FIELD TEST RESULTS
0.1	451+/-	**TOPSOIL**	
		SILTY SAND (SM), with gravel, brown, loose to medium dense	1-2-3-6 N=5
			5-8-9-24 N=17
4.0	447+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL**, occasional cobbles and boulders, brown, medium dense to very dense	8-13-13-13 N=26
			8-7-8-10 N=15
			10-21-31-47 N=52
		Grades gray	35-31-34-45 N=65
20.3	430.5+/-	***Boring Terminated at 20.3 Feet***	50/4"

DEPTH (Ft.): 5, 10, 15, 20

WATER LEVEL OBSERVATIONS: ▽

SAMPLE TYPE

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *At completion of drilling*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-11-2021 | Boring Completed: 10-11-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-2

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5087° Longitude: -74.0833°

Approximate Surface Elev.: 444 (Ft.) +/-

DEPTH		ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.4	**TOPSOIL**	443.5+/-				
	SILTY SAND (SM), with gravel, brown, loose to medium dense					2-2-2-5 N=4
						8-8-8-8 N=16
4.0		440+/-				
	GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, dense		5			5-6-30-24 N=36
				▽		18-19-17-21 N=36
10.0		434+/-				
10.8	**WEATHERED SHALE**, gray, very dense	433.5+/-	10			27-50/3"
	Spoon Refusal at 10.75 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *Overnight*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-12-2021 | Boring Completed: 10-13-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-3

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5091° Longitude: -74.0837°

Approximate Surface Elev.: 449 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	Description	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.1	449+/-	**TOPSOIL**				
		GLACIAL TILL - SILTY SAND WITH GRAVEL, occasional cobbles and boulders, brown, medium dense				2-4-29-50/2" N=33
						6-9-7-6 N=16
			5			6-8-11-9 N=19
						9-9-9-8 N=18
10.0	439+/-	**WEATHERED SHALE**, gray, very dense	10			50/4"
14.0	435+/-	***Auger Refusal at 14 Feet***				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-11-2021 | Boring Completed: 10-11-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-4

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5094° Longitude: -74.0840°

Approximate Surface Elev.: 450 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	Description	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.2	450+/-	**TOPSOIL**				
		SILTY SAND, with gravel, brown, loose				2-2-3-3 N=5
2.0	448+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL**, occasional cobbles and boulders, brown, medium dense to very dense				5-15-13-15 N=28
			5			5-15-13-15 N=28
						14-13-18-14 N=31
			10	▽		16-15-50/4"
15.0	435+/-					
		WEATHERED SHALE, gray, very dense	15			42-35-50/3"
16.3	433.5+/-	***Auger Refusal at 16.3 Feet***				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *30 Mins after completion*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-11-2021 | Boring Completed: 10-11-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-5

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5092° Longitude: -74.0831°

Approximate Surface Elev.: 447 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.2 **TOPSOIL**	447+/-				
SILTY SAND (SM), with gravel, brown, medium dense					5-6-8-12 N=14
2.0	445+/-				
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, dense					28-18-13-17 N=31
		5			8-17-21-16 N=38
					15-15-24-13 N=39
10.0	437+/-				
10.1 **WEATHERED SHALE**, gray, very dense	437+/-	10			50/1"
Spoon Refusal at 10.1 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Rope and Cathead

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-13-2021 | Boring Completed: 10-13-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-6

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5095° Longitude: -74.0835°

Approximate Surface Elev.: 448 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.3	447.5+/-				
TOPSOIL					
SILTY SAND (SM), with gravel, brown, loose					2-3-3-5 N=6
2.0	446+/-				
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, dense to very dense					12-12-19-17 N=31
4.5	443.5+/-				29-50/2"
WEATHERED SHALE, gray, very dense		5			
6.3	441.5+/-				50/4"
Boring Terminated at 6.3 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-7

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5098° Longitude: -74.0839°

Approximate Surface Elev.: 450 (Ft.) +/-

DEPTH	ELEVATION (Ft.)		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.2	450+/-	**TOPSOIL**				
		SILTY SAND (SM), with gravel, brown, loose to medium dense				4-3-2-7 N=5
						9-9-9-9 N=18
4.0	446+/-					
		GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense to very dense	5			9-10-12-16 N=22
						38-30-28-22 N=58
10.0	440+/-			▽		
		WEATHERED SHALE, gray, very dense	10			29-40-50/5"
11.4	438.5+/-					
		Boring Terminated at 11.4 Feet				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *At completion of drilling*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-8

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5096° Longitude: -74.0830°

Approximate Surface Elev.: 449 (Ft.) +/-

DEPTH	ELEVATION (Ft.)		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.2	449+/-	**TOPSOIL**				
		SILTY SAND (SM), with gravel, brown, loose				2-2-2-5 N=4
2.0	447+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to dense				8-8-8-8 N=16
			5			5-6-30-24 N=36
						18-19-17-21 N=36
			10			27-50/4"
11.0	438+/-					
11.8	437+/-	**WEATHERED SHALE**, very dense				
		Boring Terminated at 11.8 Feet				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-9

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5099° Longitude: -74.0834°

Approximate Surface Elev.: 450 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	Description	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.1	450+/-	**TOPSOIL**				
		SILTY SAND (SM), with gravel, brown, loose				4-4-4-5 N=8
2.0	448+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense	5			9-10-16-14 N=26
						7-12-17-22 N=29
6.5	443.5+/-					21-50/5"
6.9	443+/-	**WEATHERED SHALE**, gray, very dense				
		Boring Terminated at 6.9 Feet				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-10

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5103° Longitude: -74.0837°

Approximate Surface Elev.: 450 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	GRAPHIC LOG	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.2	450+/-					
TOPSOIL						
SILTY SAND (SM), with gravel, brown, loose						2-3-3-7 N=6
2.0	448+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, dense						11-14-19-20 N=33
4.5	445.5+/-					
WEATHERED SHALE, gray, very dense			5			12-50
6.2	444+/-					50/2"
Boring Terminated at 6.2 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-11

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5101° Longitude: -74.0829°

Approximate Surface Elev.: 451 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DESCRIPTION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.4	450.5+/-	**TOPSOIL**				
		SILTY SAND (SM), with gravel, brown, medium dense				2-6-7-10 N=13
						6-5-10-10 N=15
4.0	447+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	5			11-11-17-17 N=28
						22-12-16-24 N=28
			10			31-50/4"
15.0	436+/-					
15.1	436+/-	**WEATHERED SHALE**, gray, very dense	15			50/1"
		Spoon Refusal at 15.1 Feet				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Rope and Cathead

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-13-2021

Boring Completed: 10-13-2021

Drill Rig: Diedrich D50

Driller:

Project No.: JB215164

BORING LOG NO. B-12

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5104° Longitude: -74.0834°

Approximate Surface Elev.: 452 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.2	452+/-					
TOPSOIL						
SILTY SAND (SM), with gravel, brown, loose					22	2-2-5-7 N=7
2.0	450+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense and very dense		5			20	8-10-16-18 N=26
					19	18-23-27-27 N=50
					16	21-24-50/5"
7.4	444.5+/-					
Spoon Refusal at 7.4 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-13

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5103° Longitude: -74.0844°

Approximate Surface Elev.: 451 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.2 **TOPSOIL**	451+/-					
SILTY SAND (SM), with gravel, brown, loose					20	3-3-4-18 N=7
2.0	449+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense to dense		5			19	10-10-11-44 N=21
					20	10-13-14-19 N=27
					18	16-20-34-25 N=54
8.0	443+/-					
Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-15-2021 | Boring Completed: 10-15-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-14

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5099° Longitude: -74.0841°

Approximate Surface Elev.: 450 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	GRAPHIC LOG	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS
0.1	450+/-					
TOPSOIL						
SILTY SAND (SM), with gravel, brown, loose, loose						2-4-5-11 N=9
2.0	448+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, very dense, dense						50/4"
4.8	445+/-					15-50/1"
Auger Refusal at 4.8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-15-2021 | Boring Completed: 10-15-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-18

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5089° Longitude: -74.0844°

Approximate Surface Elev.: 451 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.1 **TOPSOIL**	451+/-					
SILTY SAND (SM), with gravel, brown, loose					16	2-2-2-2 N=4
2.0	449+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense and very dense		5			20	3-3-19-26 N=22
					1	21-11-5-5 N=16
					20	5-6-7-8 N=13
8.0	443+/-					
Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-19

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5099° Longitude: -74.0826°

Approximate Surface Elev.: 449 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.1 **TOPSOIL**	449+/-					
SILTY SAND (SM), with gravel, brown, loose					20	2-2-4-6 N=6
2.0	447+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense		5			18	5-14-7-9 N=21
					24	9-10-13-12 N=23
					24	11-11-11-11 N=22
8.0	441+/-					
Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:
B-19 was lead boring for INF-7

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-20

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5094° Longitude: -74.0829°

Approximate Surface Elev.: 448 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.1 **TOPSOIL**	448+/-					
SILTY SAND (SM), with gravel, brown, loose					20	2-3-5-6 N=8
2.0	446+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, very dense and medium dense					15	6-12-50/4"
		5			19	6-11-17-12 N=28
					1	10-9-11-13 N=20
8.0	440+/-					
Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-21

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5088° Longitude: -74.0831°

Approximate Surface Elev.: 444 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.2 **TOPSOIL**	444+/-					
SILTY SAND (SM), with gravel, brown, loose					19	2-2-3-3 N=5
2.0	442+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense and very dense		5			24	5-7-10-7 N=17
					24	18-49-15-14 N=64
7.0	437+/-				22	12-10-13-20 N=23
WEATHERED SHALE						
8.0	436+/-					
Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-22

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5087° Longitude: -74.0840°

Approximate Surface Elev.: 451 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DESCRIPTION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.3	450.5+/-	**TOPSOIL**					
		SILTY SAND (SM), with gravel, brown, loose				19	2-2-4-10 N=6
2.0	449+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to dense				2	10-10-13-46 N=23
			5			0	15-10-12-12 N=22
						19	10-10-23-14 N=33
8.0	443+/-	***Boring Terminated at 8 Feet***					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-23

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5083° Longitude: -74.0833°

Approximate Surface Elev.: 444 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.2 **TOPSOIL**	444+/-					
SILTY SAND (SM), with gravel, brown, loose					10	2-2-1-2 N=3
2.0	442+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense and very dense					20	4-4-7-20 N=11
					9	24-50/4"
		5				
7.0	437+/-				13	12-8-50/2"
7.2 **WEATHERED SHALE**, gray, very dense	437+/-					
Spoon Refusal at 7.2 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-24

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5078° Longitude: -74.0835°

Approximate Surface Elev.: 446 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DESCRIPTION	DEPTH (Ft.)	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.4	445.5+/-	**TOPSOIL**				
		SILTY SAND (SM), with gravel, brown, loose			19	2-2-2-4 N=4
2.0	444+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense			22	5-9-8-40 N=17
4.5	441.5+/-	**WEATHERED SHALE**, gray, very dense	5		15	28-48-50/4"
6.1	440+/-				1	50/1"
		Auger Refusal at 6.1 Feet				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:
B-24 was lead boring for INF-6

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-1

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5094° Longitude: -74.0845°

Approximate Surface Elev.: 451 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.1 **TOPSOIL**	451+/-					
SILTY SAND (SM), with gravel, brown, loose					19	1-1-3-4 N=4
2.0	449+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense, dense, and very dense					10	8-9-16-12 N=25
		5	▽		24	6-6-10-12 N=16
					20	18-17-19-20 N=36
			▽		7	21-50/4"
		10			15	16-24-50/4"
					24	16-20-16-24 N=36
14.9 **Grades gray**	436+/-				9	16-50/4"
Spoon Refusal at 14.9 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *8.0' after 12'-14' sample*

▽ *5.5' 15 minutes after completion*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-20-2021 | Boring Completed: 10-20-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-2

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5090° Longitude: -74.0846°

Approximate Surface Elev.: 451 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.2	451+/-					
TOPSOIL						
SILTY SAND (SM), with gravel, brown, loose					18	2-2-4-5 N=6
2.0	449+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense, dense, and very dense					20	5-23-11-14 N=34
		5	▽		24	5-7-7-9 N=14
					24	8-7-9-9 N=16
					19	9-10-11-20 N=21
		10			20	12-20-45-50/4" N=65
					4	50/5"
14.4	436.5+/-				4	50/5"
Spoon Refusal at 14.4 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *5.5' overnight*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-3

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5085° Longitude: -74.0840°

Approximate Surface Elev.: 450 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	Description
0.1	450+/-	**TOPSOIL**
		SILTY SAND (SM), with gravel, brown, medium dense
2.0	448+/-	
		GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense and dense
13.0	437+/-	
		WEATHERED SHALE, gray, very dense
16.2	434+/-	
		Auger Refusal at 16.2 Feet

DEPTH (Ft.)	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
		20	1-2-2-10 N=4
		20	8-12-14-13 N=26
5		24	6-10-9-10 N=19
		24	10-12-15-14 N=27
		24	7-7-10-14 N=17
10		22	12-17-29-35 N=46
		20	38-48-41-50/5" N=89
15			

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-4

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5082° Longitude: -74.0837°

Approximate Surface Elev.: 448 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	Description	DEPTH (Ft.)	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
2.0	446+/-	**TOPSOIL**			5	4-4-3-4 N=7
4.0	444+/-	**SILTY SAND (SM)**, with gravel, brown, medium dense			20	9-12-11-13 N=23
8.0	440+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense and dense	5		24	5-9-12-12 N=21
					24	16-18-21-29 N=39
11.0	437+/-	**WEATHERED SHALE**, gray, very dense			24	15-16-14-25 N=30
			10		2	50/4"
		Auger Refusal at 11 Feet				

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-5

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5080° Longitude: -74.0830°

Approximate Surface Elev.: 440 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.4	439.5+/-					
TOPSOIL						
SILTY SAND (SM), with gravel, brown, loose					18	2-3-3-5 N=6
2.0	438+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense, dense, and very dense		5	▽		19	6-5-6-11 N=11
					24	10-11-20-20 N=31
					24	12-10-10-10 N=20
9.9	430+/-				22	10-20-22-50/5" N=42
Spoon Refusal at 9.9 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *8.3' 30 minutes after completion*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-8

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5102° Longitude: -74.0823°

Approximate Surface Elev.: 448 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
0.1 **TOPSOIL**	448+/-					
SILTY SAND (SM), with gravel, brown, loose					22	2-2-5-10 N=7
2.0	446+/-					
GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense		5			24	10-9-16-18 N=25
			▽		24	13-16-12-12 N=28
					24	12-8-21-15 N=29
8.0	440+/-					
Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4 HSA

Abandonment Method:

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

WATER LEVEL OBSERVATIONS

▽ *6.4' at completion of drilling*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-20-2021 | Boring Completed: 10-20-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

Terracon

INFILTRATION TEST RESULTS					
PROJECT: Newburgh Commerce Center				**PROJECT NO.** JB215146	
PROJECT LOCATION: Newburgh, New York				**TESTER:** SLM	
Test Location	**Test Depth (feet)**	**Trial No.**	**Water Drop (inches)**	**Elapsed Time (hours)**	**Infiltration Rate (inches/hour)**
INF-1	2.5	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			
INF-2	2.5	1	8	1	8
		2	4	1	4
		3	3	1	3
		4	3	1	3
		NOTE: Rate of final trial: 3 in/hr. Average of four trials: 4.5 in/hr.			
INF-3	10	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			

Notes:

(1) Test pipes were installed in boreholes made adjacent to test borings INF-1, INF-2, and INF-3.
(2) At the location of INF-1, 15” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.
(3) At the location of INF-3, 16” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.

SOIL CLASSIFICATION AT TEST DEPTH

Test Location INF-1: Glacial Till - Silty Sand with Gravel.
Test Location INF-2: Glacial Till - Silty Sand with Gravel.
Test Location INF-3: Glacial Till - Silty Sand with Gravel.

Terracon

INFILTRATION TEST RESULTS					
PROJECT: Newburgh Commerce Center				**PROJECT NO.** JB215146	
PROJECT LOCATION: Newburgh, New York				**TESTER:** SLM	
Test Location	**Test Depth (feet)**	**Trial No.**	**Water Drop (inches)**	**Elapsed Time (hours)**	**Infiltration Rate (inches/hour)**
INF-4	6.0	1	1	1	1
		2	.5	1	.5
		3	1	1	1
		4	1	1	1
		NOTE: Rate of final trial: 1 in/hr. Average of four trials: .8 in/hr.			
INF-5	5.0	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			
INF-6	3.0	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			

Notes:

(1) Test pipes were installed in boreholes made adjacent to test borings INF-4, INF-5, and B-24.
(2) At the location of INF-5, 16” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.
(3) At the location of INF-6, 13” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.

SOIL CLASSIFICATION AT TEST DEPTH

Test Location INF-4: Glacial Till - Silty Sand with Gravel.
Test Location INF-5: Glacial Till - Silty Sand with Gravel.
Test Location INF-6: Glacial Till - Silty Sand with Gravel.

INFILTRATION TEST RESULTS					
PROJECT: Newburgh Commerce Center				**PROJECT NO.** JB215146	
PROJECT LOCATION: Newburgh, New York				**TESTER:** SLM	
Test Location	**Test Depth (feet)**	**Trial No.**	**Water Drop (inches)**	**Elapsed Time (hours)**	**Infiltration Rate (inches/hour)**
INF-7	4.5	1	2	1	2
		2	2	1	2
		3	2	1	2
		4	2	1	2
		NOTE: Rate of final trial: 2 in/hr. Average of four trials: 2 in/hr.			
INF-8	2.5	1	4	1.0	4
		2	1	1.0	1
		3	1	1.0	1
		4	1	1.0	1
		NOTE: Rate of final trial: 1 in/hr. Average of four trials: 1.75 in/hr.			

Notes:

(1) Test pipes were installed in boreholes made adjacent to test borings B-19 and INF-8.

SOIL CLASSIFICATION AT TEST DEPTH

Test Location INF-7: Glacial Till - Silty Sand with Gravel.
Test Location INF-8: Glacial Till - Silty Sand with Gravel.

APPENDIX 6

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Newburgh Commerce Center (Planning Board No. 2020-21)		
Project Location (describe, and attach a general location map): The site is located +-800-ft east of the intersection of NYS Route 17K and Corporate Boulevard. (SBL: 95-1-58)		
Brief Description of Proposed Action (include purpose or need): The proposed action consists of a +/-132,000 -square foot flex space building that meet the requirements of the zoning code. The proposed action will also include associated loading and parking spaces, utilities, and stormwater management practices. Access to the project site will be provided from NYS Route 17K.		
Name of Applicant/Sponsor: Scannell Properties, LLC	Telephone: E-Mail: ZacharyZ@scannellproperties.com	
Address: 8801 River Crossing Boulevard Suite 300		
City/PO: Indianapolis	State: IN	Zip Code: 46240
Project Contact (if not same as sponsor; give name and title/role): Michael Finan, Senior Associate/VP (Langan Engineering, Environmental, Surveying and Landscape Architecture, and Geology, D.P.C.)	Telephone: (914) 323-7410 E-Mail: mfinan@langan.com	
Address: 1 North Broadway, Suite 910		
City/PO: White Plains	State: NY	Zip Code: 10601
Property Owner (if not same as sponsor): Red Oak SOS LLC	Telephone: E-Mail:	
Address: 1400 E 66th Avenue		
City/PO: Denver	State: CO	Zip Code: 80229

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes☑No		
b. City, Town or Village Planning Board or Commission ☑Yes☐No	Town of Newburgh Planning Board - Site Plan Approval; SEQR determination	Projected date: Fall 2021
c. City, Town or Village Zoning Board of Appeals ☑Yes☐No	Town of Newburgh, Zoning Board of Appeals	October 2021
d. Other local agencies ☑Yes☐No	Town of Newburgh Engineer and Water Department	Projected date: Fall 2021
e. County agencies ☑Yes☐No	Orange County (OC) Dept. of Planning - Site Plan Review. OC Dept of Health - water main conn.	Projected date: Fall 2021
f. Regional agencies ☐Yes☑No		
g. State agencies ☑Yes☐No	NYSDOT - Highway Work Permit NYSDEC - SPDES; Wetland JD	Projected date: Fall 2021
h. Federal agencies ☑Yes☐No	USACE Wetland JD; FAA Notice of Construction/Hazard to Air Nav. Determination	Projected date: Fall 2021

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes☐No

If Yes, identify the plan(s):

Priority Growth Area as identified in the Orange County, New York Comprehensive Plan

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Interchange Business (IB) District; Stewart Airport Overlay District;

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Newburgh Enlarged City School District

b. What police or other public protection forces serve the project site?
Town of Newburgh Police Department

c. Which fire protection and emergency medical services serve the project site?
Orange Lake Fire District; Town of Newburgh Emergency Medical Services

d. What parks serve the project site?
Algonquin Powder Mill Park (municipal 2mi north), Cronomer Hill County Park (county, 2mi north), New Windsor Historic Parklands (municipal 2mi south), Stewart State Forest (state 4mi west)

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Industrial - flex space building

b. a. Total acreage of the site of the proposed action? ±13.8 acres
b. Total acreage to be physically disturbed? ±11.2 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? ±13.8 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 16 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

* See note at bottom of page

* A 5-ac waiver will be requested for this project to construct in a single phase.

f. Does the project include new residential uses? ☐Yes ☑No
If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No
If Yes,
i. Total number of structures 1
ii. Dimensions (in feet) of largest proposed structure: < 40 feet height; 240 width; and 550 length
iii. Approximate extent of building space to be heated or cooled: ±132,000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No
If Yes,
i. Purpose of the impoundment:
ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐Other specify:
iii. If other than water, identify the type of impounded/contained liquids and their source.
iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length
vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐Yes ☑No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
If Yes:
i .What is the purpose of the excavation or dredging?
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
- Volume (specify tons or cubic yards):
- Over what duration of time?

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No
If yes, describe.

v. What is the total area to be dredged or excavated? _____ acres
vi. What is the maximum area to be worked at any one time? _____ acres
vii. What would be the maximum depth of excavation or dredging? _____ feet
viii. Will the excavation require blasting? ☐Yes ☐No
ix. Summarize site reclamation goals and plan:

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No
If Yes:
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description):

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☑No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☑No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑Yes ☐No
If Yes:

i. Total anticipated water usage/demand per day: 10,000 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑Yes ☐No
If Yes:

- Name of district or service area: Town of Newburgh consolidated water district
- Does the existing public water supply have capacity to serve the proposal? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No
- Do existing lines serve the project site? ☑Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☑No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☑No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑Yes ☐No
If Yes:

i. Total anticipated liquid waste generation per day: +/-10,000 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary Wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No
If Yes:

- Name of wastewater treatment plant to be used: City of Newburgh - Renwick Street wastewater treatment plant
- Name of district: Town of Newburgh Sewer District
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or ±7.2 acres (impervious surface)

_____ Square feet or ±13.8 acres (parcel size)

ii. Describe types of new point sources. Conveyance pipes

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

On-site stormwater runoff will be collected and treated in bioretention areas. Runoff will also be controlled through open detention basins and discharged at least than pre-development rates to a down stream drainage channel.

- If to surface waters, identify receiving water bodies or wetlands: unnamed drainage channel.
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☑ Yes ☐ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

Delivery vehicles

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

boilers

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____ Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____ Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____ Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☑ Evening ☐Weekend
☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): 90 trips/day - tractor trailers

iii. Parking spaces: Existing 0 spaces Proposed 107 spaces Net increase/decrease 107 spaces

iv. Does the proposed action include any shared use parking? ☐Yes ☑No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: Access to the site will be provided from NYS Route 17K. Modifications to NYS Route 17k will be required to allow for access into the site.

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☑No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☑No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☑No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☑Yes ☐No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: 340 kW average demand, 500 kW Peak.

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): Grid/local utility (Central Hudson Gas and Electric - Coldenham substation)

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: Will comply with local regulations
- Saturday: Will comply with local regulations
- Sunday: Will comply with local regulations
- Holidays: Will comply with local regulations

ii. During Operations:

- Monday - Friday: 24 hours
- Saturday: 24 hours
- Sunday: 24 hours
- Holidays: 24 hours

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

Although noise produced by the proposed action will not exceed ambient levels as defined by NYSDEC, sound barriers are proposed at strategic locations to further mitigate potential noise impacts on adjacent residential uses.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Full cut-off site lighting will be installed to provide light along driveways, walkways and parking areas to ensure clear and safe circulation, while avoiding adverse impacts on surrounding areas. The lighting plan will include standard pole-mount and wall-mount fixtures.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☑ Yes ☐ No

If Yes:

i. Describe proposed treatment(s):

Potential use of pesticides for landscaping during operation.

ii. Will the proposed action use Integrated Pest Management Practices? ☑ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : 20 tons per month (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: Construction waste will be minimized through efficient materials use and solid waste will be disposed of in appropriate manner.
- Operation: Solid waste and recycling will be collected on site and disposed by private waste management vendor for implementation in conformance with local code.

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: Private waste management vendor.
- Operation: Private waste management vendor for implementation in conformance with local code.

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☑ Industrial ☑ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☑ Forest ☐ Agriculture ☐ Aquatic ☑ Other (specify): Stewart International Airport, Army National Guard Base

ii. If mix of uses, generally describe:

The general mix of uses is characterized by uses associated with a transportation corridor including transportation, industrial and commercial uses, with scattered residential uses in an urban setting.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	±0.22	±7.2	+6.98
• Forested	±6.27	±2.6	-3.67
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	±7.31	±4.0	-3.31
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? ☐Yes ☑No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐Yes ☑No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐Yes ☑No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐Yes ☑No

If Yes:

i. Has the facility been formally closed? ☐Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐Yes ☑No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐Yes ☐No

☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑Yes ☐No

If yes, provide DEC ID number(s): 336088, 336089

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

336088 and 336089 are in reference to Stewart International Airport. A portion of the site was previously used as an Air National Guard Base (ANGB). Aqueous film-forming form (AFFF), in which perfluorooctanesulfonic acid (PFOS) is a key ingredient, has been used over the years at the base to put out fires and in training exercises. PFOS has been detected in soil, groundwater, and surface water samples at the ANGB. Contaminants have migrated off-site and sampling has identified the presence of perfluorooctane sulfonic acid (PFOS) in Lake Washington, the primary source of the City of Newburgh water supply. Actions should be taken to reduce human exposures to PFOS in drinking water supplies. These actions include measures to address the contamination in the water supply (e.g., using alternate sources of water and pursuing treatment of surface water sources) and actions to address sources of drinking water contamination where levels exceed applicable standards, criteria, or guidance. Currently, an alternate source of drinking water is being used to reduce exposure. Additional investigation and sampling is being completed to evaluate where and how people may be exposed to site-related contaminants.

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? >5 feet See section E.2.c. for depth to bedrock per the Soil Survey of Orange County, New York

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

		Depth to Bedrock	Depth to Water
Ab Alden silt loam	21.5 %	>5 ft	0 to 0.5 ft
BnB Bath-Nassau channery silt loam	31.9 %	4-5 ft	2 to 4 ft
MdB Mardin gravelly silt loam	46.6 %	>5 ft	1.5 to 2 ft

d. What is the average depth to the water table on the project site? Average: 2 feet See section E.2.c. for depth to high water table per the Soil Survey of Orange County, New York

e. Drainage status of project site soils:
☑ Well Drained: 31.9 % of site
☑ Moderately Well Drained: 46.6 % of site
☑ Poorly Drained 21.5 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 97.1 % of site
☑ 10-15%: 1.4 % of site
☑ 15% or greater: 1.5 % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features. * See note at bottom of page

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

* Section H is automatically filled out through the NYSDEC EAF Mapper Generator and does not necessarily mean there are wetlands on-site. A wetlands delineation has been performed and no wetlands are present.

m. Identify the predominant wildlife species that occupy or use the project site:
white-tailed deer, grey squirrel, groundhog, eastern cottontail, chipmunk, wild turkey, various songbirds

n. Does the project site contain a designated significant natural community? ☐Yes ☑No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑Yes ☐No
If Yes:
i. Species and listing (endangered or threatened): ___Based on the NYSDEC mapper, the Long-eared Bat, Indiana Bat, Upland Sandpiper maybe present. Note, there is no habitat on this site for the upland sandpiper

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐Yes ☑No
If Yes:
i. Species and listing: small whorled-pognia, but they is not habitat onsite.

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐Yes ☑No
If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐Yes ☑No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐Yes ☑No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐Yes ☑No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐Yes ☑No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☑ Yes ☐ No

If Yes:

i. Identify resource: Stewart State Forest; Newburgh-Beacon Bridge/Hudson River

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): State forest land; State Scenic Road

iii. Distance between project and resource: 3-5 miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

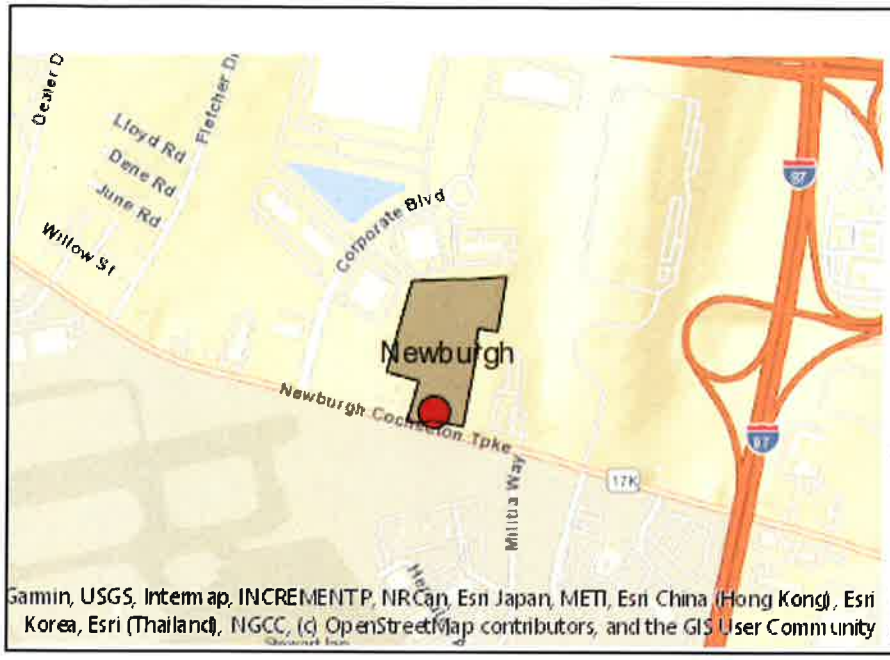
Applicant/Sponsor Name Charles Utschig - Engineer Date September 20, 2021

Signature _____ Title Project Engineer, Lagnan

PRINT FORM

EAF Mapper Summary Report

Monday, August 16, 2021 12:05 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	336088, 336089
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No

E.2.h. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Indiana Bat, Upland Sandpiper
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

APPENDIX 7

Geotechnical Engineering Report

Commerce Center
Newburgh, New York
November 11, 2021
Terracon Project No. JB215164

Prepared for:
Scannell Properties LLC
Indianapolis, IN

Prepared by:
Terracon Consultants-NY, Inc.
Albany, New York

November 11, 2021

Scannell Properties LLC
8801 River Crossing Boulevard, Suite 300
Indianapolis, IN 46240

Attn: Mr. Marc Pfleging
P: (317) 201-0352
E: markp@scannellproperties.com

Re: Geotechnical Engineering Report
Commerce Center
124 Route 17K
Newburgh, New York
Terracon Project No. JB215164

Dear Mr. Pfleging:

We have completed the Geotechnical Engineering services for the above-referenced project. This study was performed in general accordance with Terracon Proposal No. PJB215164 Rev-1, last revised on September 14, 2021. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork and the design and construction of foundations, floor slabs, retaining walls, stormwater facilities and pavements for the proposed project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,
Terracon Consultants-NY, Inc.

John T. Odorisio, P.E.
Sr. Geotechnical Engineer

Joseph Robichaud, Jr., P.E.
Sr. Associate / Office Manager

REPORT TOPICS

Note: This report was originally delivered in a web-based format. **Orange Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the ***GeoReport*** logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

ATTACHMENTS

Note: Refer to each individual Attachment for a listing of contents.

Geotechnical Engineering Report

Commerce Center
124 Route 17K
Newburgh, New York

Terracon Project No. JB215164
November 11, 2021

INTRODUCTION

This report presents the results of our subsurface exploration and geotechnical engineering services performed for the proposed industrial commerce center building to be located at 124 Route 17K in Newburgh, New York. The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil and rock conditions
- Groundwater conditions
- Site preparation and earthwork
- Excavation considerations
- Infiltration considerations
- Foundation design and construction
- Lateral earth pressures
- Floor slab design and construction
- Seismic site classification per NYSBC
- Pavement design and construction
- Frost considerations

The geotechnical engineering Scope of Services for this project included the advancement of 29 test borings (B-1 through B-14, B-18 through B-24 , INF-1 through INF-8) to depths ranging from about 5 to 20 feet, field infiltration testing, a limited soil laboratory testing program and the preparation of this report. During ongoing project collaboration and the need to re-allocate borings for infiltration testing, borings B-15, B-16, and B-17 became infiltration borings INF-1, INF-3 and INF-2 respectively. The remaining boring numbers remained unchanged for the sake of continuity throughout the project.

Maps showing the site and boring locations are presented in the **Site Location** and **Exploration Plan** sections, respectively. The results of the laboratory testing performed on soil samples obtained from the site during the field exploration are included on the boring logs and as separate graphs in the **Exploration Results** section.

SITE CONDITIONS

Item	Description
Parcel Information	The project is located at 124 Route 17K in Newburgh, New York about one half mile west of its intersection with the New York State Thruway. The site is about 13 acres in size. The approximate center of the parcel is located at: o Latitude: 41.5093° N o Longitude: 74.0535° W (See **Site Location** map)
Existing Improvements	The site is undeveloped with the exception of an existing residential structure that is present about the southern portion of the site. The immediate project vicinity is developed with warehouse/distribution facilities of various sizes.
Current Ground Cover	Grass and lightly wooded.
Existing Topography (From "Map of Boundary and Topographic Survey")	Site grades generally slope down from north to south from about elevation 452 feet to about elevation 436 adjacent to NYS Route 17K.

Based upon review of available historical aerial photography as far back as 1975, the overall project site was moderately wooded until evidence of tree clearing is indicated between 2007 and 2009. In 2010, minimal grading about the north easternmost corner of the site was noted, the general location of which is shown on the **Exploration Plan**. This area appears to have had minimal grading and generally falls outside of the limits of the proposed construction. Available historic topographic information does not indicate grade changes and fill was not noted in the soil borings performed in this area. The remainder of the site does not historically indicate evidence of grading with the exception of that associated with the clearing of trees.

PROJECT DESCRIPTION

Our understanding of the project is tabulated below. Items which are highlighted have been assumed by us and should be confirmed by the Project Team.

Item	Description
Information Provided	■ ““Proposed Site Plan” dated 8/12/2021 ■ A Google Earth .KML file providing the proposed site location ■ “Concept Grading Plan” dated 8/26/2021 ■ “Map of Boundary and Topographic Survey” dated 10/07/2005 ■ PDF Document “124 Route 17K Building Specs 9.10.2021” ■ “Grading and Drainage Plan” dated September 2021 prepared by Langan Engineering ■ Multiple project phone calls and e-mail correspondences
Project Description	Development planned includes construction of a new industrial commerce center with associated parking lots, loading docks and storm water management facilities.
Proposed Structure	The project includes a single-story building with a footprint of about 132,000 square feet. The building will be a high bay structure with its floor slab-on-grade, i.e. non-basement.
Building Construction	We understand that the building will be constructed out of precast/tilt-up panels, with a structural steel roof.
Finished Floor Elevation (From “Concept Grading Plan”)	Currently planned at elevation 452 feet
Maximum Loads (assumed where highlighted, otherwise provided by Scannell)	■ Columns: 200 kips ■ Walls: 6 kips per linear foot (klf) ■ Slabs: 300 pounds per square foot (psf)
Grading/Slopes	Through review of the referenced grading plan, the building area will require fills ranging between about 1 and 8 feet above existing grades to establish finished floor elevation, with the deepest fills about the south east corner of the building. Two bioretention basins are planned for the southern extents of the site on the east and west side of the proposed entrance road. Cuts ranging between about 2 feet and 12 feet will be required to achieve the planned basin bottoms. For the remainder of the site where pavement and driveways are planned, fills up to about 8 feet are planned. Cuts, where required, generally range from about 2 to 5 feet, however cuts on the order of about 10 feet or so will be necessary about the southern edge of the property to create the entrance roadway from Route 17K.
Below-Grade Structures	None anticipated.
Free-Standing Retaining Walls	The proposed loading docks may act as retaining walls.
Pavements	Paved driveway, parking and loading dock aprons are planned as part of the proposed development. We assumed both rigid (concrete) and flexible (asphalt) pavement sections should be considered. We anticipate that traffic loading will consist of both autos/light tricks and tractor trailer trucks.
Estimated Start of Construction	Not provided

GEOTECHNICAL CHARACTERIZATION

We have developed a general characterization of the subsurface conditions based upon our review of the subsurface exploration, laboratory data, geologic setting, and our understanding of the project. This characterization, termed GeoModel, forms the basis of our geotechnical calculations and evaluation of site preparation and foundation options. Conditions encountered at each exploration point are indicated on the individual logs. The individual logs can be found in the **Exploration Results** section and the GeoModel can be found in the **Figures** section of this report.

Subsurface Conditions

As part of our analyses, we identified the following model layers within the subsurface profile. For a more detailed view of the model layer depths at each boring location, refer to the GeoModel.

Model Layer	Layer Name	General Description
1	**Frost Impacted Native Soils**	Silty Sand with gravel and Silty Gravel with sand
2	**Glacial Till**	Silty Sand and Sandy Silt with gravel, occasional cobbles and boulders
3	**Weathered Rock**	Weathered Shale

The site was mantled by topsoil ranging in thickness between about 1 inch and up to 2 feet. We note the indicated topsoil thicknesses should be regarded as a rough approximation only and should not be relied upon for construction quantity estimates; contractors are advised to make their own estimates or determination of topsoil thickness and quality for bidding purposes.

Beneath the topsoil, native frost impacted soils consisting of sand and gravel containing varying amounts of silt were encountered. These are native soils, derived from the underlying glacial till soils which have been weathered due to seasonal freeze thaw cycles. These soils varied in thickness from about 2 feet to 4 feet and were noted to be of a very loose to very dense relative density based on SPT “N” values.

Beneath the frost impacted soils, native glacial till soils consisting of silty sand and sandy silt with gravel along with occasional cobbles and boulders were encountered, transitioning to weathered rock and eventually bedrock with depth. The glacial till soils were noted to be medium dense to very dense in relative density based on SPT “N” values.

Borings B-1, B-13, B-19, B-20, B-21, B-22, and INF-5 through INF-8 terminated without spoon or auger refusal at depths between 8 and 20 feet below the existing ground surface in either native glacial till soils or weathered rock. At all remaining borings, auger and or spoon refusal was encountered at depths ranging between 4.8 and 16.3 feet below the existing ground surface. Weathered shale was encountered at most of these locations beneath the glacial till soils

indicating the refusals likely resulted from encountering sound bedrock. As no rock fragments were recovered at boreholes B-12 and B-14, these refusals may have resulted from cobbles/boulders in the glacial till.

Groundwater Conditions

Groundwater observations and measurements were made as the boreholes were completed or after being left to stabilize overnight as noted on the individual boring logs. It should be understood that, in some instances, these measurements may not reflect actual groundwater levels in the event adequate time did not pass upon completion of the drilling for groundwater to achieve a static level in the augers.

Measurable groundwater was recorded in nine of the test borings. The measured groundwater levels ranged from 3.9 to 19.0 feet below the existing ground surface and are tabulated below.

Boring No.	Depth of Groundwater During Drilling (feet) [1]	Depth of Groundwater Upon Completion of Drilling (feet) [1]
B-1	N/A	19.0
B-2	N/A	8.3[2]
B-4	N/A	12.5[3]
B-7	N/A	8.7
B-11	N/A	3.9[2]
INF-1	8.0	5.5[4]
INF-2	N/A	5.5[2]
INF-5	N/A	8.3[3]
INF-8	N/A	6.4

1. Below existing ground surface.
2. After sitting overnight.
3. 30 minutes after completion.
4. 15 minutes after completion.

No measurable groundwater was encountered at the time of investigation within the remaining 20 boreholes not listed in the table above.

The results of this investigation indicate that groundwater is present in portions of site and appears to generally follow the glacial till/weathered bedrock interface. As evidenced by boreholes B-11, INF-1 and INF-2, localized areas of perched/trapped groundwater may also be present at times in the upper soils nearer the ground surface in places. Perched water levels develop when surface

water (i.e., precipitation or runoff) enters the subsurface through loose surficial soils and becomes trapped, or perched, on top of less permeable soils such as glacial till.

Fluctuations in groundwater level and the extent of any perched water should be expected due to seasonal variations in the amount of rainfall, runoff, and other factors that may differ from those present at the time the explorations were performed. Additionally, grade adjustments on and around the site, as well as surrounding drainage improvements, may affect the water table. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

Infiltration Testing

Eight boreholes (INF-1 through INF-5, INF-8, B-19 and B-24) were advanced to depths of between about 6 and 16 feet below the existing ground surface to assist in stormwater management design. Offset borings were made to depths between about 2.5 and 10 feet for insertion of a PVC pipe for infiltration testing. The tests were performed in general accordance with the procedures outlined in the NYSDEC Stormwater Management Design Manual – Appendix D. A summary of the infiltration rates is provided in the table below. Our complete infiltration testing results can be found in the **Exploration Results** section.

Infiltration No.	Soil Classification	Approximate Depth to Bottom Test (ft)[1]	Infiltration Rate (in/hr)[2]
INF-1	Silty Sand (SM)	2.5	0
INF-2	Silty Sand with Gravel (SM)	2.5	3
INF-3	Silty Sand with Gravel (SM)	10	0
INF-4	Silty Sand with Gravel (SM)	6.0	1
INF-5	Sandy Silt (ML)	5.0	0
INF-6	Silty Sand (SM)[3]	3.0	0
INF-7	Silty Sand with Gravel (SM)[4]	4.5	2
INF-8	Silty Sand with Gravel (SM)	2.5	1

1. Below existing grade.
2. Infiltration rate based on final hour of testing.
3. Boring B-24 is the lead boring for this test.
4. Boring B-19 is the lead boring for this test.

Where no infiltration rate is indicated above, between about 13 and 16 inches of pre-soak water remained in the test pipes overnight. The pipes were filled back up to 24 inches and no drop in water level was observed over two hours and the tests were abandoned. Please refer to the individual tests in the **Exploration Results** section for more information.

GEOTECHNICAL OVERVIEW

The subsurface conditions at the project site are similar to those generally found in the project area. Based upon the conditions disclosed by our investigation, we offer the following general conclusions.

- New foundations and floor slabs may be supported upon undisturbed native soils, weathered rock, or on Structural Fill which is placed over the native soils as part of the site grading.

- Based on the proposed site grading, it appears that at least some rock excavation will be required to establish the plan subgrades for the proposed driveway into the site from Route 17K, the proposed bioretention basin planned for the west side of the road as well as any deep utilities that may be planned along Route 17K. Additionally, foundation excavations located in the north west corner of the building, in the proximity of boring B-10, may encounter weathered rock during foundation construction. In general, the bedrock was weathered at its surface and it should be possible to excavate a few feet into the rock using a large track mounted excavator equipped with ripper teeth. Note that pinnacles of harder rock may be encountered, and the rock will become more excavation resistant with depth. Depending on the depth and extent of the harder rock strata, the use of a hoe ram or blasting may be required for its economical removal.

- As a considerable amount of cut and fill will be required to establish proposed grades, economic site development will likely be dependent on the reuse of cut overburden soils as new subgrade fill to raise site grades as necessary. The onsite soils, in some cases, contain appreciable quantities of fine-grained silt and will therefore require control of their as-compacted moisture content within narrow limits to achieve requisite in-place density. Soils with greater silt content are less than ideal for reuse as subgrade/structural fill and the challenges and limitations associated with their use should be understood. See the **Earthwork** section for bulk cut/fill recommendations.

- In general, any permanent cuts or embankment fills should be sloped no steeper than one vertical on three horizontal (1V:3H). Steeper slopes may be considered subject to review on a case-by-case basis. The allowable configuration of steeper slopes will be dependent on location specific conditions, overall slope height and other factors. All slopes should be vegetated and protected against erosion. Cut slopes may require stone slope protection in places if chronic seepage is encountered.

- Based on the groundwater conditions encountered in our borings, groundwater is expected to be below the planned foundation excavation depths. If perched water is encountered during construction, it is expected to be limited in volume and standard sump

and pump methods should be sufficient for its removal. Dewatering is a means and methods consideration for the contractor.

The following sections of this report provide more detailed recommendations to assist in planning for the geotechnical aspects of the project. We should be provided with the opportunity to review plans and specifications prior to their release for bidding to confirm that our recommendations were properly understood and implemented, and to allow us to refine our recommendations, if warranted, based upon the final design. The **General Comments** section provides an understanding of the report limitations.

SEISMIC CONSIDERATIONS

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC).

Seismic Site Classification

Based on the soil properties encountered at the site and as described on the exploration logs it is our professional opinion that the **Seismic Site Classification is C**. Subsurface explorations at this site were extended to a maximum depth of about 20 feet. One boring to a depth of 50 feet was planned for the site to confirm the deeper soil conditions, however, auger and/or spoon refusal was encountered in the building borings performed and advancement to 50 feet was therefore not completed. The site properties below the boring depths to 100 feet were estimated based on our experience and knowledge of geologic conditions of the general area.

LIQUEFACTION

Based upon the composition, relative density and groundwater conditions encountered in the borings, it is our professional opinion that the site is not susceptible to liquefaction in response to published design earthquake motions for this region.

EARTHWORK

Earthwork is anticipated to include clearing, bulk cuts and fills, foundation excavation and associated backfill. The following sections provide recommendations for use in the preparation of specifications for the work. Recommendations include critical quality criteria, as necessary, to

render the site in the state considered in our geotechnical engineering evaluation for foundations, floor slabs and pavements.

Site Preparation

Site preparation should begin with stripping of topsoil, vegetation and other surficial materials as applicable from the new building and pavement areas.

Prior to placing fills to raise site grades and/or after cuts are made to the plan subgrade elevations, the native frost affected soil subgrades should be proof-compacted using a steel drum roller with a static weight of at least ten tons. The roller should operate in its vibratory mode, unless requested otherwise by the Geotechnical Engineer observing the work, and travel at a speed not exceeding three feet per second (two miles per hour). The roller should complete at least five passes over all subgrade surfaces in opposing directions. The method of proof-rolling may be modified by the Geotechnical Engineer based upon the conditions revealed at the time of construction.

Soft areas identified by the proof compacting should be investigated to determine the cause and stabilized accordingly. These investigations may include the excavation of test pits. Where materials are found to be unsuitable by the Geotechnical Engineer, they should be removed and replaced as deemed necessary.

Bulk Cut and Fill Considerations

Should plans call for reuse of excavated onsite soils as new subgrade and structural fills across the site, the challenges and limitations associated with their reuse should be understood. The onsite soils, in some cases, contain appreciable quantities of silt and will therefore require careful control of moisture content within narrow limits to achieve requisite in-place density as the material is placed. It may be necessary to either dry the soil in windrows or add water prior to placement and compaction depending on the prevailing weather conditions at the time of construction or the natural moisture content of the soils as they are excavated. Should site development proceed during seasonally wet or cold periods, it will likely be difficult to adequately dry the siltier cut soils and it may be necessary to stabilize these soils with lime or kiln dust, or to use an imported granular fill.

Excavated bedrock may be reused in landscape areas, or as fill in pavement areas provided it extends to a level no closer than 2 feet from the pavement surface. Any excavated rock reused in pavement areas should be placed in layers no thicker than 1.5 feet, with each lift compacted/crushed with a large vibratory sheepsfoot roller to break down the material, followed by a large vibratory drum compactor to form a relatively firm and unyielding surface. We recommend against reuse of excavated rock in the building pad.

Topsoil, vegetation and other surface materials should be stripped from all cut/fill areas prior to earth moving operations. The subgrade fill should be firm and stable after it is placed and compacted, and should not “pump”, “weave” or otherwise exhibit instability during construction. Soils should be undercut and replaced where unsatisfactory. The fill subgrades should also be properly graded, drained, sealed and/or protected from moisture and frost as necessary. Placement of fill over wet, soft, snow covered, or frozen subgrades should not be permitted. All bulk fill placement and compaction should be monitored and tested by a representative of the Geotechnical Engineer on a full-time basis.

Based on the findings of the subsurface investigation, bulk cuts across the site are not expected to encounter a generalized groundwater condition. However, perched groundwater may be intercepted in places, and any resulting seepage may necessitate stone slope protection or the construction of fabric lined and stone filled drainage trenches upon the overburden slopes. Swales should be provided along the toe of all excavated slopes (in non-stormwater basin areas) to collect and dispose of such waters. All slopes should be vegetated or otherwise protected from erosion, with runoff diverted away from their faces.

Rock Excavation

Based on the proposed grading, it is possible that bedrock could be encountered in the deeper cuts on the southern edge of the project site which are required to create the proposed driveway into the site, excavations for the proposed bioretention pond planned west of the driveway as well as any deep utilities to be located along Route 17K. Additionally, foundation excavations located in the north west corner of the building in the proximity of boring B-10 may encounter weathered rock during foundation construction. In general, the bedrock was weathered at its surface and it should be possible to excavate a few feet into the rock using a large track mounted excavator equipped with ripper teeth. However, pinnacles of harder rock may be encountered, and the rock will become more excavation resistant with depth. Depending on the depth and extent of the harder rock strata, the use of a hoe ram or blasting may be required for its economical removal.

If blasting is required for the rock excavations, it should be conducted in a controlled manner by experienced personnel to limit over-blast and vibrations transmitted to adjoining areas. The vibrations induced by the blasting should be monitored and limited to less than 2 inches per second (ips) at the site property lines and 1.5 ips at the nearest existing structures that may be affected by the work.

It should be noted that these are general guidelines to prevent damage to structures and greatly exceeds the limits at which humans will notice vibration (0.02 ips). As such, should blasting be required at this site, we recommend that blast vibrations be monitored at the property limits and pre-condition surveys be performed on adjacent structures that may be affected by the work. If blasting will be required adjacent to recently placed concrete on site, we can provide specific

limitations on allowable vibrations for these situations. The vibration limitations associated with blasting should be provided in the project specifications.

Fill Material Types

Imported Structural Fill or Suitable On-Site Soil should be used as fill/backfill within the proposed building pad and pavement areas. The imported fill should consist of sand and gravel which meets the limits of gradation given below. Any imported materials should be free of recycled concrete, asphalt, bricks, glass, and pyritic shale rock.

IMPORTED STRUCTURAL FILL

Sieve Size	Percent Finer
3”	100
¼”	30 to 75
No. 40	5 to 40
No. 200	0 to 10

As previously noted, the reuse of excavated onsite soils may be considered in most instances if approved by the Geotechnical Engineer and pending the conditions encountered at the time of construction. Reuse of the excavated on-site soils would require that all organics be separated and wasted off-site, along with any oversize particles (> 6") or otherwise unsuitable material that may be found therein.

Fill Compaction Requirements

The Structural Fill should be placed in uniform loose layers no more than about one-foot thick where heavy vibratory compaction equipment is used. Smaller lifts should be used where hand operated equipment is required for compaction. Each lift should be compacted to no less than 95 percent of its maximum dry density as determined by the Modified Proctor Compaction Test, ASTM D1557. In landscape areas, the compaction may be relaxed to 90 percent of maximum dry density.

On-site soil used for subgrade fill should have a moisture content within ±3 percent of its optimum moisture content when it is placed and compacted.

Along fill slopes, the subgrade fill should be placed and compacted horizontally about 2 to 3 feet beyond the final slope surface, and then trimmed back to establish the final slope surface to ensure that adequate compaction is achieved there.

Any excavated rock reused in pavement areas should be placed in layers no thicker than 1.5 feet, with each lift compacted/crushed with a large vibratory sheepsfoot roller to break down the

material, followed by a large vibratory drum compactor to form a relatively firm and unyielding surface. We recommend against reuse of excavated rock in the building pad.

Grading and Drainage

All grades must provide effective drainage away from the building during and after construction and should be maintained throughout the life of the structure. Water retained next to the building can result in soil movements greater than those discussed in this report. Greater movements can result in unacceptable differential floor slab and/or foundation movements, cracked slabs and walls, and roof leaks.

Earthwork Construction Considerations

Shallow excavations for the construction of the proposed building are anticipated to be accomplished with conventional construction equipment. Upon completion of filling and grading, care should be taken to maintain the subgrade water content prior to construction of floor slabs. Construction traffic over the completed subgrades should be avoided. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. Water collecting over or adjacent to construction areas should be removed. If the subgrade freezes, desiccates, saturates, or is disturbed, the affected material should be removed, or the materials should be scarified, moisture conditioned, and recompacted prior to floor slab construction.

As a minimum, excavations should be performed in accordance with OSHA 29 CFR, Part 1926, Subpart P, “Excavations” and its appendices, and in accordance with any applicable local and/or state regulations.

Construction site safety is the sole responsibility of the contractor, who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety, or the contractor's activities; such responsibility shall neither be implied nor inferred.

Construction Observation and Testing

The earthwork efforts should be monitored under the direction of the Geotechnical Engineer. Monitoring should include documentation of adequate removal of surficial materials beneath foundations, proofrolling, and mitigation of areas delineated by the proofroll to require mitigation. Each lift of new compacted fill should be tested, evaluated, and reworked, as necessary, until approved by the Geotechnical Engineer prior to placement of additional lifts.

In areas of foundation excavations, the bearing subgrade should be evaluated under the direction of the Geotechnical Engineer. If unanticipated conditions are encountered, the Geotechnical Engineer should prescribe mitigation options.

It should be understood that the actual subsurface conditions that exist will only be known when the site is excavated. The continuation of the Geotechnical Engineer into the construction phase of the project will allow for validation of the subsurface conditions assumed to exist for this study and the design recommended in this report, including assessing variations, providing recommendations and reviewing associated design changes.

SHALLOW FOUNDATIONS

If the site has been prepared in accordance with the requirements noted in the **Earthwork** and **Foundation Construction Considerations** sections of this report, the following design parameters and construction procedures are applicable for shallow foundations.

Design Parameters – Compressive Loads

Item	Description
Maximum Net Allowable Bearing Pressure [1, 2]	4,000 pounds per square foot (psf)
Required Bearing Stratum [3]	Native soils, weathered rock or Structural Fill placed over the native soils
Minimum Foundation Dimensions	Columns: 36 inches Continuous: 24 inches
Ultimate Coefficient of Sliding Friction [4]	0.35 (concrete on native soils) 0.45 (concrete on imported Structural Fill)
Minimum Embedment below Finished Grade [5]	Exterior footings: 48 inches Interior footings in unheated areas: 48 inches Interior footings in heated areas: 24 inches
Estimated Total Settlement from Structural Loads [2]	Less than about 1 inch
Estimated Differential Settlement [2, 6]	About ¾ of total settlement

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied. Values assume that exterior grades are no steeper than 20% within 10 feet of structure.
2. Values provided are for maximum loads noted in **Project Description**.
3. The bearing grades should be prepared per the recommendations presented below in the **Foundation Construction Considerations**.
4. Can be used to compute sliding resistance where foundations are placed on suitable soil/materials. Should be neglected for foundations subject to net uplift conditions.
5. Embedment necessary to minimize the effects of frost and/or seasonal water content variations. For sloping ground, maintain depth below the lowest adjacent exterior grade within 5 horizontal feet of the structure. Interior footings in heated area may be seated at the 24-inch depth if allowed by local building codes.
6. Differential settlements are as measured over a span of 50 feet.

A perimeter foundation drain should be provided to collect and relieve water which enters the backfill soils after construction is complete. The drains should consist of nominal four-inch diameter perforated PVC or corrugated HDPE pipe set within ± 12 inches of clean crushed stone composed of ASTM C33 Blend 57 material. The stone should be enveloped with a non-woven drainage geotextile meeting the requirements of NYSDOT Table 737-01C or approved equivalent. The drain should be connected to a storm water structure or outlet to daylight. All drains should be provided with clean outs for their maintenance.

Foundation Construction Considerations

The foundations may be seated directly upon undisturbed native soils, weathered rock or on Structural Fill placed over the native soils as part of the site grading process. The surface of foundation bearing grades should be re-compacted to densify the soils loosened by the excavation process. If groundwater seepage occurs, a minimum six-inch thick base of clean crushed stone placed over a drainage geotextile fabric should be provided to establish a more uniform and stable base for construction and to assist in dewatering. The stone should be an ASTM C33 Blend 57 aggregate and the fabric should meet the requirements of NYSDOT Table 737-01C or equivalent.

All final bearing grades should be relatively firm, stable, and free of loose soil, mud, water and frost. The Geotechnical Engineer should approve the condition of the foundation bearing grades immediately prior to placement of reinforcing steel and concrete.

FLOOR SLABS

Design parameters for floor slabs assume the requirements in the **Earthwork** and **Floor Slab Construction Considerations** sections of this report have been followed. Specific attention should be given to positive drainage away from the structure and positive drainage of the aggregate base beneath the floor slab.

Floor Slab Design Parameters

New floor slabs should be constructed upon a minimum six-inch thick subbase course which conforms to the requirements for NYSDOT Section 733.04, Type 2 Subbase or ASTM C-33 Blend 57 crushed aggregate. Consideration should be given to using a thicker subbase course in areas subject to heavier loads and/or use, or those exposed to freezing temperatures.

The use of a vapor retarder should be considered beneath concrete slabs on grade covered with wood, tile, carpet, or other moisture sensitive or impervious coverings, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding its use and placement.

Floor slab subgrades should be prepared as outlined in the **Earthwork** section herein. Under these conditions, a modulus of subgrade reaction equal to 150 pounds per cubic inch (psi/in) may be assumed at the top of the stone base layer for slab design purposes.

Floor Slab Construction Considerations

Even with the base course recommended above, we caution that the subgrades may not support repeated heavy construction traffic or telehandlers without suffering rutting and weaving that may be especially severe during wet seasons. If the grades are to be repeatedly traversed by these types of equipment, they should be reinforced as necessary to support them. Areas which become disturbed should be excavated and stabilized accordingly.

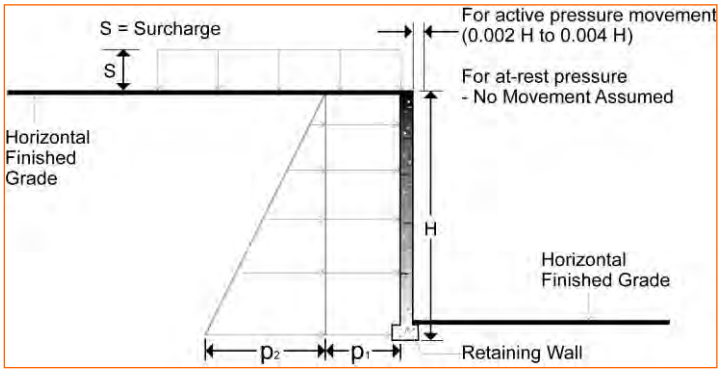
Finished subgrade, within and for at least 10 feet beyond the floor slab, should be protected from traffic, rutting, or other disturbance and maintained in a relatively moist condition until floor slabs are constructed. If the subgrade should become damaged or desiccated prior to construction of floor slabs, the affected material should be removed and Structural Fill should be added to replace the resulting excavation. Final conditioning of the finished subgrade should be performed immediately prior to placement of the floor slab support course.

The Geotechnical Engineer should approve the condition of the floor slab subgrades immediately prior to placement of the floor slab support course, reinforcing steel, and concrete. Attention should be paid to high traffic areas that were rutted and disturbed earlier, and to areas where backfilled trenches are located.

LATERAL EARTH PRESSURES

Design Parameters

Building or site walls that retain earth should be designed to resist lateral pressures, with applicable surcharge loads, assuming the parameters listed below. Active earth pressures may be assumed for walls that are free to deflect as the backfill is placed. At-rest earth pressures should be assumed for all walls that are braced prior to backfilling or applying surcharge loads. The figure below can be referenced to determine the applicability of Active vs. At-Rest earth pressures.



The recommended design parameters, as applicable, are tabulated below;

Design Parameter	Value
Soil Angle of Internal Friction	30 degrees
Coefficient of At-Rest Earth Pressure (Ko)	0.50
Coefficient of Active Earth Pressure (Ka)	0.33
Coefficient of Passive Earth Pressure (Kp)	3.00
Total Unit Weight of Compacted Soil	120 pcf
Coefficient of Sliding Friction	0.35 (concrete on native soils) 0.45 (concrete on Structural Fill)

1. For the tabulated values to be valid, the wall must be backfilled with imported Structural Fill as specified in the **Earthwork** section of this report (onsite soils should not be reused for this purpose). The structural backfill must extend out and up from the base of the wall at an angle of at least 45 degrees from vertical for the active and at-rest cases.
2. The tabulated values do not include a safety factor.

Subsurface Drainage for Retaining Walls

Foundation drains should be installed as required to prevent surface infiltration and groundwater from becoming trapped in the wall backfill soils. The drain may consist of a nominal four (4) inch diameter perforated PVC or slotted HDPE pipe embedded at the base of a minimum twelve (12) inch wide column of clean crushed stone (ASTM C-33 Blend 57 crushed aggregate). The stone should be wrapped in a non-woven drainage geotextile meeting the requirements of NYSDOT Table 737-01C or approved equivalent. The drain should connect to a drainage structure or outlet to daylight.

PAVEMENTS

Flexible Pavement Design

The pavement sections presented below were designed in general accord with AASHTO procedures using a reduced subgrade strength and local experience to account for frost and to keep the anticipated pavement heave and cracking within generally tolerable limits. A subgrade resilient modulus (M_r) equal to 4,000 psi has been assumed for design purposes.

Two pavement sections were developed, a Light Duty section for automobile parking areas and a Heavy Duty section for entrance drives or areas subject to routine truck traffic. For design purposes, it has been assumed that the pavement design life is 20 years, and that daily equivalent single axle loads (ESALs) are equal to 1 for the Light Duty section and 100 for the Heavy Duty section. If the traffic loads vary from these, we should be provided with the opportunity to refine the pavement sections accordingly.

All materials should meet the requirements specified in the latest edition of the New York State Department of Transportation (NYSDOT) Standard Specifications for Construction and Materials.

Asphaltic Concrete Design			
Layer	**2019 NYSDOT Reference**	**Light Duty (inches)**	**Heavy Duty (inches)**
Asphaltic Concrete Top	Item 402.127303	1.5	2.0
Asphaltic Concrete Binder	Item 402.257903	2.0	4.5
Crusher-Run Stone Base	Section 733.04, Type 2	8	16
Stabilization Geotextile	Section 737-01, Table E	Single Ply	Single Ply

Rigid pavements should be provided with a minimum six-inch thick base of crusher-run stone (NYSDOT Section 733.04, Type 2 material) placed over a stabilization geotextile. The pavements may be designed assuming a modulus of subgrade reaction equal to 150 pounds per cubic inch at the top of the base layer.

It should be understood that the recommended pavement sections were not designed to support heavy construction equipment loads which may require an augmented section. The contractor should construct temporary haul and construction roadways and routes about the site as appropriate for the specific weather conditions and construction equipment he intends to employ, and the overburden soil conditions encountered in the specific areas. Construction period traffic should not be routed across the recommended pavement sections unless augmented accordingly.

Pavement Drainage

Accumulation of water on pavement subgrades should be avoided by grading the subgrade to a slope of at least two percent, and/or by providing underdrains. Failure to provide adequate drainage will shorten pavement life.

Pavement Maintenance

All pavements require periodic care, and preventive maintenance should be planned and provided for through an on-going pavement management program. Maintenance activities are intended to slow the rate of pavement deterioration and to preserve the pavement investment. Maintenance consists of both localized maintenance (e.g., crack and joint sealing and patching) and global maintenance (e.g., surface sealing). Settlement of pavements due to consolidation of the existing fills may also occur and require periodic maintenance.

FROST CONSIDERATIONS

It should be understood that sidewalks and pavements constructed upon the site's soils will heave as frost seasonally penetrates the subgrades. The magnitude of the seasonal heave will vary with many factors and result in differential movements. As the frost leaves the ground, the sidewalks and pavements will settle back, but not entirely in all areas, and this may accentuate the differential movements across the pavement areas. Where curbs, walks, and storm drains meet these pavements, these differential heave and settlements may result in undesirable movements and create trip hazards. To limit the magnitude of heave and the creation of these uneven joints to generally tolerable magnitudes for most winters, a 16-inch thick crushed stone base course, composed of ASTM C-33 Blend 57 crushed aggregate, may be placed beneath the sensitive sidewalk, drive, etc. areas. The stone layer should be separated from the surrounding granular soils with a non-woven drainage geotextile (meeting the requirements of NYSDOT Table 737-01C or approved equivalent) and have an underdrain placed within it. The underdrain should be connected to a drainage structure or outlet to daylight.

GENERAL COMMENTS

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Natural variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the

absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

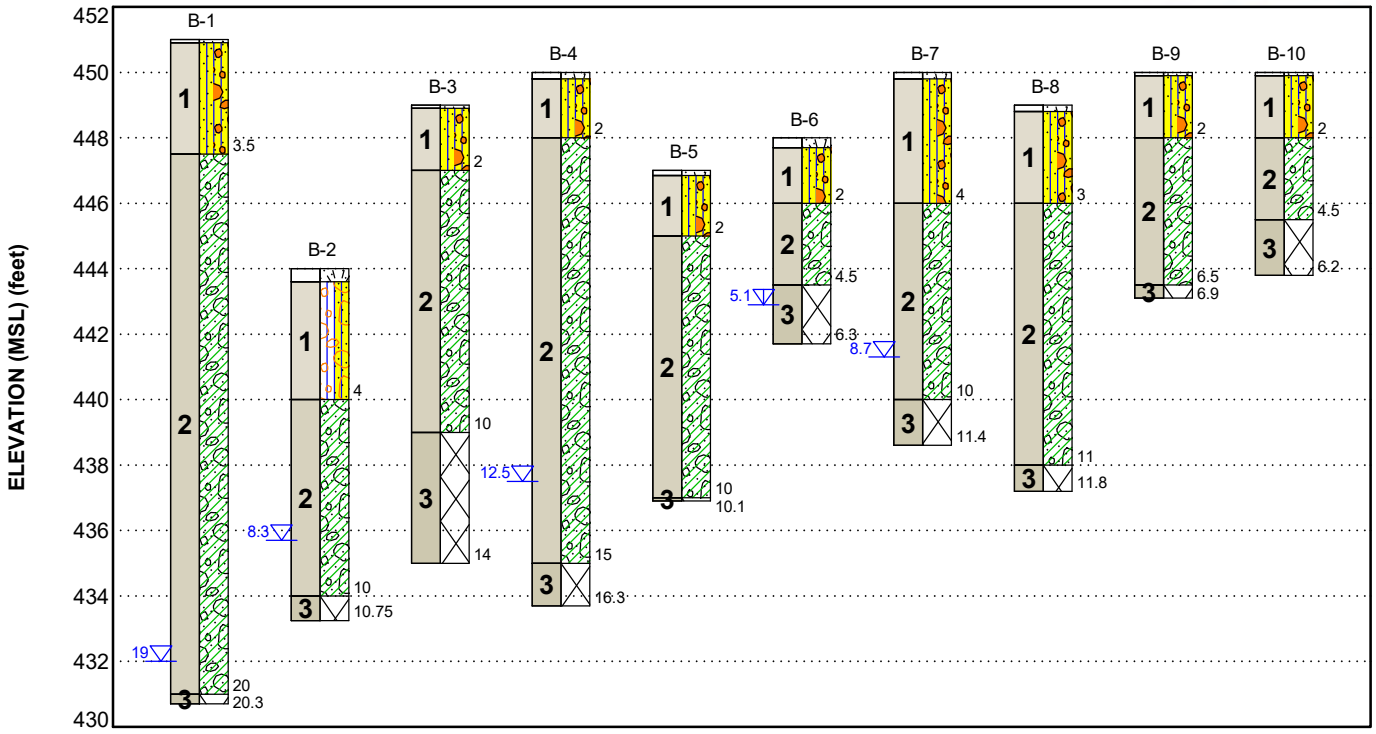
Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

FIGURES

Contents:

GEOMODEL

Newburgh Commerce Center ■ Newburgh, NY
Terracon Project No. JB215164



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	Frost Impacted Native Soils	Silty Sand with gravel and Silty Gravel with sand
2	Glacial Till	Silty Sand and Sandy Silt with gravel, occasional cobbles and boulders
3	Weathered Rock	Weathered Shale

LEGEND

- Topsoil
- Silty Sand with Gravel
- Glacial Till
- Weathered Rock
- Silty Gravel with Sand

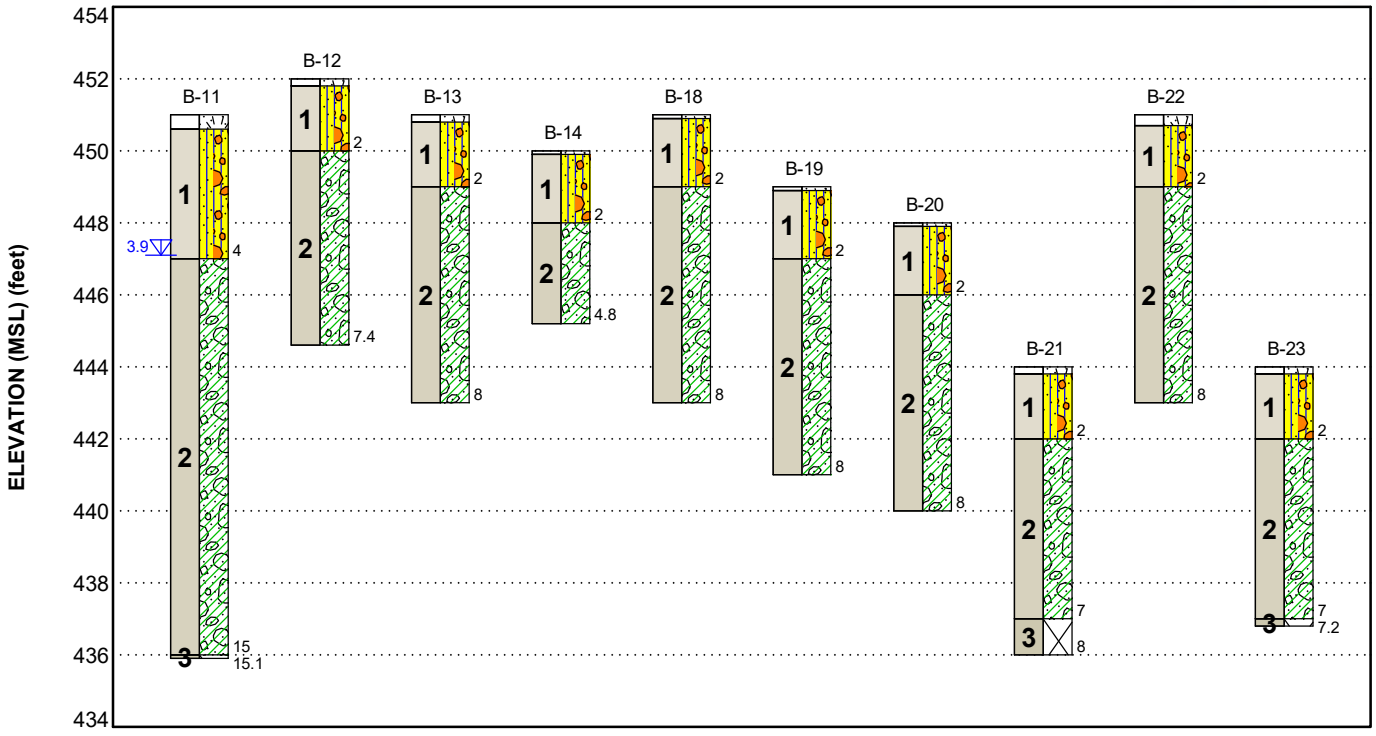
- First Water Observation
- Second Water Observation

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time. Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

GEOMODEL

Newburgh Commerce Center ■ Newburgh, NY
Terracon Project No. JB215164



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	Frost Impacted Native Soils	Silty Sand with gravel and Silty Gravel with sand
2	Glacial Till	Silty Sand and Sandy Silt with gravel, occasional cobbles and boulders
3	Weathered Rock	Weathered Shale

LEGEND

Topsoil
Weathered Rock
Silty Sand with Gravel
Glacial Till

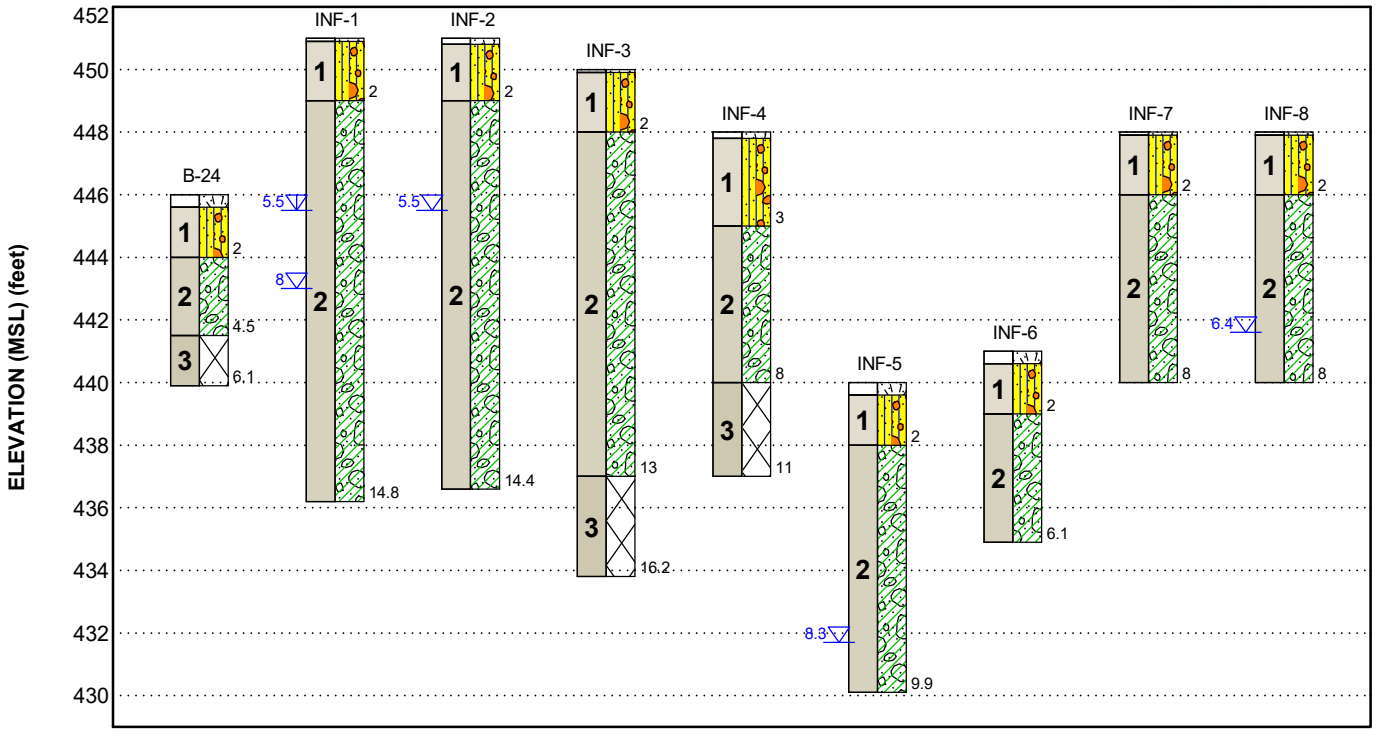
First Water Observation
Second Water Observation

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time. Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

GEOMODEL

Newburgh Commerce Center ■ Newburgh, NY
Terracon Project No. JB215164



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	**Frost Impacted Native Soils**	Silty Sand with gravel and Silty Gravel with sand
2	**Glacial Till**	Silty Sand and Sandy Silt with gravel, occasional cobbles and boulders
3	**Weathered Rock**	Weathered Shale

LEGEND

- Topsoil
- Weathered Rock
- Silty Sand with Gravel
- Glacial Till

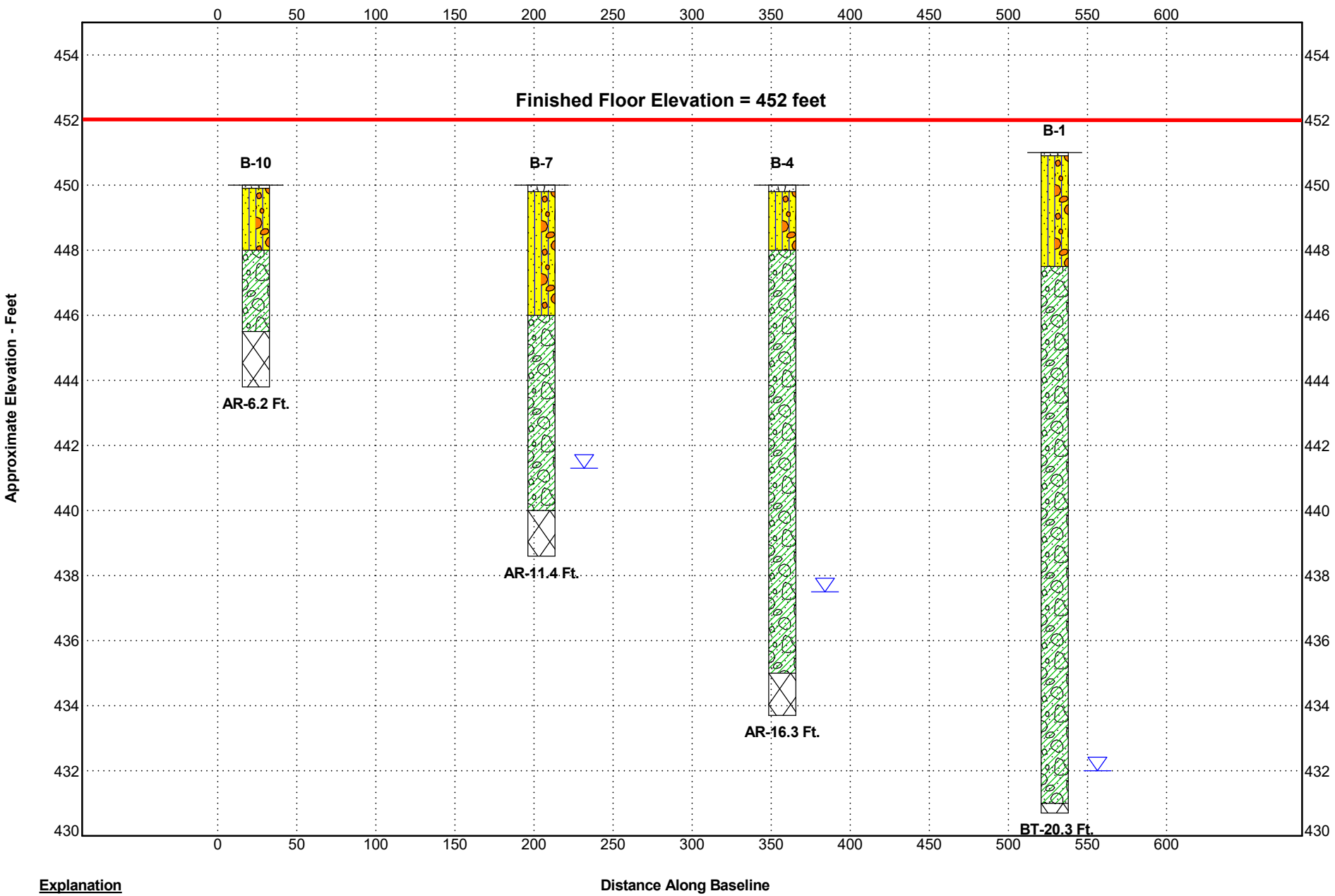
- First Water Observation
- Second Water Observation

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time. Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

N A

S A'



Explanation

B-1 — Borehole Number

Moisture Content — %w

LL PL — Liquid and Plastic Limits

Sampling — Borehole Lithology

AR / BT — Borehole Termination Type

Water Level Reading at time of drilling.

Water Level Reading after drilling.

See Exploration Plan for orientation of soil profile.
See General Notes in Supporting Information for symbols and soil classifications.
Soils profile provided for illustration purposes only.
Soils between borings may differ
AR - Auger Refusal
BT - Boring Termination

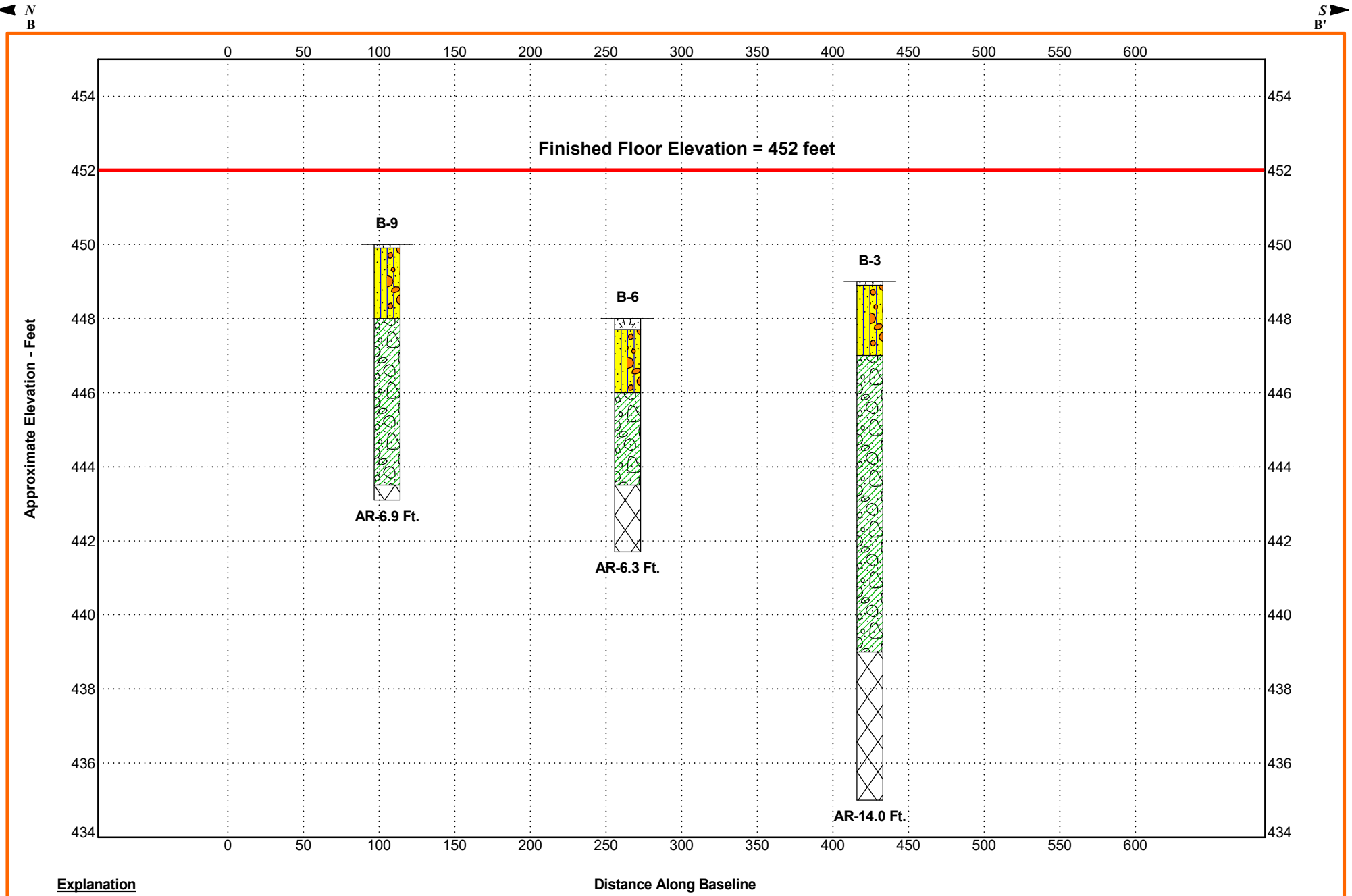
Project Manager:	Project No.: JB215164
Drawn by: JTO	Scale: NTS
Approved by:	File Name: JB215164
Date: 11/5/2021	

Terracon
30 Corporate Cir Ste 201
Albany, NY
PH. 518-266-0310 FAX.

SUBSURFACE PROFILE

West Cross Section
NEWBURGH COMMERCE CENTER
124 ROUTE 17K
NEWBURGH, NY

EXHIBIT



Explanation

B-3 — Borehole Number
Moisture Content — %w
LL PL — Liquid and Plastic Limits
Sampling — Borehole Lithology
AR / BT — Borehole Termination Type
Water Level Reading at time of drilling.
Water Level Reading after drilling.

See Exploration Plan for orientation of soil profile.
See General Notes in Supporting Information for symbols and soil classifications.
Soils profile provided for illustration purposes only.
Soils between borings may differ
AR - Auger Refusal
BT - Boring Termination

Project Manager:	Project No.: JB215164
Drawn by: JTO	Scale: NTS
Approved by:	File Name: JB215164
Date: 11/5/2021	

Terracon
30 Corporate Cir Ste 201
Albany, NY
PH. 518-266-0310 FAX.

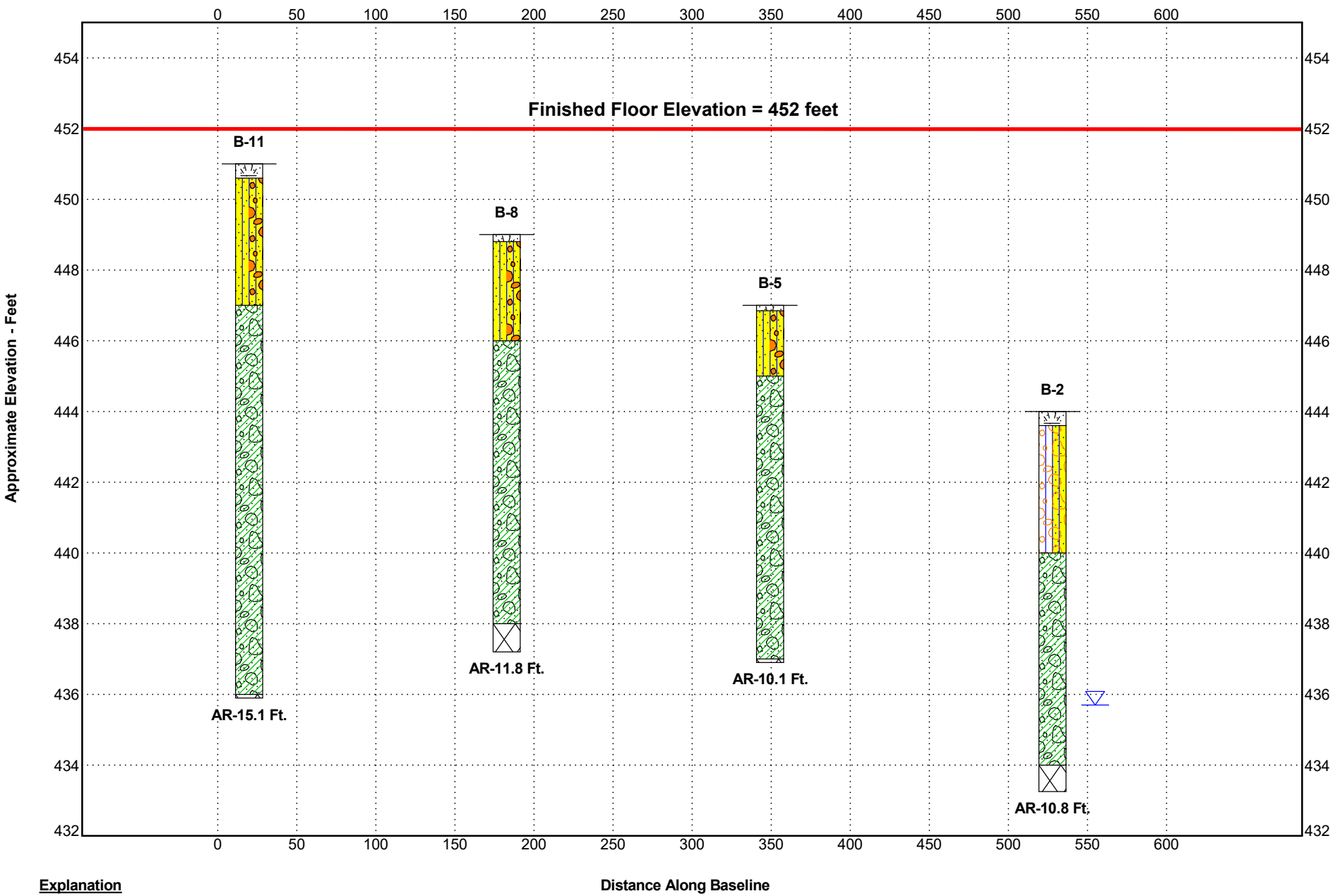
SUBSURFACE PROFILE

Center Cross Section
NEWBURGH COMMERCE CENTER
124 ROUTE 17K
NEWBURGH, NY

EXHIBIT

N C

S C'



Explanation

B-2 — Borehole Number

Moisture Content — %w

LL PL — Liquid and Plastic Limits

Sampling — Borehole Lithology

AR / BT — Borehole Termination Type

Water Level Reading at time of drilling.

Water Level Reading after drilling.

See Exploration Plan for orientation of soil profile.
See General Notes in Supporting Information for symbols and soil classifications.
Soils profile provided for illustration purposes only.
Soils between borings may differ
AR - Auger Refusal
BT - Boring Termination

Project Manager:	Project No.: JB215164
Drawn by: JTO	Scale: NTS
Approved by:	File Name: JB215164
Date: 11/5/2021	

Terracon
30 Corporate Cir Ste 201
Albany, NY
PH. 518-266-0310 FAX.

SUBSURFACE PROFILE

East Cross Section
NEWBURGH COMMERCE CENTER
124 ROUTE 17K
NEWBURGH, NY

EXHIBIT

ATTACHMENTS

EXPLORATION AND TESTING PROCEDURES

Field Exploration

Number of Borings	Boring Depth (feet)	Location
11	6.2 to 20.3	Planned Building Area
12	6.2 to 8	Planned pavement areas
6	8 to 14.4	Planned pavement/infiltration areas

Boring Layout and Elevations: Unless otherwise noted, Terracon personnel provided the boring layout. Coordinates were obtained with a handheld GPS unit (estimated horizontal accuracy of about ±10 feet). Approximate elevations were obtained by interpolation from the PDF Titled "Infiltration and Test Pit Location Plan" dated October 8, 2021 prepared by Langan. If elevations and a more precise boring layout are desired, we recommend borings be surveyed following completion of fieldwork.

Subsurface Exploration Procedures: We advanced the borings with an ATV-mounted rotary drill rig using continuous flight augers. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon was driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the middle 12 inches of a normal 24-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. When an 18-inch sample is taken, the N-value is recorded as the number of blows required to advance the sampling spoon the final 12 inches. The SPT resistance values, also referred to as N-values, are indicated on the boring logs at the test depths. We observed and recorded groundwater levels during drilling and sampling as well as overnight when possible. For safety purposes, all PVC pipes used for infiltration testing were removed and all borings were backfilled with auger cuttings after their completion.

The sampling depths, penetration distances, and other sampling information were recorded on the field boring logs. The samples were placed in appropriate containers and taken to our soil laboratory for testing and classification by a Geotechnical Engineer. Our exploration team prepared field boring logs as part of the drilling operations. These field logs included visual classifications of the materials encountered during drilling and our interpretation of the subsurface conditions between samples. Final boring logs were prepared from the field logs. The final boring logs represent the Geotechnical Engineer's interpretation of the field logs and include modifications based on observations and tests of the samples in our laboratory.

Laboratory Testing

The project engineer reviewed the field data and assigned laboratory tests to understand the engineering properties of the various soil strata, as necessary, for this project. Procedural standards noted below are for reference to methodology in general. In some cases, variations to methods were applied because of local practice or professional judgment. Standards noted below include reference to other, related standards. Such references are not necessarily applicable to describe the specific test performed.

- ASTM D2216 Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
- ASTM D422 Standard Test Method for Particle-Size Analysis of Soils (w/o Hydrometer)

The laboratory testing program often included examination of soil samples by an engineer or geologist. Based on the material's texture and plasticity, we described and classified the soil samples in accordance with the Unified Soil Classification System.

SITE LOCATION AND EXPLORATION PLANS

Contents:

Note: All attachments are one page unless noted above.

SITE LOCATION

Commerce Center ■ Newburgh, New York
November 11, 2021 ■ Terracon Project No. JB215164

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

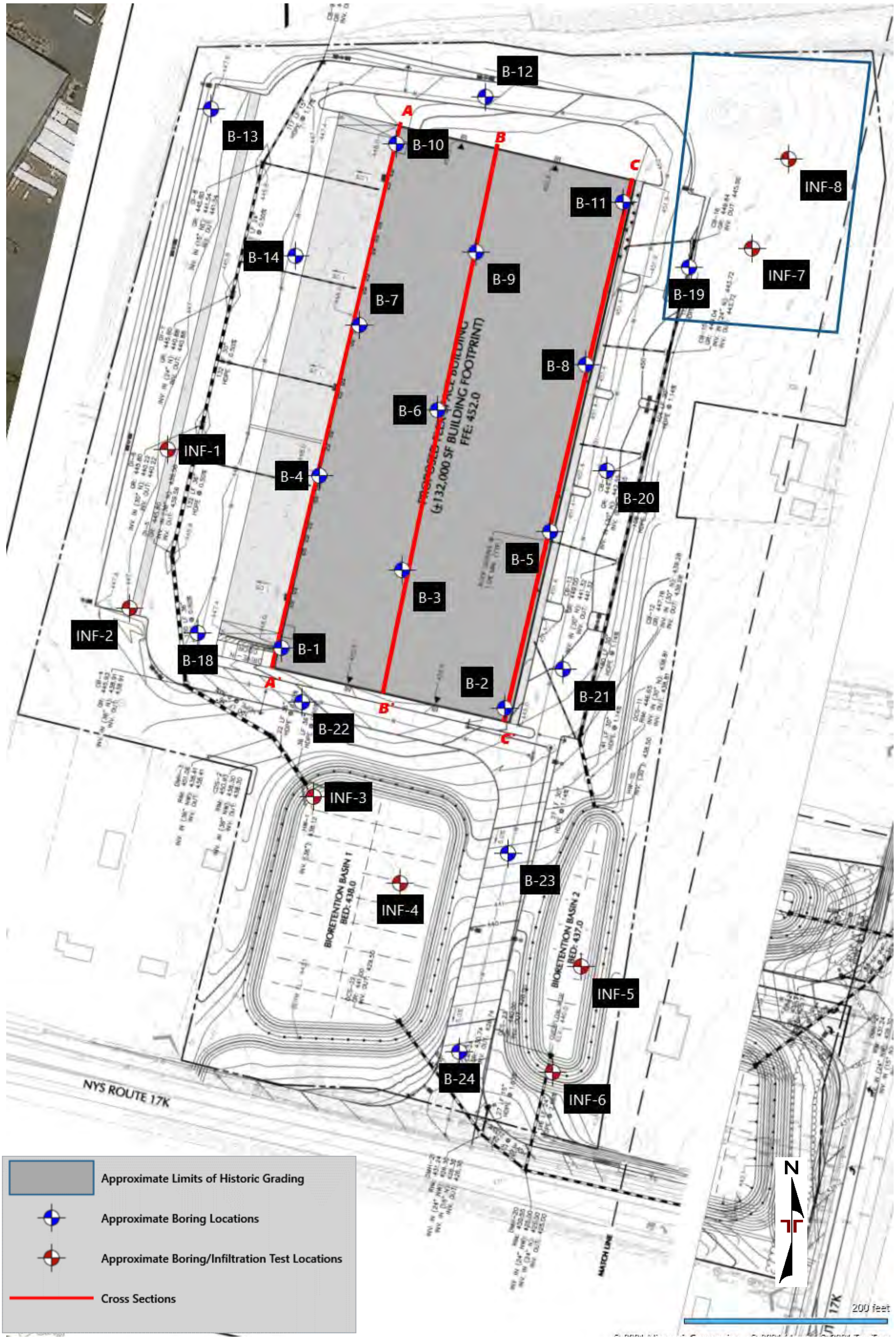


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

EXPLORATION RESULTS

Contents:

Note: All attachments are one page unless noted above.

BORING LOG NO. B-1

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5089° Longitude: -74.0841°
Northing: 974868.95 Easting: 606028.406

Approximate Surface Elev.: 451 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1	0.1	451+/-	**TOPSOIL**						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose to medium dense				18	1-2-3-6 N=5	
	3.5	447.5+/-					20	5-8-9-24 N=17	
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	5			1	8-13-13-13 N=26	
							24	8-7-8-10 N=15	
				10			24	10-21-31-47 N=52	
			Grades gray	15	▽		22	35-31-34-45 N=65	
	20.0	431+/-							
3	20.3	430.5+/-	**PROBABLE WEATHERED SHALE**, gray, very dense	20			4	50/4"	
			Boring Terminated at 20.3 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *At completion of drilling*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-11-2021 | Boring Completed: 10-11-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-2

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5087° Longitude: -74.0833°
Northing: 974810.926 Easting: 606247.844

Approximate Surface Elev.: 444 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
	0.4	443.5+/-	**TOPSOIL**						
1			**SILTY GRAVEL WITH SAND (GM)**, rootlets noted, brown, loose to medium dense				20	2-2-2-5 N=4	11.7
							21	8-8-8-8 N=16	
	4.0	440+/-							
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, dense	5			22	5-6-30-24 N=36	
					▽		24	18-19-17-21 N=36	
	10.0	434+/-							
3	10.8	433.5+/-	**WEATHERED SHALE**, gray, very dense	10			10	27-50/3"	
			Sampler Refusal at 10.8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:
Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *Overnight*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-12-2021 | Boring Completed: 10-13-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-3

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5091° Longitude: -74.0837°
Northing: 974945.63 Easting: 606146.386

Approximate Surface Elev.: 449 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	449+/-						
		TOPSOIL							
		SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, dense					18	2-4-29-50/2" N=33	
		2.0	447+/-						
2		**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense					20	6-9-7-6 N=16	
				5			24	6-8-11-9 N=19	
							24	9-9-9-8 N=18	
		10.0	439+/-	10					
3		**WEATHERED SHALE**, gray, very dense					5	50/4"	
		14.0	435+/-						
		Auger Refusal at 14 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-11-2021 | Boring Completed: 10-11-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-4

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5093° Longitude: -74.0840°
Northing: 975037.571 Easting: 606064.85

Approximate Surface Elev.: 450 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	450+/-						
		TOPSOIL							
		SILTY SAND WITH GRAVEL (SM), rootlets and minor organics noted, brown, loose					20	2-2-3-3 N=5	
		2.0	448+/-						
2		**GLACIAL TILL - SILTY SAND (SM)**, occasional cobbles and boulders, brown, medium dense to very dense					24	5-15-13-15 N=28	12.4
				5			24	5-15-13-15 N=28	
							24	14-13-18-14 N=31	
				10			17	16-15-50/4"	
		15.0	435+/-						
3		**WEATHERED SHALE**, gray, very dense		15			15	42-35-50/3"	
		16.3	433.5+/-						
		Auger Refusal at 16.3 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

30 Mins after completion

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-11-2021 | Boring Completed: 10-11-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-5

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5092° Longitude: -74.0831°
Northing: 974983.99 Easting: 606291.598

Approximate Surface Elev.: 447 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	447+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), brown, medium dense				20	5-6-8-12 N=14	
		2.0	445+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, dense				20	28-18-13-17 N=31	11.3
				5			21	8-17-21-16 N=38	
							22	15-15-24-13 N=39	
		10.0	437+/-						
3		10.1	**WEATHERED SHALE**, gray, very dense	10			1	50/1"	
			437+/-						
			Sampler Refusal at 10.1 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-13-2021 | Boring Completed: 10-13-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-6

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5095° Longitude: -74.0835°
Northing: 975102.231 Easting: 606180.527

Approximate Surface Elev.: 448 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1	0.3	447.5+/-	**TOPSOIL**						
1			**SILTY SAND WITH GRAVEL (SM)**, rootlets noted, brown, loose				18	2-3-3-5 N=6	
2	2.0	446+/-	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, dense to very dense				22	12-12-19-17 N=31	
2	4.5	443.5+/-					9	29-50/2"	
3			**WEATHERED SHALE**, gray, very dense	5	▽				
3	6.3	441.5+/-					3	50/4"	
			Sampler Refusal at 6.3 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *At completion of drilling*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-7

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5097° Longitude: -74.0838°
Northing: 975184.934 Easting: 606103.341

Approximate Surface Elev.: 450 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1	0.2	450+/-						
	TOPSOIL							
	SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose to medium dense					21	4-3-2-7 N=5	
						24	9-9-9-9 N=18	
	4.0	446+/-						
2	**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense		5			24	9-10-12-16 N=22	
						3	38-30-28-22 N=58	
	10.0	440+/-		▽				
3	**WEATHERED SHALE**, gray, very dense		10			17	29-40-50/5"	
	11.4	438.5+/-						
	Sampler Refusal at 11.4 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *At completion of drilling*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-8

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5096° Longitude: -74.0830°
Northing: 975147.351 Easting: 606325.705

Approximate Surface Elev.: 449 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	449+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose to medium dense				19	3-2-4-8 N=6	
		3.0	446+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to dense	5			22	14-12-12-16 N=24	
							19	10-24-20-35 N=44	
							24	26-21-17-18 N=38	
				10					
		11.0	438+/-				21	5-10-18-50/4" N=28	
3		11.8	437+/-						
			Sampler Refusal at 11.8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-9

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5099° Longitude: -74.0834°
Northing: 975256.913 Easting: 606217.584

Approximate Surface Elev.: 450 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	450+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose				21	4-4-4-5 N=8	
		2.0	448+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense	5			21	9-10-16-14 N=26	
							20	7-12-17-22 N=29	
		6.5	443.5+/-						
3		6.9	**WEATHERED SHALE**, gray, very dense				9	21-50/5"	
			443+/-						
			Sampler Refusal at 6.9 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-10

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5102° Longitude: -74.0837°
Northing: 975362.442 Easting: 606138.75

Approximate Surface Elev.: 450 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	450+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose				10	2-3-3-7 N=6	
		2.0	448+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, dense				24	11-14-19-20 N=33	
		4.5	445.5+/-				8	12-50/4"	
3			**WEATHERED SHALE**, gray, very dense	5					
		6.2	444+/-				2	50/2"	
			Sampler Refusal at 6.2 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-14-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-11

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5101° Longitude: -74.0829°
Northing: 975306.417 Easting: 606361.594

Approximate Surface Elev.: 451 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1	0.4	450.5+/-				12	2-6-7-10 N=13	
						22	6-5-10-10 N=15	
	4.0	447+/-		▽				
2			5			24	11-11-17-17 N=28	
						18	22-12-16-24 N=28	
			10			10	31-50/4"	
3	15.0	436+/-	15			1	50/1"	
	15.1	436+/-						

TOPSOIL

SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, medium dense

GLACIAL TILL - SILTY SAND WITH GRAVEL (SM), occasional cobbles and boulders, brown, medium dense to very dense

WEATHERED SHALE, gray, very dense

Sampler Refusal at 15.1 Feet

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:
Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *Overnight*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-13-2021 | Boring Completed: 10-14-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-12

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5104° Longitude: -74.0834°

Approximate Surface Elev.: 452 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	452+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose				22	2-2-5-7 N=7	
		2.0	450+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	5			20	8-10-16-18 N=26	
							19	18-23-27-27 N=50	
							16	21-24-50/5"	
		7.4	444.5+/-						
			Sampler Refusal at 7.4 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-13

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5103° Longitude: -74.0844°

Approximate Surface Elev.: 451 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	451+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose				20	3-3-4-18 N=7	15.0
		2.0	449+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	5			19	10-10-11-44 N=21	
							20	10-13-14-19 N=27	
							18	16-20-34-25 N=54	
		8.0	443+/-						
			Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-15-2021 | Boring Completed: 10-15-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-14

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5099° Longitude: -74.0841°

Approximate Surface Elev.: 450 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	450+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose				1	2-4-5-11 N=9	
		2.0	448+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, very dense				1	50/4"	
		4.8	445+/-				3	15-50/1"	
			Auger Refusal at 4.8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-15-2021 | Boring Completed: 10-15-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-18

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5089° Longitude: -74.0844°

Approximate Surface Elev.: 451 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	451+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), brown, loose				16	2-2-2-2 N=4	
		2.0	449+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense	5			20	3-3-19-26 N=22	
							1	21-11-5-5 N=16	
							20	5-6-7-8 N=13	
		8.0	443+/-						
			Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-19

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5099° Longitude: -74.0826°

Approximate Surface Elev.: 449 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	449+/-						
		TOPSOIL							
		SILTY SAND WITH GRAVEL (SM), brown, loose					20	2-2-4-6 N=6	
		2.0	447+/-						
2		**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense		5			18	5-14-7-9 N=21	
							24	9-10-13-12 N=23	11.2
							24	11-11-11-11 N=22	
		8.0	441+/-						
		Boring Terminated at 8 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-20

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5094° Longitude: -74.0829°

Approximate Surface Elev.: 448 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	448+/-						
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose				20	2-3-5-6 N=8	
		2.0	446+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	5			15	6-12-50/4"	
							19	6-11-17-12 N=28	
							1	10-9-11-13 N=20	
		8.0	440+/-						
			Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-21

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5088° Longitude: -74.0831°

Approximate Surface Elev.: 444 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	444+/-	**TOPSOIL**						
				SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose				19	2-2-3-3 N=5	
		2.0	442+/-							
2				**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	5			24	5-7-10-7 N=17	
								24	18-49-15-14 N=64	
		7.0	437+/-					22	12-10-13-20 N=23	
3		8.0	436+/-	**WEATHERED SHALE**, gray, very dense						
				Boring Terminated at 8 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-22

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5087° Longitude: -74.0840°

Approximate Surface Elev.: 451 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.3	450.5+/-						
		TOPSOIL							
		SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose					19	2-2-4-10 N=6	
		2.0	449+/-						
2		**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to dense		5			2	10-10-13-46 N=23	
							0	15-10-12-12 N=22	
							19	10-10-23-14 N=33	
		8.0	443+/-						
		Boring Terminated at 8 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-23

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5083° Longitude: -74.0833°

Approximate Surface Elev.: 444 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	444+/-				10	2-2-1-2 N=3	
			TOPSOIL						
			SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, very loose						
		2.0	442+/-						
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense				20	4-4-7-20 N=11	
							9	24-50/4"	
				5					
							13	12-8-50/2"	
3		7.0	437+/-						
		7.2	**WEATHERED SHALE**, gray, very dense						
			Sampler Refusal at 7.2 Feet						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. B-24

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5078° Longitude: -74.0835°

Approximate Surface Elev.: 446 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
		0.4	445.5+/-						
1		**TOPSOIL**					19	2-2-2-4 N=4	
		SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose							
		2.0	444+/-						
2		**GLACIAL TILL - SILTY SAND (SM)**, occasional cobbles and boulders, brown, medium dense to very dense					22	5-9-8-40 N=17	11.8
		4.5	441.5+/-						
3		**WEATHERED SHALE**, gray, very dense		5			15	28-48-50/4"	
		6.1	440+/-						
		Auger and Sampler Refusal at 6.1 Feet					1	50/1"	

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021 | Boring Completed: 10-18-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-1

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5094° Longitude: -74.0845°

Approximate Surface Elev.: 451 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)		INSTALLATION DETAILS	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1	0.1	451+/-	**TOPSOIL**	4" ID SOLID PVC INSTALLED TO 2.5' IN OFFSET BORING				19	1-1-3-4 N=4	
1			**SILTY SAND WITH GRAVEL (SM)**, brown, loose							
1	2.0	449+/-								
2			**GLACIAL TILL - SILTY SAND (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	UNDISTURBED IN-SITU MATERIAL				10	8-9-16-12 N=25	13.9
2					5			24	6-6-10-12 N=16	
2								20	18-17-19-20 N=36	
2								7	21-50/4"	
2					10			15	16-24-50/4"	
2								24	16-20-16-24 N=36	
2	14.8	436+/-	**Grades gray**					9	16-50/4"	
			Sampler Refusal at 14.8 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

8.0' after 12'-14' sample

5.5' 15 minutes after completion

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-20-2021

Boring Completed: 10-20-2021

Drill Rig: Diedrich D50

Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-2

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5090° Longitude: -74.0846°

Approximate Surface Elev.: 451 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	INSTALLATION DETAILS	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	451+/-	4" ID SOLID PVC INSTALLED TO 2.5' IN OFFSET BORING				18	2-2-4-5 N=6	
		TOPSOIL								
		SILTY SAND WITH GRAVEL (SM), rootlets and larger diameter roots noted, brown, loose								
		2.0	449+/-							
2		**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense		UNDISTURBED IN-SITU MATERIAL	5	▽		20	5-23-11-14 N=34	12.0
								24	5-7-7-9 N=14	
								24	8-7-9-9 N=16	
					10			19	9-10-11-20 N=21	
								20	12-20-45-50/4" N=65	
								4	50/5"	
		14.4	436.5+/-					4	50/5"	
		Sampler Refusal at 14.4 Feet								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *5.5' overnight*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-3

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5085° Longitude: -74.0840°

Approximate Surface Elev.: 450 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)		INSTALLATION DETAILS	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1	0.1	450+/-	**TOPSOIL**							
1			**SILTY SAND WITH GRAVEL (SM)**, rootlets noted, brown, loose					20	1-2-2-10 N=4	
1	2.0	448+/-								
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	4" ID SOLID PVC INSTALLED TO 10' IN OFFSET BORING				20	8-12-14-13 N=26	
2					5			24	6-10-9-10 N=19	
2								24	10-12-15-14 N=27	
2								24	7-7-10-14 N=17	
2					10			22	12-17-29-35 N=46	8.0
2	13.0	437+/-		UNDISTURBED IN-SITU MATERIAL				20	38-48-41-50/5" N=89	
3			**WEATHERED SHALE**, gray, very dense		15					
3	16.2	434+/-								
			Auger Refusal at 16.2 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-4

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5082° Longitude: -74.0837°

Approximate Surface Elev.: 448 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)		INSTALLATION DETAILS	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.2	448+/-	**TOPSOIL**					5	4-4-3-4 N=7	
1				**SILTY SAND WITH GRAVEL (SM)**, rootlets noted, brown, loose to medium dense					20	9-12-11-13 N=23	
		3.0	445+/-		4" ID SOLID PVC INSTALLED TO 6' IN OFFSET BORING						
2				**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense to dense		5			24	5-9-12-12 N=21	12.1
2									24	16-18-21-29 N=39	
		8.0	440+/-		UNDISTURBED IN-SITU MATERIAL						
3				**WEATHERED SHALE**, gray, dense to very dense					24	15-16-14-25 N=30	
3						10			2	50/4"	
		11.0	437+/-								
				Auger Refusal at 11 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

No Free water Observed

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-5

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5080° Longitude: -74.0830°

Approximate Surface Elev.: 440 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)		INSTALLATION DETAILS	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.4	439.5+/-	**TOPSOIL**							
				SILTY SAND WITH GRAVEL (SM), rootlets noted, brown, loose					18	2-3-3-5 N=6	
		2.0	438+/-		4" ID SOLID PVC INSTALLED TO 5' IN OFFSET BORING						
2				**GLACIAL TILL - SANDY SILT (ML)**, occasional cobbles and boulders, brown, medium dense to dense					19	6-5-6-11 N=11	
						5			24	10-11-20-20 N=31	
					UNDISTURBED IN-SITU MATERIAL				24	12-10-10-10 N=20	13.4
							▽		22	10-20-22-50/5" N=42	
		9.9	430+/-								
				Boring Terminated at 9.9 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *8.3' 30 minutes after completion*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021 | Boring Completed: 10-19-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

BORING LOG NO. INF-6

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5077° Longitude: -74.0831°

Approximate Surface Elev.: 441 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)		INSTALLATION DETAILS	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
		0.4	440.5+/-	**TOPSOIL**							
1		2.0	439+/-	**SILTY SAND WITH GRAVEL (SM)**, rootlets noted, brown, loose	4" ID SOLID PVC INSTALLED TO 3' IN OFFSET BORING						
2		6.1	435+/-	**GLACIAL TILL - SILTY SAND (SM)**, occasional cobbles and boulders, brown, medium dense to very dense	UNDISTURBED IN-SITU MATERIAL	5					
				Boring Terminated at 6.1 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO
INF-6 was performed in an offset boring adjacent to Boring B-24
Soil lithology assumed based on Boring B-24

WATER LEVEL OBSERVATIONS

See B-24 log for additional information

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-18-2021	Boring Completed: 10-18-2021
Drill Rig: Diedrich D50	Driller: S. Morey
Project No.: JB215164	

BORING LOG NO. INF-7

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5099° Longitude: -74.0824°

Approximate Surface Elev.: 448 (Ft.) +/-

MODEL LAYER	DEPTH	ELEVATION (Ft.)	
1	0.1	448+/-	**TOPSOIL**,
1			**SILTY SAND WITH GRAVEL (SM)**, brown, loose
1	2.0	446+/-	
2			**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense
2	8.0	440+/-	
			Boring Terminated at 8 Feet

INSTALLATION DETAILS: 4" ID SOLID PVC INSTALLED TO 4.5' IN OFFSET BORING; UNDISTURBED IN-SITU MATERIAL

DEPTH (Ft.): 5

WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | WATER CONTENT (%)

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO
INF-7 was performed in an offset boring adjacent to Boring B-19
Soil lithology assumed based on Boring B-19

WATER LEVEL OBSERVATIONS

See B-19 log for additional information

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-19-2021	Boring Completed: 10-19-2021
Drill Rig: Diedrich D50	Driller: S. Morey
Project No.: JB215164	

BORING LOG NO. INF-8

PROJECT: Newburgh Commerce Center

CLIENT: Scannell Properties LLC
Indianapolis, IN

SITE: 124 Route 17K
Newburgh, NY

LOCATION See Exploration Plan

Latitude: 41.5102° Longitude: -74.0823°

Approximate Surface Elev.: 448 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)		INSTALLATION DETAILS	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	WATER CONTENT (%)
1		0.1	448+/-	**TOPSOIL**							
				SILTY SAND WITH GRAVEL (SM), brown, loose	4" ID SOLID PVC INSTALLED TO 2.5' IN OFFSET BORING				22	2-2-5-10 N=7	
		2.0	446+/-								
2				**GLACIAL TILL - SILTY SAND WITH GRAVEL (SM)**, occasional cobbles and boulders, brown, medium dense					24	10-9-16-18 N=25	
					UNDISTURBED IN-SITU MATERIAL	5			24	13-16-12-12 N=28	11.9
							▽		24	12-8-21-15 N=29	
		8.0	440+/-								
				Boring Terminated at 8 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" ID HSA

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

Notes:

Logged by: JTO

WATER LEVEL OBSERVATIONS

▽ *6.4' at completion of drilling*

Terracon
30 Corporate Cir Ste 201
Albany, NY

Boring Started: 10-20-2021 | Boring Completed: 10-20-2021

Drill Rig: Diedrich D50 | Driller: S. Morey

Project No.: JB215164

INFILTRATION TEST RESULTS

PROJECT: Newburgh Commerce Center				**PROJECT NO.** JB215164	
PROJECT LOCATION: Newburgh, New York				**TESTER:** SLM	
Test Location	**Test Depth (feet)**	**Trial No.**	**Water Drop (inches)**	**Elapsed Time (hours)**	**Infiltration Rate (inches/hour)**
INF-1	2.5	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			
INF-2	2.5	1	8	1	8
		2	4	1	4
		3	3	1	3
		4	3	1	3
		NOTE: Rate of final trial: 3 in/hr. Average of four trials: 4.5 in/hr.			
INF-3	10	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			

Notes:

(1) Test pipes were installed in boreholes made adjacent to test borings INF-1, INF-2, and INF-3.
(2) At the location of INF-1, 15” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.
(3) At the location of INF-3, 16” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.

SOIL CLASSIFICATION AT TEST DEPTH

Test Location INF-1: Glacial Till - Silty Sand.
Test Location INF-2: Glacial Till - Silty Sand with Gravel.
Test Location INF-3: Glacial Till - Silty Sand with Gravel.

INFILTRATION TEST RESULTS

PROJECT: Newburgh Commerce Center				**PROJECT NO.** JB215164	
PROJECT LOCATION: Newburgh, New York				**TESTER:** SLM	
Test Location	**Test Depth (feet)**	**Trial No.**	**Water Drop (inches)**	**Elapsed Time (hours)**	**Infiltration Rate (inches/hour)**
INF-4	6.0	1	1	1	1
		2	.5	1	.5
		3	1	1	1
		4	1	1	1
		NOTE: Rate of final trial: 1 in/hr. Average of four trials: .8 in/hr.			
INF-5	5.0	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			
INF-6	3.0	1	0	2	0
		NOTE: Rate of final trial: 0 in/hr.			

Notes:

(1) Test pipes were installed in boreholes made adjacent to test borings INF-4, INF-5, and B-24.
(2) At the location of INF-5, 16” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.
(3) At the location of INF-6, 13” of water remained in the test pipe after the presoak. Filled back up to 24” of water with no drop in water level after 2 hours.

SOIL CLASSIFICATION AT TEST DEPTH

Test Location INF-4: Glacial Till - Silty Sand with Gravel.
Test Location INF-5: Glacial Till – Sandy Silt.
Test Location INF-6: Glacial Till - Silty Sand.

INFILTRATION TEST RESULTS					
PROJECT: Newburgh Commerce Center				**PROJECT NO.** JB215164	
PROJECT LOCATION: Newburgh, New York				**TESTER:** SLM	
Test Location	**Test Depth (feet)**	**Trial No.**	**Water Drop (inches)**	**Elapsed Time (hours)**	**Infiltration Rate (inches/hour)**
INF-7	4.5	1	2	1	2
		2	2	1	2
		3	2	1	2
		4	2	1	2
		NOTE: Rate of final trial: 2 in/hr. Average of four trials: 2 in/hr.			
INF-8	2.5	1	4	1.0	4
		2	1	1.0	1
		3	1	1.0	1
		4	1	1.0	1
		NOTE: Rate of final trial: 1 in/hr. Average of four trials: 1.75 in/hr.			

Notes:

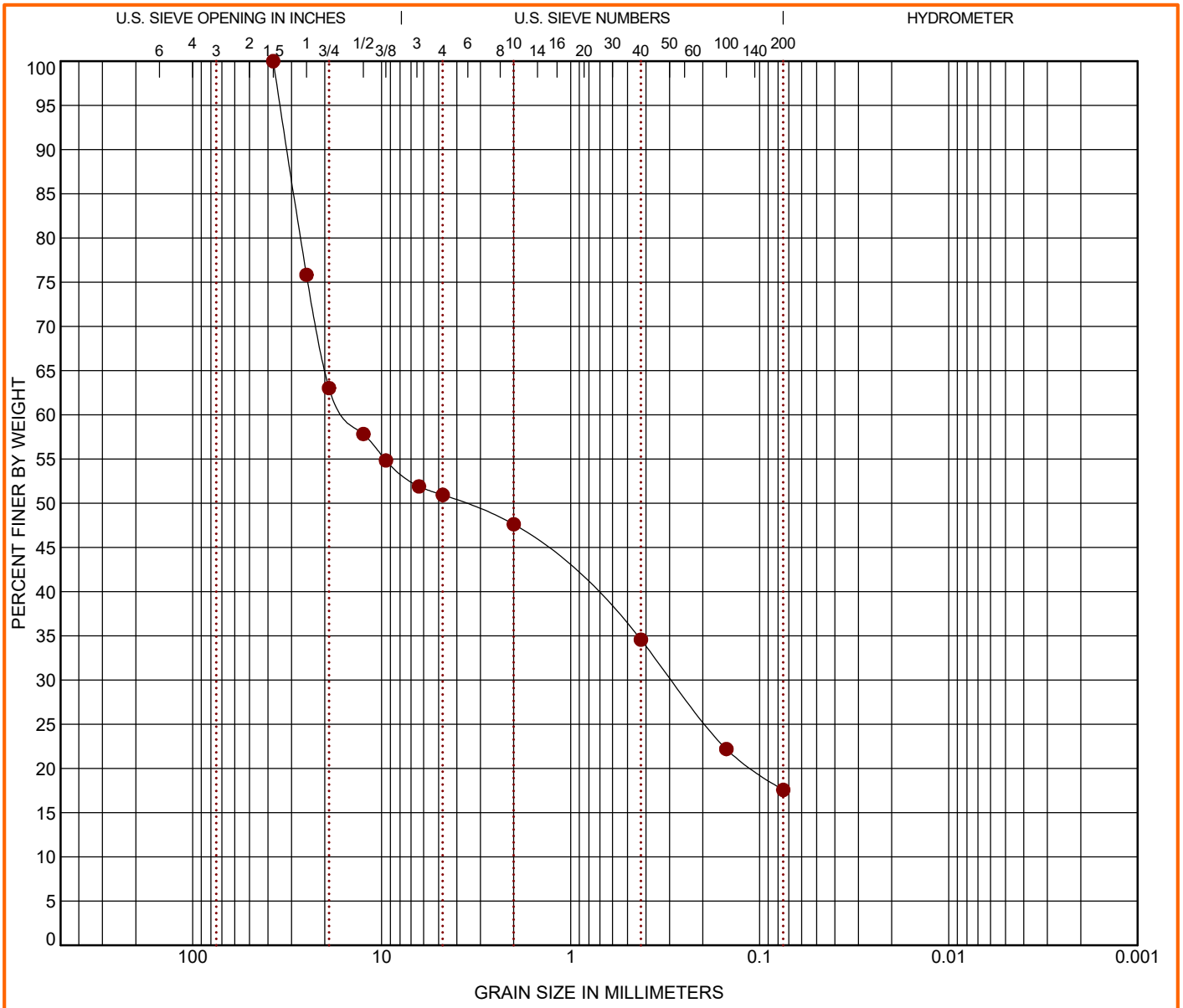
(1) Test pipes were installed in boreholes made adjacent to test borings B-19 and INF-8.

SOIL CLASSIFICATION AT TEST DEPTH

Test Location INF-7: Glacial Till - Silty Sand with Gravel.
Test Location INF-8: Glacial Till - Silty Sand with Gravel.

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
B-2	0 - 2	SILTY GRAVEL with SAND (GM)	11.7	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
B-2	0 - 2	37.5	14.894	0.289		0.0	49.1	33.4		17.6	

PROJECT: Newburgh Commerce Center

PROJECT NUMBER: JB215164

SITE: 124 Route 17K
Newburgh, NY

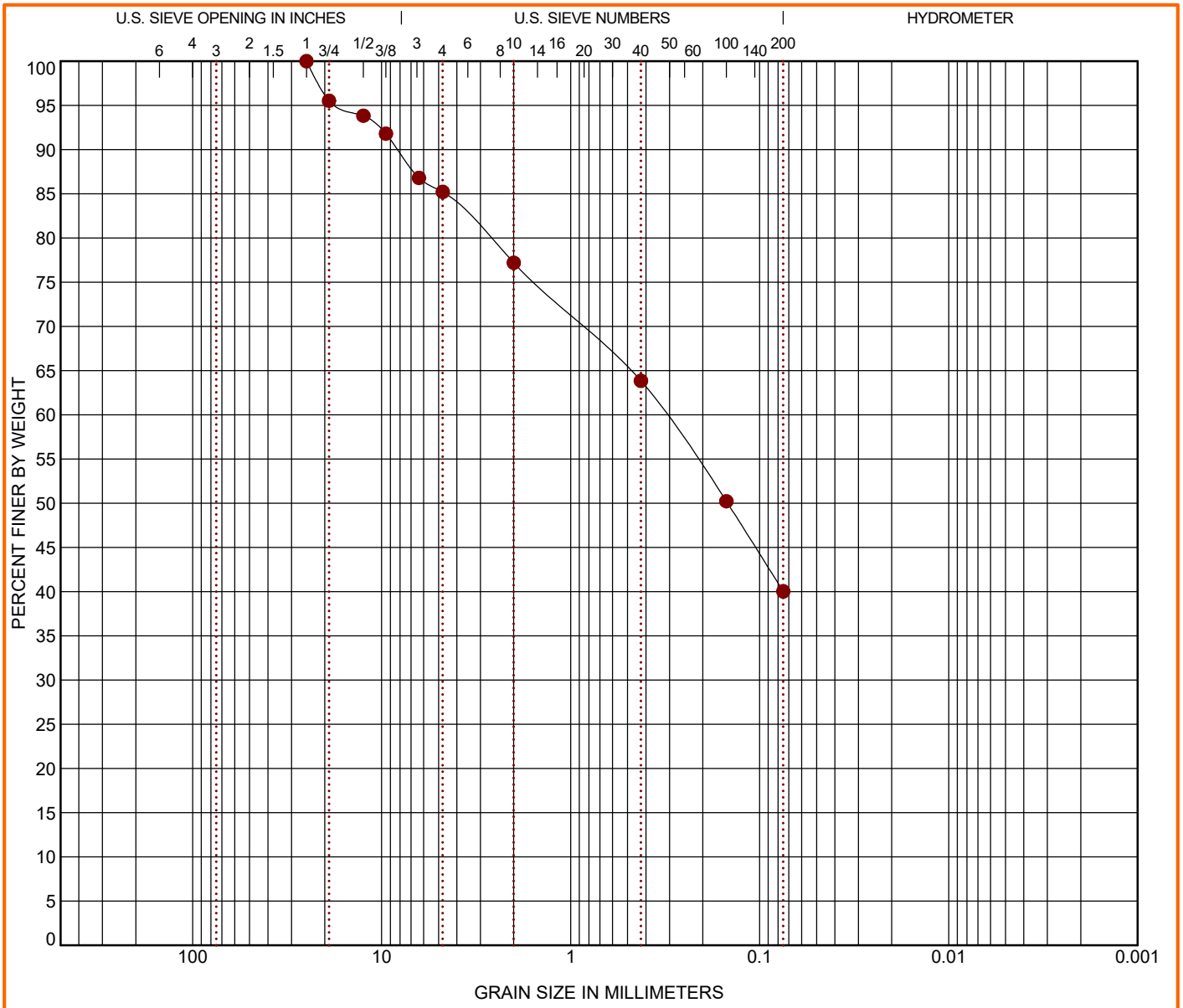
Terracon
30 Corporate Cir Ste 201
Albany, NY

CLIENT: Scannell Properties LLC
Indianapolis, IN

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 JB215164 NEWBURGH COMMERCE.GPJ TERRACON_DATATEMPLATE.GDT 11/1/21

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
B-4	2 - 4	SILTY SAND (SM)	12.4	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
B-4	2 - 4	25	0.317			0.0	14.8	45.2		40.0	

PROJECT: Newburgh Commerce Center

PROJECT NUMBER: JB215164

SITE: 124 Route 17K
Newburgh, NY

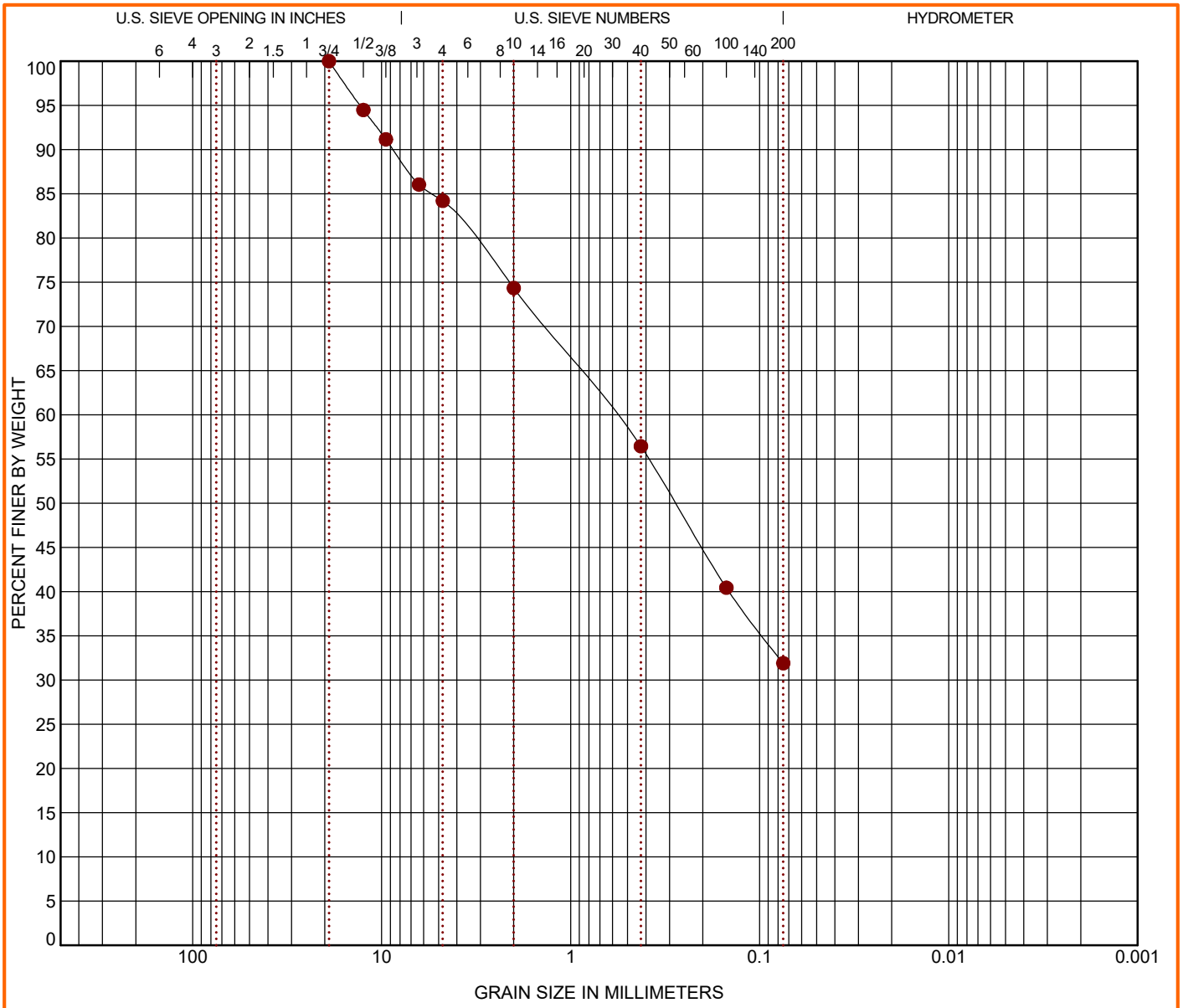
Terracon
30 Corporate Cir Ste 201
Albany, NY

CLIENT: Scannell Properties LLC
Indianapolis, IN

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 JB215164 NEWBURGH COMMERCE.GPJ TERRACON_DATATEMPLATE.GDT 11/1/21

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
B-13	0 - 2	SILTY SAND with GRAVEL (SM)	15.0	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
B-13	0 - 2	19	0.578			0.0	15.8	52.3		31.9	

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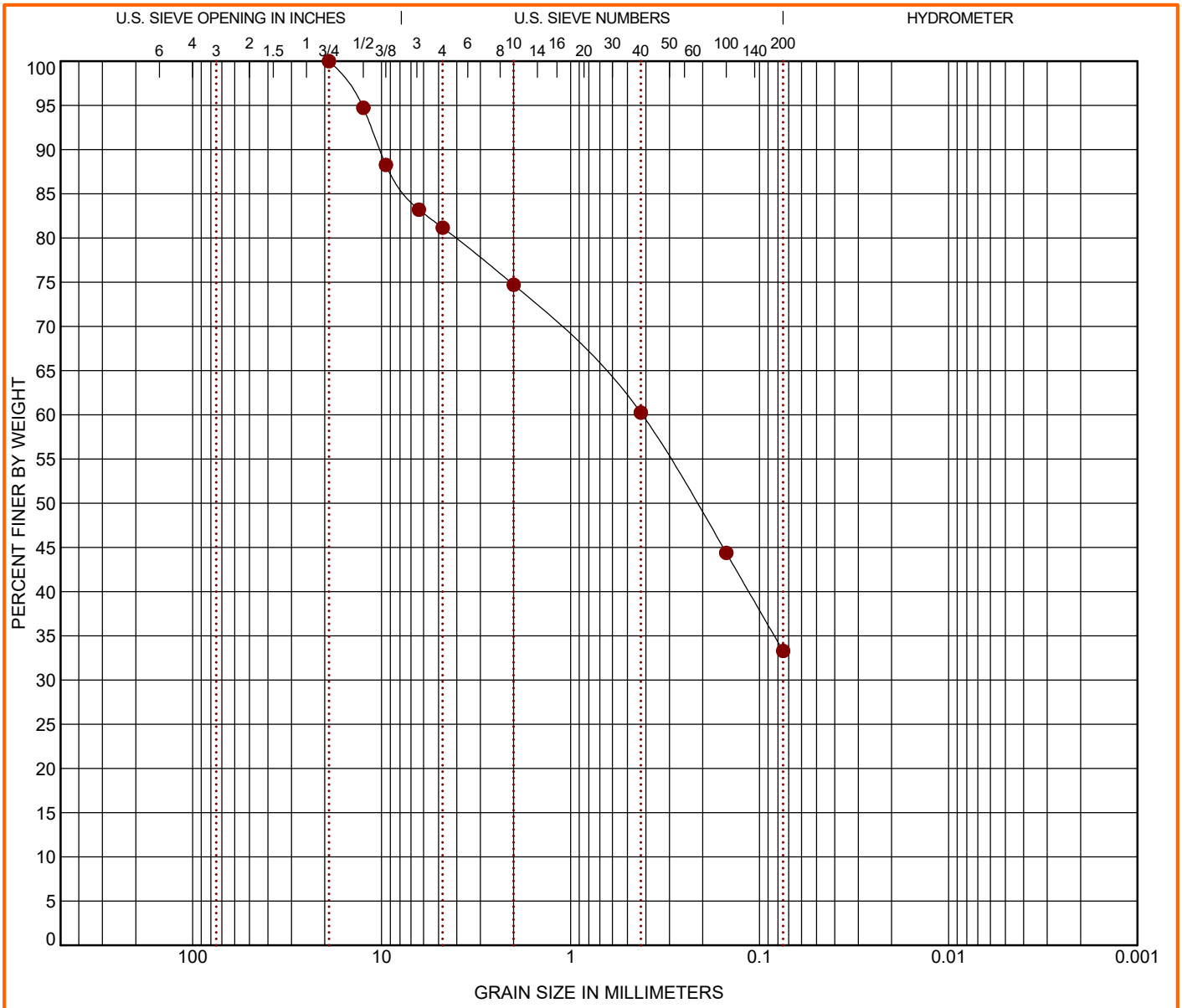

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
B-19	4 - 6	SILTY SAND with GRAVEL (SM)	11.2	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
B-19	4 - 6	19	0.418			0.0	18.8	47.9		33.3	

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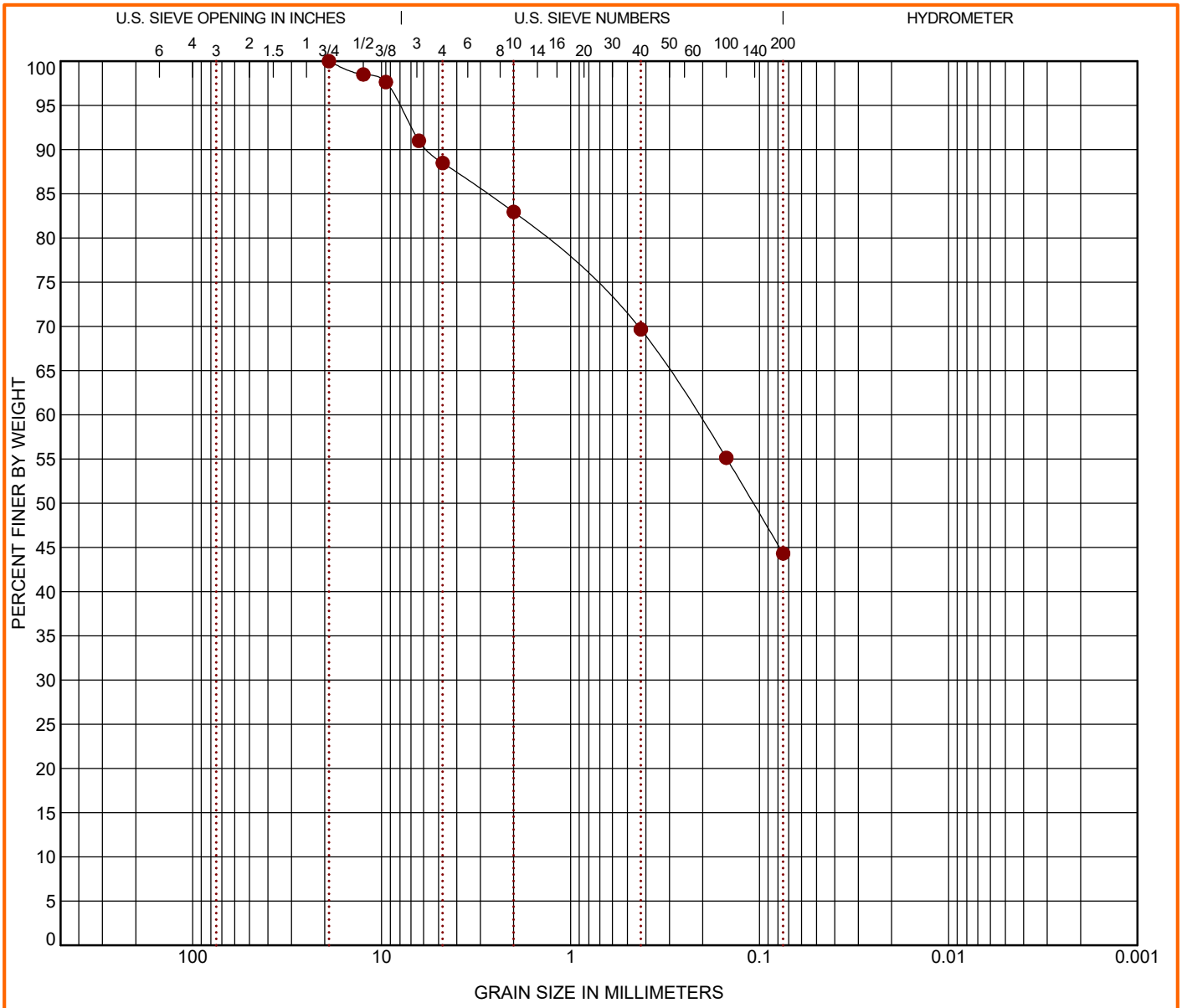

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
B-24	2 - 4	SILTY SAND (SM)	11.8	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
B-24	2 - 4	19	0.213			0.0	11.5	44.2		44.3	

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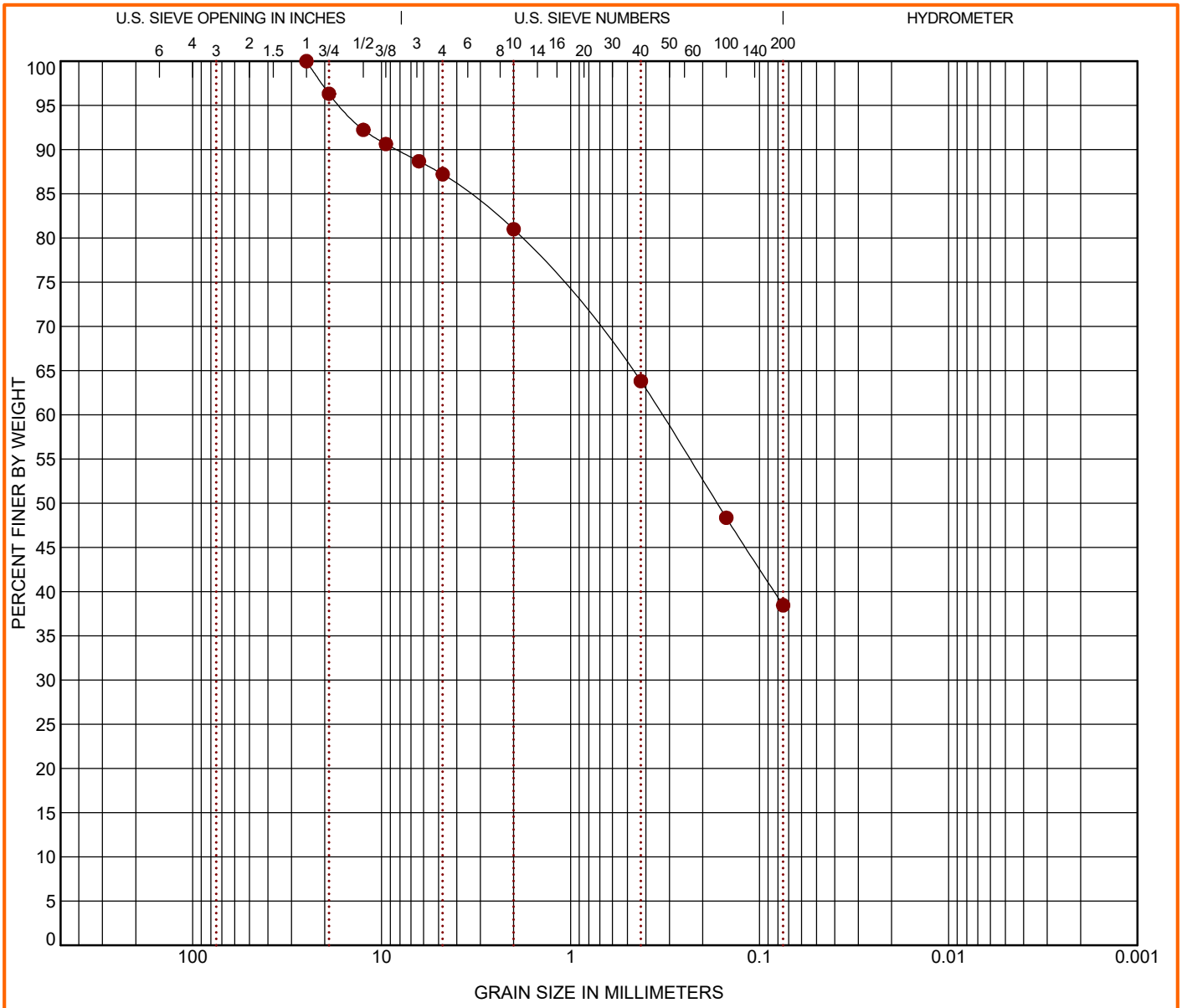

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
INF-1	2 - 4	SILTY SAND (SM)	13.9	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
INF-1	2 - 4	25	0.329			0.0	12.8	48.8		38.5	

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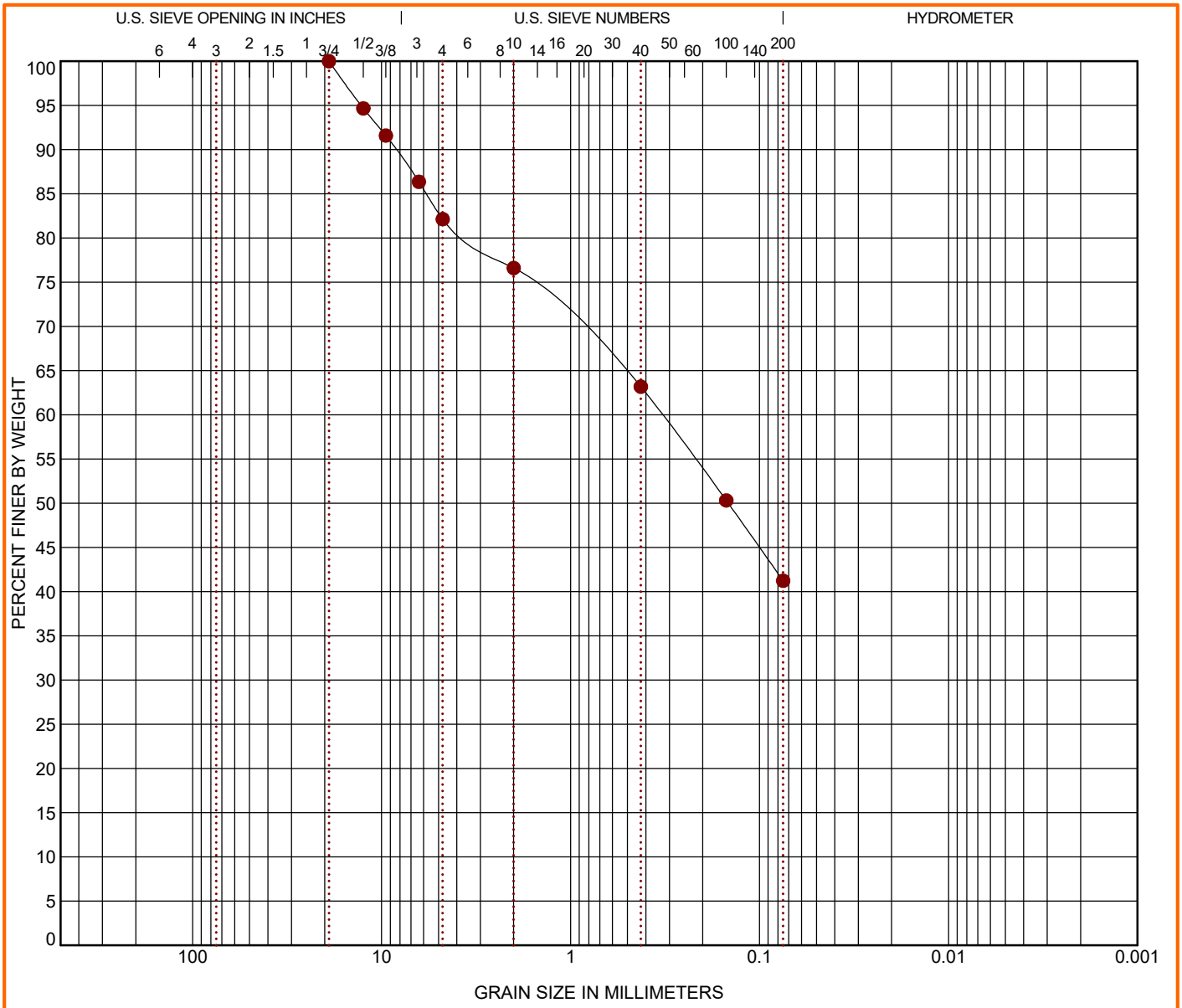

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
INF-2	2 - 4	SILTY SAND with GRAVEL (SM)	12.0	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
INF-2	2 - 4	19	0.329			0.0	17.9	40.9		41.2	

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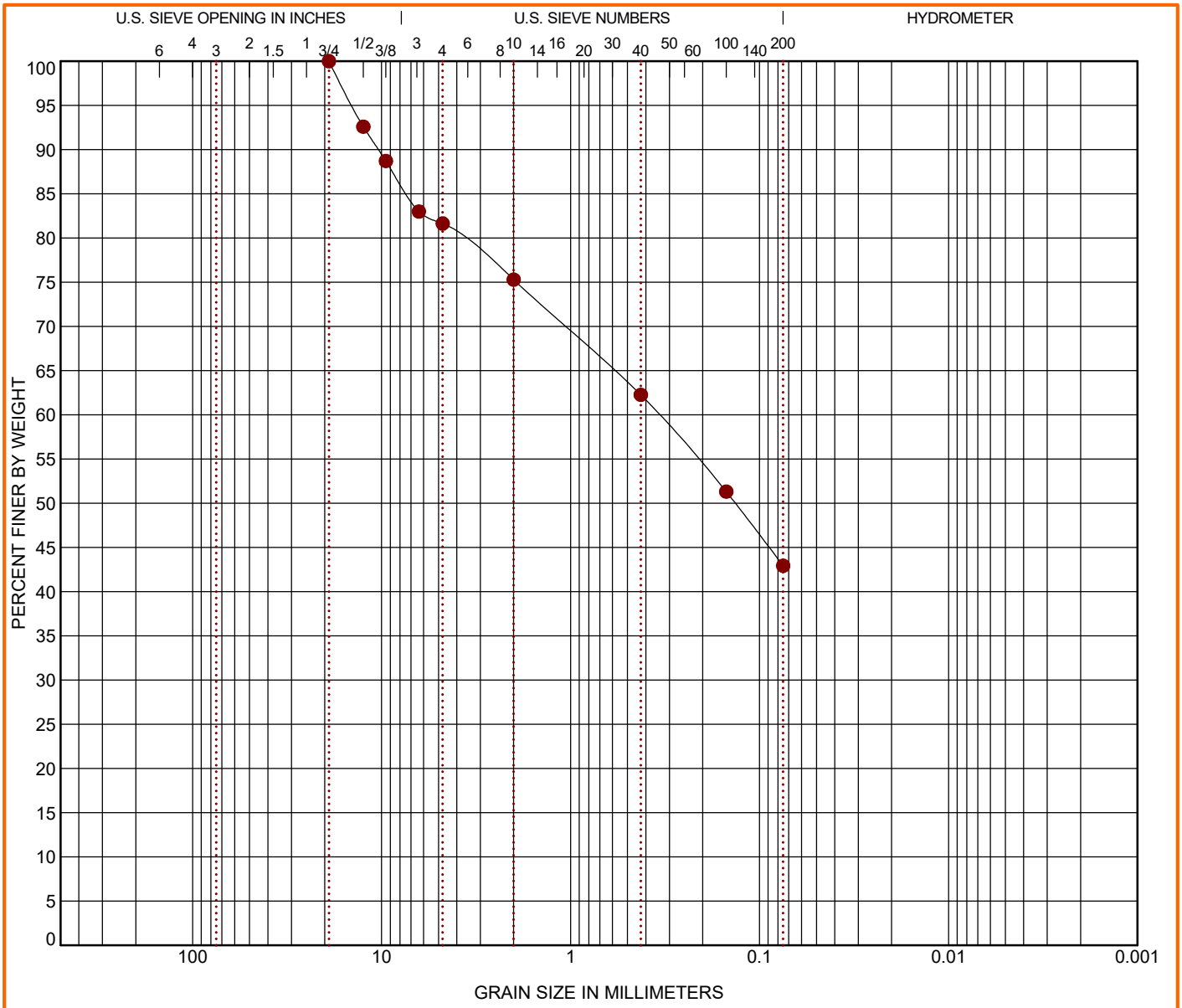

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
INF-3	10 - 12	SILTY SAND with GRAVEL (SM)	8.0	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
INF-3	10 - 12	19	0.343			0.0	18.4	38.7		42.9	

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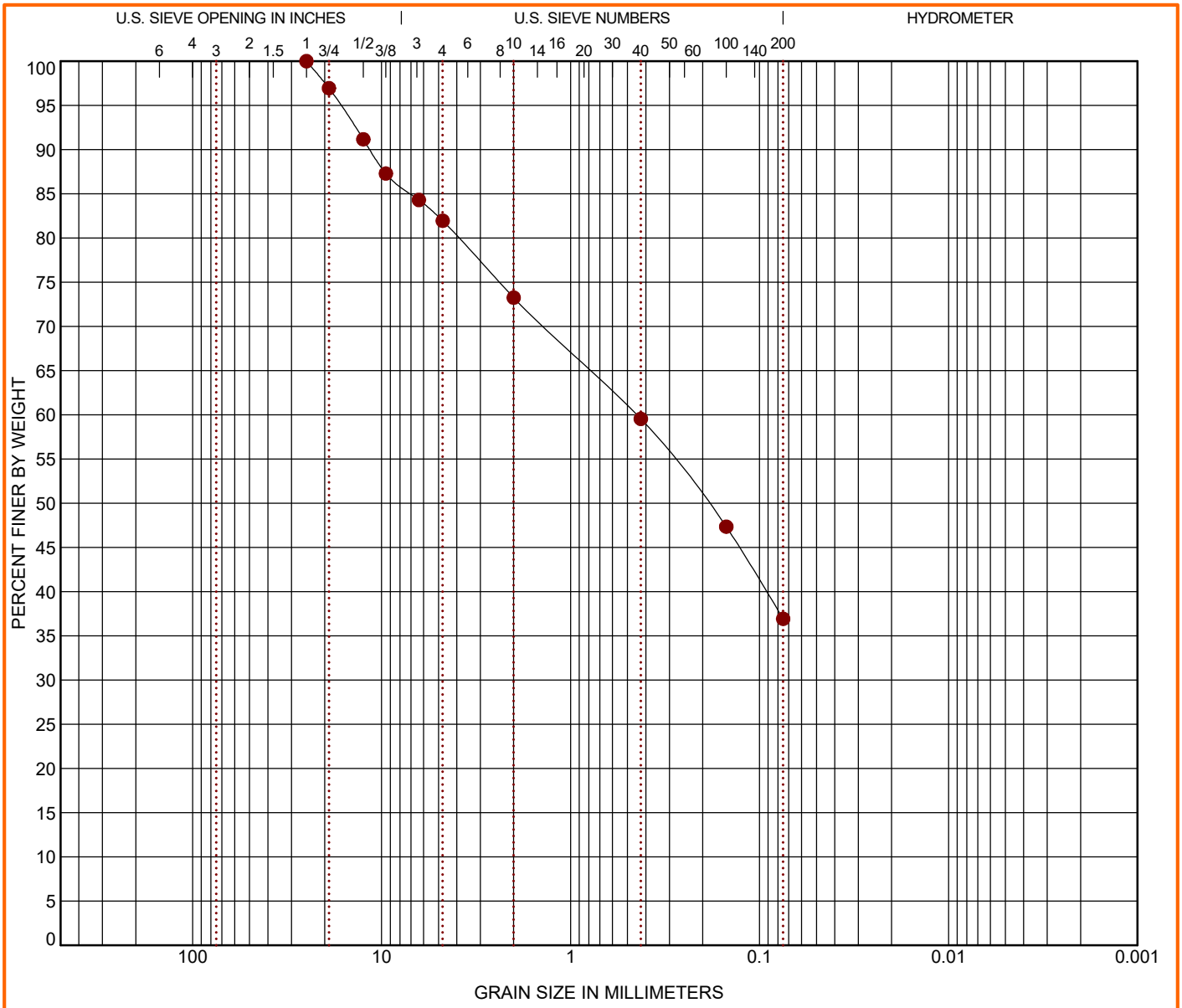

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
INF-4	4 - 6	SILTY SAND with GRAVEL (SM)	12.1	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
INF-4	4 - 6	25	0.448			0.0	18.1	45.0		36.9	

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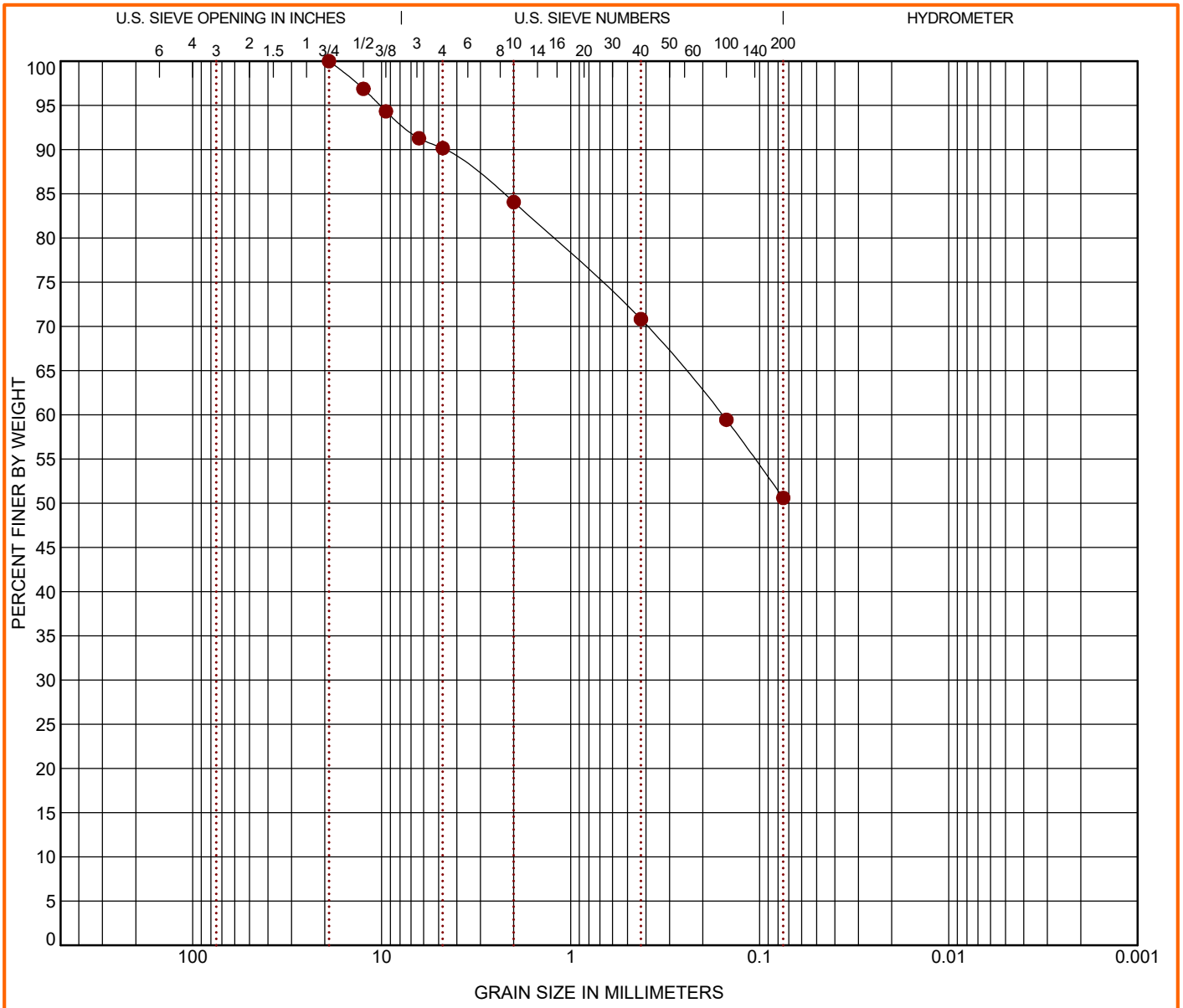

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
INF-5	6 - 8	SANDY SILT (ML)	13.4	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
INF-5	6 - 8	19	0.158			0.0	9.8	39.6		50.6	

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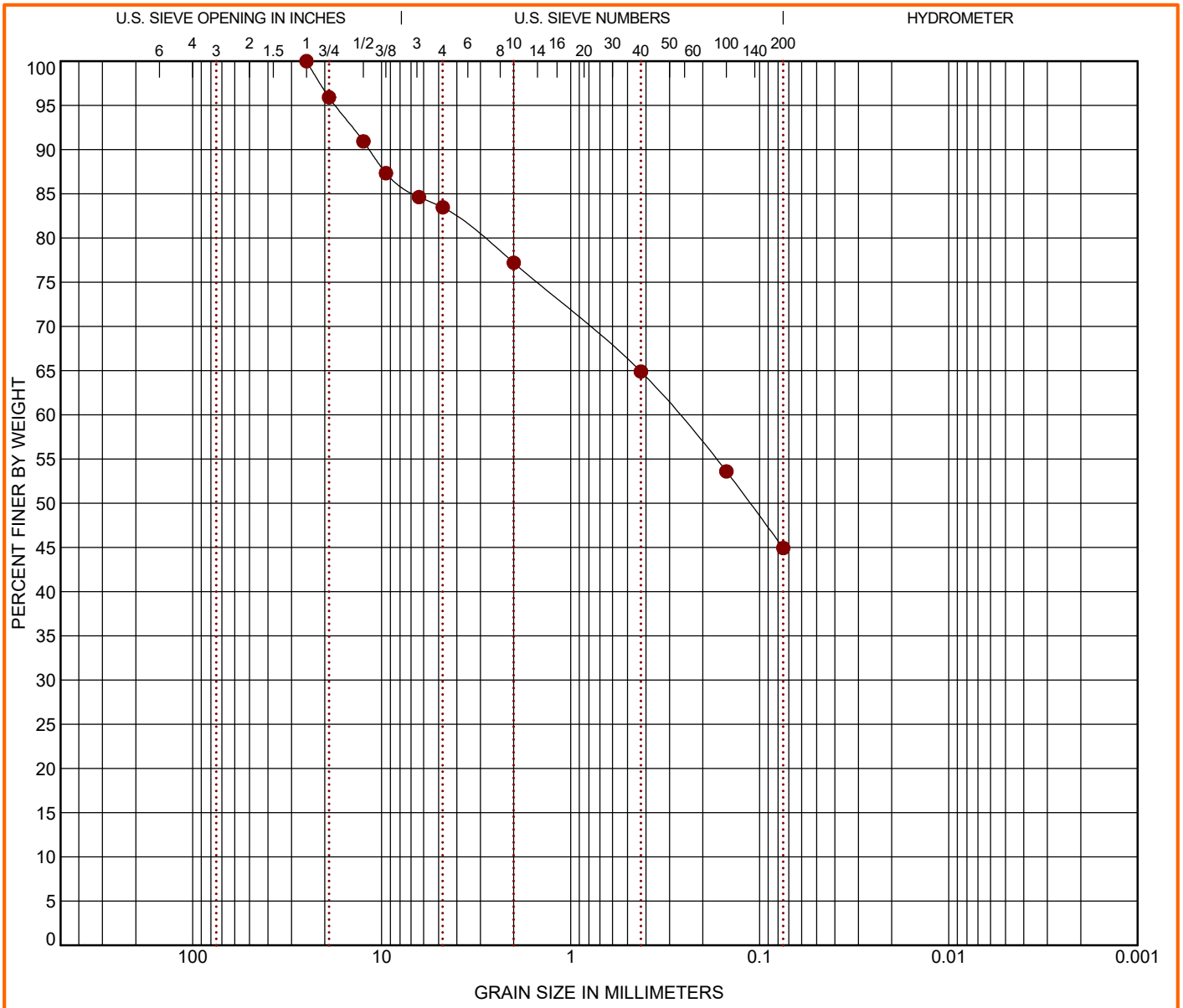

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
INF-8	4 - 6	SILTY SAND with GRAVEL (SM)	11.9	NP	NP	NP		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
INF-8	4 - 6	25	0.271			0.0	16.5	38.5		44.9	

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SUPPORTING INFORMATION

Contents:

Note: All attachments are one page unless noted above.

GENERAL NOTES

DESCRIPTION OF SYMBOLS AND ABBREVIATIONS
Newburgh Commerce Center ■ Newburgh, NY
Terracon Project No. JB215164

SAMPLING	WATER LEVEL	FIELD TESTS
Split Spoon	**Water Initially Encountered** **Water Level After a Specified Period of Time** **Water Level After a Specified Period of Time** **Cave In Encountered** Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.	**N** Standard Penetration Test Resistance (Blows/Ft.) **(HP)** Hand Penetrometer **(T)** Torvane **(DCP)** Dynamic Cone Penetrometer **UC** Unconfined Compressive Strength **(PID)** Photo-Ionization Detector **(OVA)** Organic Vapor Analyzer

DESCRIPTIVE SOIL CLASSIFICATION

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

LOCATION AND ELEVATION NOTES

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

STRENGTH TERMS

RELATIVE DENSITY OF COARSE-GRAINED SOILS (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance		CONSISTENCY OF FINE-GRAINED SOILS (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance		
Descriptive Term (Density)	**Standard Penetration or N-Value Blows/Ft.**	**Descriptive Term (Consistency)**	**Unconfined Compressive Strength Qu, (tsf)**	**Standard Penetration or N-Value Blows/Ft.**
Very Loose	0 - 3	Very Soft	less than 0.25	0 - 1
Loose	4 - 9	Soft	0.25 to 0.50	2 - 4
Medium Dense	10 - 29	Medium Stiff	0.50 to 1.00	4 - 8
Dense	30 - 50	Stiff	1.00 to 2.00	8 - 15
Very Dense	> 50	Very Stiff	2.00 to 4.00	15 - 30
		Hard	> 4.00	> 30

RELEVANCE OF SOIL BORING LOG

The soil boring logs contained within this document are intended for application to the project as described in this document. Use of these soil boring logs for any other purpose may not be appropriate.

UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A]					Soil Classification	
					Group Symbol	Group Name [B]
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	**Gravels:** More than 50% of coarse fraction retained on No. 4 sieve	**Clean Gravels:** Less than 5% fines [C]	$Cu \geq 4$ and $1 \leq Cc \leq 3$ [E]		GW	Well-graded gravel [F]
			$Cu < 4$ and/or [$Cc<1$ or $Cc>3.0$] [E]		GP	Poorly graded gravel [F]
		Gravels with Fines: More than 12% fines [C]	Fines classify as ML or MH		GM	Silty gravel [F, G, H]
			Fines classify as CL or CH		GC	Clayey gravel [F, G, H]
	Sands: 50% or more of coarse fraction passes No. 4 sieve	**Clean Sands:** Less than 5% fines [D]	$Cu \geq 6$ and $1 \leq Cc \leq 3$ [E]		SW	Well-graded sand [I]
			$Cu < 6$ and/or [$Cc<1$ or $Cc>3.0$] [E]		SP	Poorly graded sand [I]
		Sands with Fines: More than 12% fines [D]	Fines classify as ML or MH		SM	Silty sand [G, H, I]
			Fines classify as CL or CH		SC	Clayey sand [G, H, I]
Fine-Grained Soils: 50% or more passes the No. 200 sieve	**Silts and Clays:** Liquid limit less than 50	**Inorganic:**	PI > 7 and plots on or above "A"		CL	Lean clay [K, L, M]
			PI < 4 or plots below "A" line [J]		ML	Silt [K, L, M]
		Organic:	Liquid limit - oven dried	< 0.75	OL	Organic clay [K, L, M, N]
			Liquid limit - not dried			Organic silt [K, L, M, O]
	Silts and Clays: Liquid limit 50 or more	**Inorganic:**	PI plots on or above "A" line		CH	Fat clay [K, L, M]
			PI plots below "A" line		MH	Elastic Silt [K, L, M]
		Organic:	Liquid limit - oven dried	< 0.75	OH	Organic clay [K, L, M, P]
			Liquid limit - not dried			Organic silt [K, L, M, Q]
Highly organic soils:	Primarily organic matter, dark in color, and organic odor				PT	Peat

[A] Based on the material passing the 3-inch (75-mm) sieve.

[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

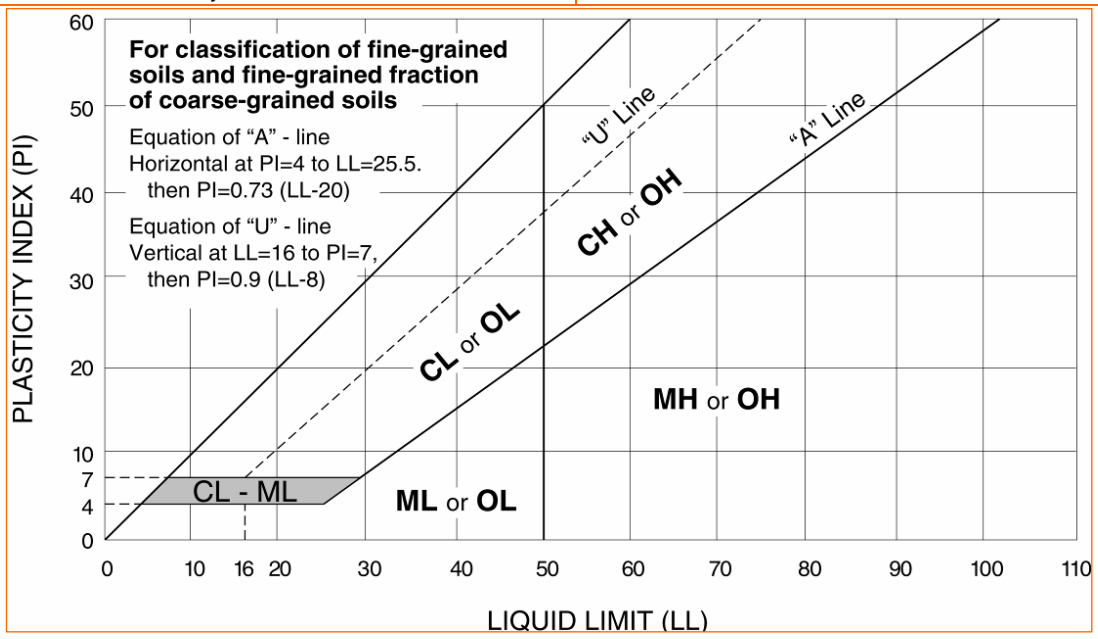
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 4 and plots on or above "A" line.

[O] PI < 4 or plots below "A" line.

[P] PI plots on or above "A" line.

[Q] PI plots below "A" line.



DESCRIPTION OF ROCK PROPERTIES

WEATHERING	
Term	**Description**
Unweathered	No visible sign of rock material weathering, perhaps slight discoloration on major discontinuity surfaces.
Slightly weathered	Discoloration indicates weathering of rock material and discontinuity surfaces. All the rock material may be discolored by weathering and may be somewhat weaker externally than in its fresh condition.
Moderately weathered	Less than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a continuous framework or as corestones.
Highly weathered	More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a discontinuous framework or as corestones.
Completely weathered	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.
Residual soil	All rock material is converted to soil. The mass structure and material fabric are destroyed. There is a large change in volume, but the soil has not been significantly transported.

STRENGTH OR HARDNESS		
Description	**Field Identification**	**Uniaxial Compressive Strength, psi (MPa)**
Extremely weak	Indented by thumbnail	40-150 (0.3-1)
Very weak	Crumbles under firm blows with point of geological hammer, can be peeled by a pocket knife	150-700 (1-5)
Weak rock	Can be peeled by a pocket knife with difficulty, shallow indentations made by firm blow with point of geological hammer	700-4,000 (5-30)
Medium strong	Cannot be scraped or peeled with a pocket knife, specimen can be fractured with single firm blow of geological hammer	4,000-7,000 (30-50)
Strong rock	Specimen requires more than one blow of geological hammer to fracture it	7,000-15,000 (50-100)
Very strong	Specimen requires many blows of geological hammer to fracture it	15,000-36,000 (100-250)
Extremely strong	Specimen can only be chipped with geological hammer	>36,000 (>250)

DISCONTINUITY DESCRIPTION			
Fracture Spacing (Joints, Faults, Other Fractures)		**Bedding Spacing (May Include Foliation or Banding)**	
Description	**Spacing**	**Description**	**Spacing**
Extremely close	< ¾ in (<19 mm)	**Laminated**	< ½ in (<12 mm)
Very close	¾ in – 2-1/2 in (19 - 60 mm)	**Very thin**	½ in – 2 in (12 – 50 mm)
Close	2-1/2 in – 8 in (60 – 200 mm)	**Thin**	2 in – 1 ft. (50 – 300 mm)
Moderate	8 in – 2 ft. (200 – 600 mm)	**Medium**	1 ft. – 3 ft. (300 – 900 mm)
Wide	2 ft. – 6 ft. (600 mm – 2.0 m)	**Thick**	3 ft. – 10 ft. (900 mm – 3 m)
Very Wide	6 ft. – 20 ft. (2.0 – 6 m)	**Massive**	> 10 ft. (3 m)

Discontinuity Orientation (Angle): Measure the angle of discontinuity relative to a plane perpendicular to the longitudinal axis of the core. (For most cases, the core axis is vertical; therefore, the plane perpendicular to the core axis is horizontal.) For example, a horizontal bedding plane would have a 0-degree angle.

ROCK QUALITY DESIGNATION (RQD) [1]	
Description	**RQD Value (%)**
Very Poor	0 - 25
Poor	25 – 50
Fair	50 – 75
Good	75 – 90
Excellent	90 - 100

1. The combined length of all sound and intact core segments equal to or greater than 4 inches in length, expressed as a percentage of the total core run length.

Reference: U.S. Department of Transportation, Federal Highway Administration, Publication No FHWA-NHI-10-034, December 2009
Technical Manual for Design and Construction of Road Tunnels – Civil Elements

APPENDIX 8

November 1, 2021

Mr. Mark Willson
Scannell Properties
294 Grove Lane, Suite 140
Wayzata, Minnesota 55391

RE: Threatened and Endangered Species Habitat Assessment Report and Wetland Delineation Memorandum
124 Route 17K, Town of Newburgh, Orange County, New York
LaBella Project 2212973

Dear Mr. Willson:

This summary report presents the findings of a wetland delineation and protected species habitat assessment on an approximate 14.15-acre Study Area located at 124 Route 17K (tax parcel 95-1-58) in the Town of Newburgh, Orange County, New York.

LaBella Associates D.P.C. (LaBella) conducted a field survey to document existing habitats, plants, and wildlife within the Study Area on August 30 and September 27, 2021. Vegetation cover types and plant species composition were documented on-site, and existing conditions were noted including any structures or disturbances. A wetland review of the Study Area was also completed on August 30, 2021.

Resources reviewed prior to conducting the fieldwork included the following:

- United States Fish and Wildlife Service (USFWS) list of threatened and endangered species that may occur at the Study Area (letter dated September 28, 2021);
- New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper for rare wildlife, plants, and significant habitats in the vicinity of the Study Area;
- NYSDEC Environmental Assessment Form (EAF) Mapper;
- United States Geological Survey topographic mapping;
- NYNHP Rare Animal Status List (October, 2017) and NYNHP Rare Plant Status Lists (November, 2020);
- USFWS Environmental Conservation Online System for Federal Endangered and Threatened Wildlife and Plants;
- NYSDEC Map of Northern Long-Eared Bat Occurrences by Town (June, 2018 data);
- USFWS – New York Towns of NLEB Summer Roosts (Updated March, 2019); and
- USFWS – Northern Long-Eared Bat Final 4(d) Rule White-Nose Syndrome Zone Around WNS/Pd Positive Counties/Districts Mapping (Updated July 26, 2020).
- 50 § CFR 17.40(o) – USFWS 4(d) rule for northern long-eared bat.

SITE DESCRIPTION

The Study Area is located to the north of Route 17K within the Town of Newburgh. The surrounding area consists mostly of commercial development with some residential development, and Stewart International Airport is located immediately south of the site on the opposite side of Route 17K. The Study Area consists of a field and small wooded area, with a mosaic of trees scattered within the open field area. An abandoned residence is located in the southernmost portion of the Study Area right along Route 17K. The field consists of species common of old field communities, including spotted knapweed (*Centaurea stoebe*), Queen Anne's lace (*Daucus carota*), milkweed (*Asclepias syriaca*), field thistle (*Cirsium discolor*), goldenrods (*Solidago spp.*), birds foot trefoil (*Lotus corniculatus*), ragweed (*Ambrosia artemisiifolia*), poison ivy (*Toxicodendron radicans*), common mullein (*Verbascum thapsus*), multiflora rose (*Rosa multiflora*), vetch (*Vicia sativa*), and brambles (*Rubus spp.*). Tree species within the Study Area include (*Pinus strobus*), white oak (*Quercus alba*), Scotch pine (*Pinus sylvestris*), sugar maple (*Acer saccharum*), black oak (*Quercus velutina*), black locust (*Robinia pseudoacacia*), and black walnut (*Juglans nigra*). Norway spruce (*Picea abies*) is found near the house in the southern portion of the Study Area. A large berm separates the majority of the Study Area from the parcels that border the site to the north.

WETLAND DELINEATION

LaBella conducted a wetland delineation within the Study Area to determine the potential extent of Waters of the United States subject to Federal jurisdiction under Section 404 of the Clean Water Act or State jurisdiction under Article 24 of the New York State Environmental Conservation Law. The wetland delineation was conducted using the routine level, on-site determination method. This method utilizes the three-parameter approach (hydrophytic vegetation, hydric soils, and wetland hydrology) outlined in the *1987 Corps of Engineers Wetlands Delineation Manual* as supplemented by the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0*. Any wetland delineation flag locations were recorded using a sub-foot Global Positioning System (GPS) unit.

No wetlands were identified within the Study Area. Soils within the Study Area consist of silt loams. The first two inches of the soil profile (A horizon) is very dark brown (10YR 2/2) in color, and below two inches, soils have a bright matrix ranging in color from dark yellowish-brown (10YR 4/4) to yellowish-brown (10YR 5/6). Soils sampled did not contain any redoximorphic features, and do not represent hydric soils. Similarly, no indicators of wetland hydrology were observed within the Study Area and no hydrophytic vegetation was observed at the time of inspection. The vegetative community is dominated by upland old field species with common upland tree species scattered throughout.

ENDANGERED AND THREATENED HABITAT SURVEY

LaBella Associates reviewed USFWS correspondence (USFWS Species List dated September 28, 2021) which lists several species that may occur within the general vicinity of the Study Area. Similarly, NYSDEC ERM and EAF Mapper were reviewed, which provided a record of generalized locations of rare species that includes the Study Area. The Species potentially indicated by USFWS and NYSDEC are listed below:

Table 1. Species Listed by USFWS and NYSDEC for the Study Area.

Scientific Name	Common Name	Federal Listing	State Listing
Bartramia longicauda	upland sandpiper	None	Threatened
Isotria medeoloides	small whorled pogonia	Threatened	Endangered
Myotis septentrionalis	northern long-eared bat	Threatened	Threatened
Myotis sodalis	Indiana bat	Endangered	Endangered

There are no mapped NYNHP significant natural communities on, or within the vicinity of, the Study Area. Similarly, there are no USFWS critical habitats within the Study Area.

The 14.15-acre Study Area was reviewed by LaBella during the site visit to determine the potential presence of suitable habitat for the rare, endangered, or threatened species listed for the Study Area. Species profiles, along with the findings from the site visit, are included below.

Upland Sandpiper – *Bartramia longicauda*

The upland sandpiper is an obligate grassland bird species. The preferred habitat for this species includes large areas of short grass utilized for feeding that are interspersed or adjacent to areas with taller grasses used for nesting and cover. Upland sandpipers winter in South America and are only present in New York State from approximately late April to August. In New York State, these birds prefer very large, nearly bare-ground pastures and older hayfields that have been in production at least 10 years. Distribution within New York State mostly occupies prime agricultural lands of the Lake Plains in western New York, the St. Lawrence and Mohawk Valleys, and at JFK airport.

Previous surveys of nesting habitats suggest that upland sandpipers favor a level topography with a minimum of tall vegetation edges and proportionally high acreages of agricultural crops that duplicate the structure of prairie grasslands. Typical nesting cover includes idle cropland, pasture, highway edges, hayfields, and untilled crops such as clover, alfalfa or blueberries. Upland sandpipers appear to have a delicate preference between acceptable and unacceptable sites, and may be sensitive to heavy or early grazing, standing water, burning, and manuring, which may reduce or exclude nesting from fields accepted the previous year. Abandoned fields with invading shrubs and trees may sometimes exclude upland sandpipers. In upstate New York, studies have found that upland sandpipers prefer larger, older hayfields (> 10 years in production). Habitat characteristics specific to New York State include field size being greater than 74 acres, less than one percent shrub cover, 10 to 15 percent forb cover, very low litter depth, mixed vegetation height (<15 centimeters and 40+ centimeters), sparse overall vegetation density, with available perches.

NYSDEC's ERM flagged upland sandpiper for potentially being present in an area that includes the Study Area. There are no known occurrences of upland sandpiper in the Study Area, however, eBird provided a record of occurrence of upland sandpiper at the Stewart International Airport in 1977, where there are large areas of maintained grasslands. By contrast, the Study Area does not have the field size characteristic of the species (>74 acres). While there are some open fields with some very

small grassy areas interspersed throughout (totaling roughly 10 percent of the open area) the Study Area, the majority of these areas are densely covered in tall forb species and do not represent suitable habitat for upland sandpiper who prefer large, open expanses of maintained grassland habitat. Tall stands of goldenrods dominate the open field areas and trees are found scattered throughout. Historic aerial imagery (NYSGIS Clearinghouse Orthoimagery) shows the Study Area was mostly forested through 2007, and by 2009 a portion of the center of the site was cut and opened up. Therefore, it is unlikely that there are records of upland sandpiper within the Study Area itself.

Given the lack of large areas of grassland habitat onsite and relatively dense cover of old field species throughout much of the open area, it is unlikely that upland sandpiper would be present within the Study Area. Similarly, LaBella's ecologist conducted two site visits, one in August 2021 and a second in September 2021. LaBella's ecologist did not observe upland sandpiper within the Study Area. It is highly likely that any nearby occurrences of upland sandpiper are associated with the large, maintained grasslands that surround the airport to the south of the site.

Small Whorled Pogonia – *Isotria medeoloides*

Small whorled pogonia is a member of the orchid family, and gets its common name from the five to six grayish-green leaves that are displayed in a single whorl around the stem. This plant grows between 10 and 14 inches tall, and emerges from leaf litter in May and flowers by mid-June. The orchid prefers moist, but well-drained mixed-successional deciduous forests or coniferous/deciduous forests that tend to contain acidic soil and an open understory with thick leaf litter. The plant tends to favor gently sloping hills or mountains that have secondary forest regrowth or have been logged and/or disturbed in the past.

Small whorled pogonia is listed by NYSDEC as endangered, and Federally-listed as threatened. While small whorled pogonia is found in many areas along the east coast, there is currently only one known population of small whorled pogonia in New York, consisting of a handful of individual plants that is located in Schunnemunk State Park, Orange County.

There are no known records of small whorled pogonia on or in the immediate vicinity of the Study Area, as noted by the NYSDEC ERM and EAF Mapper. This species was not observed within the Study Area. The Study Area consists of open areas interspersed with trees. Small whorled pogonia prefers forests with an open understory, which is not found within the Study Area, therefore appropriate habitat for this species is not present and small whorled pogonia would not reasonably be expected within the Study Area.

Northern Long-Eared Bat – *Myotis septentrionalis*

The northern long-eared bat ("NLEB") species was relatively common in New York prior to the wide-spread fungal infection known as "white-nose syndrome" (WNS). WNS is the primary basis for the state and federal listing of this species as threatened. USFWS and NYSDEC concur that northern long-eared bat population decline is not the result of habitat loss due to tree removal.

Northern long-eared bats overwinter in hibernacula that include caves and abandoned mines. After emerging from hibernation in the spring, the northern long-eared bat will typically migrate about 40 to 50 miles to summer roost sites. Suitable summer roosting habitat typically consists of trees (dead,

dying, or alive) with loose or peeling bark. Trees such as shagbark hickory (*Carya ovata*) and black locust (*Robinia pseudoacacia*) often have loose exfoliating bark, though many other tree species can be considered suitable roosting habitat. Northern long-eared bats could also potentially use cracks or crevices in trees, and have also been known to occasionally use tree cavities. In general, suitable roost trees are over 3 inches in diameter at breast height (DBH) and include snags (dead trees/tree sections) and trees with exfoliating bark.

USFWS has mapped Orange County as being within a zone where northern long-eared bat are known to be infected by WNS or the fungus that causes WNS. Within the WNS zone, USFWS prohibits: (1) tree removal within 0.25 miles of a known northern long-eared bat hibernaculum; or (2) cutting/destruction of a known northern long eared bat maternity roost tree or of any tree within a 150-foot buffer of a known maternity tree from June 1 through July 31. To avoid other potential impacts to northern long-eared bat, tree removal is generally recommended by USFWS to occur between November 1 and March 31 of any given year.

NYSDEC imposes no restrictions on tree cutting to protect northern long-eared bat unless a project is located within five miles of a known hibernaculum or 1.5 miles or a documented summer occurrence of northern long-eared bat. Outside those areas which are regulated by NYSDEC as "occupied habitat", NYSDEC guidelines for seasonal tree removal to avoid impacts to northern long-eared bat are consistent with USFWS.

LaBella assessed the Study Area for hibernacula and potential summer roosting habitat for the northern long-eared bat, which included documenting the presence of suitable roost trees over 3 inches DBH, such as snags (dead trees/tree sections) and trees with exfoliating bark. No hibernacula were found or are known to exist in the Study Area. The majority of the trees within the Study Area are larger than 3 inches DBH, and some contain exfoliating bark and/or cavities that could potentially be utilized as roost trees by northern long-eared bats.

From our review, the nearest known northern long-eared bat hibernacula is located in the Town of Highlands, approximately 10.2 miles southeast of the Study Area. Since no hibernacula was found within the Study Area, USFWS and NYSDEC tree removal restrictions based on the distance of the trees from known northern long-eared bat hibernaculum (0.25 miles and 5 miles, respectively) would not apply.

With respect to potential summer northern long-eared bat occurrences or known maternity roost trees, LaBella found no record of summer occurrences or maternity roosting trees in the Town of Newburgh, including in the Study Area. The nearest known northern long-eared bat summer occurrence was in the Town of Cornwall, which is approximately four miles south of the Study Area. There are also no records of occurrences of northern long-eared bat on the NYSDEC EAF mapper for the Study Area. Based on LaBella's review and site visits, there is no reason to believe that restrictions by USFWS or NYSDEC due to the proximity of known northern long-eared bat maternity roosting trees or summer occurrences (150 feet and 1.5 miles, respectively) would apply to tree removal within the Study Area.

Based on the distance of known occurrences of northern long-eared bat hibernacula or maternity roosting trees from the Study Area, it is thus unlikely that any USFWS or NYSDEC restrictions to protect northern long-eared bat will apply to tree removal within the Study Area. However, since the Study Area

is identified by USFWS as being within an area where northern long-eared bat may be found, and based on known occurrences of northern long-eared bat in nearby areas as documented above, the removal of trees larger than 3 inches dbh and particularly those with exfoliating bark and/or cavities should be minimized where possible and limited to between November 1 and March 31 consistent with federal and state guidelines.

A USFWS Consistency Letter for northern long-eared bat from USFWS (July 29, 2021) for the Study Area has been obtained to show compliance under the Programmatic Biological Opinion on the USFWS regulations rule for the protection of the northern long-eared bat.

Indiana Bat - *Myotis sodalis*

The Indiana bat is listed by both USFWS and NYSDEC as an endangered species. This species hibernates during the winter in suitable hibernacula such as caves and abandoned mines. Only 17 extant hibernacula are documented in New York State according to the NYNHP. Like the northern long-eared bat and other cave-dwelling bats, the Indiana bat is also subject to WNS, and populations within New York continue to decline. Additional threats to this species include loss of summer roosting habitat, environmental toxins, and hibernacula disturbance. Critical habitat was designated for the Indiana bat in 1976; however, no designated critical habitat occurs in New York State.

This species generally hibernates from October through mid-April in New York. After emerging from hibernation in the spring, both males and females migrate to traditional summer roost sites, typically within 40 miles of the hibernacula. Males generally choose separate roost areas from the females and are known to migrate somewhat further than females. Indiana bats utilize habitats similar to northern long-eared bats for summer time maternal roosts (as described above); however, the Indiana bat could also potentially use cracks or crevices in trees, and have also been known to occasionally use tree cavities. Larger trees have been shown to be preferred over smaller trees for roosting, however Indiana bats have been observed roosting in trees that are as small as 2.5 inches DBH. Generally, Indiana bats will roost in trees that are greater than or equal to 9 inches DBH that receive a good amount of solar exposure.

The USFWS Draft Recovery Plan (2007) for Indiana bats prioritizes the protection of hibernacula for recovery of the species. NYSDEC concurs, indicating that management efforts are concentrated on protecting the hibernacula. The closest known hibernacula for Indiana bat is located in the Town of Blooming Grove in Orange County, about 11.2 miles away from the Study Area.

No Indiana bat hibernacula (such as caves or mines) was found or known to exist within the Study Area. Maternity roosting habitat for Indiana bat is similar to that of northern long-eared bat. As noted above, there is suitable bat roosting habitat found within the Study Area, consisting of trees with exfoliating bark and/or cavities that could potentially be utilized as roost trees.

Given the distance of the Study Area from the known, nearby Indiana bat hibernacula, and limited tree clearing proposed (less than 5 acres) LaBella believes that winter tree removal, between November 1 and March 31, will provide suitable mitigation to avoid potential impacts to Indiana bats and their habitat.

SUMMARY OF FINDINGS

The Study Area was reviewed for wetlands during the site visit. No watercourses or wetlands are located within the Study Area reviewed. Soils consist of silty loams with a bright matrix, and do not have any hydric indicators. Similarly, the vegetation present is comprised of upland species, and no wetland hydrology was observed.

No rare species were observed during the August and September 2021 site visit to the Study Area. The Study Area consists of an open field area interspersed with a mix of various hardwood trees and pines. Dense forbs cover the majority of the open space, though there are some pockets of homogenous grasses. These areas are small in size and do not represent large, quality areas of grassland habitat required and preferred by upland sandpiper. As such, it is unlikely that this species would be found within the Study Area and it does not appear that the Study Area contains suitable habitat. Similarly, there are no records of this species on the site, and any nearby sightings appear to be associated with the Stewart International Airport located south of the Study Area. It is unlikely that the proposed project would have an effect on upland sandpiper.

There is no appropriate habitat for small whorled pogonia within the Study Area. The successional forests with sparse understory that small whorled pogonia prefers is not present within the Study Area. Therefore, the proposed project would likely have *no effect* on small whorled pogonia.

There is no known hibernacula or maternity roosting occurrences of northern long-eared bat within the Study Area, nor any close enough to the Study Area to trigger NYSDEC or USFWS tree removal restrictions. Similarly, for Indiana bat there is no known hibernacula or maternity roosting occurrences within the Study Area, or close to the Study Area. A total of 5.3 acres of forested area is found within the Study Area. Minor tree clearing (5 acres or less) is proposed for the Study Area, and will leave hedgerows and/or forested screening buffers between the Study Area and neighboring properties. Because of the potential presence of bats within the Study Area during non-hibernating times of year, however, restricting tree removal to between November 1 and March 31 is recommended as a mitigation measure consistent with USFWS and NYSDEC guidelines for avoiding impacts to those species. The proposed Project will be dark-sky compliant. No indirect impacts to bats (such as lighting or noise) are anticipated.

If you have any questions regarding our findings, please contact us at 518-903-8386.

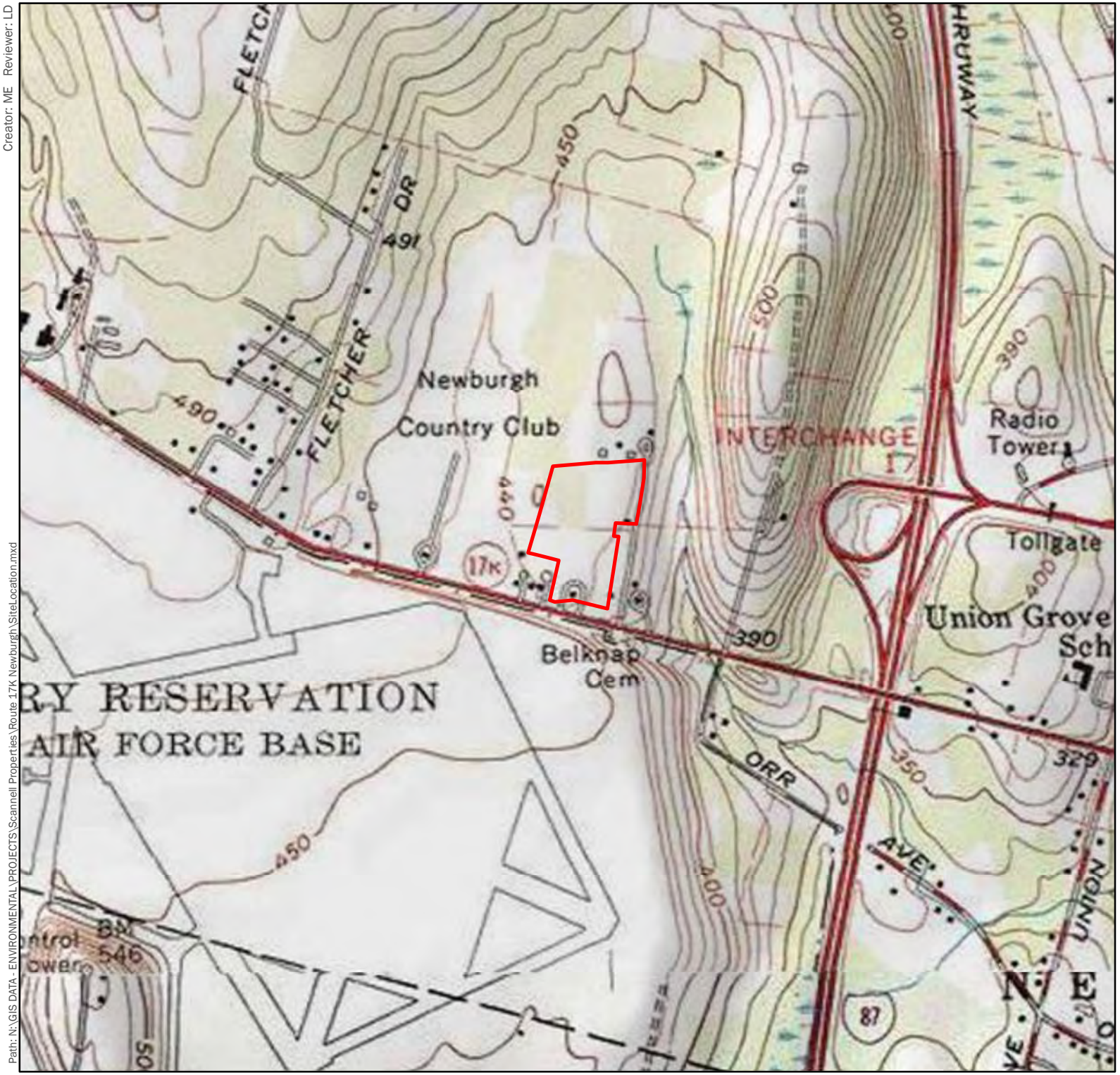
Sincerely,

LaBella Associates

Mark Kiburz, PWS
Wetland Ecologist

Meredith Ellis, CE, WPIT
Environmental Manager

Attachments



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LaBella
Powered by partnership.

Scannell Properties

124 Route 17K
Town of Newburgh
Orange County, New York

N

0 500 1,000 Feet

1 inch = 1,000 feet

Legend

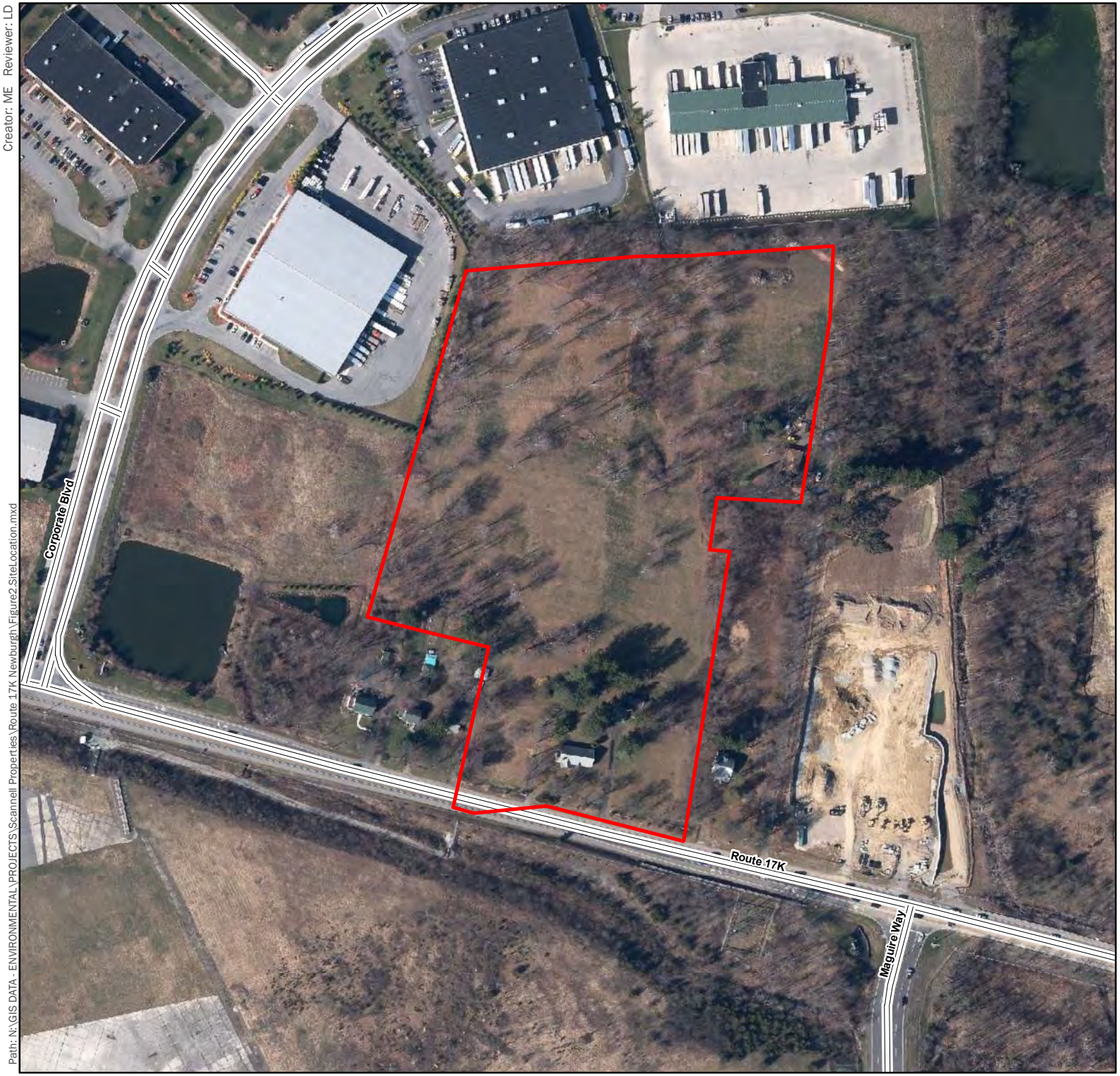
Study Area

Sources:
1. Study Area: Created by LaBella using information provided by the client based off available GIS tax parcel data.
2. Basemap: Esri USA Topo Maps (Updated: 2020) in reference to USGS Topographic Newburgh North (1957) Quadrangle.

USGS Site Location

FIGURE 1

LaBella Project No: 2212430
Date: September 2021



Creator: ME Reviewer: LD

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Scannell Properties

124 Route 17K
Town of Newburgh
Orange County, New York

N

0 125 250 Feet

1 inch = 250 feet

Legend

Study Area

Road

Sources:
1. Study Area: Created by LaBella using information provided by the client based off available GIS tax parcel data.
2. Basemap: Aerial Orthoimagery (2016) from NYSGIS Clearinghouse.

Site Location

FIGURE 2

LaBella Project No: 2212430
Date: September 2021

124 Route 17K - Wetland Delineation and Habitat Assesment

Town of Newburgh, Orange County – August 30 and September 27, 2021

View along Route 17k.

Buildings and disturbed area along Route 17k.

Open field areas adjacent to the abandoned residence.

Buildings and disturbed area along Route 17k.

Open areas within the Study Area.

Trees near the buildings in the southern half of the Study Area.

Open field areas within the Study Area.

Dense forbs in old fields within the Study Area.

Heavy forb coverage throughout fields in Study Area.

Open fields found on majority of the Study Area.

Heavy forb coverage throughout fields in Study Area.

Trees interspersed through open areas.

Typical view of open areas in the Study Area.

Typical view of open areas in the Study Area.

Typical view of open areas in the Study Area.

Small pockets of forested area.

Small pockets of forested area.

View towards the northwest towards development that borders site.

Open areas and debris within the Study Area.

Snags and dying trees (suitable bat roosting habitat).

Norway spruce located near the house in southern portion of Study Area.

Mowed edges along field dominated by old field species.

Fields dominated by old field species.

Small pockets of grass interspersed in field otherwise dominated by old field species.

Small pockets of forested areas within the Study Area.

Debris found within the Study Area.

Heavy forb coverage and tall goldenrods found throughout open areas.

Heavy forb coverage and tall goldenrods found throughout open areas.

Table 1. Species observed within the Study Area.

Scientific Name	Common Name
Acer rubrum	red maple
Acer saccharum	sugar maple
Alliaria petiolata	garlic mustard
Ambrosia artemisiifolia	ragweed
Andropgoon sp.	bluestem
Asclepias syriaca	milkweed
Cirsium discolor	field thistle
Daucus carota	Queen Anne's ace
Juglans nigra	black walnut
Lotus corniculatus	birds foot trefoil
Pinus strobus	white pine
Pinus sylvestris	Scotch pine
Quercus alba	white oak
Quercus velutina	black oak
Robinia pseudoacacia	black locust
Rosa multiflora	mutliflora rose
Rubus sp.	dewberry
Rubus sp.	blackberry
Solidago gigantea	late goldenrod
Solidago spp.	goldenrods
Solidago squarrosa	stout goldenrod
Toxicodendron radicans	poison ivy
Trifolium pratense	red clover

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
http://www.fws.gov/northeast/nyfo/es/section7.htm

In Reply Refer To: September 28, 2021
Consultation Code: 05E1NY00-2021-SLI-4330
Event Code: 05E1NY00-2021-E-13671
Project Name: 124 Route 17K Newburgh

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: http://www.fws.gov/northeast/nyfo/es/section7.htm

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the Services wind

energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

Project Summary

Consultation Code: 05E1NY00-2021-SLI-4330
Event Code: Some(05E1NY00-2021-E-13671)
Project Name: 124 Route 17K Newburgh
Project Type: DEVELOPMENT
Project Description: Proposed future development on the parcel.
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.5089308,-74.08393631537558,14z

Counties: Orange County, New York

Endangered Species Act Species

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Small Whorled Pogonia *Isotria medeoloides* Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
http://www.fws.gov/northeast/nyfo/es/section7.htm

IPaC Record Locator: 246-106096870 September 28, 2021

Subject: Consistency letter for the '124 Route 17K Newburgh' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Meredith Ellis:

The U.S. Fish and Wildlife Service (Service) received on September 28, 2021 your effects determination for the '124 Route 17K Newburgh' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take"[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Candidate

- Small Whorled Pogonia *Isotria medeoloides* Threatened

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

---

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

124 Route 17K Newburgh

2. Description

The following description was provided for the project '124 Route 17K Newburgh':

> Proposed future development on the parcel.

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.5089308,-74.08393631537558,14z

Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule
This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

   No

2. Will your activity purposefully **Take** northern long-eared bats?

   No

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

   Automatically answered
   No

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

   Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

   Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

   No

6. Will the action involve Tree Removal?

   Yes

7. Will the action only remove hazardous trees for the protection of human life or property?

   No

8. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

   No

9. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

   No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

3

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

Natural Landmarks

Mark Willson

From: Ellis, Meredith <MEllis@LaBellaPC.com>
Sent: Thursday, January 20, 2022 3:11 PM
To: Mark Willson
Cc: Zachary Zweifler
Subject: FW: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY
Attachments: 2021-11-30 Preliminary Site Plans.pdf

Hi Mark,

Please see the below email from Lisa Masi at NYSDEC, with concurrence on our findings. Please let me know if you have any questions.

Thank you!

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Masi, Lisa M (DEC) <lisa.masi@dec.ny.gov>
Sent: Thursday, January 20, 2022 2:36 PM
To: Ellis, Meredith <MEllis@LaBellaPC.com>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Hello Meredith,
I apologize for the delay in response on your request.

Region 3 Wildlife staff have reviewed the project information provided for the above referenced project, Newburgh Commerce Center located at 124 Route 17K in Newburgh, Orange County, NY, tax parcel 95-1-58. According to the submitted materials, the project consists of development of a commercial facility on a 15 acre property. The project proposes to use the time of year restriction on tree removal to avoid impacts to Indiana bats when cutting ~5.3 acres (145) trees. Project plans (plan sheet CD-101 attached) include plan notes with the appropriate time of year restriction.

Based on this submitted information, the Department has determined that the proposed activity is not likely to result in the incidental taking of this listed species and an Article 11 Endangered and Threatened Species Incidental Take Permit is not required. Previous review covered Upland Sandpiper and determined, based on location and habitat, that the species will not be impacted by the project.

If significant modifications are proposed to the above referenced scope of work, please contact this office for additional review.

This determination will remain valid for one year. If you have any comments or questions, please feel free to contact me at lisa.masi@dec.ny.gov, or 845-256-2257.

This letter does not cover any other Department Jurisdictions such as Article 15 stream crossing permits or Article 24 Wetland permits. For additional information on other Department Jurisdictions, please reach out to our Regional Permits Administrator or Regional Program staff in the appropriate office with specific questions related to those jurisdictions.

Lisa

Lisa Masi

Senior Wildlife Biologist, Division of Fish and Wildlife

New York State Department of Environmental Conservation
21 South Putt Corners Road, New Paltz, NY 12561
P: (845) 256-2257 | F: (845) 255-4659 | lisa.masi@dec.ny.gov

www.dec.ny.gov |

From: Ellis, Meredith <MEllis@LaBellaPC.com>
Sent: Wednesday, January 19, 2022 2:52 PM
To: Masi, Lisa M (DEC) <lisa.masi@dec.ny.gov>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good afternoon Lisa,

I wanted to follow up with you regarding your review for this project. Please let me know if you have any questions.

Thank you!

Meredith

Meredith Ellis, CE, WPIT

LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Ellis, Meredith
Sent: Wednesday, January 5, 2022 9:25 AM
To: 'Masi, Lisa M (DEC)' <lisa.masi@dec.ny.gov>
Cc: 'Booth-Binczik, Susan D (DEC)' <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good morning Lisa,

Thank you again for your review and comments. I attached the preliminary site plans for the site. Please refer to Sheet CD-101 which includes more specific information on tree clearing proposed for the site. Please also see the note in the top right that indicates that tree clearing will be completed during the appropriate seasonal window in the winter to avoid impacts to the Indiana bat. While tree clearing will be across roughly 5.3 acres, please note that the trees are sparse through this area and overall will involve the removal of 145 trees.

Please let us know if you have any other questions or need any additional information for your review.

Best,

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Ellis, Meredith
Sent: Wednesday, December 15, 2021 8:07 PM
To: 'Masi, Lisa M (DEC)' <lisa.masi@dec.ny.gov>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: RE: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good evening Lisa,

Thank you for your review and comments. I'll coordinate with the project applicant and get back to you with additional information.

Best,

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**

From: Masi, Lisa M (DEC) [mailto:lisa.masi@dec.ny.gov]
Sent: Wednesday, December 15, 2021 3:41 PM
To: Ellis, Meredith <MEllis@LaBellaPC.com>
Cc: Booth-Binczik, Susan D (DEC) <Susan.Booth-Binczik@dec.ny.gov>
Subject: [Ext] RE: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Hello Meredith,
I apologize for the delay in review of this request. While I can concur with the general findings of your report related to habitat and protective measure for the two state listed species found on or near the site, without any details about the proposed project, or site plans with appropriate plan notes applied, we can not provide a formal determination on need for an endangered or threatened species permit at this time. Please provide additional project detail for our review.

Detailed Species comments:

Indiana bat:
Indiana bats are found within 2.5 miles of the project location. Tree removal associated with this project should occur within the appropriate time of the year work window, October 1 through March 31, to avoid direct impacts to individuals and the need for an Article 11 take permit. A time of year restriction on tree removal is mentioned in the report, but not provided as plan notes on project plans. The report mentioned 5.3 acres of tree removal on the 15 acre property, but no project specifics are provided. If more than 10 acres of tree removal is required, a review of impacts to habitat including an analysis of change in percent forest cover and indirect impacts to the species related to noise, lighting, dust, chemical use, etc. as specified in the attached USFWS Indiana Bat fact sheet is needed for this site. If the impacts to habitat or indirect impacts to the species are adverse, or impair and essential behavior, an Article 11 permit would be needed.

Upland Sandpiper:
Upland Sandpiper records are found near the project site. Based on the size of the project location (15 acres) and the information provided on habitat, this are is not likely to be habitat for this species. Based on the location and distance to the documented records (on Stewart Airport), the project is not likely to impact the species.

In order for the Department to make a Determination on take and the need for Article 11 Part 182 permitting, please respond to this email with additional project information, including any project plans, species-specific surveys, impact assessments, and proposed take avoidance measures. Please also include any applicable species conservation measures as project plan notes.

If you have any questions, please contact me.

Please note a project sponsor may not commence site preparation, including tree clearing, until the provisions of SEQR are complied with and all necessary permits issued for the proposed project.

Please note that the absence of data does not necessarily mean that rare or other state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Thank you,
Lisa

From: Ellis, Meredith <MEllis@LaBellaPC.com>
Sent: Wednesday, November 3, 2021 3:48 PM
To: dec.sm.Wildlife.R3 <Wildlife.R3@dec.ny.gov>
Subject: NYSDEC Species Coordination- Project Review for Route 17K Town of Newburgh, Orange County NY

Good afternoon,

LaBella has been retained by Scannell Properties to initiate coordination with NYSDEC for a project site located in the Town of Newburgh, Orange County, New York. Scannell plans to develop the property, and LaBella completed a habitat assessment for species flagged for the site.

The habitat assessment report prepared for the Study Area is attached, along with mapping and photographs of the site. We are requesting NYSDEC to please review and provide any comments on concurrence of our findings. Please let me know if you need any additional information or if you have any questions.

Thank you for your time and review,

Meredith

Meredith Ellis, CE, WPIT
LaBella Associates | Permitting & Compliance Manager

518-903-8386 **direct**
518-439-8235 **office**
518-791-1106 **cell**
4 British American Boulevard
Latham, NY 12110
labellapc.com

United States Department of the Interior

FISH AND WILDLIFE SERVICE
3817 Luker Road
Cortland, New York 13045

November 23, 2021

Ms. Meredith Ellis, CE, WPIT
Environmental Manager
LaBella Associates
4 British American Blvd.
Latham, NY 12110

Dear Ms. McCormick:

This letter responds to your November 4, 2021, letter requesting U.S. Fish and Wildlife Service (Service) review of the proposed development located at 124 New York State Route 17K in the Town of Newburgh, Orange County, New York. The proposed project consists of the construction of a 132,000 square foot commercial building within a 14.15-acre parcel.

We appreciate the opportunity to provide the following comments pertaining to threatened or endangered species under our jurisdiction pursuant to the Endangered Species Act (ESA)(87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*). We understand that there is no federal nexus (*i.e.*, funding, permitting) associated with this and no wetlands have been identified within the project area.

LaBella Associates has determined that the proposed project will have no adverse impact on the federally listed Indiana bat (*Myotis sodalis*; Endangered). The Service agrees that "take"[1] of this species is not reasonably certain to occur given the description of the proposed tree removal, landscape setting, and conservation measures (*e.g.*, conducting tree removal between November 1 and March 31, when bats are in hibernation).

LaBella Associates also determined that the proposed project will have no adverse impact on the federally listed small-whorled pogonia (*Isotria medeoloides*; Threatened) given that no suitable habitat is present within the proposed project area for this species. The Service agrees that take of this species is not reasonably certain to occur.

The project is also within the range of the federally listed northern long-eared bat (*Myotis septentrionalis*; Threatened). Given the project description and location (no known roosts within 150 feet or hibernacula within 0.25 mile) of the proposed project, any take of northern long-

[1] Take is defined in section 3 of the ESA as harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or to attempt to engage in any such conduct.

eared bats that may occur incidental to this project is not prohibited under the final 4(d) rule per the Service's verification letter dated September 28, 2021.

No further coordination with the Service is required pursuant to the ESA for this project. Should project plans change, or if additional information on listed or proposed species or critical habitat becomes available, this determination may be reconsidered. The most recent compilation of federally listed and proposed endangered and threatened species in New York is available for your information. Until the proposed project is complete, we recommend that you check our website regularly to ensure that listed species presence/absence information for the proposed project is current.*

This letter does not exempt the project proponent from obtaining approvals or permits that may be required by State or Federal agencies. Further, this letter does not convey any authorization for take under the ESA or any other authorities. Any new information regarding the proposed project and its potential to impact listed species should be coordinated with both this office and with the New York State Department of Environmental Conservation, New Paltz Office.

Thank you for coordinating with us. If you require additional information or assistance, please contact Noelle Rayman-Metcalf at noelle_rayman@fws.gov. Future correspondence with us on this project should reference project file 21TA4330.

Sincerely,

DAVID STILWELL

Digitally signed by DAVID STILWELL
Date: 2021.11.29 13:16:03 -05'00'

David A. Stilwell
Field Supervisor

*Additional information referred to above may be found on our website at: http://www.fws.gov/northeast/nyfo/es/section7.htm

cc: NYSDEC, New Paltz, NY (Attn: Env. Permits)

APPENDIX 9

Phase I
Environmental Site Assessment

Location:

124 Route 17K
Newburgh, New York 12550

Prepared for:

Scannell Properties
294 Grove Lane East, Suite 140
Wayzata, Minnesota 55391

LaBella Project No. 2213006

September 30, 2021

LaBella
Powered by partnership.

5 McCrea Hill Road | Ballston Spa, New York 12020 | p 518-885-5383 | f 518-885-5385

Table of Contents

Table of Appendices

LaBella Associates, D.P.C. (LaBella) has been contracted by Scannell Properties to perform an All Appropriate Inquiry (AAI) Phase I Environmental Site Assessment (ESA) report for 124 Route 17K, Town of Newburgh, Orange County, New York, 12550, (Tax ID #: 95-1-58) hereinafter referred to as the "Site".

The findings of this report are based upon a preliminary assessment of the condition of the Site within the Scope of Work and objective described below as of the date of our Site observations and documentation review. This assessment was prepared according to the American Society for Testing and Materials (ASTM) Standard Practice E1527-13 to satisfy the due diligence requirements set for Scannell Properties. The information contained in this report is considered privileged and confidential and is intended solely for the use of Scannell Properties, as it applies to the Site.

1.0 EXECUTIVE SUMMARY

1.1 Report Findings

Based on the results of this assessment, no apparent Recognized Environmental Conditions (RECs) have been identified in association with the Site at this time.

1.2 Additional Findings

Based on the results of this assessment, no apparent Historical Recognized Environmental Conditions (HRECs), Controlled Recognized Environmental Conditions (CRECs), or de minimis conditions (or business environmental risks) have been identified in association with the Site at this time.

1.3 Conclusions

Based on the findings of this assessment, no further investigation appears warranted at this time.

1.4 Data Failures and Data Gaps

1.4.1 Data Failures

ASTM E1527-13 defines a data failure as a failure to achieve the historical research objectives of AAI even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. Specifically, the historical research objectives include identifying all obvious uses of the Site from the present, back to the Site's first developed use, or back to 1940, whichever is earlier. A data failure was encountered within the scope of this assessment. Specifically, historical uses of the Site were identified back to 1903. Historical sources in five year increments back to 1903 were not available. The lack of identification of the Site prior to its first developed use does not appear to

represent a significant data failure based on the use of the Site and surrounding areas in the late 1800s as primarily residential in nature.

1.4.2 Data Gaps

ASTM E1527-13 defines a data gap as a lack of or an inability to obtain information required by this practice despite *good faith* efforts by the *Environmental Professional* to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance, interviews, data failure, or lack of a User Questionnaire. Data gaps were encountered within the Scope of Work of this assessment. The first data gap includes the data failure discussed above. This data gap does not appear significant. The second data gap includes the lack of complete Freedom of Information Law (FOIL) response from the Town of Newburgh Orange County Department of Health. The receipt of relevant environmental information as a result of FOIL requests has the ability to change the Findings and Conclusions of this report. However, it should be noted that the review of standard State and Federal regulatory database listings during the course of this Phase I ESA did not identify environmental concerns relative to the Site.

2.0 INTRODUCTION

2.1 Purpose

This investigation was requested to identify, to the extent feasible, Recognized Environmental Conditions in connection with the Site, including the identification of conditions indicative of releases and threatened releases of hazardous substances on, or in the vicinity of, the Site. This AAI Phase I ESA report was conducted in general conformance with the Scope and Limitations of ASTM Standard Practice E1527-13.

The performance of ASTM Standard Practice E1527-13 is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs (defined below) and the potential liability for contamination to be present in connection with the Site recognizing reasonable limits of time and cost. It is also intended to add protection from Comprehensive Environmental Response Compensation and Liability Act (CERCLA) liability for innocent landowner defense, bona fide prospective purchaser, contiguous property owners and grantors who meet certain statutory requirements.

The objective of this AAI Phase I ESA was to determine the following, using our professional judgment, by means of the Scope of Work hereafter described.

1. A general description of the Site.
2. The current and historical use of the Site and adjacent properties.
3. Whether RECs exist or have the potential to exist at the Site.

4. Whether Site conditions suggest further evaluation based on the presence or probable presence of such RECs.
5. Provide information which may assist Scannell Properties in evaluating the fair market value of the Site.

The term "Recognized Environmental Condition" is defined by ASTM as the presence or likely presence of any hazardous substances (as currently defined by the CERCLA including pollutants and contaminants) or petroleum products (excluded from the definition of hazardous substance and controlled substances; or the presence of petroleum products as defined by the Resource Conservation and Recovery Act, the Oil Pollution Act of 1990, and the Clean Water Act) in, on, or at a property due to release to the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment.

The term "Historical Recognized Environmental Condition" is defined by ASTM as a past release of any hazardous substance or petroleum product that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

The term "Controlled Recognized Environmental Condition" is defined by ASTM as resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

The term "REC" is not intended to include "de minimis" conditions, which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not RECs or CRECs.

The term "data gap" means lack or inability to obtain information required by the standards and practices as defined in ASTM Standard Practice E1527-13 despite good faith efforts by the Environmental Professional and Environmental Analyst.

The term "Environmental Professional" is defined by ASTM as a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgement to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors defined in the ASTM Standard Practice E1527-13 and §312.20 of 40 CFR §312.

2.2 Scope of Work

The major components of an AAI Phase I ESA report in conformance with ASTM Standard Practice E1527-13 include a visual inspection of the Site and adjacent properties; interviews and review of

documents from past and present owners, occupants, managers, representatives and neighbors to the extent necessary; interviews with tribal and local government agency representatives; review of tribal, local, and state records relative to the Site; and a review of tribal, local, state, and federal standard environmental record sources relative to the Site. The findings and conclusions presented in this report are based on information gathered and limitations set forth in this report.

The Scope of Work performed in this assessment is limited to the areas described as follows:

1. Interview with Mr. Russell Altman, Owner, to evaluate for potential environmental contamination to be present at the Site. Mr. Altman has reportedly been associated with the Site for approximately 14 years.
2. Interviews with and/or record reviews of each of the following to obtain information directly regarding environmental concerns at, or in the immediate vicinity of, the Site, which is available directly by file or through general knowledge of the individual being interviewed. Information sources include:
    a. United States Environmental Protection Agency (USEPA)
    b. New York State Department of Environmental Conservation (NYSDEC), Region 3
    c. Orange County Department of Health (OCDOH)
    d. Orange County online resources
    e. Newburgh municipal offices
3. Review of the following federal, state, and local environmental records and databases to aid in the identification of conditions at or related to the Site and properties adjacent to, or in the immediate vicinity of, the Site, including:
    a. USEPA National Priority List (NPL) – 1.0 mile
    b. USEPA Delisted NPL – 0.5 mile
    c. USEPA Superfund Enterprise Management System (SEMS) and SEMS Archived Sites – 0.5 mile
    d. USEPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) – 0.5 mile
    e. USEPA CERCLIS No Further Remedial Action Planned (NFRAP) – 0.5 mile
    f. USEPA Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS) – 1.0 mile
    g. USEPA RCRA non-CORRACTS Treatment, Storage, and Disposal Facility List (TSD) Facilities – 0.5 mile
    h. USEPA RCRA Large Quantity Generator (LQG), Small Quantity Generator (SQG), and Very Small Quantity Generator (VSQG) Listings – Site and adjacent properties
    i. National Response Center (NRC) Emergency Response and Notification System Listing (ERNS) – Site only
    j. Federal, state, and local Institutional Controls/Engineering Controls and Land Use Restrictions – Site only
    k. NYSDEC Registry of Inactive Hazardous Waste Disposal Sites (SHWS) (state equivalent of NPL Sites) – 1.0 mile

l. NYSDEC Registry of Brownfield Cleanup Program (BROWNFIELDS), Voluntary Cleanup Program (VCP), Environmental Restoration Program (ERP) Sites – 0.5 miles
m. NYSDEC Hazardous Substance Waste Disposal Sites (HSWDS) (state equivalent of SEMS Sites) – 0.5 mile
n. NYSDEC Solid Waste Facilities and Landfills (SWF/LF) – 0.5 mile
o. NYSDEC Inventory of Hazardous Substance Waste Disposal Sites – 0.5 mile
p. NYSDEC Listing of Spills and Leaking Storage Tanks (LST) – 0.5 miles
q. NYSDEC Listing of Registered Petroleum Bulk Storage Facilities (PBS), Chemical Bulk Storage Facilities (CBS), and Major Oil Storage Facilities (MOSF) – Site and adjacent properties
r. United States Geological Survey (USGS) Topographic Quadrangles Map Cornwall-on-Hudson and Newburgh, New York
s. United States Department of Agriculture (USDA) Orange County Soil Survey obtained from the Natural Resource Conservation Service (NRCS) website
t. Property survey map
u. Sanborn Fire Insurance maps
v. Aerial photographs of the area
w. Historical topographic maps
x. Local street directories

4. Site visit on September 16, 2021 by Sierra Vaverchak of LaBella to photograph the Site and to visually identify areas of concern as defined in the agreement.
5. Completion of LaBella's AAI Phase I ESA Site Reconnaissance Report.
6. Completion of a User Questionnaire by Mr. Zachary Zweifler, of Scannell Properties.

3.0 SITE DESCRIPTION

The Site consists of one tax parcel (Tax ID #: 95-1-58) totaling 14.90 acres and is located north of Route 17K/Newburgh Cocheton Turnpike. The Site is developed with one single-story 2,095 square foot residential structure (Site Building 1) and one single-story 484 square foot outbuilding (Site Building 2) that were constructed in 1947 and are currently vacant. The exterior of the Site includes maintained landscaped areas and an asphalt-paved driveway. In addition, the north portion of the Site consists of undeveloped fallow land. The Site is located in an urban area; surrounding properties include commercial, residential, and undeveloped land.

3.1 Site Location and Description

The parcel that comprises the Site is outlined in the table below. Property boundaries for the purpose of this assessment were obtained from the Orange County GIS website. A map depicting the tax parcel that comprises the Site is located in the Figures Appendix of this report.

Property Summary

Property Acreage (approximate):	14.90
Tax ID:	95-1-58
Present Ownership:	Red Oak SOS, LLC
Property Use Code:	210 - One family year-round residence
Current Site Use:	Vacant
Public Thoroughfares and Access/Egress:	North of Route 17k/Newburgh Cocheton Turnpike
Exterior Areas:	Asphalt-paved parking areas and fallow land

Site Vicinity Characteristics

Surrounding Areas	Suburban
Topography	Slightly sloping to the south
Nearest Water Body	Quassaic Creek and tributaries located approximately 700 feet east of the Site
Apparent Groundwater Flow	East southeast
Soil Characteristics	Alden silt loam, very poorly drained. These soils have moderately high runoff potential when drained and high runoff potential when undrained. Bath-Nassau channery silt loams, 3 to 8 percent slopes, well drained. Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. Mardin gravelly silt loam, 3 to 8 percent slopes, moderately well drained. Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Refer to Figure 1 for a copy of the Site Location Map. A copy of the soil map is included in the Environmental Risk Information Services (ERIS) Physical Setting Report (PSR) included in Appendix 6. Groundwater flow was determined based on interpretation of the USGS topographic map.

Building Summary

Building Name:	Residential dwelling	Garage
Square Footage	2,095	484
Foundation Type:	Concrete	Concrete
Number of Stories:	One	One

Construction Date:	1947	1947
Current Use:	Vacant	Vacant
Hereinafter referred to as:	Site Building 1	Site Building 2

Utilities

Heating Source:	Fuel oil stored in an aboveground storage tank (AST)
Potable Water Source:	Private well
Sanitary Wastewater Disposal:	Private septic system
Non-Sanitary Wastewater Disposal:	Not applicable

3.2 Current Use of the Adjacent Properties

Direction	Occupant (address)
North	NFI Warehouse (800 Corporate Blvd) Trucking distribution facility (1000 Corporate Blvd)
East	Residential (122 Route 17K)
South	Stewart Air National Guard (173 McGuire Way)
West	Residential (126-130 Route 17K)

Refer to Section 5.1.3 for additional information regarding the north and south adjacent properties.

4.0 USER PROVIDED INFORMATION

In accordance with the ASTM E1527-13, a “User” is defined as the party seeking to complete an environmental site assessment of the property. If the user is aware of any specialized knowledge or experience that is material to RECs in connection with the Site, it is the user's responsibility to communicate any information based on such specialized knowledge or experience to the Environmental Professional. The User Questionnaire was completed by Mark Wilson, of Scannell Properties. A copy of the User Questionnaire is included in Appendix 7.

ASTM Standard Practice E1527-13 User Questionnaire Questions	Reported by User
Land Title Records	
Are land title records available for review?	Land title records were provided to LaBella for review (refer to Section 5.3.6 for additional information).
Environmental Liens or Activity Use Limitations	
Did a search of *recorded land title records* identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?	The User did not report environmental liens currently recorded against or relating to the property. In addition, the User did not report any activity or use limitations currently recorded against or relating to the property.
Did a search of *recorded land title records* identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law?	The User is not aware of any AULs, such as engineering controls, land use restriction, or institutional controls that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state, or local law.
Specialized Knowledge	
Does the *User* of this *ESA* have any specialized knowledge or experience related to the *property* or nearby properties? For example, is the *User* involved in the same line of business as the current or former *occupants* of the *property* or an *adjacent property* so that the *User* would have specialized knowledge of the chemicals and processes used by this type of business?	The User does not have any specialized knowledge or experiences related to the property or nearby properties.
Commonly Known or Reasonably Ascertainable Information	
Is the *User* aware of commonly known or *reasonably ascertainable* information about the *property* that would help identify conditions indicative of releases or threatened releases?	The User is unaware of commonly known or reasonably ascertainable information about the property that would help to identify conditions indicative of releases or threatened releases.
Based on the *User's* knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the *property*?	Based on the User's knowledge and experiences related to the Site, the User of this ESA is not aware of obvious indicators that point to the presence or likely presence of contamination at the Site.
Valuation Reduction for Environmental Issues	
Does the purchase price being paid for the *property* reasonably reflect the fair market value of the *property*?	The User did not report a below fair market value.
If the *User* concluded that there is a difference, has the *User* considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?	The User did not report a below fair market value.

4.1 Reason for Performing Phase I ESA

According to ASTM E1527-13, either the User shall make known to the Environmental Professional the reason why the User wants to have the Phase I ESA performed or, if the User does not identify the purpose of the Phase I ESA, the Environmental Professional shall assume the purpose is to qualify for the Landowner Liability Protections under the Brownfields Amendments. The User indicated that the Phase I ESA is being conducted as part of a potential purchase.

5.0 RECORDS REVIEW

5.1 Regulatory Report Summary

ERIS, an independent research firm, was contracted to perform an ASTM compliant regulatory records search. The ERIS report is included in Appendix 1. Below is summary of the positive responses to the regulatory database search.

Regulatory Report Summary

Database	Search Radius	Target Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
AST	0.25	0	2	-	-	-	2
FUDS	1.0	0	0	0	0	1	1
GEN MANIFEST	0.125	0	2	-	-	-	2
HMIRS	0.125	0	7	-	-	-	7
LANDFILL INACTIVE	0.5	0	0	0	1	-	1
LST	0.5	0	0	0	5	-	5
MOSF	0.5	0	0	0	1	-	1
NY SPILLS	0.125	0	21	-	-	-	21
PFAS	0.5	0	0	0	3	-	3
RCRA TSD	0.5	0	0	0	1	-	1
RECYCLING	0.5	0	0	0	1	-	1
SHWS	1.0	0	0	0	2	2	4
SWF/LF	0.5	0	0	2	2	-	4
TIER 2	0.125	0	2	-	-	-	2
UST	0.25	0	1	0	-	-	1

Refer to Section 5.1.3 for additional details pertaining to adjacent listings.

5.1.1 ASTM Standard Regulatory Database Listings

Surrounding Properties Summary

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
UST(3-601547)	A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)	1000 CORPORATE BOULEVARD, NEWBURGH, NY, 12550	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
HMIRS		1000 CORPORATE BOULEARD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
HMIRS		1000 CORPORATE BOULEVARD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
HMIRS		1000 CORPORATE BLVD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
AST(3-601547)	A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)	1000 CORPORATE BOULEVARD, NEWBURGH, NY, 12550	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
NY SPILLS(1501206)	DUIE PYLE	1000 CORPORATE BOULEVARD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
NY SPILLS(1809138)	NEW PENN EXPRESS TRUCKING FACILITY	1000 CORPORATE BLVD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
NY SPILLS(1903998)	DUIE PYLE	1000 CORPORATE BLVD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
HMIRS		1000 CORPORATE BOULEARD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
HMIRS		1000 Corporate Drive, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
HMIRS		1000 CORPORATE BLVD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
HMIRS		1000 CORPORATE BOULEVARD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
NY SPILLS(2007739)	PUNCTURED DRUM	1000 CORPORATE BLVD, NEWBURGH, NY,	0.04/NNE	5.0	Adjacent North Northeast - See Section 5.1.3 below.
TIER 2	Mondelez Global LLC - Newburgh	800 Corporate Boulevard, Newburgh, NY, 12550	0.05/NNW	3.0	Adjacent North Northwest - See Section 5.1.3 below.
NY SPILLS(9904441)	MAPLE LEAF OFFICE BLDG	114 17K, NEWBURGH, NY,	0.07/SE	-38.0	This listing does not appear to be a REC based on the closed status by the NYSDEC.
NY SPILLS(0200092)	STEWART AIR BASE	1 MILITIA WY, NEWBURGH, NY,	0.08/SE	-42.0	Adjacent Southeast - See Section 5.1.3 below.
NY SPILLS(9710600)	STEWART AIR BASE	1 MILTIA WY, NEWBURGH, NY,	0.08/SE	-42.0	Adjacent Southeast - See Section 5.1.3 below.
NY SPILLS(9602070)	STEWART AIR BASE	1 MALITIA WAY, NEWBURGH, NY,	0.08/SE	-42.0	Adjacent Southeast - See Section 5.1.3 below.
NY SPILLS(9710598)	STEWART AIR BASE	1 MILITIA WY, NEWBURGH, NY,	0.08/SE	-42.0	Adjacent Southeast - See Section 5.1.3 below.

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
NY SPILLS(0312566)	VEHICLE MAINT. 105TH AIRL	1 MALITIA WAY, NEWBURGH, NY,	0.08/SE	-42.0	Adjacent Southeast - See Section 5.1.3 below.
GEN MANIFEST(NYP 981183333)	NY AIR NATIONAL GUARD 105TH	ONE MILITIA WAY, NEWBURGH, NY, 12550	0.08/SE	-42.0	Adjacent Southeast - See Section 5.1.3 below.
LST (9109018 - closed)	Stewart Airport	ONE MILITIA WAY, NEWBURGH, NY, 12550	0.08/SE	-42.0	Adjacent Southeast - See Section 5.1.3 below.
NY SPILLS(9814864)	CNS GROCERY WHOLESALERS	1800 CORPORATE BLVD, NEWBURGH, NY,	0.10/N	8.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(0310753)	CORPORATE COMPLEX	1500 CORPORATE BLVD., NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(9402012)	ACROSS FROM CALDOR DIST.	1500 CORPORATE BLVD., NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(0409393)	PARKING LOT	1500 CORPORATE BLVD., NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(1411831)	C&S GROCERS	1500 CORRPORT BLVD, NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(1700129)	STORM DRAIN	1500 CORP DRIVE, NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
NY SPILLS(1708763)	ROADWAY	1500 CORP. BLVD, NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(1710325)	COMMERCIAL CS GROCERY	1500 CORPORATE BLVD, NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(2001144)	BUSINESS LOCATION	1500 CORPORATE BLVD, NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(2001137)	WESTERN EXPRESS TRUCKING	1500 CORPORATE BLVD, NEWBURGH, NY,	0.10/NNW	1.0	This listing does not appear to be a REC based on distance from the Site.
NY SPILLS(1304480)	BUSINESS	2500 CORPORATE BOULEVARD, NEWBURGH, NY,	0.12/N	6.0	This listing does not appear to be a REC based on distance from the Site.
SWF/ LF([36M04])	Newburgh Recycling Center	Rt 17K & Orr Ave., Newburgh, NY, 0	0.17/ESE	-55.0	This listing does not appear to be a REC based on distance from the Site.
SWF/ LF([36M04])	Newburgh Recycling Center Rte 17 & Orr	Route 17K & Orr Avenue, Newburgh, NY, 12550	0.17/ESE	-55.0	This listing does not appear to be a REC based on distance from the Site.
LST(0706135)	ON ROADWAY	9 ORR AVE, NEWBURGH, NY,	0.28/SE	-82.0	This listing does not appear to be a REC based on distance from the Site.

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
SWF/LF([36T01])	Orange County Transfer Station #2 (Newburgh)	NYS Rt 17K 9 Orr Road, Newburgh, NY, 12550	0.28/SE	-82.0	This listing does not appear to be a REC based on distance from the Site.
SWF/ LF([36T09])	Orange County Transfer Station #2 (Newburgh CDA)	9 Orr Avenue, Newburgh, NY, 12550	0.28/SE	-82.0	This listing does not appear to be a REC based on distance from the Site.
RECYCLING	ORANGE COUNTY TRANSFER STATION #2 (NEWBURGH CDA)	9 ORR AVENUE, NEWBURGH, NY, 12550	0.28/SE	-82.0	This listing does not appear to be a REC based on distance from the Site.
LST(0200594)	STEWART AIR BASE	1 MILITIA WAY, NEWBURGH, NY,	0.33/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
LST(9011417)	NYANG STEWART ANG BASE	1 MILITIA WAY, NEWBURGH, NY,	0.33/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
LST(0506139)	STEWART AIR NATIONAL GUARD BASE	1 MILITIA WAY, NEWBURGH, NY,	0.33/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
MOSF(3-2800)	STEWART AIR NATIONAL GUARD BASE	ONE MAGUIRE WAY, NEWBURGH, NY, 12550-5075	0.38/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
SHWS(336022)	Stewart ANG Base Pesticide Disposal Area	1 Maguire Way, Newburgh, NY, 12550	0.38/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
SHWS(336089)	Stewart ANG Base Site	1 Maguire Way, Newburgh, NY, 12550	0.38/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
PFAS	Stewart Air National Guard Base 105AW/EM	1 Maguire Way, Newburgh, NY,	0.38/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
LANDFILL INACTIVE	Stewart Air National Guard	1 Maguire Way, Newburgh, NY,	0.38/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
RCRA TSD	STEWART AIR NATIONAL GUARD BASE	1 MAGUIRE WY, NEWBURGH, NY, 12550	0.38/S	-1.0	Adjacent Southeast - See Section 5.1.3 below.
PFAS	Air Traffic Control Tower	2 Express Dr, Newburgh, NY,	0.48/W	39.0	Adjacent Southeast - See Section 5.1.3 below.
PFAS	American Express Aviation	1 Express Dr, Newburgh, NY,	0.50/W	36.0	Adjacent Southeast - See Section 5.1.3 below.
FUDS	STEWART AFB	, NEWBURGH, NY,	0.77/WSW	18.0	Adjacent Southeast - See Section 5.1.3 below.
SHWS(58345)	New Windsor Town Landfill	Silver Stream Road, New Windsor, NY, 12550	0.91/SSE	-83.0	This listing does not appear to be a REC based on distance from the Site.
SHWS(336019)	New Windsor Town Landfill	Silver Stream Road, New Windsor, NY, 12550	0.91/SSE	-83.0	This listing does not appear to be a REC based on distance from the Site.
SHWS(336088)	Stewart International Airport Site	1180 1st Street, New Windsor, NY, 12553	0.94/WSW	15.0	Adjacent Southeast - See Section 5.1.3 below.

5.1.2 Site Listings

No regulatory listings were identified in association with the Site.

5.1.3 Adjacent Property Listings

Adjacent North - 800 Corporate Boulevard

Mondelez Global LLC - Newburgh - ID #6110616

The facility was identified on the Tier 2 report. The Tier 2 report lists facilities in the state of New York which have reported hazardous substances provided by Homeland Security and Emergency Services. The facility handled diesel fuel and lead acid battery.

Based on the lack of reported spills, there does not appear to be a REC associated with the regulatory record associated with the north adjacent property.

Adjacent North – 1000 Corporate Boulevard

1000 Corporate Boulevard - Facility ID#UN3266

The Site was identified on the Hazardous Material Information Reporting System (HMIRS) database. The HMIRS is a US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) incident report database. Eight HMIRS reports were identified associated with the property. The reports were associated with the release of several gallons of potassium hydroxide, 2-phosphono-1-2-4-butanetricarboxylic acid, hypochlorite solutions, amines liquid, hydrogen peroxide, flammable printing ink, morpholine, and isopropanol.

A. Duie Pyle, Inc. (Former New Penn Motor Express) - NYSDEC PBS #3-601547

The following table summarizes the NYSDEC PBS Facility Information listing associated with the property.

Tank No.	Location	Capacity (gallons)	Product Stored	Tank Type	Secondary Containment	Date Installed	Status
001	Underground	12,000	Diesel	Fiberglass Coated Steel	Double-Walled	5/1/1996	Closed-Removed 11/29/2018
002	Aboveground	002	#2 Fuel Oil	Steel/Carbon Steel/Iron	Double-Walled	7/22/1996	In Service
003	Aboveground	747	#2 Fuel Oil	Steel/Carbon Steel/Iron	Double-Walled	4/9/2020	In Service
004	Aboveground	500	Motor Oil	Steel/Carbon Steel/Iron	Double-Walled	5/19/2020	In Service
005	Aboveground	500	Waste Oil	Steel/Carbon Steel/Iron	Impervious Underlayment	5/19/2020	In Service

Duie Pyle - NYSDEC Spill #1501206 (closed)

According to the closed spill listing, dated April 17, 2015, diesel staining was observed from the island pump dispenser and generator tank. The NYSDEC assigned the spill a closed March 17, 2016.

New Penn Express Trucking Facility - NYSDEC Spill #1809138 (closed)

According to the closed spill listing, dated November 29, 2018, elevated PID readings were detected while removing a 12,000 gallon UST (Tank #001). Soil and groundwater samples were below action levels and the NYSDEC assigned the spill a closed December 5, 2018.

Duie Pyle - NYSDEC Spill #1903998 (closed)

According to the closed spill listing, dated July 19, 2019, a non-Polychlorinated Biphenyl (PCB) oil drum was punctured while transporting it with a fork lift. The spill was absorbed with speedy dry and was placed into overpack drums. The NYSDEC assigned the spill a closed October 11, 2019.

Punctured Drum - NYSDEC Spill #2007739 (closed)

According to the closed spill listing, dated December 2, 2020, a sodium hydroxide drum was punctured and leaked in a trailer and concrete loading dock. The punctured drum was placed in a containment tub and the NYSDEC assigned the spill a closed December 2, 2020.

Based on the removal of the UST and the closed statuses of the spills, there are no apparent RECs associated with the regulatory records associated with the north adjacent property.

Adjacent Southeast – One Militia Way

PFCs are classified as a hazardous substance according to New York State Department of Environmental Conservation (NYSDEC) standards. PFCs have been known to impact groundwater and cause environmental and health issues.

NYSDEC Spills - Petroleum Releases

Nine closed and inactive NYSDEC Spills (#0200092, #9710600, #9602070, #9710598, #0312566, #0200594, #9011417, #0506139) that occurred between 1990 and 2005 are associated with releases of jet fuel and fuel oil. The product was cleaned and the NYSDEC assigned the spills closed statuses.

NY Air National Guard 105th - Facility ID#NYP981183333

The facility is listed on the New York Hazardous Waste Manifest. This data has been compiled from hazardous waste manifest shipments to, from, or within New York State. The Bureau of Program Management in the Division of Environmental Remediation is responsible for maintaining hazardous waste manifest records. This facility generated ignitable waste.

Stewart Air National Guard - MOSF ID #3-2800

This property is listed in the Major Oil Storage Facilities (MOSF) database. In 1977, the New York State Legislature passed the "Oil Spill Prevention, Control and Compensation Act" (Article 12 of the Navigation Law). This law regulates all oil terminals and transport vessels operating in the waters of the State which have a storage capacity of 400,000 gallons or more. (Terminals and vessels with a capacity of 400,000 gallons or more are commonly referred to as major oil storage facilities or MOSFs). This list is made available by NYSDEC's MOSF Program. The property is listed as an active MSOF and classified as a storage terminal/petroleum distributor.

Stewart ANG Base Pesticide Disposal Area - SHWS ID #336022 (complete)

Approximately one acre of the property located approximately 3,300 feet southeast of the Site was used to bury pesticides. Initial investigations started in the 1980s. Groundwater monitoring occurred between 2000 and 2005. Pesticide analytes were below NYSDEC groundwater standards as of 2005. Also, during the investigation, groundwater flow was identified as flowing to the southeast. An unspecified amount of impacted soil was excavated. Post confirmatory soil samples only identified exceedances of pesticide related contaminated between 17 and 26 feet below ground surface (bgs). Based on the depth of impacted soil and lack of impacted groundwater, the NYSDEC determined no further work was necessary and assigned the SHWS listing "complete" on December 8, 2016.

PFAS Listings

The property is listed in the Per- and Polyfluoroalkyl Substances (PFAS) database three times (facility ID #MIL0009, #BSF0456, and #BSF0457) in association with Class B fire suppression foam usage. The database is a list of sites surveyed by the NYSDEC to determine locations that manufacture, use, store, or release into the environment materials containing PFAS. PFAS are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Some PFAS are difficult to break down and persist in the environment that may cause harm to the public. This list is made available by the NYSDEC.

Stewart Air National Guard - Facility ID #3240

The property is listed in the Inactive Landfill Facilities in the State of New York database. This data is made available by the NYSDEC. NYSDEC notes that these are preliminary data and should not be regarded as a complete inventory of all landfills in the State, and also that site locations and attributes are preliminary and should not be relied upon without independent verification. The property was operated by the Untied States Air Force as an Air Force Base from 1941 to 1969, during which it received municipal waste from residents on base. An estimated total of 104,350 cubic yards of waste was disposed and the landfill was closed in 1999 with a New York Part 360 geosynthetic cap with geonet gas venting system, a liner, drainage layer and soil barrier protection as well as a topsoil layer with storm water management.

Stewart Air National Guard Base - RCRA Generator ID #NYD981183338

The property is a listed RCRA TSD. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). No RCRA violations were identified.

Stewart AFB - FUDS Property #C0NY0704

The property is listed in the Formerly Used Defense Sites (FUDS) database. FUDS are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers. The property was used by the Army as Stewart Air Field and later by the Air Force as Stewart Air Force base. The property is currently used as Stewart International Airport.

Stewart International Airport Site - SHWS ID #336088

Soil, groundwater, and surface water samples were collected at the Stewart Air National Guard Base and analyzed for perfluorinated compounds (PFCs). Perfluorooctane sulfonic acid (PFOS) was detected in groundwater samples collected from the existing monitoring wells at the Stewart Air National Guard Base at concentrations ranging from non-detect to 3,160 parts per trillion (ppt), greater than the USEPA health advisory level of 70 ppt. PFOS was detected in surface water samples collected from the retention pond at the base at concentrations ranging from 60 ppt to 5,900 ppt, greater than the USEPA health advisory level. Samples collected from catch basins at the base detected concentrations of PFCs ranging from non-detect to 6,990 ppt. PFCs migrated offsite into Lake Washington and its tributaries. PFOS was detected in Lake Washington at a maximum concentration of 243 ppt.

Stewart ANG Base Site - SHWS ID #336089

The property is listed in the SHWS associated with confirmed perfluorooctane sulfonic acid (PFOS) impact. The property is occupied by an military air base which includes aircraft and vehicle maintenance and the storage and disposal of hazardous materials. A majority of the property is paved and surface water runoff discharges to a retention pond approximately 4,285 feet southeast of the Site. PFOS containing fire suppression foam have been used in training exercises over the years. Groundwater and surface water samples were collected and identified PFOS between 60 parts per trillion (ppt) and 7,300 ppt. PFOS was identified in Lake Washington and tributaries leading to the lake. Also a landfill that accepted household waste and waste from aircraft maintenance operations is located on the southeast corner of the property that operated between 1963 and 1982.

The adjacent Newburgh Air Force Base NPL is currently under investigation with a known responsible party. The Site currently has a municipal water supply connection available, and there are no known impacts to the Site as of the production of this report. As with any Site that is located adjacent to an NPL site, residual impacts may remain at the Site. Should impacts be encountered in the future (i.e. utility work, Site redevelopment, etc.), such should be handled properly at that time.

5.1.4 Unplottable Listings

A total of four unmapped facilities from various databases, of which one was attributed to a closed spill, are potentially located within a 0.5-mile radius of the Site. These listings are considered "unmapped" as such have an incomplete or inaccurate address; therefore, the specific location of the listings could not be determined. Based on the limited address information available for the listings, they do not appear to be located on the Site.

5.1.5 Assessment of the Potential for Soil Vapor Intrusion

Vapor intrusion is the entry of volatile organic compounds (VOCs) to indoor air from underlying contamination in soil and groundwater. Based on the results of this assessment, no information was obtained suggesting the presence of a soil vapor intrusion concern at the Site at this time. It should be noted that LaBella's scope of work does not include an ASTM E2600 Vapor Encroachment Screening.

5.2 Additional Environmental Record Sources

5.2.1 Review of Previous Environmental Reports

No previous Phase I ESA, Transaction Screen report, or other previous environmental reports were obtained or were reasonably ascertainable for review.

5.2.2 Other Records

No other records were obtained or were reasonably ascertainable for review.

5.3 Historical Resources Reviewed

LaBella attempted to review reasonably ascertainable and readily available standard sources of historical information as defined by the ASTM Standard Practice E1527-13 in order to identify all obvious uses of the Site back to the first developed use or 1940, whichever is earlier (i.e., the historical research objective according to ASTM). Uses of the properties adjacent to the Site are identified in this report only to the extent that this information is revealed in the course of researching the Site itself and were determined at the discretion of the Environmental Analyst. As such, LaBella reviewed only as many of these sources as necessary to achieve the historical research objective. It should be noted that the lack of availability of reasonably ascertainable and readily available standard ASTM required sources have the potential to affect the findings of this assessment and can impact the ability of the Environmental Professional or Analyst to identify RECs and may result in a data failure (defined in Section 1.4.1 of this report). A data failure may represent a significant data gap.

Data failures and data gaps are identified, defined, and evaluated for their significance in Section 1.4 of this report. Standard historical sources LaBella attempted to review are outlined in the table below.

Historical Source	Years Reviewed	Source / Comments
Fire Insurance Maps	Not available for review	Not available for review
Aerial Photographs	1958, 1968, 1975, 1985, 1994, 2006, 2009, 2011, 2013, 2015, 2017, and 2019	ERIS
City Directories	1925, 1930, 1935, 1940, 1946, 1949, 1955, 1960, 2000, 2003, 2008, 2012, 2016, and 2020	ERIS
Municipal Records	Not applicable	Town of Newburgh
Topographic Maps	1903, 1946, 1947, 1957, and 2016	ERIS
Recorded Land Title Records	Not applicable	Not available for review

5.3.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps do not appear to provide coverage to the Site and surrounding properties. As such, Sanborn Fire Insurance maps were not reviewed as part of this Phase I ESA. A copy of the "No Coverage" letter obtained from ERIS is included in Appendix 2.

5.3.2 Aerial Photography

The table below outlines observations of the Site obtained from the review of aerial photographs. Copies of aerial photographs are included in Appendix 3.

Date	Observation
1958 and 1968	The Site appeared to have been developed with one structure consistent with the Site Buildings. A majority of the Site is undeveloped wooded and fallow land. Based on the quality of the historical aerial photograph, no further pertinent information could be discerned.
1975, 1985, 1994, 2006, 2009, 2011, 2013, 2015, 2017, and 2019	The Site appeared to have been developed with the Site Building. The remainder of the Site consisted of undeveloped wooded land.

According to aerial photographs, the adjacent properties were historically utilized for commercial, residential, agricultural, and undeveloped purposes. The following adjacent property uses of potential concern were identified.

- The south adjacent property was identified as an airport in at least 1958 to at least 2019. Also, two tanks are visible on the property between at least 1994 and 2019.
- The north adjacent properties addressed as 800 and 1000 Corporate Drive appeared to be disturbed and used to store tractor trailers in a least 1994.

5.3.3 Local City Directories

Listings identified associated with the Site in the Price and Lee and Digital Business street directories are detailed in the table below. Copies of street directories are included in Appendix 2.

Address	Year	Occupant Listing
124 Route 17K	1925, 1930, 1935, 1940, 1946, 1949, 2000, 2003, 2008, 2012, 2016, and 2020	Not listed
Along the Cochecton Turnpike	1955	Residential (Mrs P Fourtunes)
Along the Cochecton Turnpike	1960	Residential (Nicholas Pitsinos and Mrs P Fourtunes)

Review of the street directories indicated that properties surrounding the Site were historically utilized for commercial, and residential purposes. The following adjacent property uses of potential concern were identified.

- The south adjacent property along the Cochecton Turnpike was identified as an airport in at least 1940, 1946, and 1949, and an air force base in at least 1955 and 1960.
- The north adjacent property addressed as 1000 Corporate Boulevard was identified as a trucking company in at least 2000, 2003, 2008, 2012, 2016, and 2020.

5.3.4 Municipal Records

LaBella obtained municipal records from Town of Newburgh and the Orange County website. The following information was obtained from these records.

- The Site, Tax ID# 95-1-58, measures 14.90 acres and is developed with two structures.
- The residential dwelling, Site Building 1, measures 2,095 square feet and was constructed in 1947.
- The garage, Site Building 2, measures 484 square feet and was constructed in 1947.
- The current owner of the Site is listed as Red Oak SOS, LLC.
- Former owners are listed as Panogoita Fortunes, Athena Pitsino, and Pitsino Property, Inc.
- A prior use of the Site is listed as residential.
- The Site Building is listed as including private septic and water.

A building permit was issued by the Town of Newburgh in 2007 to remove a fuel oil UST at the Site. Records indicate the UST was closed out completed on March 5, 2007 and was replaced with an AST. Based on the lack of closure documents associated with the UST removal, there is a data gap associated with the Site. No visual evidence, open records of violation, or active NYSDEC spills related to the release of hazardous substances or petroleum products were identified within the scope of this assessment. As with any Site that formerly had a UST, residual impacts may remain at the Site. Should impacts be encountered in the future (i.e. utility work, Site redevelopment, etc.), such should be handled properly at that time.

Copies of records obtained from the Town of Newburgh and the Orange County website are included in Appendix 6.

5.3.5 Historical Topographic Maps

The table below outlines observations of the Site and adjacent properties obtained from the review of available historical topographic maps. Copies of historical topographic maps are included in Appendix 2.

Date	Observation
1903	The Site appears to have been undeveloped land north of an unlabeled road. Surrounding adjacent properties appear to be undeveloped and structures are visible south and west of the Site.
1946 and 1947	The Site appears to be improved with two structures along the south portion of the property. Route 17K and the Stewart AAF airport are illustrated south of the Site and structures are visible north, east, and west of the Site.
1957	The Site appears to be improved with a structure along Route 17K. The south adjacent property was occupied by Military Reservation Stewart Air Force Base. The remainder of the surrounding properties appeared to be unchanged.
2006	There are no apparent structures visible on the Site. Corporate Boulevard is shown north and west of the Site. The surrounding properties appear to be in similar condition as the previous topographic maps.

5.3.6 Recorded Land Title Records

According to the ASTM Standard Practice E1527-13, "the user should either engage a title company or title professional to undertake a review of reasonably ascertainable land title records and lien records for environmental liens or activity and use limitations currently recorded against or relating to the property or to negotiate such an engagement of a title company or title professional as an addition to the Scope of Work to be performed by the Environmental Professional." Title records were not provided to LaBella for review.

Review of the abstract of title for the Site provided by Scannell Properties indicated the Site has been historically owned by various private individuals beginning in at least 1926. James G. Fortunes is first listed in the abstract of title in 1945, and the Site was formerly owned by Pitsinos Property, Inc. The Site is currently owned by Red Oak SOS LLC. A copy of the abstract of title is included in Appendix 7.

5.3.7 Summary of Historical Use

Based on the historical records reviewed, the following information was obtained related to the Site:

- Between at least 1903 and 1947, the Site consisted of undeveloped wooded land.
- The Site was first developed with the Site Buildings in 1947 and have been used for residential purposes since that time.
- A building permit was issued by the Town of Newburgh in 2007 to remove an oil UST at the Site. Records indicate that the UST was closed out completed on March 5, 2007 and was replaced with an AST.

Based on the lack of closure documents associated with the UST removal, there is a data gap associated with the Site. No visual evidence, open records of violation, or active NYSDEC spills related to the release of hazardous substances or petroleum products were identified within the scope of this assessment. As with any Site that formerly had a UST, residual impacts may remain at the Site. Should impacts be encountered in the future (i.e. utility work, Site redevelopment, etc.), such should be handled properly at that time.

Based on the historical records reviewed, it appears the adjacent properties were historically utilized for commercial, residential, and undeveloped purposes. The following historical adjacent property uses of potential concern were identified.

- The south adjacent property was identified as an airport in at least 1940 to at least 2019. Also, two tanks were visible on the property between at least 1994 and 2019.
- The north adjacent property addressed as 1000 Corporate Boulevard was identified as a trucking company in at least 2000, 2003, 2008, 2012, 2016, and 2020.

See Section 5.1.3 for regulatory records associated with the adjacent properties.

6.0 SITE RECONNAISSANCE

Conducted by: Sierra Vaverchak, Environmental Geologist

Date of site visit: September 16, 2021

Representative photographs from the site visit are included in the Photographs Appendix. In addition, observations discussed in this Section are outlined on Figure 3. Copies of the field notes taken during the site visit are included in Appendix 4.

At the time of the site visit, a representative portion of the Site was visually inspected. Visual observations were limited at the time of the site visit due to size and vegetative growth. Additional site visit limitations are discussed in Section 8.2 below.

6.1 Interior and Exterior Observations

Observation	Noted	Site
Historical Use	No	No apparent indicators (i.e., signs, equipment, etc.) were observed at the Site at the time of the site visit that would indicate historical uses of the Site.
Hazardous Substances and Petroleum Products	No	No apparent hazardous substances or petroleum products were observed at the Site at the time of the site visit.
Storage Tanks	Yes	One 275 gallon fuel oil AST is located in the southwest portion of the Site Building 1 basement. No leaks, spills, or stains were observed near the #2 fuel oil at the time of the site visit.
Odors	No	No apparent strong, pungent, or noxious odors were observed at the Site at the time of the site visit.
Pools of Liquid	No	No apparent pools, sumps, or standing water containing liquids likely to be hazardous substances or petroleum products were observed at the Site at the time of the site visit.
Unidentified Substance Containers	No	No apparent unidentified substance containers were observed at the Site at the time of the site visit.
Heating and Cooling	Yes	The fuel source for heating and cooling the Site Building is fuel oil. One 275 gallon fuel oil aboveground storage tank were observed in the southwest portion of the Site Building 1 basement at the time of the site visit. The fill port associated with the AST is located on the exterior southwest portion of Site Building 1.
Stains and Corrosion	No	No apparent staining was observed at the Site at the time of the site visit.
Drains and Sumps	Yes	A sump was observed within the southwest portion of the Site Building 1 basement. No leaks, stains, spills, or unusual odors were noted in the vicinity of the sump at the time of the site visit. It is unknown where the sump discharges to.
Polychlorinated Bi-phenyls (PCBs)-Containing Equipment	No	No apparent electrical or hydraulic equipment potentially containing PCBs were observed at the Site at the time of the site visit.
Pits, Ponds, or Lagoons	No	No apparent pits, ponds, or lagoons were observed at the Site at the time of the site visit.
Stained Soil or Pavement	No	No apparent stained soils or pavement were observed at the Site at the time of the site visit.
Stressed Vegetation	No	No apparent stressed vegetation was observed at the time of the site visit.

Observation	Noted	Site
Solid Waste	No	No apparent solid waste disposal areas were observed at the Site at the time of the site visit.
Wastewater	No	Non-sanitary wastewater does not appear to be generated or discharged at the Site.
Wells	Yes	A potable water well was located near the northwest corner of Site Building 1. The well was missing a cap and appeared to be damaged.
Septic Systems	No	No apparent indications of on-Site septic systems or cesspools were observed on the Site at the time of the site visit.

7.0 INTERVIEWS

7.1 Site Representative

Mr. Russell Altman, Owner, was interviewed as part of this assessment. According to information obtained through this interview, the Site is currently vacant undeveloped land. Mr. Altman stated a water well system and public water supplies the Site and some asphalt paving is at the Site. Mr. Altman stated the Site was formerly used for residential and agricultural purposes. The notes from the interview are included in Appendix 5.

7.2 Local Government Official

A FOIL request was submitted to the Town of Newburgh Clerk, Joseph Pedi, on August 30, 2021 requesting copies of building department, assessment, and fire marshal records on file for the Site. A building permit to remove an oil UST and a property record card were obtained from the Town of Newburgh and are discussed in further detail in 5.3.4. A copy of the FOIL request and documents obtained are included in Appendix 6.

7.3 Tribal Records

There do not appear to be any Native American Sovereign Territories on or within one mile of the Site. In accordance with ASTM Standard Practice E1527-13, tribal records will only be reviewed if the subject Site falls on or within one mile of Native American Sovereign Territory. Therefore, tribal government representatives were not contacted as part of this AAI Phase I ESA report.

7.4 New York State Department of Environmental Conservation

A FOIL request was submitted to the NYSDEC on August 30, 2021. A response was received from the NYSDEC on September 24, 2021. According to the NYSDEC, after a diligent search, no records could be located for the names and addresses provided. A copy of the FOIL request and response is included in Appendix 6.

7.5 Orange County Department of Health

A FOIL request was submitted to the OCDOH on August 30, 2021. As of the date of this report submission, a response has not been received from the Orange County Department of Health. Any pertinent information received as a result of this FOIL request will be included as a Letter of Addendum. A copy of the FOIL request is included in Appendix 6.

8.0 ASSUMPTIONS, LIMITATIONS, TERMS AND RELIANCE

8.1 Significant Assumptions

As a result of the unavailability or lack of receipt of information, the following assumption was made in order to complete the Scope of Work in the timeframe desired by Scannell Properties.

- Groundwater flow direction in the vicinity of the Site was estimated based on review of area topographic maps. Determination of site-specific groundwater flow direction typically requires installing at least three groundwater monitoring wells, surveying the wells, and collecting groundwater elevation data.

8.2 Limitations and Exceptions of Assessment

ASTM Standard Practice E1527-13 expressly recognized the fact that no ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. LaBella's work is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Site, and its Scope of Work reflects recognition of the reasonable limits of time and cost.

The actual presence of radon, lead-based paint, contaminants in drinking water [e.g., lead, VOCs, "perfluorinated" compounds (PFCs), etc.], mold-related issues, electromagnetic frequencies, asbestos-containing building materials, polychlorinated biphenyl (PCB) caulk, soil vapor intrusion (SVI), wetlands, cultural and historic resources, ecological resources, and endangered species are not included in the Scope of Work of this assessment. Additionally, regulatory compliance, industrial hygiene, health and safety, indoor air quality, and drinking water quality are not included in the Scope of Work of this assessment. Should Scannell Properties want these services, LaBella can complete them; however, they are not included in the Scope of Work of the Phase I ESA. In addition, NYSDEC Part 360 Regulations indicate that fill material is defined as "*soil and similar material excavated for the purpose of construction or maintenance*". The user should be aware that this Phase I ESA has not assessed the Site for fill materials. Any fill material generated as part of a construction project is subject to NYSDEC Part 360 Regulations, which could include chemical testing.

It is further noted that due to post 9/11 terrorist-related concerns, the NYSDEC has limited the availability of PBS, CBS, and MOSF details, and detailed spill information to the public. However, LaBella does have access to the addresses of current PBS, CBS, and MOSF locations accessed from the database from the NYSDEC website. In addition, this information can usually be acquired by a

FOIL to the regulating agency to attempt to obtain this relevant and reasonably ascertainable environmental information for AAI Phase I ESA reports. If this information is not obtainable, then it will be discussed as a data gap in Section 1.4.2.

The site visit was limited to visual observations of accessible areas only. No attempt was made to observe conditions in spaces not generally accessible, including but not limited to:

1. Crawlspaces
2. Attics and roofs
3. Pipe chases or plenums
4. Spaces concealed by walls, floors, or ceilings
5. Materials concealed by paneling, carpeting, or wallpaper

The site visit was also limited to visual observations within the perimeter of the Site and other accessible areas only. Visual observations were limited at the time of the site visit due to size and vegetative growth.

At the time of the site visit, a representative portion of the Site was visually inspected. Areas of the Site that were inaccessible were left to the judgment and discretion of the Environmental Analyst conducting the site visit.

8.3 Special Terms and Conditions

Scannell Properties and LaBella have agreed that the Scope of Work described in Section 2.2, and the Limitations and Exceptions described in Section 8.2 above, are acceptable to you and that to the fullest extent permitted by law, LaBella shall not be liable to you for limiting its investigation to the Scope of Work described. Based on the engagement and Scope of Work agreed upon, our evaluation of the Site is as presented herein.

8.4 User Reliance

Scannell Properties, may rely upon the findings of this report and should be aware of the agreed upon Scope of Work and the limitations associated with this Scope of Work.

8.5 Subsurface Risks/Unanticipated Hazardous Materials

The work for this report has been performed in accordance with generally accepted environmental engineering practices for the applicable region. The conclusion and recommendations of this report are based upon the opinion and judgment of an Environmental Professional (EP), and are dependent upon LaBella's knowledge, information supplied by the present owner and managers of the Site, and data and information solicited from governmental agencies. LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts, or reports.

In addition, LaBella cannot provide guarantees, certifications, or warranties that the property is or is not free of environmental impairment without a subsurface investigation involving drilling, vapor analysis, laboratory soil analysis, groundwater monitoring well installation, and laboratory groundwater analysis. Even with such a program, the data and samples from any given soil boring or monitoring well will indicate conditions that apply only at that particular location, and such conditions may not necessarily apply to the general Site as a whole.

9.0 ADDITIONAL SERVICES

No additional services were provided or agreed upon as part of this assessment.

10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to our knowledge and belief, we meet the definition of Environmental Professional as defined in ASTM Standard Practice E1527-13 and §312.20 of 40 CFR §312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting at the subject property.

We have developed and performed the Scope of Work for this assessment in conformance with the standards, practices, and limitations set forth in ASTM Standard Practice E1527-13.

Patrick Rodman
Project Manager
Environmental Professional

Sierra Vaverchak
Environmental Analyst

11.0 REFERENCES

	Source
USGS 7.5 Minute Topographic Quadrangle Map of Cornwall-on-Hudson and Newburgh, New York	USGS Website
Orange County Soil Survey	ERIS PSR
Federal Environmental Regulatory Listings	ERIS
State Environmental Regulatory Listings	ERIS
Local Landfill or Solid Waste Information	ERIS
Sanborn Fire Insurance Maps	Not available for review
Street Directories	ERIS
Aerial Photographs	ERIS
Historical Topographic Maps	ERIS
Historical Atlases	N/A
Previous Reports	No previous reports were provided for review.

Figures

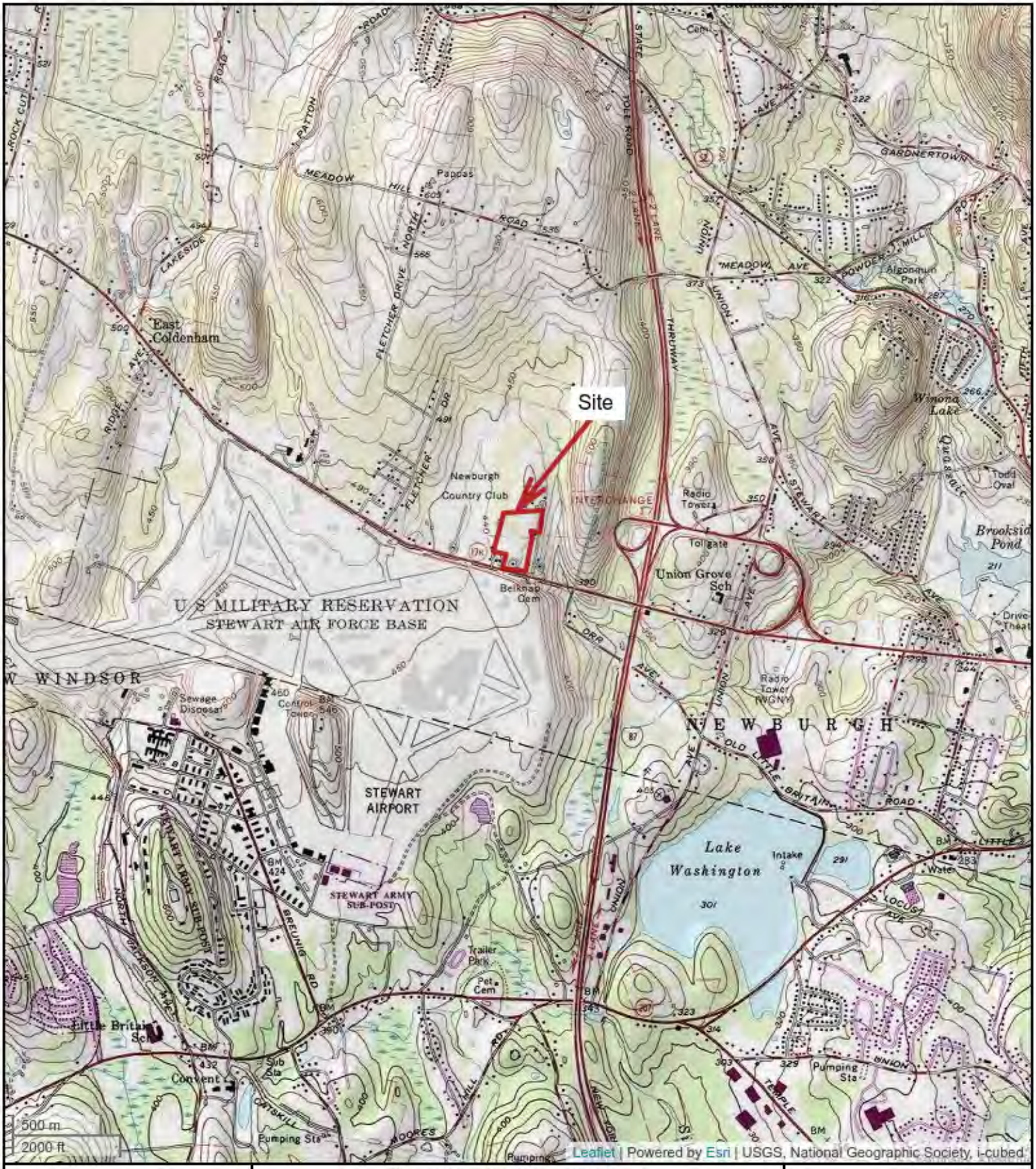

Figure 1 Site Location Map

N

NOT TO SCALE

124 Route 17K
Newburgh, New York 12550
Project No. 2213006

LaBella

N

NOT TO SCALE

Figure 2 Site Property Tax Map

124 Route 17K
Newburgh, New York 12550
Project No. 2213006

LaBella
Powered by partnership

N

NOT TO SCALE

Figure 3 Site Sketch

124 Route 17K
Newburgh, New York 12550
Project No. 2213006

LaBella
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LaBella
Powered by partnership.

Photographs

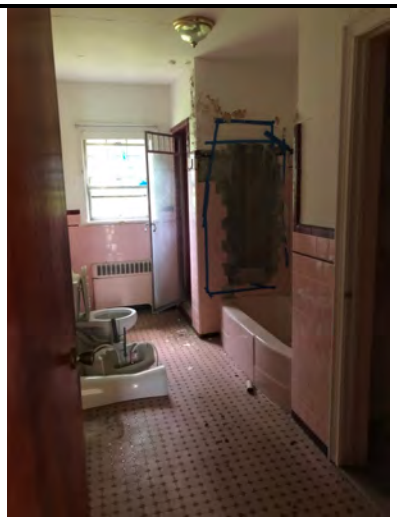
Site Building 1 north exterior

Site Building 1 south exterior

Site Building 1 east exterior

Site Building 1 west exterior

Site Building 1 interior

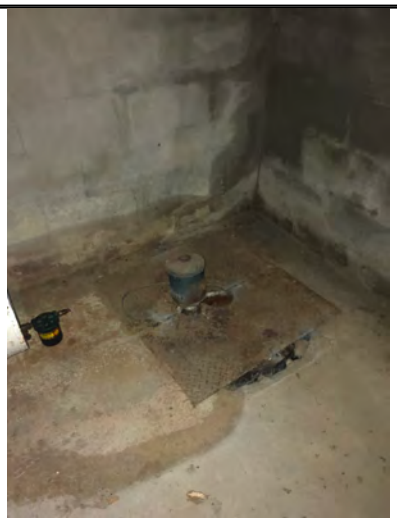


Site Building 1 interior

Site Building 1 interior

Site Building 1 interior

Site Building 1 interior



Site Building 1 sump

Site Building 1 275 gallon fuel oil AST

Site Building 1 fill and vent pipes

Site Building 2 north exterior

Site Building 2 south exterior

Site Building 2 east exterior

Site Building 2 west exterior

Site Building 2 interior

North portion of Site

North portion of Site

Potable water well northeast of Site Building 1

Water tank north of Site Building 1

Gravel pile north of Site Building 1

Concrete pad south of Site Building 2

North adjacent property

North adjacent property

North adjacent property

South adjacent property

East adjacent property

West adjacent property

Appendix 1
Regulatory Records

DATABASE REPORT

Project Property:	*Phase I ESA: 124 Route 17K, Newburgh, NY* *124 Route 17K* *Newburgh NY 12550*
Project No:	*2213006*
Report Type:	*Database Report*
Order No:	*21083000086*
Requested by:	*LaBella Associates*
Date Completed:	*August 31, 2021*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*Phase I ESA: 124 Route 17K, Newburgh, NY* *124 Route 17K Newburgh NY 12550*
Project No:	*2213006*

Coordinates:

Latitude:	*41.50921206*
Longitude:	*-74.0834304*
UTM Northing:	*4,595,692.42*
UTM Easting:	*576,489.00*
UTM Zone:	*UTM Zone 18T*

Elevation: *442 FT*

Order Information:

Order No:	*21083000086*
Date Requested:	*August 30, 2021*
Requested by:	*LaBella Associates*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials Photographs*
City Directory Search	*CD - 2 Street Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*
Topographic Map	*Topographic Maps*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	**1**	-	**1**
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	**1**	0	-	-	**1**
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
SHWS	Y	1	0	0	0	**2**	**2**	**4**
DELISTED SHWS	Y	1	0	0	0	0	0	0
HSWDS	Y	1	0	0	0	0	0	0
VAPOR	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	**2**	**2**	-	**4**
LANDFILL INACTIVE	Y	0.5	0	0	0	**1**	-	**1**
WASTE TIRE	Y	0.5	0	0	0	0	-	0
RECYCLING	Y	0.5	0	0	0	**1**	-	**1**
LST	Y	0.5	0	0	0	**4**	-	**4**
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	**1**	0	-	-	**1**
AST	Y	0.25	0	**2**	**1**	-	-	**3**
TANKS	Y	0.25	0	0	0	-	-	0
MOSF	Y	0.5	0	0	0	**1**	-	**1**
CBS	Y	0.25	0	0	0	-	-	0
DELISTED TANKS	Y	0.25	0	0	0	-	-	0
DELISTED COUNTY	Y	0.25	0	0	0	-	-	0
ENG	Y	0.5	0	0	0	0	-	0
INST	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
ERP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0
County	***No County databases were selected to be included in the search.***							

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Additional Environmental Records								
Federal								
PFAS NPL	Y	0.5	0	0	0	0	-	0
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	**7**	-	-	-	**7**
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	**1**	**1**
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
UIC	Y	PO	0	-	-	-	-	0
MGP	Y	1	0	0	0	0	0	0
NY SPILLS	Y	0.125	0	**21**	-	-	-	**21**

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
PFAS CONTAM	Y	0.5	0	0	0	0	-	0
PFAS	Y	0.5	0	0	0	**3**	-	**3**
PFAS LANDFILL	Y	0.5	0	0	0	0	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
NY MANIFEST	Y	0.125	0	0	-	-	-	0
REC MANIFEST	Y	0.25	0	0	0	-	-	0
GEN MANIFEST	Y	0.125	0	**2**	-	-	-	**2**
E DESIGNATION	Y	0.125	0	0	-	-	-	0
TIER 2	Y	0.125	0	**2**	-	-	-	**2**
PROJECTS	Y	0.25	0	0	0	-	-	0
AIR PERMITS	Y	0.25	0	0	0	-	-	0
LIEN	Y	PO	0	-	-	-	-	0

Tribal ***No Tribal additional environmental record sources available for this State.***

County ***No County additional environmental record sources available for this State.***

Total:	*0*	***36***	***3***	***15***	***3***	***57***

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	UST	A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)	1000 CORPORATE BOULEVARD NEWBURGH NY 12550 ***Site ID* | *Site Status:*** 34655 | Active	NNE	0.04 / 210.20	5	26
1	HMIRS		1000 CORPORATE BOULEARD NEWBURGH NY	NNE	0.04 / 210.20	5	28
1	HMIRS		1000 CORPORATE BOULEVARD NEWBURGH NY	NNE	0.04 / 210.20	5	30
1	HMIRS		1000 CORPORATE BLVD NEWBURGH NY	NNE	0.04 / 210.20	5	35
1	AST	A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)	1000 CORPORATE BOULEVARD NEWBURGH NY 12550 ***Site ID* | *Site Status:*** 34655 | Active	NNE	0.04 / 210.20	5	46
1	NY SPILLS	DUIE PYLE	1000 CORPORATE BOULEVARD NEWBURGH NY ***Spill No* | *Close Date:*** 1501206 | 2016-03-17 00:00:00	NNE	0.04 / 210.20	5	53
1	NY SPILLS	NEW PENN EXPRESS TRUCKING FACILITY	1000 CORPORATE BLVD NEWBURGH NY ***Spill No* | *Close Date:*** 1809138 | 2018-12-05 00:00:00	NNE	0.04 / 210.20	5	53
1	NY SPILLS	DUIE PYLE	1000 CORPORATE BLVD NEWBURGH NY ***Spill No* | *Close Date:*** 1903998 | 2019-10-11 00:00:00	NNE	0.04 / 210.20	5	54
1	HMIRS		1000 CORPORATE BOULEARD NEWBURGH NY	NNE	0.04 / 210.20	5	55
1	HMIRS		1000 Corporate Drive NEWBURGH NY	NNE	0.04 / 210.20	5	57
1	HMIRS		1000 CORPORATE BLVD NEWBURGH NY	NNE	0.04 / 210.20	5	58
1	HMIRS		1000 CORPORATE BOULEVARD NEWBURGH NY	NNE	0.04 / 210.20	5	71

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	NY SPILLS	PUNCTURED DRUM	1000 CORPORATE BLVD NEWBURGH NY ***Spill No* | *Close Date:*** 2007739 | 2020-12-02 00:00:00	NNE	0.04 / 210.20	5	76
2	TIER 2	Mondelez Global LLC - Newburgh	800 Corporate Boulevard Newburgh NY 12550	NNW	0.05 / 283.15	3	77
3	NY SPILLS	MAPLE LEAF OFFICE BLDG	114 17K NEWBURGH NY ***Spill No* | *Close Date:*** 9904441 | 2001-11-05 00:00:00	SE	0.07 / 386.25	-38	77
4	NY SPILLS	STEWART AIR BASE	1 MILITIA WY NEWBURGH NY ***Spill No* | *Close Date:*** 0200092 | 2002-04-03 00:00:00	SE	0.08 / 438.35	-42	78
4	NY SPILLS	STEWART AIR BASE	1 MILTIA WY NEWBURGH NY ***Spill No* | *Close Date:*** 9710600 | 1998-01-10 00:00:00	SE	0.08 / 438.35	-42	79
4	NY SPILLS	STEWART AIR BASE	1 MALITIA WAY NEWBURGH NY ***Spill No* | *Close Date:*** 9602070 | 1996-05-13 00:00:00	SE	0.08 / 438.35	-42	80
4	NY SPILLS	STEWART AIR BASE	1 MILITIA WY NEWBURGH NY ***Spill No* | *Close Date:*** 9710598 | 1997-12-17 00:00:00	SE	0.08 / 438.35	-42	80
4	NY SPILLS	VEHICLE MAINT. 105TH AIRL	1 MALITIA WAY NEWBURGH NY ***Spill No* | *Close Date:*** 0312566 | 2004-02-11 00:00:00	SE	0.08 / 438.35	-42	81
4	GEN MANIFEST	NY AIR NATIONAL GUARD 105TH	ONE MILITIA WAY NEWBURGH NY 12550	SE	0.08 / 438.35	-42	82
5	NY SPILLS	CNS GROCERY WHOLESALERS	1800 CORPORATE BLVD NEWBURGH NY ***Spill No* | *Close Date:*** 9814864 | 1999-03-15 00:00:00	N	0.10 / 511.68	8	82
6	AST	C&S WHOLESALE GROCERS, INC.	1500 CORPORATE BOULEVARD NEWBURGH NY 12550 ***Site ID* | *Site Status:*** 412540 | Active	NNW	0.10 / 545.01	1	83
6	NY SPILLS	CORPORATE COMPLEX	1500 CORPORATE BLVD. NEWBURGH NY ***Spill No* | *Close Date:*** 0310753 | 2003-12-18 00:00:00	NNW	0.10 / 545.01	1	92
6	NY SPILLS	ACROSS FROM CALDOR DIST.	1500 CORPORATE BLVD. NEWBURGH NY	NNW	0.10 / 545.01	1	93

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			***Spill No*	*Close Date:*** 9402012 | 1994-05-18 00:00:00			
6	NY SPILLS	PARKING LOT	1500 CORPORATE BLVD. NEWBURGH NY	NNW	0.10 / 545.01	1	93
			Spill No* | *Close Date: 0409393 | 2004-11-13 00:00:00				
6	NY SPILLS	C&S GROCERS	1500 CORRPORT BLVD NEWBURGH NY	NNW	0.10 / 545.01	1	94
			Spill No* | *Close Date: 1411831 | 2015-07-17 00:00:00				
6	RCRA SQG	C&S WHOLESALE GROCERS INC	1500 CORPORATE BLVD NEWBURGH NY 12550	NNW	0.10 / 545.01	1	95
			EPA Handler ID: NY0000929315				
6	NY SPILLS	STORM DRAIN	1500 CORP DRIVE NEWBURGH NY	NNW	0.10 / 545.01	1	100
			Spill No* | *Close Date: 1700129 | 2017-06-06 00:00:00				
6	NY SPILLS	ROADWAY	1500 CORP. BLVD NEWBURGH NY	NNW	0.10 / 545.01	1	101
			Spill No* | *Close Date: 1708763 | 2019-01-03 00:00:00				
6	NY SPILLS	COMMERCIAL CS GROCERY	1500 CORPORATE BLVD NEWBURGH NY	NNW	0.10 / 545.01	1	102
			Spill No* | *Close Date: 1710325 | 2019-01-17 00:00:00				
6	TIER 2	Newburgh	1500 Corporate Boulevard Newburgh NY 12550	NNW	0.10 / 545.01	1	103
6	GEN MANIFEST	C & S WHOLESALE GROCERS INC #12	1500 CORPORATE BLVD NEWBURGH NY 12550	NNW	0.10 / 545.01	1	104
6	NY SPILLS	BUSINESS LOCATION	1500 CORPORATE BLVD NEWBURGH NY	NNW	0.10 / 545.01	1	105
			Spill No* | *Close Date: 2001144 | 2020-05-20 00:00:00				
6	NY SPILLS	WESTERN EXPRESS TRUCKING	1500 CORPORATE BLVD NEWBURGH NY	NNW	0.10 / 545.01	1	105
			Spill No* | *Close Date: 2001137 | 2020-05-20 00:00:00				
7	NY SPILLS	BUSINESS	2500 CORPORATE BOULEVARD NEWBURGH NY	N	0.12 / 625.21	6	106
			Spill No* | *Close Date: 1304480 | 2013-07-24 00:00:00				
8	SWF/LF	Newburgh Recycling Center	Rt 17K & Orr Ave. Newburgh NY 0	ESE	0.17 / 918.28	-55	107
8	SWF/LF	Newburgh Recycling Center Rte 17 & Orr	Route 17K & Orr Avenue Newburgh NY 12550	ESE	0.17 / 918.28	-55	107

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
9	AST	FIRST VEHICLE SERVICES #4752	1900 CORPORATE BLVD. NE, INDUSTRIAL PARK NEWBURGH NY 12550 ***Site ID*	*Site Status:*** 382608 | Unregulated/Closed	NNE	0.24 / 1,292.58	-7	108
10	LST	ON ROADWAY	9 ORR AVE NEWBURGH NY ***Spill No*	*Close Date:*** 0706135 | 2007-08-30 00:00:00	SE	0.28 / 1,499.43	-82	110
10	SWF/LF	Orange County Transfer Station #2 (Newburgh)	NYS Rt 17K 9 Orr Road Newburgh NY 12550	SE	0.28 / 1,499.43	-82	111
10	SWF/LF	Orange County Transfer Station #2 (Newburgh CDA)	9 Orr Avenue Newburgh NY 12550	SE	0.28 / 1,499.43	-82	112
10	RECYCLING	ORANGE COUNTY TRANSFER STATION #2 (NEWBURGH CDA)	9 ORR AVENUE NEWBURGH NY 12550	SE	0.28 / 1,499.43	-82	112
11	LST	STEWART AIR BASE	1 MILITIA WAY NEWBURGH NY ***Spill No*	*Close Date:*** 0200594 | 2002-04-16 00:00:00	S	0.33 / 1,753.76	-1	112
11	LST	NYANG STEWART ANG BASE	1 MILITIA WAY NEWBURGH NY ***Spill No*	*Close Date:*** 9011417 | 1991-02-27 00:00:00	S	0.33 / 1,753.76	-1	113
11	LST	STEWART AIR NATIONAL GUARD BASE	1 MILITIA WAY NEWBURGH NY ***Spill No*	*Close Date:*** 0506139 | 2005-11-23 00:00:00	S	0.33 / 1,753.76	-1	114
12	MOSF	STEWART AIR NATIONAL GUARD BASE	ONE MAGUIRE WAY NEWBURGH NY 12550-5075 ***Site ID*	*Site Status:*** 345362 | Active	S	0.38 / 2,016.74	-1	115
12	SHWS	Stewart ANG Base Pesticide Disposal Area	1 Maguire Way Newburgh NY 12550	S	0.38 / 2,016.74	-1	115
12	SHWS	Stewart ANG Base Site	1 Maguire Way Newburgh NY 12550	S	0.38 / 2,016.74	-1	117
12	PFAS	Stewart Air National Guard Base 105AW/EM	1 Maguire Way Newburgh NY	S	0.38 / 2,016.74	-1	121

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
12	LANDFILL INACTIVE	Stewart Air National Guard	1 Maguire Way Newburgh NY	S	0.38 / 2,016.74	-1	121
12	RCRA TSD	STEWART AIR NATIONAL GUARD BASE	1 MAGUIRE WY NEWBURGH NY 12550 ***EPA Handler ID:*** NYD981183338	S	0.38 / 2,016.74	-1	123
13	PFAS	Air Traffic Control Tower	2 Express Dr Newburgh NY	W	0.48 / 2,550.69	39	135
14	PFAS	American Express Aviation	1 Express Dr Newburgh NY	W	0.50 / 2,620.75	36	135
15	FUDS	STEWART AFB	NEWBURGH NY ***FUDS Property No:*** C02NY0704	WSW	0.77 / 4,049.04	18	136
16	SHWS	New Windsor Town Landfill	Silver Stream Road New Windsor NY 12550	SSE	0.91 / 4,826.78	-83	136
17	SHWS	Stewart International Airport Site	1180 1st Street New Windsor NY 12553	WSW	0.94 / 4,957.61	15	139

Executive Summary: Summary by Data Source

Standard

Federal

RCRA TSD - RCRA non-CORRACTS TSD Facilities

A search of the RCRA TSD database, dated Jun 14, 2021 has found that there are 1 RCRA TSD site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
STEWART AIR NATIONAL GUARD BASE	1 MAGUIRE WY NEWBURGH NY 12550 ***EPA Handler ID**: NYD981183338*	S	0.38 / 2,016.74	12

RCRA SQG - RCRA Small Quantity Generators List

A search of the RCRA SQG database, dated Jun 14, 2021 has found that there are 1 RCRA SQG site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
C&S WHOLESALE GROCERS INC	1500 CORPORATE BLVD NEWBURGH NY 12550 ***EPA Handler ID**: NY0000929315*	NNW	0.10 / 545.01	6

State

SHWS - Registry of Inactive Hazardous Waste Disposal Sites in New York State

A search of the SHWS database, dated Jun 3, 2021 has found that there are 4 SHWS site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Stewart International Airport Site	1180 1st Street New Windsor NY 12553	WSW	0.94 / 4,957.61	17

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Stewart ANG Base Pesticide Disposal Area	1 Maguire Way Newburgh NY 12550	S	0.38 / 2,016.74	12
Stewart ANG Base Site	1 Maguire Way Newburgh NY 12550	S	0.38 / 2,016.74	12
New Windsor Town Landfill	Silver Stream Road New Windsor NY 12550	SSE	0.91 / 4,826.78	16

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key

SWF/LF - Solid Waste Facilities and Landfills

A search of the SWF/LF database, dated Dec 31, 2020 has found that there are 4 SWF/LF site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Newburgh Recycling Center Rte 17 & Orr	Route 17K & Orr Avenue Newburgh NY 12550	ESE	0.17 / 918.28	8
Newburgh Recycling Center	Rt 17K & Orr Ave. Newburgh NY 0	ESE	0.17 / 918.28	8
Orange County Transfer Station #2 (Newburgh CDA)	9 Orr Avenue Newburgh NY 12550	SE	0.28 / 1,499.43	10
Orange County Transfer Station #2 (Newburgh)	NYS Rt 17K 9 Orr Road Newburgh NY 12550	SE	0.28 / 1,499.43	10

LANDFILL INACTIVE - Inactive Landfill Facilities

A search of the LANDFILL INACTIVE database, dated Jun 30, 2020 has found that there are 1 LANDFILL INACTIVE site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Stewart Air National Guard	1 Maguire Way Newburgh NY	S	0.38 / 2,016.74	12

RECYCLING - Recycling Facilities

A search of the RECYCLING database, dated Dec 24, 2019 has found that there are 1 RECYCLING site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ORANGE COUNTY TRANSFER STATION #2 (NEWBURGH CDA)	9 ORR AVENUE NEWBURGH NY 12550	SE	0.28 / 1,499.43	10

LST - Leaking Storage Tanks

A search of the LST database, dated Jul 26, 2021 has found that there are 4 LST site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ON ROADWAY	9 ORR AVE NEWBURGH NY	SE	0.28 / 1,499.43	10

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	Spill No* | *Close Date: *0706135* | *2007-08-30 00:00:00*			
NYANG STEWART ANG BASE	1 MILITIA WAY NEWBURGH NY	S	0.33 / 1,753.76	11
	Spill No* | *Close Date: *9011417* | *1991-02-27 00:00:00*			
STEWART AIR BASE	1 MILITIA WAY NEWBURGH NY	S	0.33 / 1,753.76	11
	Spill No* | *Close Date: *0200594* | *2002-04-16 00:00:00*			
STEWART AIR NATIONAL GUARD BASE	1 MILITIA WAY NEWBURGH NY	S	0.33 / 1,753.76	11
	Spill No* | *Close Date: *0506139* | *2005-11-23 00:00:00*			

UST - Underground Storage Tanks- UST-Petroleum Bulk Storage (PBS)

A search of the UST database, dated Jun 3, 2021 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)	1000 CORPORATE BOULEVARD NEWBURGH NY 12550	NNE	0.04 / 210.20	1
	Site ID* | *Site Status: *34655* | *Active*			

AST - The Bulk Storage Program Database - AST

A search of the AST database, dated Jun 3, 2021 has found that there are 3 AST site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)	1000 CORPORATE BOULEVARD NEWBURGH NY 12550	NNE	0.04 / 210.20	1
	Site ID* | *Site Status: *34655* | *Active*			
C&S WHOLESALE GROCERS, INC.	1500 CORPORATE BOULEVARD NEWBURGH NY 12550	NNW	0.10 / 545.01	6
	Site ID* | *Site Status: *412540* | *Active*			

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
FIRST VEHICLE SERVICES #4752	1900 CORPORATE BLVD. NE, INDUSTRIAL PARK NEWBURGH NY 12550	NNE	0.24 / 1,292.58	9
	Site ID* | *Site Status: *382608* | *Unregulated/Closed*			

MOSF - Major Oil Storage Facilities (MOSF)

A search of the MOSF database, dated Jun 3, 2021 has found that there are 1 MOSF site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
STEWART AIR NATIONAL GUARD BASE	ONE MAGUIRE WAY NEWBURGH NY 12550-5075	S	0.38 / 2,016.74	12
	Site ID* | *Site Status: *345362* | *Active*			

Non Standard

Federal

HMIRS - Hazardous Materials Information Reporting System

A search of the HMIRS database, dated Sep 1, 2020 has found that there are 7 HMIRS site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1000 CORPORATE BLVD NEWBURGH NY	NNE	0.04 / 210.20	1
	1000 CORPORATE BOULEARD NEWBURGH NY	NNE	0.04 / 210.20	1
	1000 CORPORATE BOULEVARD NEWBURGH NY	NNE	0.04 / 210.20	1
	1000 CORPORATE BOULEARD NEWBURGH NY	NNE	0.04 / 210.20	1
	1000 Corporate Drive NEWBURGH NY	NNE	0.04 / 210.20	1
	1000 CORPORATE BLVD NEWBURGH NY	NNE	0.04 / 210.20	1
	1000 CORPORATE BOULEVARD NEWBURGH NY	NNE	0.04 / 210.20	1

FUDS - Formerly Used Defense Sites

A search of the FUDS database, dated May 26, 2021 has found that there are 1 FUDS site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
STEWART AFB	NEWBURGH NY	WSW	0.77 / 4,049.04	15
	FUDS Property No: *C02NY0704*			

State

NY SPILLS - Spill Incidents Database

A search of the NY SPILLS database, dated Jul 26, 2021 has found that there are 21 NY SPILLS site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
PUNCTURED DRUM	1000 CORPORATE BLVD NEWBURGH NY	NNE	0.04 / 210.20	1
	Spill No* | *Close Date: *2007739* | *2020-12-02 00:00:00*			
DUIE PYLE	1000 CORPORATE BOULEVARD NEWBURGH NY	NNE	0.04 / 210.20	1
	Spill No* | *Close Date: *1501206* | *2016-03-17 00:00:00*			
NEW PENN EXPRESS TRUCKING FACILITY	1000 CORPORATE BLVD NEWBURGH NY	NNE	0.04 / 210.20	1
	Spill No* | *Close Date: *1809138* | *2018-12-05 00:00:00*			
DUIE PYLE	1000 CORPORATE BLVD NEWBURGH NY	NNE	0.04 / 210.20	1
	Spill No* | *Close Date: *1903998* | *2019-10-11 00:00:00*			
CNS GROCERY WHOLESALERS	1800 CORPORATE BLVD NEWBURGH NY	N	0.10 / 511.68	5
	Spill No* | *Close Date: *9814864* | *1999-03-15 00:00:00*			
WESTERN EXPRESS TRUCKING	1500 CORPORATE BLVD NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *2001137* | *2020-05-20 00:00:00*			
BUSINESS LOCATION	1500 CORPORATE BLVD NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *2001144* | *2020-05-20 00:00:00*			
COMMERCIAL CS GROCERY	1500 CORPORATE BLVD NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *1710325* | *2019-01-17 00:00:00*			
ROADWAY	1500 CORP. BLVD NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *1708763* | *2019-01-03 00:00:00*			
STORM DRAIN	1500 CORP DRIVE NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *1700129* | *2017-06-06 00:00:00*			
C&S GROCERS	1500 CORRPORT BLVD NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *1411831* | *2015-07-17 00:00:00*			
PARKING LOT	1500 CORPORATE BLVD. NEWBURGH NY	NNW	0.10 / 545.01	6

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	Spill No* | *Close Date: *0409393* | *2004-11-13 00:00:00*			
ACROSS FROM CALDOR DIST.	1500 CORPORATE BLVD. NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *9402012* | *1994-05-18 00:00:00*			
CORPORATE COMPLEX	1500 CORPORATE BLVD. NEWBURGH NY	NNW	0.10 / 545.01	6
	Spill No* | *Close Date: *0310753* | *2003-12-18 00:00:00*			
BUSINESS	2500 CORPORATE BOULEVARD NEWBURGH NY	N	0.12 / 625.21	7
	Spill No* | *Close Date: *1304480* | *2013-07-24 00:00:00*			

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
MAPLE LEAF OFFICE BLDG	114 17K NEWBURGH NY	SE	0.07 / 386.25	3
	Spill No* | *Close Date: *9904441* | *2001-11-05 00:00:00*			
VEHICLE MAINT. 105TH AIRL	1 MALITIA WAY NEWBURGH NY	SE	0.08 / 438.35	4
	Spill No* | *Close Date: *0312566* | *2004-02-11 00:00:00*			
STEWART AIR BASE	1 MILITIA WY NEWBURGH NY	SE	0.08 / 438.35	4
	Spill No* | *Close Date: *9710598* | *1997-12-17 00:00:00*			
STEWART AIR BASE	1 MALITIA WAY NEWBURGH NY	SE	0.08 / 438.35	4
	Spill No* | *Close Date: *9602070* | *1996-05-13 00:00:00*			
STEWART AIR BASE	1 MILTIA WY NEWBURGH NY	SE	0.08 / 438.35	4
	Spill No* | *Close Date: *9710600* | *1998-01-10 00:00:00*			
STEWART AIR BASE	1 MILITIA WY NEWBURGH NY	SE	0.08 / 438.35	4
	Spill No* | *Close Date: *0200092* | *2002-04-03 00:00:00*			

PFAS - Per- and Polyfluoroalkyl Substances (PFAS)

A search of the PFAS database, dated Jan 16, 2019 has found that there are 3 PFAS site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Air Traffic Control Tower	2 Express Dr Newburgh NY	W	0.48 / 2,550.69	13
American Express Aviation	1 Express Dr Newburgh NY	W	0.50 / 2,620.75	14

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Stewart Air National Guard Base 105AW/EM	1 Maguire Way Newburgh NY	S	0.38 / 2,016.74	12

GEN MANIFEST - Generators from Hazardous Waste Manifests

A search of the GEN MANIFEST database, dated Aug 6, 2021 has found that there are 2 GEN MANIFEST site(s) within approximately 0.12 miles of the project property.

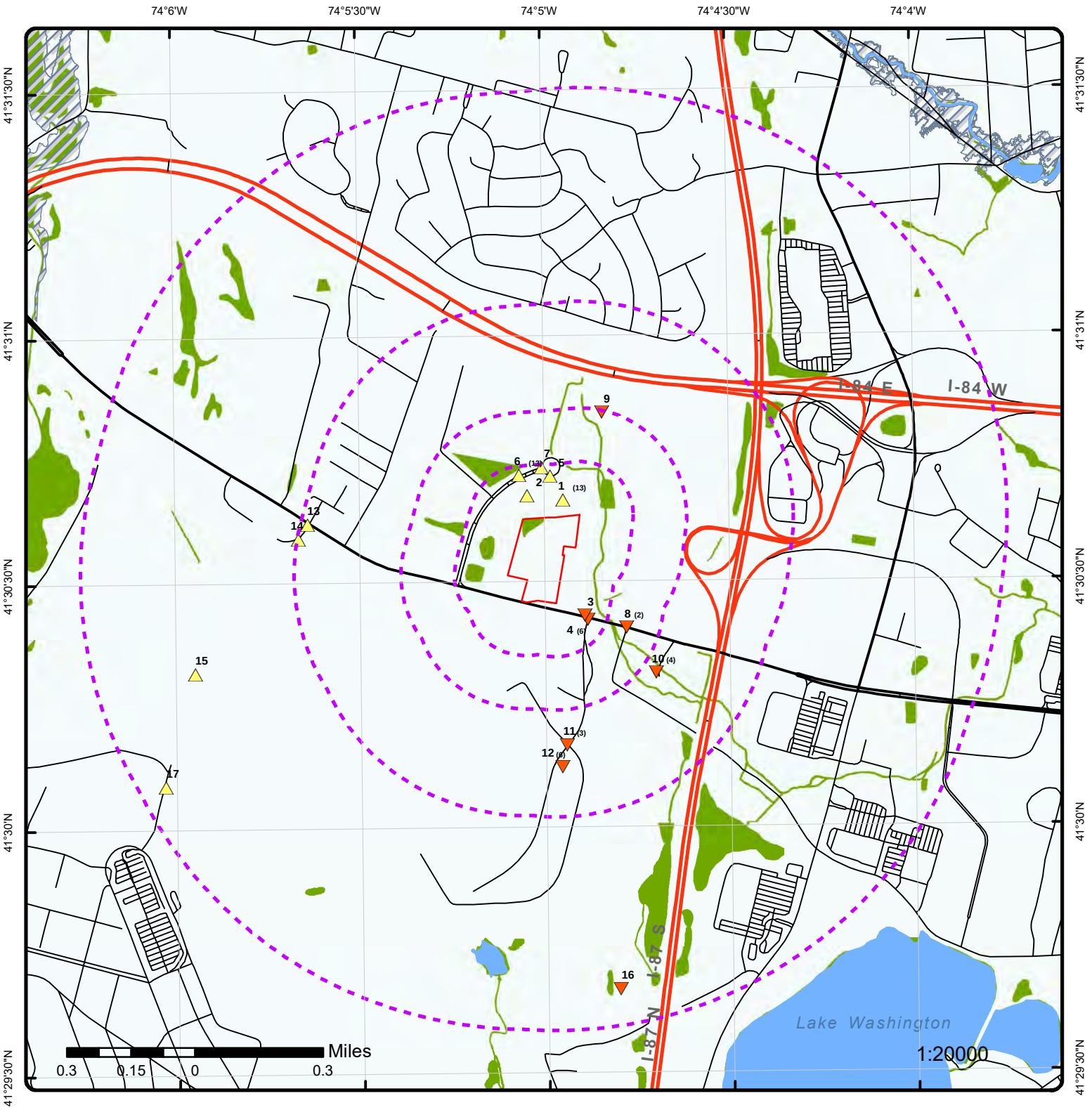
Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
C & S WHOLESALE GROCERS INC #12	1500 CORPORATE BLVD NEWBURGH NY 12550	NNW	0.10 / 545.01	6

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
NY AIR NATIONAL GUARD 105TH	ONE MILITIA WAY NEWBURGH NY 12550	SE	0.08 / 438.35	4

TIER 2 - Tier 2 Report

A search of the TIER 2 database, dated Jan 28, 2019 has found that there are 2 TIER 2 site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Mondelez Global LLC - Newburgh	800 Corporate Boulevard Newburgh NY 12550	NNW	0.05 / 283.15	2
Newburgh	1500 Corporate Boulevard Newburgh NY 12550	NNW	0.10 / 545.01	6



Map: 1.0 Mile Radius

Order Number: 21083000086

Address: 124 Route 17K, Newburgh, NY

- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- County Boundary
- Rails
- Major Highways
- Major Highways Ramps
- Major Roads
- Major Roads Ramps
- Secondary Roads
- Secondary Roads Ramps
- Local Roads and Ramps
- State Boundary
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- Historic Fill
- FWS Special Designation Areas
- State Brownfield Sites
- State Brownfield Areas
- State Superfund Areas:Dept. of Defense
- State Superfund Areas:NPL
- WQARF Areas
- Federal Lands: Dept. of Defense (owned/administered areas)
- Plume

Map: 0.5 Mile Radius

Order Number: 21083000086

Address: 124 Route 17K, Newburgh, NY

ERIS

- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- County Boundary
- Rails
- Major Highways
- Major Highways Ramps
- Major Roads
- Major Roads Ramps
- Secondary Roads
- Secondary Roads Ramps
- Local Roads and Ramps
- State Boundary
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- Historic Fill
- FWS Special Designation Areas
- State Brownfield Sites
- State Brownfield Areas
- State Superfund Areas:Dept. of Defense
- State Superfund Areas:NPL
- WQARF Areas
- Federal Lands: Dept. of Defense (owned/administered areas)
- Plume

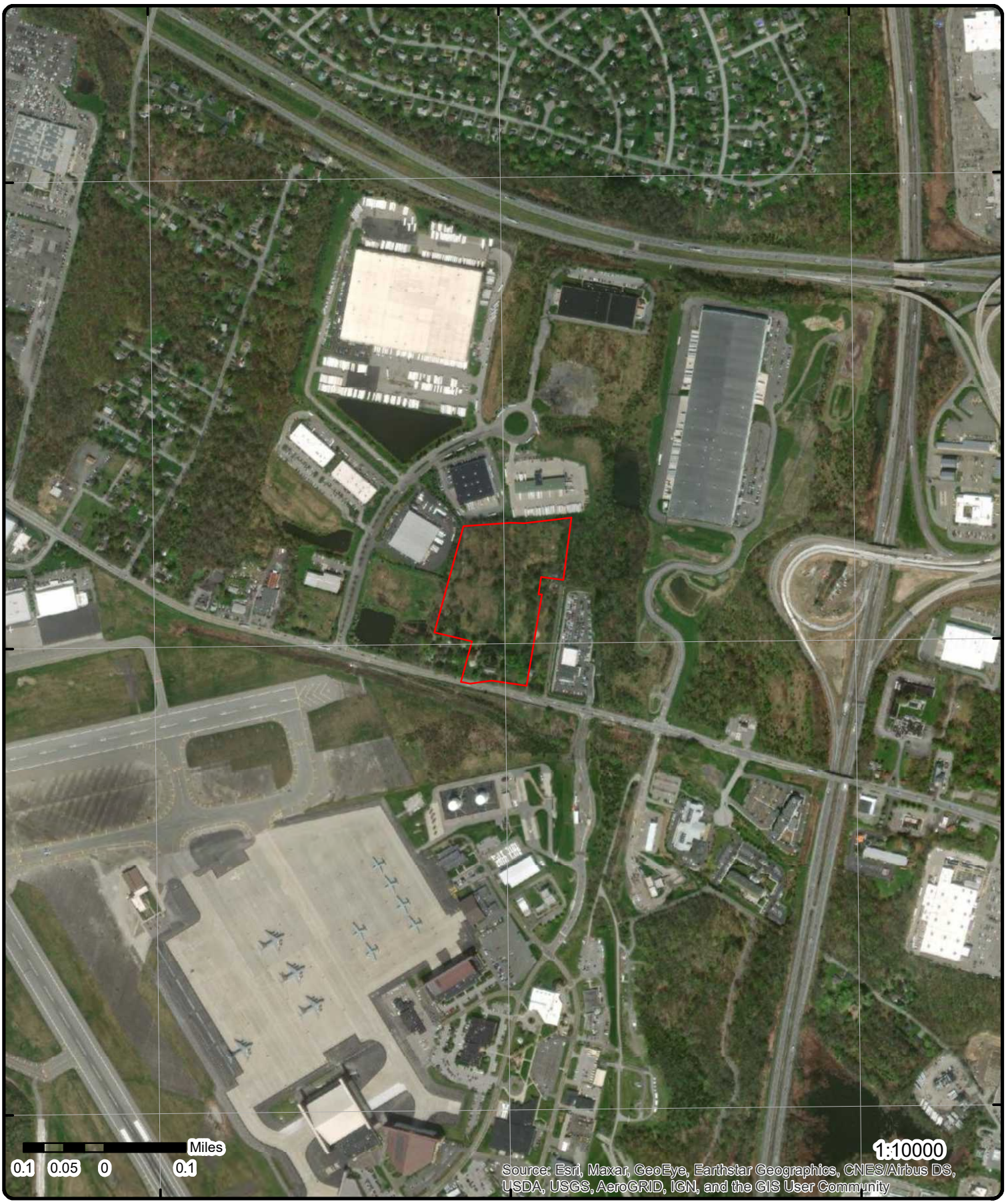
Map: 0.25 Mile Radius

Order Number: 21083000086

Address: 124 Route 17K, Newburgh, NY

- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- County Boundary
- Rails
- Major Highways
- Major Highways Ramps
- Major Roads
- Major Roads Ramps
- Secondary Roads
- Secondary Roads Ramps
- Local Roads and Ramps
- State Boundary
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- Historic Fill
- FWS Special Designation Areas
- State Brownfield Sites
- State Brownfield Areas
- State Superfund Areas:Dept. of Defense
- State Superfund Areas:NPL
- WQARF Areas
- Federal Lands: Dept. of Defense (owned/administered areas)
- Plume

Source: © 2016 ESRI

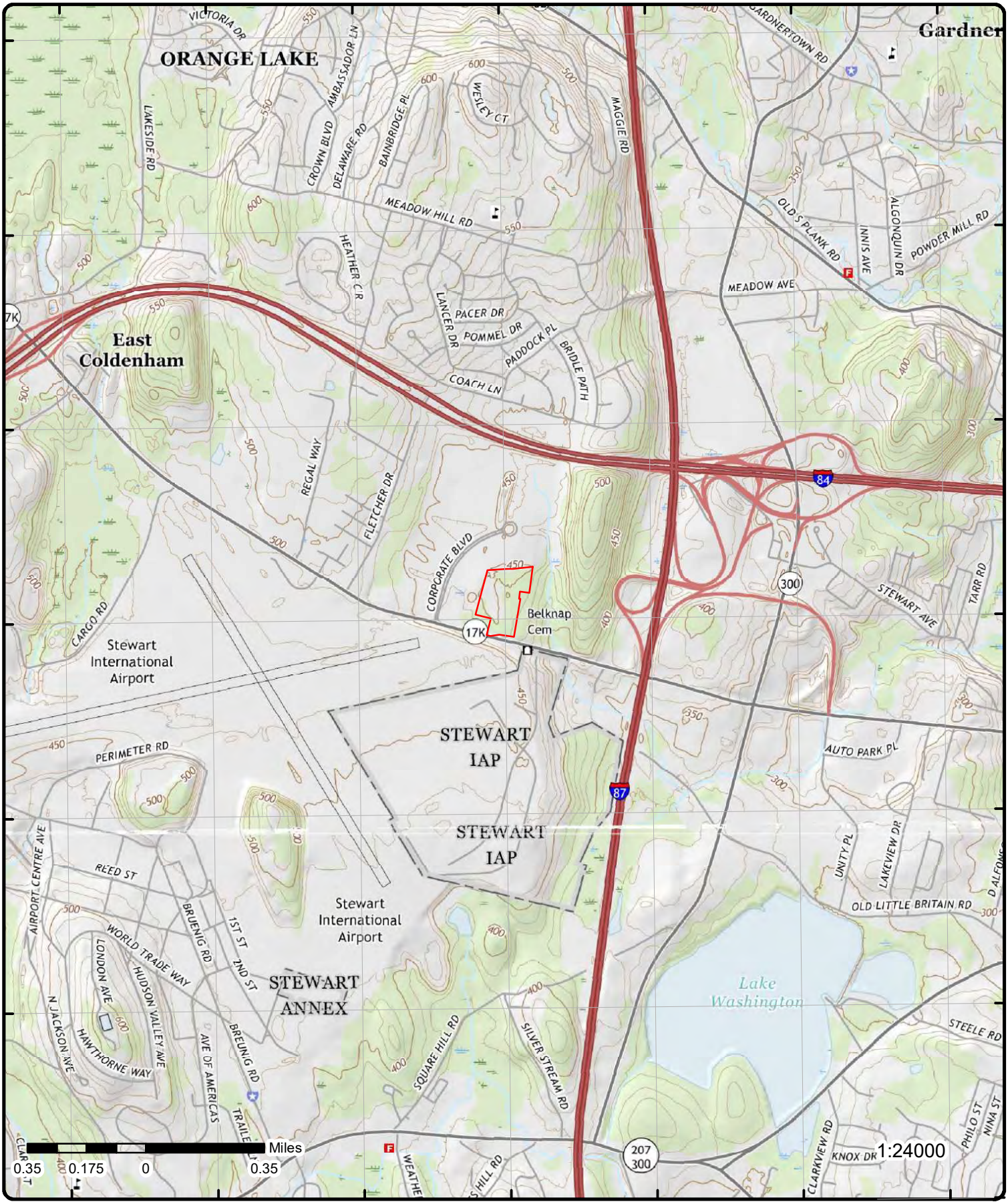


Aerial **Year: 2019**

Order Number: 21083000086

Address: 124 Route 17K, Newburgh, NY

Source: ESRI World Imagery



Topographic Map

Year: 2016

Order Number: 21083000086

Address: 124 Route 17K, NY

Quadrangle(s): Cornwall-on-Hudson, NY; Newburgh, NY

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 13	NNE	0.04 / 210.20	446.40 / 5	A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS) 1000 CORPORATE BOULEVARD NEWBURGH NY 12550	UST

Site ID: 34655
Site Status: Active
Program No: 3-601547
Program Type Code: PBS
Program Type Desc: Petroleum Bulk Storage Program
Site Type: Trucking/Transportation/Fleet Operation
Expiry: 2025/05/26
County: Orange
UTM X: 576564.37381
UTM Y: 4595903.29848

Tank Information

Prog No: 3-601547
Tank ID: 83139
Tank No: 001
Tank Status: 3
Tank Status Desc: Closed - Removed
Tank Type: 04
Tank Type Desc: Fiberglass Coated Steel
Install Date: 1996-05-01 00:00:00
Close Date: 2018-11-29 00:00:00
Tk Out of Serv Dt:
Capacity (Gal): 12000
Registered: True
Tank Model:
Pipe Model:
UDC Ind: 0
Red Tag Start Date:
Red Tag End Date:
Tank Last Test:
Tank Next Test Due:
Test Method: -
Date Tested:
Next Test:
Line Last Test Due:
Next Line Test Due:
Line Test Method: -
Modified by: GAAHLERS
Last Modified: 2019-08-19 15:29:47.913000000
Tank Location: 5
Tank Location Desc: Underground
Category: 2
Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart: 2
Subpart Desc: Subpart 2 contains requirements for USTs (underground storage tanks) subject to EPA UST regulations and DEC requirements.
Class A Operator: VINCE RIVEIRO
Class B Operator: HAROLD SMITH
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: diesel
Percent: 100.00

Equipment Information

Equipment: B02
Code Name: Original Sacrificial Anode
Type: Tank External Protection

Equipment: C02
Code Name: Underground/On-ground
Type: Pipe Location

Equipment: K01

Code Name: Catch Basin
Type: Spill Prevention

Equipment: G04
Code Name: Double-Walled (Underground)
Type: Tank Secondary Containment

Equipment: I03
Code Name: Automatic Shut-Off
Type: Overfill

Equipment: J02
Code Name: Suction Dispenser
Type: Dispenser

Equipment: I02
Code Name: High Level Alarm
Type: Overfill

Equipment: E04
Code Name: Double walled UG
Type: Piping Secondary Containment

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: D11
Code Name: Flexible Piping
Type: Pipe Type

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: H01
Code Name: Interstitial - Electronic Monitoring
Type: Tank Leak Detection

Equipment: L01
Code Name: Interstitial - Electronic Monitoring
Type: Piping Leak Detection

Equipment: B04
Code Name: Fiberglass
Type: Tank External Protection

Affiliation Information

Affiliation Type: 01
Affiliation Name: Facility Owner
Affiliation Sub Type: E
Company: A. DUIE PYLE, INC.
Contact Title: DIRECTOR OF FACILITIES
Contact Name: TIMOTHY A. KOCH
Address1: PO BOX 564
Address2:
City: WEST CHESTER
State: PA
Zip Code: 19381
Country Code: 001
Phone: (610) 350-3048
Phone Ext:
Email: TKOCH@ADUIEPYLE.COM
Fax:

Affiliation Type: 07
Affiliation Name: Mail Contact

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Affiliation Sub Type:	E
Company:	A. DUIE PYLE, INC.
Contact Title:	DIRECTOR OF FACILITIES
Contact Name:	TIMOTHY A. KOCH
Address1:	PO BOX 564
Address2:	
City:	WEST CHESTER
State:	PA
Zip Code:	19381
Country Code:	001
Phone:	(610) 350-3048
Phone Ext:	
Email:	TKOCH@ADUIEPYLE.COM
Fax:	

Affiliation Type:	11
Affiliation Name:	Emergency Contact
Affiliation Sub Type:	NNN
Company:	A. DUIE PYLE, INC.
Contact Title:	
Contact Name:	TIMOTHY A. KOCH
Address1:	
Address2:	
City:	
State:	NN
Zip Code:	
Country Code:	001
Phone:	(610) 587-4712
Phone Ext:	
Email:	
Fax:	

Affiliation Type:	04
Affiliation Name:	Facility Operator
Affiliation Sub Type:	NNN
Company:	NEW PENN MOTOR EXPRESS, INC. (NPME)
Contact Title:	
Contact Name:	A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)
Address1:	
Address2:	
City:	
State:	NN
Zip Code:	
Country Code:	001
Phone:	(845) 567-1090
Phone Ext:	
Email:	
Fax:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	2 of 13	NNE	0.04 / 210.20	446.40 / 5	1000 CORPORATE BOULEARD NEWBURGH NY	HMIRS

Incident County: ORANGE

HMIR Historical Reports

Report No:	I-2009010064	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	12/08/2008	**Report Submit Src:**	Paper
Time of Incident:	0330	**Inc Multiple Rows:**	No
Haz Class Code:	8	**Inc Non US State:**	
Hazardous Class:	CORROSIVE MATERIAL	**Mode Transport:**	Highway
Commodity Short Nm:	CORROSIVE LIQUID BASIC	**Transport Phase:**	UNLOADING
Commodity Long Nm:	CORROSIVE LIQUID BASIC INORGANIC N. O.S.	**Incident Occrrnce:**	
Trade Name:	POTASSIUM HYDROXIDE	**Mat Ship Approval?:**	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

ID No:	UN3266	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	I
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.023438	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	109	**CR State:**	PA
What Failed Desc:	Closure (e.g. Cap Top or Plug)	**CR Postal Code:**	17042-7715
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	061206 001 005
Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	KONICA MINOLTA PHOTO IMAGING USA INC
Cont1 Pkging Type:	Box	**Shipper Street Name:**	6255 BROOK HOLLOW PKWY
Cont1 Const Mat:	Fiberboard	**Shipper City:**	NORCROSS
Cont1 Head Type:		**Shipper State:**	GA
Cont1 Pkg Capacity:	5	**Shipper Postal:**	30071-4618
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	03131319
Cont1 Pkg No:	1	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	NORCROSS
Cont1 Pkg Mnfctr:		**Origin State:**	GEORGIA
Cont1 Pkg Mnfct Dt:		**Origin Postal:**	30071
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:		**Origin Country:**	US
C1 Test Const Mat:	Fiberboard	**Destination City:**	THORNWOOD
C1 Pkg Dsign Pres.:		**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	10594
C1 Pkg Shell Thick:		**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:		**Cont2 Package Type:**	Can
C1 Head Thick UOM:		**Cont2 Const Mat:**	Plastic
C1 Pkg Srvc Pres.:		**Cont2 Pkg Capacity:**	5
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	LGA
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	5
C1 Device Type:		**Cont2 Pkg Amt UOM:**	LGA
C1 Device Mnfctr:		**Cont2 Pkg No:**	1
C1 Device Model:		**Cont2 Pkg No Failed:**	1
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	0
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	0
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:		**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR. MGR. - INDUST. SAFETY & ENVIRON.
Material Loss:	0	**Contact Business:**	YRC INC.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Carrier Damage:	0	**Contact Street:**	10990 ROE AVE.
Property Damage:	0	**Contact City:**	Overland Park
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	BOX FBR
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Fiberboard box or carton
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: THIS WAS SHRINKWRAPPED TO A SKID FROM THE SHIPPER. WE NOTICED THAT ONE CARTON WAS WET ON THE BOTTOM. WE HAVE OVERPACKED THE CARTON PENDING DISPOSITION FROM THE SHIPPER.

Recommend Actions Taken: WE FOLLOWED UP WITH THE SHIPPER AND THEY WILL ADDRESS THIS ISSUE WITH THE SHIPPING DEPT.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	3 of 13	NNE	0.04 / 210.20	446.40 / 5	1000 CORPORATE BOULEVARD NEWBURGH NY	HMIRS

Incident County: ORANGE

HMIR Historical Reports

Report No:	I-2014050247	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	03/17/2014	**Report Submit Src:**	Paper
Time of Incident:	0230	**Inc Multiple Rows:**	No
Haz Class Code:	3	**Inc Non US State:**	
Hazardous Class:	FLAMMABLE - COMBUSTIBLE LIQUID	**Mode Transport:**	Highway
Commodity Short Nm:	RESIN SOLUTION FLAMMABLE	**Transport Phase:**	UNLOADING
Commodity Long Nm:	RESIN SOLUTION FLAMMABLE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1866	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	III
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.1250	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	104	**CR State:**	PA
What Failed Desc:	Body	**CR Postal Code:**	17042-7715
How Failed Code:	305	**CR Non US State:**	
How Failed Desc:	Crushed	**CR Fed DOT ID:**	10670
Failure Cause Code:	534	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Too Much Weight on Package	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	KEMPER SYSTEM AMERICA INC.
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	2327 PINDOS DR
Cont1 Const Mat:	Plastic	**Shipper City:**	CARY
Cont1 Head Type:		**Shipper State:**	NC
Cont1 Pkg Capacity:	10	**Shipper Postal:**	27519-6839
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	10	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	20622930
Cont1 Pkg No:	81	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	WEST SENECA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Cont1 Pkg Mnfctr:		***Origin State:***	NEW YORK
Cont1 Pkg Mnfct Dt:		***Origin Postal:***	14224
Cont1 Pkg Serial NO:		***Origin Non US St:***	
C1 Pkg Last Test Dt:		***Origin Country:***	US
C1 Test Const Mat:	Plastic	***Destination City:***	CLOSTER
C1 Pkg Dsign Pres.:		***Destination State:***	NEW JERSEY
C1 Dsign Press UOM:		***Destination Postal:***	07624
C1 Pkg Shell Thick:		***Destination Non US:***	
C1 Shell Thick UOM:		***Destination Country:***	US
C1 Head Thickness:		***Cont2 Package Type:***	
C1 Head Thick UOM:		***Cont2 Const Mat:***	
C1 Pkg Srvc Pres.:		***Cont2 Pkg Capacity:***	
C1 Srvc Press UOM:		***Cont2 Capacity UOM:***	
C1 Valve/Device Fail?:	No	***Cont2 Pkg Amount:***	
C1 Device Type:		***Cont2 Pkg Amt UOM:***	
C1 Device Mnfctr:		***Cont2 Pkg No:***	
C1 Device Model:		***Cont2 Pkg No Failed:***	
NRC No:			

RAM Pkg Category:		***Haz NonHosp Public:***	0
RAM Pkg Cert.:	FALSE	***Haz NonHosp Old:***	0
RAM Pkg Cert. NBR:		***Tot Haz Non Hosp Inj:***	0
RAM Nuclide S:		***Total Hazmat Injuries:***	0
RAM Transport Index:		***Evacuation Indicator:***	No
RAM UOM:		***Public Evacuated:***	0
RAM Activity Rpted:		***Employees Evac:***	0
RAM UOM Rpted:		***Total Evacuated:***	0
RAM Activity:	0	***Total Evacuation Hrs:***	0
RAM Activity UOM:		***Major Artery Closed:***	No
RAM Mat Safety:		***Mjr Artery Hrs Closed:***	0
Spillage Result:	Yes	***Material Involved:***	No
Fire Result:	No	***Estimated Speed:***	0
Explosion Result:	No	***Weather Conditions:***	
Water Sewer Result:	No	***Vehicle Overturn:***	No
Gas Dispersion:	No	***Vehicle Left Roadway:***	No
Environment Damage:	No	***Passenger Aircraft:***	No
No Release Result:	No	***Cargo Baggage:***	
Fire EMS Report:	No	***Ship Non Transport:***	No
Fire EMS EMS Report:		***Ship Air First Flight:***	No
Police Report:	No	***Ship Air Subflight:***	No
Police Report No:		***Ship Init Transport:***	No
In House Cleanup:	Yes	***Ship Phase Transfer:***	No
Other Cleanup:	No	***Contact Name:***	SUSAN CAMARA
Damage > 500:	No	***Contact Title:***	MANAGER - SAFETY
Material Loss:	0	***Contact Business:***	YRC INC
Carrier Damage:	0	***Contact Street:***	10990 ROE AVENUE
Property Damage:	0	***Contact City:***	Overland Park
Response Cost:	0	***Contact State:***	KS
Remediation Cost:	0	***Contact Postal:***	66211
Damage Old Form:	0	***Contact Non US St:***	
Total Damages Amt:	0	***Contact Country:***	US
Hazmat Fatality:	No	***Inc. Report Prepared:***	Carrier
Haz Fatal Employees:	0	***HMIS Serious Incidnt:***	No
Haz Fatal Respndrs:	0	***HMIS Serious Fatality:***	No
Haz Fatal Gen Public:	0	***HMIS Serious Injury:***	No
Tot Hazmat Fatalities:	0	***HMIS Flight Plan:***	No
Non Hazmat Fatality:	No	***HMIS Serious Evacs:***	No
Non Hazmat Fatals:	0	***HMIS Major Artery:***	No
Hazmat Injury:	No	***HMIS Bulk Release:***	No
Haz Hospital Empl:	0	***HMIS Marine Pollutnt:***	No
Haz Hospital Resp:	0	***HMIS Radioactive:***	No
Haz Hosp Gen Public:	0	***HMIS Gen Pkg Type:***	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	***HMIS Container Code:***	PAIL PLS
Total Haz Hosp Inj:	0	***HMIS Container Desc:***	Plastic pail open head capacity 10 gallons or less
Haz Non Hosp Empl:	0	***HMIS Bulk Incident:***	No
Haz Non Hosp Resp:	0	***Undeclared Shipment:***	No

Description of Events: THE WEIGHT FROM THE FREIGHT LOADED ON THIS SKID CRUSHED A PAIL ON THE BOTTOM. THIS SKID WAS LOADED BY THE SHIPPER. WE OVERPACKED THE DAMAGED PAIL AND ARE HOLDING FOR

DISPOSITION. WE FORWARDED THE REMAINDER OF THE SHIPMENT TO THE CONSIGNEE. SPILLAGE CLEANED UP ACCORDING TO PROPER PROCEDURES.

Recommend Actions Taken: WE CONTACTED THE ORIGIN TERMINAL TO FOLLOW UP WITH THE SHIPPER.

HMIR Historical Reports

Report No:	I-2012080161	***Fed DOT Agency Nm:***	
Report Type:	A hazardous material incident	***Fed DOT Report No:***	
Date of Incident:	05/29/2012	***Report Submit Src:***	Paper
Time of Incident:	2045	***Inc Multiple Rows:***	No
Haz Class Code:	3	***Inc Non US State:***	
Hazardous Class:	FLAMMABLE - COMBUSTIBLE LIQUID	***Mode Transport:***	Highway
Commodity Short Nm:	ISOPROPANOL OR ISOPROPYL	***Transport Phase:***	UNLOADING
Commodity Long Nm:	ISOPROPANOL OR ISOPROPYL ALCOHOL	***Incident Occrrnce:***	
Trade Name:		***Mat Ship Approval?:***	No
ID No:	UN1219	***Mat Ship Approv No:***	
Haz Waste Ind:	No	***Undecl Hazmat Ship?:***	No
Haz Waste EPA No:		***Packaging Type:***	Non-Bulk
HMIS Tox Inhalation?:	No	***Packing Group:***	II
TIH Hazard Zone:		***Carrier Reporter:***	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.093750	***CR Street Name:***	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	***CR City:***	LEBANON
What Failed:	104	***CR State:***	PA
What Failed Desc:	Body	***CR Postal Code:***	17042-7715
How Failed Code:	309	***CR Non US State:***	
How Failed Desc:	Punctured	***CR Fed DOT ID:***	10670
Failure Cause Code:	513	***CR Hazmat Reg ID:***	060707550078PR
Failure Cause Desc:	Forklift Accident	***CR Country:***	US
Ident. Markings:		***Shipper Name:***	GREENFIELD GLOBAL USA INC.
Cont1 Pkging Type:	Jerrican	***Shipper Street Name:***	58 VALE RD
Cont1 Const Mat:	Steel	***Shipper City:***	BROOKFIELD
Cont1 Head Type:		***Shipper State:***	CT
Cont1 Pkg Capacity:	5	***Shipper Postal:***	06804-3984
C1 Capacity UOM:	LGA	***Shipper Non US St:***	
Cont1 Pkg Amt:	5	***Shipper Country:***	US
C1 Pkg Amt UOM:	LGA	***Shipper Waybill:***	22455327
Cont1 Pkg No:	3	***Ship Hazmat Reg ID:***	
C1 Pkg NO Failed:	1	***Origin City:***	BROOKFIELD
Cont1 Pkg Mnfctr:		***Origin State:***	CONNECTICUT
Cont1 Pkg Mnfct Dt:		***Origin Postal:***	06804
Cont1 Pkg Serial NO:		***Origin Non US St:***	
C1 Pkg Last Test Dt:		***Origin Country:***	US
C1 Test Const Mat:	Steel	***Destination City:***	BELLEFONTE
C1 Pkg Dsign Pres.:		***Destination State:***	PENNSYLVANIA
C1 Dsign Press UOM:		***Destination Postal:***	16823
C1 Pkg Shell Thick:		***Destination Non US:***	
C1 Shell Thick UOM:		***Destination Country:***	US
C1 Head Thickness:		***Cont2 Package Type:***	
C1 Head Thick UOM:		***Cont2 Const Mat:***	
C1 Pkg Srvc Pres.:		***Cont2 Pkg Capacity:***	
C1 Srvc Press UOM:		***Cont2 Capacity UOM:***	
C1 Valve/Device Fail?:	No	***Cont2 Pkg Amount:***	
C1 Device Type:		***Cont2 Pkg Amt UOM:***	
C1 Device Mnfctr:		***Cont2 Pkg No:***	
C1 Device Model:		***Cont2 Pkg No Failed:***	
NRC No:			

RAM Pkg Category:		***Haz NonHosp Public:***	0
RAM Pkg Cert.:	FALSE	***Haz NonHosp Old:***	0
RAM Pkg Cert. NBR:		***Tot Haz Non Hosp Inj:***	0
RAM Nuclide S:		***Total Hazmat Injuries:***	0
RAM Transport Index:		***Evacuation Indicator:***	No
RAM UOM:		***Public Evacuated:***	0
RAM Activity Rpted:		***Employees Evac:***	0
RAM UOM Rpted:		***Total Evacuated:***	0
RAM Activity:		***Total Evacuation Hrs:***	0
RAM Activity UOM:		***Major Artery Closed:***	No
RAM Mat Safety:		***Mjr Artery Hrs Closed:***	0

Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR. MGR. - INDUST. SAFETY & ENVIRON.
Material Loss:	0	**Contact Business:**	YRC INC.
Carrier Damage:	0	**Contact Street:**	10990 ROE AVE.
Property Damage:	0	**Contact City:**	Overland Park
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	CONT
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Container no description given (do not use if at all possible)
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE TRAILER THE DOCK WORKER HIT THE DRUM WITH HIS FORKS. HE IMMEDIATELY TURNED THE DRUM ON ITS SIDE AND NOTIFIED THE SUPERVISOR. HE OVERPACKED THE DAMAGED PAIL AND THE REMAINDER OF THE SHIPMENT WAS FORWARDED TO THE CONSIGNEE.

Recommend Actions Taken: WE ISSUED DISCIPLINE TO THE EMPLOYEE FOR NOT OPERATING A FORKLIFT SAFELY.

HMIR Historical Reports

Report No:	I-2007070368	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	06/29/2007	**Report Submit Src:**	Paper
Time of Incident:	0530	**Inc Multiple Rows:**	No
Haz Class Code:	8	**Inc Non US State:**	
Hazardous Class:	CORROSIVE MATERIAL	**Mode Transport:**	Highway
Commodity Short Nm:	CORROSIVE LIQUIDS N.O.S.	**Transport Phase:**	UNLOADING
Commodity Long Nm:	CORROSIVE LIQUIDS N.O.S.	**Incident Occrrnce:**	
Trade Name:	2-PHOSPHONO-1 2 4-BUTANETRICARBOXYLIC ACIT	**Mat Ship Approval?:**	No
ID No:	UN1760	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.031250	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	140	**CR State:**	PA
What Failed Desc:	Outer Frame	**CR Postal Code:**	17042-7715
How Failed Code:	309	**CR Non US State:**	
How Failed Desc:	Punctured	**CR Fed DOT ID:**	10670
Failure Cause Code:	516	**CR Hazmat Reg ID:**	061206001005O
Failure Cause Desc:	Impact with Sharp or Protruding Object (e.g. nails)	**CR Country:**	US

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Ident. Markings:		**Shipper Name:**	REDUX TECHNOLOGY
Cont1 Pkging Type:	Drum	**Shipper Street Name:**	THOUSAND OAKS CORP CTR
Cont1 Const Mat:	Plastic	**Shipper City:**	MORGANTOWN
Cont1 Head Type:		**Shipper State:**	PA
Cont1 Pkg Capacity:	55	**Shipper Postal:**	19543
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	55	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	02205062
Cont1 Pkg No:	2	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	MORGANTOWN
Cont1 Pkg Mnfctr:		**Origin State:**	PENNSYLVANIA
Cont1 Pkg Mnfct Dt:		**Origin Postal:**	19543
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:		**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	DANBURY
C1 Pkg Dsign Pres.:		**Destination State:**	CONNECTICUT
C1 Dsign Press UOM:		**Destination Postal:**	06810
C1 Pkg Shell Thick:		**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:		**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:		**Cont2 Pkg Capacity:**	
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	
C1 Device Model:		**Cont2 Pkg No Failed:**	
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	0
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	0
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:		**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	MICHAEL N WINDSOR
Damage > 500:	No	**Contact Title:**	MANAGER - HAZARDOUS MATERIALS
Material Loss:	0	**Contact Business:**	YELLOW TRANSPORTATION
Carrier Damage:	0	**Contact Street:**	10990 ROE AVENUE
Property Damage:	0	**Contact City:**	OVERLAND PARK
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	DRUM PLS
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Plastic drum
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE DOCK WORKER NOTICED A SMALL AMOUNT OF LIQUID ON THE FLOOR AND LEAKING FROM THE BOTTOM OF ONE OF THE DRUMS. AFFECTED MATERIALS PLACED IN A SALVAGE DRUM PENDING DISPOSITION FROM THE SHIPPER. THE REMAINDER OF THE SHIPMENT FORWARDED TO THE CONSIGNEE.

Recommend Actions Taken: WE CONTACTED THE SHIPPER AND THEY ARE TAKING THE DRUM BACK FOR INSPECTION AND CORRECTIVE ACTION.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	4 of 13	NNE	0.04 / 210.20	446.40 / 5	1000 CORPORATE BLVD NEWBURGH NY	HMIRS

Incident County: ORANGE

HMIR Historical Reports

Report No:	I-2012040443	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	03/22/2012	**Report Submit Src:**	Paper
Time of Incident:	1445	**Inc Multiple Rows:**	No
Haz Class Code:	3	**Inc Non US State:**	
Hazardous Class:	FLAMMABLE - COMBUSTIBLE LIQUID	**Mode Transport:**	Highway
Commodity Short Nm:	PAINT INCLUDING PAINT L	**Transport Phase:**	UNLOADING
Commodity Long Nm:	PAINT INCLUDING PAINT LACQUER ENAMEL STAIN SHELLAC SOLUTIONS VARNISH POLISH LIQUID FILLER AND LIQUID LACQUER BASE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1263	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.046875	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	109	**CR State:**	PA
What Failed Desc:	Closure (e.g. Cap Top or Plug)	**CR Postal Code:**	17042-7715
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	
Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	CARBOLINE COMPANY
Cont1 Pkging Type:	Box	**Shipper Street Name:**	627 MT HOPE RD
Cont1 Const Mat:	Fiberboard	**Shipper City:**	ROCKAWAY
Cont1 Head Type:		**Shipper State:**	NJ
Cont1 Pkg Capacity:	0.50	**Shipper Postal:**	07866
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	0.50	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	06255106
Cont1 Pkg No:	1	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	ROCKAWAY
Cont1 Pkg Mnfctr:		**Origin State:**	NEW JERSEY
Cont1 Pkg Mnfct Dt:		**Origin Postal:**	07866
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:		**Origin Country:**	US
C1 Test Const Mat:	Fiberboard	**Destination City:**	CROTON ON HUDSON
C1 Pkg Dsign Pres.:		**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	10520
C1 Pkg Shell Thick:		**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:		**Cont2 Package Type:**	Can

C1 Head Thick UOM:		**Cont2 Const Mat:**	Metal (any type)
C1 Pkg Srvc Pres.:		**Cont2 Pkg Capacity:**	1
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	LPT
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	1
C1 Device Type:		**Cont2 Pkg Amt UOM:**	LPT
C1 Device Mnfctr:		**Cont2 Pkg No:**	4
C1 Device Model:		**Cont2 Pkg No Failed:**	2
NRC No:			
RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	0
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	0
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:		**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR MGR - INDUSTRIAL SAFETY AND ENV
Material Loss:	0	**Contact Business:**	YRC INC.
Carrier Damage:	0	**Contact Street:**	10990 ROE AVE.
Property Damage:	0	**Contact City:**	OVERLAND PARK
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	BOX FBR
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Fiberboard box or carton
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE TRAILER ONE CARTON WAS FOUND LEAKING. THE LIDS HAD POPPED OFF THE PAILS. THE RELEASE WAS PROPERLY MANAGED. THE DAMAGED FREIGHT WAS PLACED INTO A LINED SALVAGE DRUM AND HELD PENDING DISPOSITION FROM THE SHIPPER.

Recommend Actions Taken: THE SHIPPER MUST ENSURE PROPER PACKAGING.

HMIR Historical Reports

Report No:	I-2011120327	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	10/21/2011	**Report Submit Src:**	Paper
Time of Incident:	0600	**Inc Multiple Rows:**	No
Haz Class Code:	3	**Inc Non US State:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Hazardous Class:	FLAMMABLE - COMBUSTIBLE LIQUID	**Mode Transport:**	Highway
Commodity Short Nm:	PAINT INCLUDING PAINT L	**Transport Phase:**	UNLOADING
Commodity Long Nm:	PAINT INCLUDING PAINT LACQUER ENAMEL STAIN SHELLAC SOLUTIONS VARNISH POLISH LIQUID FILLER AND LIQUID LACQUER BASE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1263	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.50	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	128	**CR State:**	PA
What Failed Desc:	Inner Packaging	**CR Postal Code:**	17042-7715
How Failed Code:	303	**CR Non US State:**	
How Failed Desc:	Burst or Ruptured	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	CARBOLINE COMPANY
Cont1 Pkging Type:	Box	**Shipper Street Name:**	1301 S PARK AVE 9
Cont1 Const Mat:	Fiberboard	**Shipper City:**	LINDEN
Cont1 Head Type:		**Shipper State:**	NJ
Cont1 Pkg Capacity:	4	**Shipper Postal:**	07036-1605
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	4	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	06211573
Cont1 Pkg No:	18	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	NEW WINDSOR
Cont1 Pkg Mnfctr:		**Origin State:**	NEW YORK
Cont1 Pkg Mnfct Dt:		**Origin Postal:**	12553
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:		**Origin Country:**	US
C1 Test Const Mat:	Fiberboard	**Destination City:**	NEW WINDSOR
C1 Pkg Dsign Pres.:		**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	12553
C1 Pkg Shell Thick:		**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:		**Cont2 Package Type:**	Can
C1 Head Thick UOM:		**Cont2 Const Mat:**	Metal (any type)
C1 Pkg Srvc Pres.:		**Cont2 Pkg Capacity:**	1
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	LGA
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	1
C1 Device Type:		**Cont2 Pkg Amt UOM:**	LGA
C1 Device Mnfctr:		**Cont2 Pkg No:**	72
C1 Device Model:		**Cont2 Pkg No Failed:**	1
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	0
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	0
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:		**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No

Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR MGR INDUSTRIAL SAFETY AND ENV
Material Loss:	0	**Contact Business:**	YRC INC
Carrier Damage:	0	**Contact Street:**	10990 ROE AVENUE
Property Damage:	0	**Contact City:**	OVERLAND PARK
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	BOX FBR
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Fiberboard box or carton
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE DOCKWORKER NOTICED A WET CARTON. HE OVERPACKED THE CARTON AND THE EFFECTED CARTONS INTO A PAIL. WE ARE HOLDING THIS FOR DISPOSITION. THE REMAINDER OF THE SHIPMENT WAS TO DESTINATION.

Recommend Actions Taken: WE FOLLOWED UP WITH THE LOADING TERMINAL. THEY WILL HOLD PRE-SHIFT MEETINGS ON THIS TOPIC.

HMIR Historical Reports

Report No:	I-2006120784	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	09/26/2006	**Report Submit Src:**	Paper
Time of Incident:	2030	**Inc Multiple Rows:**	No
Haz Class Code:	3	**Inc Non US State:**	
Hazardous Class:	FLAMMABLE - COMBUSTIBLE LIQUID	**Mode Transport:**	Highway
Commodity Short Nm:	PRINTING INK FLAMMABLE	**Transport Phase:**	UNLOADING
Commodity Long Nm:	PRINTING INK FLAMMABLE OR PRINTING INK RELATED MATERIAL (INCLUDING PRINTING INK THINNING OR REDUCING COMPOUND) FLAMMABLE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1210	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.1250	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	104	**CR State:**	PA
What Failed Desc:	Body	**CR Postal Code:**	17042-7715
How Failed Code:	311	**CR Non US State:**	
How Failed Desc:	Structural	**CR Fed DOT ID:**	10670
Failure Cause Code:	517	**CR Hazmat Reg ID:**	061206001005O
Failure Cause Desc:	Improper Preparation for Transportation	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	GOTHAM INK & COLOR CO. INC.
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	19 HOLT DR
Cont1 Const Mat:	Metal other than steel or aluminum	**Shipper City:**	STONY POINT
Cont1 Head Type:		**Shipper State:**	NY
Cont1 Pkg Capacity:	5	**Shipper Postal:**	10980-1919
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	22051058

Cont1 Pkg No:	20	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	STONY POINT
Cont1 Pkg Mnfctr:		**Origin State:**	NEW YORK
Cont1 Pkg Mnfct Dt:		**Origin Postal:**	10980
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:		**Origin Country:**	US
C1 Test Const Mat:	Metal other than steel or aluminum	**Destination City:**	PHILADELPHIA
C1 Pkg Dsign Pres.:		**Destination State:**	PENNSYLVANIA
C1 Dsign Press UOM:		**Destination Postal:**	19120
C1 Pkg Shell Thick:		**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:		**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:		**Cont2 Pkg Capacity:**	
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	
C1 Device Model:		**Cont2 Pkg No Failed:**	
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	0
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	0
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:		**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	MICHAEL N. WINDSOR
Damage > 500:	No	**Contact Title:**	MANAGER HAZARDOUS MATERIALS
Material Loss:	0	**Contact Business:**	USF HOLLAND
Carrier Damage:	0	**Contact Street:**	750 E 40TH ST
Property Damage:	0	**Contact City:**	HOLLAND
Response Cost:	0	**Contact State:**	MI
Remediation Cost:	0	**Contact Postal:**	49423
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	PAIL MTL
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Metal pail open head capacity 10 gallons or less
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events:	WHILE UNLOADING THE DOCKWORKER NOTICED THAT ONE PAIL WAS LEAKING DUE TO POOR PACKAGING. AFFECTED MATERIAL PLACED IN AN OVERPACK PENDING DISPOSITION FROM THE SHIPPER. THE REMAINDER OF THE SHIPMENT WAS FORWARDED TO THE CONSIGNEE.
Recommend Actions Taken:	WE COVERED THIS WITH THE SALES REP AND ALSO THE DRIVER THAT PICKED THIS UP. THIS WILL HOPEFULLY REDUCE THE CHANCE OF THIS TYPE OF DAMAGE FROM HAPPENING IN THE FUTURE.

HMIR Historical Reports

Report No:	I-2017110107	***Fed DOT Agency Nm:***	
Report Type:	A hazardous material incident	***Fed DOT Report No:***	
Date of Incident:	10/30/2017	***Report Submit Src:***	Paper
Time of Incident:	1600	***Inc Multiple Rows:***	No
Haz Class Code:	8	***Inc Non US State:***	
Hazardous Class:	CORROSIVE MATERIAL	***Mode Transport:***	Highway
Commodity Short Nm:	HYPOCHLORITE SOLUTIONS	***Transport Phase:***	UNLOADING
Commodity Long Nm:	HYPOCHLORITE SOLUTIONS	***Incident Occrrnce:***	
Trade Name:		***Mat Ship Approval?:***	No
ID No:	UN1791	***Mat Ship Approv No:***	
Haz Waste Ind:	No	***Undecl Hazmat Ship?:***	No
Haz Waste EPA No:		***Packaging Type:***	Non-Bulk
HMIS Tox Inhalation?:	No	***Packing Group:***	III
TIH Hazard Zone:		***Carrier Reporter:***	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.007812	***CR Street Name:***	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	***CR City:***	LEBANON
What Failed:	109	***CR State:***	PA
What Failed Desc:	Closure (e.g. Cap Top or Plug)	***CR Postal Code:***	17042-7715
How Failed Code:	308	***CR Non US State:***	
How Failed Desc:	Leaked	***CR Fed DOT ID:***	10670
Failure Cause Code:	517	***CR Hazmat Reg ID:***	060707550078PR
Failure Cause Desc:	Improper Preparation for Transportation	***CR Country:***	US
Ident. Markings:		***Shipper Name:***	SUPPLYWORKS
Cont1 Pkging Type:	Drum	***Shipper Street Name:***	1147 ANDOVER PARK W
Cont1 Const Mat:	Plastic	***Shipper City:***	TUKWILA
Cont1 Head Type:	Removable	***Shipper State:***	WA
Cont1 Pkg Capacity:	55	***Shipper Postal:***	98188
C1 Capacity UOM:	LGA	***Shipper Non US St:***	
Cont1 Pkg Amt:	55	***Shipper Country:***	US
C1 Pkg Amt UOM:	LGA	***Shipper Waybill:***	15540496
Cont1 Pkg No:	2	***Ship Hazmat Reg ID:***	
C1 Pkg NO Failed:	2	***Origin City:***	TUKWILA
Cont1 Pkg Mnfctr:		***Origin State:***	WASHINGTON
Cont1 Pkg Mnfct Dt:		***Origin Postal:***	98188
Cont1 Pkg Serial NO:		***Origin Non US St:***	
C1 Pkg Last Test Dt:		***Origin Country:***	US
C1 Test Const Mat:	Plastic	***Destination City:***	WALLKILL
C1 Pkg Dsign Pres.:		***Destination State:***	NEW YORK
C1 Dsign Press UOM:		***Destination Postal:***	12589
C1 Pkg Shell Thick:		***Destination Non US:***	
C1 Shell Thick UOM:		***Destination Country:***	US
C1 Head Thickness:		***Cont2 Package Type:***	
C1 Head Thick UOM:		***Cont2 Const Mat:***	
C1 Pkg Srvc Pres.:		***Cont2 Pkg Capacity:***	
C1 Srvc Press UOM:		***Cont2 Capacity UOM:***	
C1 Valve/Device Fail?:	No	***Cont2 Pkg Amount:***	
C1 Device Type:		***Cont2 Pkg Amt UOM:***	
C1 Device Mnfctr:		***Cont2 Pkg No:***	
C1 Device Model:		***Cont2 Pkg No Failed:***	
NRC No:			

RAM Pkg Category:		***Haz NonHosp Public:***	0
RAM Pkg Cert.:	FALSE	***Haz NonHosp Old:***	0
RAM Pkg Cert. NBR:		***Tot Haz Non Hosp Inj:***	0
RAM Nuclide S:		***Total Hazmat Injuries:***	0
RAM Transport Index:		***Evacuation Indicator:***	No
RAM UOM:		***Public Evacuated:***	0
RAM Activity Rpted:		***Employees Evac:***	0
RAM UOM Rpted:		***Total Evacuated:***	0
RAM Activity:	0	***Total Evacuation Hrs:***	0

RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	ANDREW DIESEL
Damage > 500:	No	**Contact Title:**	MANAGER SAFETY
Material Loss:	0	**Contact Business:**	HOLLAND
Carrier Damage:	0	**Contact Street:**	750 E 40TH
Property Damage:	0	**Contact City:**	HOLLAND
Response Cost:	0	**Contact State:**	MI
Remediation Cost:	0	**Contact Postal:**	49423
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	1H1
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Non-removable head plastic drum
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING DISCOVERED LEAKING DRUMS AROUND BUNG AREA. BUNG AREA CLEANED AND TIGHTENED. SHIPMENT MOVING ON TO CONSIGNEE.

Recommend Actions Taken: ORIGIN TERMINAL MANAGEMENT SHOULD REACH OUT TO THIS SHIPPER REGARDING THE CONDITION OF THE BUNGS ON THEIR DRUMS.

HMIR Historical Reports

Report No:	I-2006060266	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	05/11/2006	**Report Submit Src:**	Paper
Time of Incident:	1550	**Inc Multiple Rows:**	No
Haz Class Code:	5.1	**Inc Non US State:**	
Hazardous Class:	OXIDIZER	**Mode Transport:**	Highway
Commodity Short Nm:	HYDROGEN PEROXIDE AQUEO	**Transport Phase:**	LOADING
Commodity Long Nm:	HYDROGEN PEROXIDE AQUEOUS SOLUTIONS WITH NOT LESS THAN 20 PERCENT BUT NOT MORE THAN 40 PERCENT HYDROGEN PEROXIDE (STABILIZED AS NECESSARY)	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN2014	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	5	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	104	**CR State:**	PA
What Failed Desc:	Body	**CR Postal Code:**	17042-7715
How Failed Code:	309	**CR Non US State:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

How Failed Desc:	Punctured	***CR Fed DOT ID:***	10670
Failure Cause Code:	516	***CR Hazmat Reg ID:***	060105012038N
Failure Cause Desc:	Impact with Sharp or Protruding Object (e.g. nails)	***CR Country:***	US
Ident. Markings:		***Shipper Name:***	MACDERMID
Cont1 Pkging Type:	Jerrican	***Shipper Street Name:***	25 INDUSTRIAL WAY
Cont1 Const Mat:	Plastic	***Shipper City:***	WILMINGTON
Cont1 Head Type:		***Shipper State:***	MA
Cont1 Pkg Capacity:	5	***Shipper Postal:***	01887
C1 Capacity UOM:	LGA	***Shipper Non US St:***	
Cont1 Pkg Amt:	5	***Shipper Country:***	US
C1 Pkg Amt UOM:	LGA	***Shipper Waybill:***	09021056
Cont1 Pkg No:	3	***Ship Hazmat Reg ID:***	
C1 Pkg NO Failed:	1	***Origin City:***	WILMINGTON
Cont1 Pkg Mnfctr:		***Origin State:***	MASSACHUSETTS
Cont1 Pkg Mnfct Dt:		***Origin Postal:***	01887
Cont1 Pkg Serial NO:		***Origin Non US St:***	
C1 Pkg Last Test Dt:		***Origin Country:***	US
C1 Test Const Mat:	Plastic	***Destination City:***	DANBURY
C1 Pkg Dsign Pres.:		***Destination State:***	CONNECTICUT
C1 Dsign Press UOM:		***Destination Postal:***	06810
C1 Pkg Shell Thick:		***Destination Non US:***	
C1 Shell Thick UOM:		***Destination Country:***	US
C1 Head Thickness:		***Cont2 Package Type:***	
C1 Head Thick UOM:		***Cont2 Const Mat:***	
C1 Pkg Srvc Pres.:		***Cont2 Pkg Capacity:***	
C1 Srvc Press UOM:		***Cont2 Capacity UOM:***	
C1 Valve/Device Fail?:	No	***Cont2 Pkg Amount:***	
C1 Device Type:		***Cont2 Pkg Amt UOM:***	
C1 Device Mnfctr:		***Cont2 Pkg No:***	
C1 Device Model:		***Cont2 Pkg No Failed:***	
NRC No:			

RAM Pkg Category:		***Haz NonHosp Public:***	0
RAM Pkg Cert.:	FALSE	***Haz NonHosp Old:***	0
RAM Pkg Cert. NBR:		***Tot Haz Non Hosp Inj:***	0
RAM Nuclide S:		***Total Hazmat Injuries:***	0
RAM Transport Index:		***Evacuation Indicator:***	No
RAM UOM:		***Public Evacuated:***	0
RAM Activity Rpted:		***Employees Evac:***	0
RAM UOM Rpted:		***Total Evacuated:***	0
RAM Activity:	0	***Total Evacuation Hrs:***	0
RAM Activity UOM:		***Major Artery Closed:***	No
RAM Mat Safety:		***Mjr Artery Hrs Closed:***	0
Spillage Result:	Yes	***Material Involved:***	No
Fire Result:	No	***Estimated Speed:***	0
Explosion Result:	No	***Weather Conditions:***	
Water Sewer Result:	No	***Vehicle Overturn:***	No
Gas Dispersion:	No	***Vehicle Left Roadway:***	No
Environment Damage:	No	***Passenger Aircraft:***	No
No Release Result:	No	***Cargo Baggage:***	
Fire EMS Report:	No	***Ship Non Transport:***	No
Fire EMS EMS Report:		***Ship Air First Flight:***	No
Police Report:	No	***Ship Air Subflight:***	No
Police Report No:		***Ship Init Transport:***	No
In House Cleanup:	Yes	***Ship Phase Transfer:***	No
Other Cleanup:	No	***Contact Name:***	MICHAEL N. WINDSOR
Damage > 500:	No	***Contact Title:***	MANAGER - HAZARDOUS MATERIALS
Material Loss:	0	***Contact Business:***	USF REDDAWAY
Carrier Damage:	0	***Contact Street:***	PO BOX 1035
Property Damage:	0	***Contact City:***	CLACKAMAS
Response Cost:	0	***Contact State:***	OR
Remediation Cost:	0	***Contact Postal:***	97015
Damage Old Form:	0	***Contact Non US St:***	
Total Damages Amt:	0	***Contact Country:***	US
Hazmat Fatality:	No	***Inc. Report Prepared:***	Carrier
Haz Fatal Employees:	0	***HMIS Serious Incidnt:***	No
Haz Fatal Respndrs:	0	***HMIS Serious Fatality:***	No
Haz Fatal Gen Public:	0	***HMIS Serious Injury:***	No

Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	PAIL PLS
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Plastic pail open head capacity 10 gallons or less
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE DOCK WORKER DISCOVERED A PAIL THAT HAD SHIFTED IN TRANSIT. UPON FURTHER INVESTIGATION IT WAS DETERMINED THAT THE PAIL HAD SHIFTED IN TRANSIT AND WAS PUNCTURED BY ADJACENT FREIGHT. THERE WAS NO PRODUCT LEFT SO WE OVERPACKED THE DAMAGED PAIL AND SENT THE REMAINDER OF THE SHIPMENT ON TO DESTINATION.

Recommend Actions Taken: WE HAVE TAKEN PICTURES AND CONTACTED THE ORIGIN FACILITY. THEY WILL USE THESE PICTURES IN PRESHIFTS TO SHOW HOW IMPORTANT IT IS TO FOLLOW THE CORPORATE POLICIES LOADING FREIGHT. THEY WILL ALSO FOLLOW UP WITH THE EMPLOYEE RESPONSIBLE FOR NOT FOLLOWING COMPANY POLICIES.

HMIR Historical Reports

Report No:	I-2016010119	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	11/18/2015	**Report Submit Src:**	Paper
Time of Incident:	1100	**Inc Multiple Rows:**	No
Haz Class Code:	8	**Inc Non US State:**	
Hazardous Class:	CORROSIVE MATERIAL	**Mode Transport:**	Highway
Commodity Short Nm:	AMINES LIQUID CORROSIV	**Transport Phase:**	LOADING
Commodity Long Nm:	AMINES LIQUID CORROSIVE N.O.S. OR POLYAMINES LIQUID CORROSIVE N.O.S.	**Incident Occrrnce:**	
Trade Name:	COCOALKYLDIMETHYLAMINE	**Mat Ship Approval?:**	No
ID No:	UN2735	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.1250	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	109	**CR State:**	PA
What Failed Desc:	Closure (e.g. Cap Top or Plug)	**CR Postal Code:**	17042-7715
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	517	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Improper Preparation for Transportation	**CR Country:**	US
Ident. Markings:	NO MARKINGS GIVEN- PAIL PLASTIC	**Shipper Name:**	AH HARRIS
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	420 E ST
Cont1 Const Mat:	Plastic	**Shipper City:**	BOSTON
Cont1 Head Type:		**Shipper State:**	MA
Cont1 Pkg Capacity:	5	**Shipper Postal:**	02127-1218
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	09799877
Cont1 Pkg No:	2	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	BOSTON
Cont1 Pkg Mnfctr:		**Origin State:**	MASSACHUSETTS
Cont1 Pkg Mnfct Dt:		**Origin Postal:**	02127
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:		**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	ARDSLEY
C1 Pkg Dsign Pres.:		**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	10502
C1 Pkg Shell Thick:		**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:		**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:		**Cont2 Pkg Capacity:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	
C1 Device Model:		**Cont2 Pkg No Failed:**	
NRC No:			
RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	0
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	0
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:		**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	SUSAN CAMARA
Damage > 500:	No	**Contact Title:**	MANAGER SAFETY
Material Loss:	0	**Contact Business:**	HOLLAND
Carrier Damage:	0	**Contact Street:**	750 E 40TH
Property Damage:	0	**Contact City:**	HOLLAND
Response Cost:	0	**Contact State:**	MI
Remediation Cost:	0	**Contact Postal:**	49423
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	NO MARKI
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: DISCOVERED LOOSE LID ON PAIL AND MINIMAL SPILLAGE PAIL PLACED INTO LINED SALVAGE DRUM PENDING DISPOSITION FROM THE SHIPPER SPILLAGE ABSORBED AND CLEANED UP PROPERLY PENDING DISPOSAL. REMAINDER OF SHIPMENT SENT ON TO CONSIGNEE.

Recommend Actions Taken: SHIPPER NOTIFIED BY COMPANY REGARDING LOOSE CLOSURE TO PREVENT FUTURE LIKE-INCIDENTS.

HMIR Historical Reports

Report No:	I-2006100974	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	09/18/2006	**Report Submit Src:**	Paper
Time of Incident:	0700	**Inc Multiple Rows:**	No
Haz Class Code:	3	**Inc Non US State:**	
Hazardous Class:	FLAMMABLE - COMBUSTIBLE LIQUID	**Mode Transport:**	Highway
Commodity Short Nm:	PRINTING INK FLAMMABLE	**Transport Phase:**	UNLOADING

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Commodity Long Nm:	PRINTING INK FLAMMABLE OR PRINTING INK RELATED MATERIAL (INCLUDING PRINTING INK THINNING OR REDUCING COMPOUND) FLAMMABLE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1210	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS LLC
Qty Released:	0.007812	**CR Street Name:**	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	130	**CR State:**	PA
What Failed Desc:	Lifting Feature	**CR Postal Code:**	17042-7715
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	061206001005O
Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	GOTHAM INK & COLOR CO. INC.
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	19 HOLT DR
Cont1 Const Mat:	Metal other than steel or aluminum	**Shipper City:**	STONY POINT
Cont1 Head Type:		**Shipper State:**	NY
Cont1 Pkg Capacity:	5	**Shipper Postal:**	10980-1919
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	22048845
Cont1 Pkg No:	2	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	STONY POINT
Cont1 Pkg Mnfctr:		**Origin State:**	NEW YORK
Cont1 Pkg Mnfct Dt:		**Origin Postal:**	10980
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:		**Origin Country:**	US
C1 Test Const Mat:	Metal other than steel or aluminum	**Destination City:**	FARMINGDALE
C1 Pkg Dsign Pres.:		**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	11735
C1 Pkg Shell Thick:		**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:		**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:		**Cont2 Pkg Capacity:**	
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	
C1 Device Model:		**Cont2 Pkg No Failed:**	
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	0
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	0
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:		**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	MICHAEL N. WINDSOR
Damage > 500:	No	**Contact Title:**	MANAGER-HAZARDOUS MATERIALS
Material Loss:	0	**Contact Business:**	ROADWAY EXPRESS
Carrier Damage:	0	**Contact Street:**	1077 GORGE BOULEVARD
Property Damage:	0	**Contact City:**	AKRON
Response Cost:	0	**Contact State:**	OH
Remediation Cost:	0	**Contact Postal:**	44309
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	OHMIR.Ref_Container.descr_txt
Haz Hosp Old Form:	0	**HMIS Container Code:**	PAIL MTL
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Metal pail open head capacity 10 gallons or less
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING DISCOVERED PAILS LEAKING NEAR THE POINT WHERE THE HANDLES FASTEN TO THE METAL PAILS. THE AFFECTED MATERIAL WAS PLACED IN A PROPERLY MARKED AND LABELED OVERPACK PENDING DISPOSITION FROM THE SHIPPER.

Recommend Actions Taken: WE CONTACTED THE SHIPPER AND ALSO COVERED THIS WITH THE CITY DRIVER TO TRY AND AVOID THIS TYPE OF DAMAGE FROM HAPPENING IN THE FUTURE. DH P

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	5 of 13	NNE	0.04 / 210.20	446.40 / 5	A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS) 1000 CORPORATE BOULEVARD NEWBURGH NY 12550	AST

Site ID:	34655	**Expiry:**	2025/05/26
Site Status:	Active	**County:**	Orange
Program No:	3-601547	**UTM X:**	576564.37381
Program Type Code:	PBS	**UTM Y:**	4595903.29848
Program Type Desc:	Petroleum Bulk Storage Program		
Site Type:	Trucking/Transportation/Fleet Operation		

Tank Information

Prog No:	3-601547	**UDC Ind:**	0
Tank ID:	289557	**Red Tag Start Date:**	
Tank No:	003	**Red Tag End Date:**	
Tank Status:	1	**Tank Last Test:**	
Tank Status Desc:	In Service	**Tank Next Test Due:**	
Tank Type:	01	**Test Method:**	-
Tank Type Desc:	Steel/Carbon Steel/Iron	**Line Last Test Due:**	
Install Date:	2020-04-09 00:00:00	**Next Line Test Due:**	
Close Date:		**Line Test Method:**	-
Tk Out of Serv Dt:		**Class A Operator:**	
Capacity (Gal):	747	**Class B Operator:**	
Registered:	True	**Modified by:**	JMWALLAC
Tank Model:		**Last Modified:**	2021-03-01 13:53:31.750000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 3
Category Desc: Category 3 means a tank which was installed after October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:

Tank Owner Address:

Material Information

Material Name: #2 fuel oil (on-site consumption)
Percent: 100.00

Equipment Information

Equipment: J00
Code Name: None
Type: Dispenser

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Equipment: D00
Code Name: No Piping
Type: Pipe Type

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: C00
Code Name: No Piping
Type: Pipe Location

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: H02
Code Name: Interstitial - Manual Monitoring
Type: Tank Leak Detection

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: G12
Code Name: Double-Walled (AG only)
Type: Tank Secondary Containment

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: G10
Code Name: Impervious Underlayment
Type: Tank Secondary Containment

Tank Information

Prog No:	3-601547	***UDC Ind:***	0
Tank ID:	289559	***Red Tag Start Date:***	
Tank No:	005	***Red Tag End Date:***	
Tank Status:	1	***Tank Last Test:***	
Tank Status Desc:	In Service	***Tank Next Test Due:***	
Tank Type:	01	***Test Method:***	-
Tank Type Desc:	Steel/Carbon Steel/Iron	***Line Last Test Due:***	
Install Date:	2020-05-19 00:00:00	***Next Line Test Due:***	
Close Date:		***Line Test Method:***	-
Tk Out of Serv Dt:		***Class A Operator:***	
Capacity (Gal):	500	***Class B Operator:***	
Registered:	True	***Modified by:***	JMWALLAC
Tank Model:		***Last Modified:***	2021-03-01 13:53:31.753000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 3
Category Desc: Category 3 means a tank which was installed after October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: waste oil/used oil
Percent: 100.00

Equipment Information

Equipment: J02
Code Name: Suction Dispenser
Type: Dispenser

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: I03
Code Name: Automatic Shut-Off
Type: Overfill

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: D01
Code Name: Steel/Carbon Steel/Iron
Type: Pipe Type

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Equipment: A00
Code Name: None

Type: Tank Internal Protection

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: G10
Code Name: Impervious Underlayment
Type: Tank Secondary Containment

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: G12
Code Name: Double-Walled (AG only)
Type: Tank Secondary Containment

Equipment: H02
Code Name: Interstitial - Manual Monitoring
Type: Tank Leak Detection

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Tank Information

Prog No:	3-601547	***UDC Ind:***	0
Tank ID:	289558	***Red Tag Start Date:***	
Tank No:	004	***Red Tag End Date:***	
Tank Status:	1	***Tank Last Test:***	
Tank Status Desc:	In Service	***Tank Next Test Due:***	
Tank Type:	01	***Test Method:***	-
Tank Type Desc:	Steel/Carbon Steel/Iron	***Line Last Test Due:***	
Install Date:	2020-05-19 00:00:00	***Next Line Test Due:***	
Close Date:		***Line Test Method:***	-
Tk Out of Serv Dt:		***Class A Operator:***	
Capacity (Gal):	500	***Class B Operator:***	
Registered:	True	***Modified by:***	JMWALLAC
Tank Model:		***Last Modified:***	2021-03-01 13:53:31.750000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 3
Category Desc: Category 3 means a tank which was installed after October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: motor oil
Percent: 100.00

Equipment Information

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: J02
Code Name: Suction Dispenser
Type: Dispenser

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: D01
Code Name: Steel/Carbon Steel/Iron
Type: Pipe Type

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: G12
Code Name: Double-Walled (AG only)
Type: Tank Secondary Containment

Equipment: G10
Code Name: Impervious Underlayment
Type: Tank Secondary Containment

Equipment: H02
Code Name: Interstitial - Manual Monitoring
Type: Tank Leak Detection

Tank Information

Prog No:	3-601547	***UDC Ind:***	0
Tank ID:	255589	***Red Tag Start Date:***	
Tank No:	002	***Red Tag End Date:***	
Tank Status:	1	***Tank Last Test:***	
Tank Status Desc:	In Service	***Tank Next Test Due:***	
Tank Type:	01	***Test Method:***	-
Tank Type Desc:	Steel/Carbon Steel/Iron	***Line Last Test Due:***	
Install Date:	1996-07-22 00:00:00	***Next Line Test Due:***	
Close Date:		***Line Test Method:***	-
Tk Out of Serv Dt:		***Class A Operator:***	
Capacity (Gal):	275	***Class B Operator:***	
Registered:	True	***Modified by:***	JMWALLAC
Tank Model:		***Last Modified:***	2021-03-01 13:04:08.797000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 2

Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: #2 fuel oil (on-site consumption)
Percent: 100.00

Equipment Information

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: D00
Code Name: No Piping
Type: Pipe Type

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: J00
Code Name: None
Type: Dispenser

Equipment: H02
Code Name: Interstitial - Manual Monitoring
Type: Tank Leak Detection

Equipment: G12
Code Name: Double-Walled (AG only)
Type: Tank Secondary Containment

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: G10
Code Name: Impervious Underlayment
Type: Tank Secondary Containment

Equipment: C00
Code Name: No Piping
Type: Pipe Location

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: I04
Code Name: Product Level Gauge (A/G)

Type: Overfill

Affiliation Information

Affiliation Type: 01
Affiliation Name: Facility Owner
Affiliation Sub Type: E
Company: A. DUIE PYLE, INC.
Contact Title: DIRECTOR OF FACILITIES
Contact Name: TIMOTHY A. KOCH
Address1: PO BOX 564
Address2:
City: WEST CHESTER
State: PA
Zip Code: 19381
Country Code: 001
Phone: (610) 350-3048
Phone Ext:
Email: TKOCH@ADUIEPYLE.COM
Fax:

Affiliation Type: 04
Affiliation Name: Facility Operator
Affiliation Sub Type: NNN
Company: NEW PENN MOTOR EXPRESS, INC. (NPME)
Contact Title:
Contact Name: A. DUIE PYLE, INC. (FORMER NEW PENN MOTOR EXPRESS)
Address1:
Address2:
City:
State: NN
Zip Code:
Country Code: 001
Phone: (845) 567-1090
Phone Ext:
Email:
Fax:

Affiliation Type: 07
Affiliation Name: Mail Contact
Affiliation Sub Type: E
Company: A. DUIE PYLE, INC.
Contact Title: DIRECTOR OF FACILITIES
Contact Name: TIMOTHY A. KOCH
Address1: PO BOX 564
Address2:
City: WEST CHESTER
State: PA
Zip Code: 19381
Country Code: 001
Phone: (610) 350-3048
Phone Ext:
Email: TKOCH@ADUIEPYLE.COM
Fax:

Affiliation Type: 11
Affiliation Name: Emergency Contact
Affiliation Sub Type: NNN
Company: A. DUIE PYLE, INC.
Contact Title:
Contact Name: TIMOTHY A. KOCH
Address1:
Address2:
City:
State: NN
Zip Code:
Country Code: 001
Phone: (610) 587-4712

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Phone Ext:
Email:
Fax:

1	6 of 13	NNE	0.04 / 210.20	446.40 / 5	DUIE PYLE 1000 CORPORATE BOULEVARD NEWBURGH NY	NY SPILLS

Spill No:	1501206	**Spill Date:**	2015-04-17 10:59:00
Site ID:	507390	**Received Date:**	2015-05-04 10:59:00
DER Facility ID:	462153	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2016-03-17 00:00:00
SWIS Code:	3648	**Create Date:**	2015-05-04 11:02:00
Contributing Factor:	Housekeeping	**Update Date:**	2016-03-17 16:30:00.770000000
Water Body:		**DEC Region:**	3
Source:	Commercial/Industrial	**Lead DEC:**	ELMOORE
Class:	C3	**Reported by:**	Other
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"clean up pending contract"

DEC Remark:

"5/4/15- Requested further info from caller. DT From email to ELM from Island Pump & Tank- diesel dispenser and generator tank staining. We will have someone clean and tighten the fittings asap and clean out gravel beneath the dispenser. DT 3/17/2016 -- Cleaned up last summer. nfa ELM"

Material Information

OP Unit ID:	1256730	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2259690	**Med GW:**	False
Material Code:	0008	**Med SW:**	False
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:		**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:		**Spiller Zip:**	
Spiller Company:	DUIE PYLE	**Spiller Country:**	999
Spiller Address:		**Contact Name:**	JACKIE TROSCLAR
Spiller City:		**Contact Phone:**	
Spiller State:	NY	**Contact Ext:**	
Latitude:			
Longitude:			

1	7 of 13	NNE	0.04 / 210.20	446.40 / 5	NEW PENN EXPRESS TRUCKING FACILITY 1000 CORPORATE BLVD NEWBURGH NY	NY SPILLS

Spill No:	1809138	**Spill Date:**	2018-11-29 15:30:00
Site ID:	579972	**Received Date:**	2018-11-29 16:37:00
DER Facility ID:	532624	**CAC Date:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2018-12-05 00:00:00
SWIS Code:	3646	**Create Date:**	2018-11-29 16:40:00
Contributing Factor:	Equipment Failure	**Update Date:**	2018-12-05 16:54:33.027000000
Water Body:		**DEC Region:**	3
Source:	Gasoline Station or other PBS Facility	**Lead DEC:**	DXWEITZ
Class:	C4	**Reported by:**	Other
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	True
UST Trust:	False		

Caller Remark:

"under dispenser - cleanup pending - groundwater present but no sheen"

DEC Remark:

"11/29/18 12K fiberglass UST was pulled by American Petroleum. Most of the sidewall PID readings were under 30 ppm. Groundwater was encountered at bottom of tank, but did not appear impacted. Soil and groundwater samples were procured with quick turnaround times. dw 12/5/18 Soil and groundwater samples were well below any action levels. NFA dw"

Material Information

OP Unit ID:	1327686	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2336613	**Med GW:**	False
Material Code:	9999	**Med SW:**	False
Material Name:	other - elevated pim readings	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Other	**Med Surf:**	False
Quantity:		**Med Subway:**	False
Units:		**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:		**Spiller Zip:**	
Spiller Company:	NEW PENN EXPRESS	**Spiller Country:**	999
Spiller Address:		**Contact Name:**	JIM
Spiller City:		**Contact Phone:**	(203) 395-9447
Spiller State:	NY	**Contact Ext:**	
Latitude:			
Longitude:			

1	8 of 13	NNE	0.04 / 210.20	446.40 / 5	DUIE PYLE 1000 CORPORATE BLVD NEWBURGH NY	NY SPILLS

Spill No:	1903998	**Spill Date:**	2019-07-19 01:50:00
Site ID:	591977	**Received Date:**	2019-07-19 02:23:00
DER Facility ID:	532624	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2019-10-11 00:00:00
SWIS Code:	3646	**Create Date:**	2019-07-19 02:29:00
Contributing Factor:	Human Error	**Update Date:**	2019-10-11 16:52:38.010000000
Water Body:		**DEC Region:**	3
Source:	Non Major Facility > 1,100 gal	**Lead DEC:**	DXWEITZ
Class:	C4	**Reported by:**	Responsible Party
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	True
UST Trust:	False		

Caller Remark:

"un 2054; trade name Morpholine. distilling oil, corrosive. 55 drum punctured by fork lift. contained. haz mat Ertel will check/remediate. Ertel Report #97986."

DEC Remark:

"7-19-19 Drum was punctured while moving it with a fork lift. The spill has been completely absorbed with speedy dry and placed into overpack drums. Ertel HazMat was called out and is expected to arrive in approximately 1hr to assess the area and determined if additional remediation is needed. No floor drains in the area. ML 10/8/19 Closure report submitted by ERTS will be reviewed and filed in decdocs. Cleanup was done by Duie Pyle personnel on the loading dock, and in the parking area blacktop. Clean Harbors came to check on cleanup, and they were satisfied. NFA dw "

Material Information

OP Unit ID:	1339587	***Med Air:***	False
OU:	01	***Med Ind Air:***	False
Material ID:	2349183	***Med GW:***	False
Material Code:	0016A	***Med SW:***	False
Material Name:	non PCB oil	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	55.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:		***Oxygenate:***	
Med Soil:	False		

Spiller Information

Spiller Name:	SAL DEVITO	***Spiller Zip:***	
Spiller Company:	DUIE PYLE	***Spiller Country:***	999
Spiller Address:	1000 CORPORATE BLVD	***Contact Name:***	SAL DEVITO
Spiller City:	NEWBURGH	***Contact Phone:***	(845) 567-9860
Spiller State:	NY	***Contact Ext:***	
Latitude:			
Longitude:			

1	***9 of 13***	***NNE***	***0.04 / 210.20***	***446.40 / 5***	***1000 CORPORATE BOULEARD NEWBURGH NY***	***HMIRS***

Incident County: ORANGE

HMIR Incident Reports

Report No:	I-2009010064	***Fed DOT Agency Nm:***	
Report Type:	A hazardous material incident	***Fed DOT Report No:***	
Date of Incident:	2008-12-08	***Report Submit Src:***	Paper
Time of Incident:	0330	***Inc Multiple Rows:***	No
Haz Class Code:		***Inc Non US State:***	
Hazardous Class:	8	***Mode Transport:***	Highway
Commodity Short Nm:	CORROSIVE LIQUID, BASIC,	***Transport Phase:***	Unloading
Commodity Long Nm:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	***Incident Occrrnce:***	
Trade Name:	POTASSIUM HYDROXIDE	***Mat Ship Approval?:***	No
ID No:	UN3266	***Mat Ship Approv No:***	
Haz Waste Ind:	No	***Undecl Hazmat Ship?:***	No
Haz Waste EPA No:		***Packaging Type:***	Non-Bulk
HMIS Tox Inhalation?:	No	***Packing Group:***	I
TIH Hazard Zone:		***Carrier Reporter:***	NEW PENN MOTOR EXPRESS
Qty Released:	0.023438	***CR Street Name:***	625 S. 5TH AVE.
Unit of Measure:	Liquid - Gallon	***CR City:***	LEBANON
What Failed:	109	***CR State:***	PA
What Failed Desc:	Closure (e.g., Cap, Top, or Plug)	***CR Postal Code:***	17042
How Failed Code:	308	***CR Non US State:***	

How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	061206 001 005
Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	KONICA MINOLTA MEDICAL
Cont1 Pkging Type:	Box	**Shipper Street Name:**	6255 BROOK HOLLOW PKWY
Cont1 Const Mat:	Fiberboard	**Shipper City:**	NORCROSS
Cont1 Head Type:		**Shipper State:**	GA
Cont1 Pkg Capacity:	5	**Shipper Postal:**	30071
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	03131319
Cont1 Pkg No:	1	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Fiberboard	**Destination City:**	THORNWOOD
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	10594
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	Can
C1 Head Thick UOM:		**Cont2 Const Mat:**	Plastic
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	5
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	LGA
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	5
C1 Device Type:		**Cont2 Pkg Amt UOM:**	LGA
C1 Device Mnfctr:		**Cont2 Pkg No:**	1
C1 Device Model:		**Cont2 Pkg No Failed:**	1
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR. MGR. - INDUST. SAFETY & ENVIRON.
Material Loss:	0	**Contact Business:**	YRC INC.
Carrier Damage:	0	**Contact Street:**	10990 ROE AVE.
Property Damage:	0	**Contact City:**	Overland Park
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	BOX FIBER
Haz Hosp Old Form:	0	**HMIS Container Code:**	BOX FBR
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Fiberboard box or carton
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: THIS WAS SHRINKWRAPPED TO A SKID FROM THE SHIPPER. WE NOTICED THAT ONE CARTON WAS WET ON THE BOTTOM. WE HAVE OVERPACKED THE CARTON PENDING DISPOSITION FROM THE SHIPPER.

Recommend Actions Taken: WE FOLLOWED UP WITH THE SHIPPER AND THEY WILL ADDRESS THIS ISSUE WITH THE SHIPPING DEPT.

1	10 of 13	NNE	0.04 / 210.20	446.40 / 5	1000 Corporate Drive NEWBURGH NY	HMIRS

Incident County: ORANGE

HMIR Incident Reports

Report No:	E-2019080173	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2019-07-19	**Report Submit Src:**	Web
Time of Incident:	0145	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	8	**Mode Transport:**	Highway
Commodity Short Nm:	MORPHOLINE	**Transport Phase:**	Unloading
Commodity Long Nm:	MORPHOLINE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN2054	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	I
TIH Hazard Zone:		**Carrier Reporter:**	A. DUIE PYLE INC.
Qty Released:	55	**CR Street Name:**	650 WESTTOWN RD
Unit of Measure:	Liquid - Gallon	**CR City:**	WEST CHESTER
What Failed:		**CR State:**	PA
What Failed Desc:		**CR Postal Code:**	19382-4900
How Failed Code:		**CR Non US State:**	
How Failed Desc:		**CR Fed DOT ID:**	113594
Failure Cause Code:		**CR Hazmat Reg ID:**	060719550143BD
Failure Cause Desc:		**CR Country:**	US
Ident. Markings:	UN1H1	**Shipper Name:**	Pride Chemical Solutions Inc
Cont1 Pkging Type:	Drum	**Shipper Street Name:**	6 Long Island Ave
Cont1 Const Mat:	Plastic	**Shipper City:**	Holtsville
Cont1 Head Type:	Removable	**Shipper State:**	NY
Cont1 Pkg Capacity:	55	**Shipper Postal:**	11742
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	55	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	Carriers Pro 434973202
Cont1 Pkg No:	4	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	NASHUA
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW HAMPSHIRE
C1 Dsign Press UOM:		**Destination Postal:**	03060
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			
RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	RICHARD KACZYNSKI
Damage > 500:	No	**Contact Title:**	SAFETY MANAGER
Material Loss:	0	**Contact Business:**	A. DUIE PYLE INC.
Carrier Damage:	0	**Contact Street:**	650 WESTTOWN RD
Property Damage:	0	**Contact City:**	WEST CHESTER
Response Cost:	0	**Contact State:**	PA
Remediation Cost:	0	**Contact Postal:**	19382-4900
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	CONTAINER
Haz Hosp Old Form:	0	**HMIS Container Code:**	CONT
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Container, no description given (do not use if at all possible)
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: While unloading freight from trailer forklift operator struck drum with fork blade on forklift consequently puncturing said drum and contributing to the unintentional release. Spilled material was cleaned with absorbent and placed into a recovery container as was the punctured drum.

Recommend Actions Taken: Fork lift operators need to pay attention to their clearances including the fork blades to prevent these types of unintentional releases from occurring.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	11 of 13	NNE	0.04 / 210.20	446.40 / 5	1000 CORPORATE BLVD NEWBURGH NY	HMIRS

Incident County: ORANGE

HMIR Incident Reports

Report No:	I-2006120784	***Fed DOT Agency Nm:***	
Report Type:	A hazardous material incident	***Fed DOT Report No:***	
Date of Incident:	2006-09-26	***Report Submit Src:***	Paper
Time of Incident:	2030	***Inc Multiple Rows:***	No
Haz Class Code:		***Inc Non US State:***	
Hazardous Class:	3	***Mode Transport:***	Highway
Commodity Short Nm:	PRINTING INK, FLAMMABLE	***Transport Phase:***	Unloading
Commodity Long Nm:	PRINTING INK, FLAMMABLE OR PRINTING INK RELATED MATERIAL (INCLUDING PRINTING INK THINNING OR REDUCING COMPOUND), FLAMMABLE	***Incident Occrrnce:***	
Trade Name:		***Mat Ship Approval?:***	No
ID No:	UN1210	***Mat Ship Approv No:***	
Haz Waste Ind:	No	***Undecl Hazmat Ship?:***	No
Haz Waste EPA No:		***Packaging Type:***	Non-Bulk
HMIS Tox Inhalation?:	No	***Packing Group:***	II
TIH Hazard Zone:		***Carrier Reporter:***	NEW PENN MOTOR EXPRESS
Qty Released:	0.125	***CR Street Name:***	625 SOUTH 5TH AVE
Unit of Measure:	Liquid - Gallon	***CR City:***	LEBANON
What Failed:	104	***CR State:***	PA
What Failed Desc:	Body	***CR Postal Code:***	17042
How Failed Code:	311	***CR Non US State:***	
How Failed Desc:	Structural	***CR Fed DOT ID:***	10670
Failure Cause Code:	517	***CR Hazmat Reg ID:***	061206001005O
Failure Cause Desc:	Improper Preparation for Transportation	***CR Country:***	US
Ident. Markings:		***Shipper Name:***	GOTHAM INK
Cont1 Pkging Type:	Jerrican	***Shipper Street Name:***	19 KAY FRIES DRIVE
Cont1 Const Mat:	Metal other than steel or aluminum	***Shipper City:***	STONY POINT
Cont1 Head Type:		***Shipper State:***	NY
Cont1 Pkg Capacity:	5	***Shipper Postal:***	10980
C1 Capacity UOM:	LGA	***Shipper Non US St:***	
Cont1 Pkg Amt:	5	***Shipper Country:***	US
C1 Pkg Amt UOM:	LGA	***Shipper Waybill:***	22051058
Cont1 Pkg No:	20	***Ship Hazmat Reg ID:***	
C1 Pkg NO Failed:	1	***Origin City:***	
Cont1 Pkg Mnfctr:		***Origin State:***	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	***Origin Postal:***	
Cont1 Pkg Serial NO:		***Origin Non US St:***	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	***Origin Country:***	US
C1 Test Const Mat:	Metal other than steel or aluminum	***Destination City:***	PHILADELPHIA
C1 Pkg Dsign Pres.:	0	***Destination State:***	PENNSYLVANIA
C1 Dsign Press UOM:		***Destination Postal:***	19120
C1 Pkg Shell Thick:	0	***Destination Non US:***	
C1 Shell Thick UOM:		***Destination Country:***	US
C1 Head Thickness:	0	***Cont2 Package Type:***	
C1 Head Thick UOM:		***Cont2 Const Mat:***	
C1 Pkg Srvc Pres.:	0	***Cont2 Pkg Capacity:***	0
C1 Srvc Press UOM:		***Cont2 Capacity UOM:***	
C1 Valve/Device Fail?:	No	***Cont2 Pkg Amount:***	0
C1 Device Type:		***Cont2 Pkg Amt UOM:***	
C1 Device Mnfctr:		***Cont2 Pkg No:***	0
C1 Device Model:		***Cont2 Pkg No Failed:***	0
NRC No:			

RAM Pkg Category:		***Haz NonHosp Public:***	0
RAM Pkg Cert.:	FALSE	***Haz NonHosp Old:***	
RAM Pkg Cert. NBR:		***Tot Haz Non Hosp Inj:***	
RAM Nuclide S:		***Total Hazmat Injuries:***	0
RAM Transport Index:		***Evacuation Indicator:***	No
RAM UOM:		***Public Evacuated:***	0
RAM Activity Rpted:	0	***Employees Evac:***	0
RAM UOM Rpted:		***Total Evacuated:***	0
RAM Activity:	0	***Total Evacuation Hrs:***	0
RAM Activity UOM:		***Major Artery Closed:***	No
RAM Mat Safety:		***Mjr Artery Hrs Closed:***	0
Spillage Result:	Yes	***Material Involved:***	No

Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	MICHAEL N. WINDSOR
Damage > 500:	No	**Contact Title:**	MANAGER HAZARDOUS MATERIALS
Material Loss:	0	**Contact Business:**	USF HOLLAND
Carrier Damage:	0	**Contact Street:**	750 E 40TH ST
Property Damage:	0	**Contact City:**	HOLLAND
Response Cost:	0	**Contact State:**	MI
Remediation Cost:	0	**Contact Postal:**	49423
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	DRUM METAL
Haz Hosp Old Form:	0	**HMIS Container Code:**	PAIL MTL
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Metal pail, open head, capacity 10 gallons or less
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE DOCKWORKER NOTICED THAT ONE PAIL WAS LEAKING DUE TO POOR PACKAGING. AFFECTED MATERIAL PLACED IN AN OVERPACK PENDING DISPOSITION FROM THE SHIPPER. THE REMAINDER OF THE SHIPMENT WAS FORWARDED TO THE CONSIGNEE.

Recommend Actions Taken: WE COVERED THIS WITH THE SALES REP AND ALSO THE DRIVER THAT PICKED THIS UP. THIS WILL HOPEFULLY REDUCE THE CHANCE OF THIS TYPE OF DAMAGE FROM HAPPENING IN THE FUTURE.

HMIR Incident Reports

Report No:	I-2006100974	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2006-09-18	**Report Submit Src:**	Paper
Time of Incident:	0700	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	3	**Mode Transport:**	Highway
Commodity Short Nm:	PRINTING INK, FLAMMABLE	**Transport Phase:**	Unloading
Commodity Long Nm:	PRINTING INK, FLAMMABLE OR PRINTING INK RELATED MATERIAL (INCLUDING PRINTING INK THINNING OR REDUCING COMPOUND), FLAMMABLE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1210	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS
Qty Released:	0.007812	**CR Street Name:**	625 SOUTH 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	130	**CR State:**	PA
What Failed Desc:	Lifting Feature	**CR Postal Code:**	17042
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	061206001005O

Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	GOTHAM INK
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	19 KAY FRIES DRIVE
Cont1 Const Mat:	Metal other than steel or aluminum	**Shipper City:**	STONY POINT
Cont1 Head Type:		**Shipper State:**	NY
Cont1 Pkg Capacity:	5	**Shipper Postal:**	10980
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	22048845
Cont1 Pkg No:	2	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Metal other than steel or aluminum	**Destination City:**	FARMINGDALE
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	11735
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	MICHAEL N. WINDSOR
Damage > 500:	No	**Contact Title:**	MANAGER-HAZARDOUS MATERIALS
Material Loss:	0	**Contact Business:**	ROADWAY EXPRESS
Carrier Damage:	0	**Contact Street:**	1077 GORGE BOULEVARD
Property Damage:	0	**Contact City:**	AKRON
Response Cost:	0	**Contact State:**	OH
Remediation Cost:	0	**Contact Postal:**	44309
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No

Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	DRUM METAL
Haz Hosp Old Form:	0	**HMIS Container Code:**	PAIL MTL
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Metal pail, open head, capacity 10 gallons or less
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING, DISCOVERED PAILS LEAKING NEAR THE POINT WHERE THE HANDLES FASTEN TO THE METAL PAILS. THE AFFECTED MATERIAL WAS PLACED IN A PROPERLY MARKED AND LABELED OVERPACK PENDING DISPOSITION FROM THE SHIPPER.

Recommend Actions Taken: WE CONTACTED THE SHIPPER AND ALSO COVERED THIS WITH THE CITY DRIVER TO TRY AND AVOID THIS TYPE OF DAMAGE FROM HAPPENING IN THE FUTURE. DH P

HMIR Incident Reports

Report No:	I-2006060266	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2006-05-11	**Report Submit Src:**	Paper
Time of Incident:	1550	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	5.1	**Mode Transport:**	Highway
Commodity Short Nm:	HYDROGEN PEROXIDE, AQUEO	**Transport Phase:**	Loading
Commodity Long Nm:	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS WITH NOT LESS THAN 20 PERCENT BUT NOT MORE THAN 40 PERCENT HYDROGEN PEROXIDE (STABILIZED AS NECESSARY)	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN2014	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS
Qty Released:	5	**CR Street Name:**	625 SOUTH 5TH AVE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	104	**CR State:**	PA
What Failed Desc:	Body	**CR Postal Code:**	17042
How Failed Code:	309	**CR Non US State:**	
How Failed Desc:	Punctured	**CR Fed DOT ID:**	10670
Failure Cause Code:	516	**CR Hazmat Reg ID:**	060105012038N
Failure Cause Desc:	Impact with Sharp or Protruding Object (e.g., nails)	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	MACDERMID
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	25 INDUSTRIAL WAY
Cont1 Const Mat:	Plastic	**Shipper City:**	WILMINGTON
Cont1 Head Type:		**Shipper State:**	MA
Cont1 Pkg Capacity:	5	**Shipper Postal:**	01887
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	09021056
Cont1 Pkg No:	3	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	DANBURY
C1 Pkg Dsign Pres.:	0	**Destination State:**	CONNECTICUT
C1 Dsign Press UOM:		**Destination Postal:**	06810
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0

C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			
RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	MICHAEL N. WINDSOR
Damage > 500:	No	**Contact Title:**	MANAGER - HAZARDOUS MATERIALS
Material Loss:	0	**Contact Business:**	USF REDDAWAY
Carrier Damage:	0	**Contact Street:**	PO BOX 1035
Property Damage:	0	**Contact City:**	CLACKAMAS
Response Cost:	0	**Contact State:**	OR
Remediation Cost:	0	**Contact Postal:**	97015
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	DRUM NON-METAL
Haz Hosp Old Form:	0	**HMIS Container Code:**	PAIL PLS
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Plastic pail, open head, capacity 10 gallons or less
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING, THE DOCK WORKER DISCOVERED A PAIL THAT HAD SHIFTED IN TRANSIT. UPON FURTHER INVESTIGATION IT WAS DETERMINED THAT THE PAIL HAD SHIFTED IN TRANSIT AND WAS PUNCTURED BY ADJACENT FREIGHT. THERE WAS NO PRODUCT LEFT, SO WE OVERPACKED THE DAMAGED PAIL AND SENT THE REMAINDER OF THE SHIPMENT ON TO DESTINATION.

Recommend Actions Taken: WE HAVE TAKEN PICTURES AND CONTACTED THE ORIGIN FACILITY. THEY WILL USE THESE PICTURES IN PRESHIFTS TO SHOW HOW IMPORTANT IT IS TO FOLLOW THE CORPORATE POLICIES LOADING FREIGHT. THEY WILL ALSO FOLLOW UP WITH THE EMPLOYEE RESPONSIBLE FOR NOT FOLLOWING COMPANY POLICIES.

HMIR Incident Reports

Report No:	I-2012040443	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2012-03-22	**Report Submit Src:**	Paper
Time of Incident:	1445	**Inc Multiple Rows:**	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	3	**Mode Transport:**	Highway
Commodity Short Nm:	PAINT INCLUDING PAINT, L	**Transport Phase:**	Unloading
Commodity Long Nm:	PAINT INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC SOLUTIONS, VARNISH, POLISH, LIQUID FILLER AND LIQUID LACQUER BASE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1263	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS
Qty Released:	0.046875	**CR Street Name:**	625 S. 5TH AVE.
Unit of Measure:	Liquid - Gallon	**CR City:**	Lebanon
What Failed:	109	**CR State:**	PA
What Failed Desc:	Closure (e.g., Cap, Top, or Plug)	**CR Postal Code:**	17042
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	
Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	CARBOLINE COMPANY
Cont1 Pkging Type:	Box	**Shipper Street Name:**	627 MT. HOPE RD.
Cont1 Const Mat:	Fiberboard	**Shipper City:**	ROCKAWAY
Cont1 Head Type:		**Shipper State:**	NJ
Cont1 Pkg Capacity:	0.5	**Shipper Postal:**	07866
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	0.5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	06255106
Cont1 Pkg No:	1	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Fiberboard	**Destination City:**	CROTON ON HUDSON
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	10520
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	Can
C1 Head Thick UOM:		**Cont2 Const Mat:**	Metal (any type)
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	1
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	LPT
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	1
C1 Device Type:		**Cont2 Pkg Amt UOM:**	LPT
C1 Device Mnfctr:		**Cont2 Pkg No:**	4
C1 Device Model:		**Cont2 Pkg No Failed:**	2
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No

Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR MGR - INDUSTRIAL SAFETY AND ENV
Material Loss:	0	**Contact Business:**	YRC INC.
Carrier Damage:	0	**Contact Street:**	10990 ROE AVE.
Property Damage:	0	**Contact City:**	OVERLAND PARK
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	BOX FIBER
Haz Hosp Old Form:	0	**HMIS Container Code:**	BOX FBR
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Fiberboard box or carton
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE TRAILER, ONE CARTON WAS FOUND LEAKING. THE LIDS HAD POPPED OFF THE PAILS. THE RELEASE WAS PROPERLY MANAGED. THE DAMAGED FREIGHT WAS PLACED INTO A LINED SALVAGE DRUM AND HELD PENDING DISPOSITION FROM THE SHIPPER.

Recommend Actions Taken: THE SHIPPER MUST ENSURE PROPER PACKAGING.

HMIR Incident Reports

Report No:	I-2017110107	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2017-10-30	**Report Submit Src:**	Paper
Time of Incident:	1600	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	8	**Mode Transport:**	Highway
Commodity Short Nm:	HYPOCHLORITE SOLUTIONS	**Transport Phase:**	Unloading
Commodity Long Nm:	HYPOCHLORITE SOLUTIONS	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1791	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	III
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS
Qty Released:	0.007812	**CR Street Name:**	625 SOUTH 5TH AVENUE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	109	**CR State:**	PA
What Failed Desc:	Closure (e.g., Cap, Top, or Plug)	**CR Postal Code:**	17042
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	517	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Improper Preparation for Transportation	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	SUPPLYWORKS
Cont1 Pkging Type:	Drum	**Shipper Street Name:**	1147 ANDOVER PARK W
Cont1 Const Mat:	Plastic	**Shipper City:**	TUKWILA
Cont1 Head Type:	Removable	**Shipper State:**	WA
Cont1 Pkg Capacity:	55	**Shipper Postal:**	98188
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	55	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	15540496
Cont1 Pkg No:	2	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	2	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	WALLKILL
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	12589
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	ANDREW DIESEL
Damage > 500:	No	**Contact Title:**	MANAGER SAFETY
Material Loss:	0	**Contact Business:**	HOLLAND
Carrier Damage:	0	**Contact Street:**	750 E 40TH
Property Damage:	0	**Contact City:**	HOLLAND
Response Cost:	0	**Contact State:**	MI
Remediation Cost:	0	**Contact Postal:**	49423
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	DRUM NON-METAL
Haz Hosp Old Form:	0	**HMIS Container Code:**	1H1
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Non-removable head plastic drum
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING DISCOVERED LEAKING DRUMS AROUND BUNG AREA. BUNG AREA CLEANED AND TIGHTENED. SHIPMENT MOVING ON TO CONSIGNEE.

Recommend Actions Taken: ORIGIN TERMINAL MANAGEMENT SHOULD REACH OUT TO THIS SHIPPER REGARDING THE CONDITION OF THE BUNGS ON THEIR DRUMS.

HMIR Incident Reports

Report No:	I-2019100256	***Fed DOT Agency Nm:***	
Report Type:	A hazardous material incident	***Fed DOT Report No:***	
Date of Incident:	2019-09-17	***Report Submit Src:***	Paper
Time of Incident:	0800	***Inc Multiple Rows:***	No
Haz Class Code:		***Inc Non US State:***	
Hazardous Class:	3	***Mode Transport:***	Highway
Commodity Short Nm:	ISOPROPANOL OR ISOPROPYL	***Transport Phase:***	Unloading
Commodity Long Nm:	ISOPROPANOL OR ISOPROPYL ALCOHOL	***Incident Occrrnce:***	
Trade Name:		***Mat Ship Approval?:***	No
ID No:	UN1219	***Mat Ship Approv No:***	
Haz Waste Ind:	No	***Undecl Hazmat Ship?:***	No
Haz Waste EPA No:		***Packaging Type:***	Non-Bulk
HMIS Tox Inhalation?:	No	***Packing Group:***	II
TIH Hazard Zone:		***Carrier Reporter:***	NEW PENN MOTOR EXPRESS LLC
Qty Released:	1	***CR Street Name:***	625 S 5TH AVE
Unit of Measure:	Liquid - Gallon	***CR City:***	LEBANON
What Failed:	104	***CR State:***	PA
What Failed Desc:	Body	***CR Postal Code:***	17042-7715
How Failed Code:	309	***CR Non US State:***	
How Failed Desc:	Punctured	***CR Fed DOT ID:***	10670
Failure Cause Code:	513	***CR Hazmat Reg ID:***	
Failure Cause Desc:	Forklift Accident	***CR Country:***	US
Ident. Markings:		***Shipper Name:***	KING INDUSTRIES
Cont1 Pkging Type:	Drum	***Shipper Street Name:***	14658 SCIENCE RD
Cont1 Const Mat:	Metal other than steel or aluminum	***Shipper City:***	NORWALK
Cont1 Head Type:		***Shipper State:***	CT
Cont1 Pkg Capacity:	55	***Shipper Postal:***	06852
C1 Capacity UOM:	LGA	***Shipper Non US St:***	
Cont1 Pkg Amt:	55	***Shipper Country:***	US
C1 Pkg Amt UOM:	LGA	***Shipper Waybill:***	89633588
Cont1 Pkg No:	20	***Ship Hazmat Reg ID:***	
C1 Pkg NO Failed:	1	***Origin City:***	
Cont1 Pkg Mnfctr:		***Origin State:***	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	***Origin Postal:***	
Cont1 Pkg Serial NO:		***Origin Non US St:***	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	***Origin Country:***	US
C1 Test Const Mat:	Metal other than steel or aluminum	***Destination City:***	CARTERET
C1 Pkg Dsign Pres.:	0	***Destination State:***	NEW JERSEY
C1 Dsign Press UOM:		***Destination Postal:***	07008
C1 Pkg Shell Thick:	0	***Destination Non US:***	
C1 Shell Thick UOM:		***Destination Country:***	US
C1 Head Thickness:	0	***Cont2 Package Type:***	
C1 Head Thick UOM:		***Cont2 Const Mat:***	
C1 Pkg Srvc Pres.:	0	***Cont2 Pkg Capacity:***	0
C1 Srvc Press UOM:		***Cont2 Capacity UOM:***	
C1 Valve/Device Fail?:	No	***Cont2 Pkg Amount:***	0
C1 Device Type:		***Cont2 Pkg Amt UOM:***	
C1 Device Mnfctr:		***Cont2 Pkg No:***	0
C1 Device Model:		***Cont2 Pkg No Failed:***	0
NRC No:			

RAM Pkg Category:		***Haz NonHosp Public:***	0
RAM Pkg Cert.:	FALSE	***Haz NonHosp Old:***	
RAM Pkg Cert. NBR:		***Tot Haz Non Hosp Inj:***	
RAM Nuclide S:		***Total Hazmat Injuries:***	0
RAM Transport Index:		***Evacuation Indicator:***	No
RAM UOM:		***Public Evacuated:***	0
RAM Activity Rpted:	0	***Employees Evac:***	0
RAM UOM Rpted:		***Total Evacuated:***	0
RAM Activity:	0	***Total Evacuation Hrs:***	0
RAM Activity UOM:		***Major Artery Closed:***	No
RAM Mat Safety:		***Mjr Artery Hrs Closed:***	0
Spillage Result:	Yes	***Material Involved:***	No
Fire Result:	No	***Estimated Speed:***	0
Explosion Result:	No	***Weather Conditions:***	

Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	RUBEN BYERLEY
Damage > 500:	No	**Contact Title:**	MANAGER-ENVIRONMENTAL COMPLIANCE
Material Loss:	0	**Contact Business:**	YRC INC.
Carrier Damage:	0	**Contact Street:**	10990 ROE AVENUE
Property Damage:	0	**Contact City:**	Overland Park
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	CONTAINER
Haz Hosp Old Form:	0	**HMIS Container Code:**	CONT
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Container, no description given (do not use if at all possible)
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE TRAILER, ONE DRUM WAS PUNCTURED BY THE FORKLIFT OPERATOR. THE RELEASE WAS PROPERLY MANAGED. THE DAMAGED DRUM WAS PLACED INTO A SALVAGE DRUM AND HELD PENDING DISPOSITION FROM THE SHIPPER.

Recommend Actions Taken: RETRAIN THE OPERATOR ON PROPER FORKLIFT PROCEDURES.

HMIR Incident Reports

Report No:	I-2016010119	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2015-11-18	**Report Submit Src:**	Paper
Time of Incident:	1100	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	8	**Mode Transport:**	Highway
Commodity Short Nm:	AMINES, LIQUID, CORROSIV	**Transport Phase:**	Loading
Commodity Long Nm:	AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.	**Incident Occrrnce:**	
Trade Name:	COCOALKYLDIMETHYLAMINE	**Mat Ship Approval?:**	No
ID No:	UN2735	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MORTOR EXPRESS
Qty Released:	0.125	**CR Street Name:**	625 SOUTH 5TH AVENUE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	109	**CR State:**	PA
What Failed Desc:	Closure (e.g., Cap, Top, or Plug)	**CR Postal Code:**	17042
How Failed Code:	308	**CR Non US State:**	
How Failed Desc:	Leaked	**CR Fed DOT ID:**	10670
Failure Cause Code:	517	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Improper Preparation for Transportation	**CR Country:**	US
Ident. Markings:	NO MARKINGS GIVEN- PAIL, PLASTIC	**Shipper Name:**	AH HARRIS
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	420 EAST STREET
Cont1 Const Mat:	Plastic	**Shipper City:**	BOSTON
Cont1 Head Type:		**Shipper State:**	MA

Cont1 Pkg Capacity:	5	**Shipper Postal:**	02127
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	09799877
Cont1 Pkg No:	2	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	ARDSLEY
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	10502
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	SUSAN CAMARA
Damage > 500:	No	**Contact Title:**	MANAGER SAFETY
Material Loss:	0	**Contact Business:**	HOLLAND
Carrier Damage:	0	**Contact Street:**	750 E 40TH
Property Damage:	0	**Contact City:**	HOLLAND
Response Cost:	0	**Contact State:**	MI
Remediation Cost:	0	**Contact Postal:**	49423
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	
Haz Hosp Old Form:	0	**HMIS Container Code:**	NO MARKI

Total Haz Hosp Inj:	0	**HMIS Container Desc:**	
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: DISCOVERED LOOSE LID ON PAIL AND MINIMAL SPILLAGE PAIL PLACED INTO LINED SALVAGE DRUM PENDING DISPOSITION FROM THE SHIPPER SPILLAGE ABSORBED AND CLEANED UP PROPERLY PENDING DISPOSAL. REMAINDER OF SHIPMENT SENT ON TO CONSIGNEE.

Recommend Actions Taken: SHIPPER NOTIFIED BY COMPANY REGARDING LOOSE CLOSURE TO PREVENT FUTURE LIKE-INCIDENTS.

HMIR Incident Reports

Report No:	I-2011120327	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2011-10-21	**Report Submit Src:**	Paper
Time of Incident:	0600	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	3	**Mode Transport:**	Highway
Commodity Short Nm:	PAINT INCLUDING PAINT, L	**Transport Phase:**	Unloading
Commodity Long Nm:	PAINT INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC SOLUTIONS, VARNISH, POLISH, LIQUID FILLER AND LIQUID LACQUER BASE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1263	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS, INC.
Qty Released:	0.5	**CR Street Name:**	625 SOUTH 5TH AVENUE
Unit of Measure:	Liquid - Gallon	**CR City:**	Lebanon
What Failed:	128	**CR State:**	PA
What Failed Desc:	Inner Packaging	**CR Postal Code:**	17042
How Failed Code:	303	**CR Non US State:**	
How Failed Desc:	Burst or Ruptured	**CR Fed DOT ID:**	10670
Failure Cause Code:	515	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Human Error	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	CARBOLINE COMPANY
Cont1 Pkging Type:	Box	**Shipper Street Name:**	1301 PARK AVENUE SOUTH
Cont1 Const Mat:	Fiberboard	**Shipper City:**	LINDEN
Cont1 Head Type:		**Shipper State:**	NJ
Cont1 Pkg Capacity:	4	**Shipper Postal:**	07036
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	4	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	06211573
Cont1 Pkg No:	18	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	NEW WINDSOR
Cont1 Pkg Mnfctr:		**Origin State:**	NY
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	12553
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Fiberboard	**Destination City:**	NEW WINDSOR
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW YORK
C1 Dsign Press UOM:		**Destination Postal:**	12553
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	Can
C1 Head Thick UOM:		**Cont2 Const Mat:**	Metal (any type)
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	1
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	LGA
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	1
C1 Device Type:		**Cont2 Pkg Amt UOM:**	LGA
C1 Device Mnfctr:		**Cont2 Pkg No:**	72
C1 Device Model:		**Cont2 Pkg No Failed:**	1
NRC No:			
RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR MGR INDUSTRIAL SAFETY AND ENV
Material Loss:	0	**Contact Business:**	YRC INC
Carrier Damage:	0	**Contact Street:**	10990 ROE AVENUE
Property Damage:	0	**Contact City:**	OVERLAND PARK
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	BOX FIBER
Haz Hosp Old Form:	0	**HMIS Container Code:**	BOX FBR
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Fiberboard box or carton
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE DOCKWORKER NOTICED A WET CARTON. HE OVERPACKED THE CARTON AND THE EFFECTED CARTONS INTO A PAIL. WE ARE HOLDING THIS FOR DISPOSITION. THE REMAINDER OF THE SHIPMENT WAS TO DESTINATION.

Recommend Actions Taken: WE FOLLOWED UP WITH THE LOADING TERMINAL. THEY WILL HOLD PRE-SHIFT MEETINGS ON THIS TOPIC.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	12 of 13	NNE	0.04 / 210.20	446.40 / 5	1000 CORPORATE BOULEVARD NEWBURGH NY	HMIRS

Incident County: ORANGE

HMIR Incident Reports

Report No:	I-2007070368	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2007-06-29	**Report Submit Src:**	Paper
Time of Incident:	0530	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	8	**Mode Transport:**	Highway
Commodity Short Nm:	CORROSIVE LIQUIDS, N.O.S.	**Transport Phase:**	Unloading
Commodity Long Nm:	CORROSIVE LIQUIDS, N.O.S.	**Incident Occrrnce:**	
Trade Name:	2-PHOSPHONO-1,2,4-BUTANETRICARBOXYLIC ACIT	**Mat Ship Approval?:**	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

ID No:	UN1760	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS
Qty Released:	0.03125	**CR Street Name:**	625 SOUTH 5TH AVENUE
Unit of Measure:	Liquid - Gallon	**CR City:**	LEBANON
What Failed:	140	**CR State:**	PA
What Failed Desc:	Outer Frame	**CR Postal Code:**	17042
How Failed Code:	309	**CR Non US State:**	
How Failed Desc:	Punctured	**CR Fed DOT ID:**	10670
Failure Cause Code:	516	**CR Hazmat Reg ID:**	061206001005O
Failure Cause Desc:	Impact with Sharp or Protruding Object (e.g., nails)	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	REDUX TECHNOLOGY
Cont1 Pkging Type:	Drum	**Shipper Street Name:**	THOUSAND OAKS CORP CTR
Cont1 Const Mat:	Plastic	**Shipper City:**	MORGANTOWN
Cont1 Head Type:		**Shipper State:**	PA
Cont1 Pkg Capacity:	55	**Shipper Postal:**	19543
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	55	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	02205062
Cont1 Pkg No:	2	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	DANBURY
C1 Pkg Dsign Pres.:	0	**Destination State:**	CONNECTICUT
C1 Dsign Press UOM:		**Destination Postal:**	06810
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	MICHAEL N WINDSOR
Damage > 500:	No	**Contact Title:**	MANAGER - HAZARDOUS MATERIALS
Material Loss:	0	**Contact Business:**	YELLOW TRANSPORTATION

Carrier Damage:	0	**Contact Street:**	10990 ROE AVENUE
Property Damage:	0	**Contact City:**	OVERLAND PARK
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	DRUM NON-METAL
Haz Hosp Old Form:	0	**HMIS Container Code:**	DRUM PLS
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Plastic drum
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING, THE DOCK WORKER NOTICED A SMALL AMOUNT OF LIQUID ON THE FLOOR AND LEAKING FROM THE BOTTOM OF ONE OF THE DRUMS. AFFECTED MATERIALS PLACED IN A SALVAGE DRUM PENDING DISPOSITION FROM THE SHIPPER. THE REMAINDER OF THE SHIPMENT FORWARDED TO THE CONSIGNEE.

Recommend Actions Taken: WE CONTACTED THE SHIPPER AND THEY ARE TAKING THE DRUM BACK FOR INSPECTION AND CORRECTIVE ACTION.

HMIR Incident Reports

Report No:	I-2014050247	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2014-03-17	**Report Submit Src:**	Paper
Time of Incident:	0230	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	3	**Mode Transport:**	Highway
Commodity Short Nm:	RESIN SOLUTION, FLAMMABLE	**Transport Phase:**	Unloading
Commodity Long Nm:	RESIN SOLUTION, FLAMMABLE	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1866	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	III
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS
Qty Released:	0.125	**CR Street Name:**	625 SOUTH 5TH AVENUE
Unit of Measure:	Liquid - Gallon	**CR City:**	Lebanon
What Failed:	104	**CR State:**	PA
What Failed Desc:	Body	**CR Postal Code:**	17042
How Failed Code:	305	**CR Non US State:**	
How Failed Desc:	Crushed	**CR Fed DOT ID:**	10670
Failure Cause Code:	534	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Too Much Weight on Package	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	KEMPER SYSTEM AMERICA, INC.
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	1200 N AMERICA DR
Cont1 Const Mat:	Plastic	**Shipper City:**	WEST SENECA
Cont1 Head Type:		**Shipper State:**	NY
Cont1 Pkg Capacity:	10	**Shipper Postal:**	14224-5303
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	10	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	20622930
Cont1 Pkg No:	81	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Plastic	**Destination City:**	CLOSTER
C1 Pkg Dsign Pres.:	0	**Destination State:**	NEW JERSEY

C1 Dsign Press UOM:		**Destination Postal:**	07624
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			
RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	SUSAN CAMARA
Damage > 500:	No	**Contact Title:**	MANAGER - SAFETY
Material Loss:	0	**Contact Business:**	YRC INC
Carrier Damage:	0	**Contact Street:**	10990 ROE AVENUE
Property Damage:	0	**Contact City:**	Overland Park
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	DRUM NON-METAL
Haz Hosp Old Form:	0	**HMIS Container Code:**	PAIL PLS
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Plastic pail, open head, capacity 10 gallons or less
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: THE WEIGHT FROM THE FREIGHT LOADED ON THIS SKID CRUSHED A PAIL ON THE BOTTOM. THIS SKID WAS LOADED BY THE SHIPPER. WE OVERPACKED THE DAMAGED PAIL AND ARE HOLDING FOR DISPOSITION. WE FORWARDED THE REMAINDER OF THE SHIPMENT TO THE CONSIGNEE. SPILLAGE CLEANED UP ACCORDING TO PROPER PROCEDURES.

Recommend Actions Taken: WE CONTACTED THE ORIGIN TERMINAL TO FOLLOW UP WITH THE SHIPPER.

HMIR Incident Reports

Report No:	I-2012080161	**Fed DOT Agency Nm:**	
Report Type:	A hazardous material incident	**Fed DOT Report No:**	
Date of Incident:	2012-05-29	**Report Submit Src:**	Paper
Time of Incident:	2045	**Inc Multiple Rows:**	No
Haz Class Code:		**Inc Non US State:**	
Hazardous Class:	3	**Mode Transport:**	Highway
Commodity Short Nm:	ISOPROPANOL OR ISOPROPYL	**Transport Phase:**	Unloading
Commodity Long Nm:	ISOPROPANOL OR ISOPROPYL ALCOHOL	**Incident Occrrnce:**	
Trade Name:		**Mat Ship Approval?:**	No
ID No:	UN1219	**Mat Ship Approv No:**	
Haz Waste Ind:	No	**Undecl Hazmat Ship?:**	No
Haz Waste EPA No:		**Packaging Type:**	Non-Bulk
HMIS Tox Inhalation?:	No	**Packing Group:**	II
TIH Hazard Zone:		**Carrier Reporter:**	NEW PENN MOTOR EXPRESS
Qty Released:	0.09375	**CR Street Name:**	525 S. 5TH AVE.
Unit of Measure:	Liquid - Gallon	**CR City:**	Lebanon
What Failed:	104	**CR State:**	PA
What Failed Desc:	Body	**CR Postal Code:**	17042
How Failed Code:	309	**CR Non US State:**	
How Failed Desc:	Punctured	**CR Fed DOT ID:**	10670
Failure Cause Code:	513	**CR Hazmat Reg ID:**	060707550078PR
Failure Cause Desc:	Forklift Accident	**CR Country:**	US
Ident. Markings:		**Shipper Name:**	PHARMCO
Cont1 Pkging Type:	Jerrican	**Shipper Street Name:**	58 VALE ROAD
Cont1 Const Mat:	Steel	**Shipper City:**	BROOKFIELD
Cont1 Head Type:		**Shipper State:**	CT
Cont1 Pkg Capacity:	5	**Shipper Postal:**	06804
C1 Capacity UOM:	LGA	**Shipper Non US St:**	
Cont1 Pkg Amt:	5	**Shipper Country:**	US
C1 Pkg Amt UOM:	LGA	**Shipper Waybill:**	22455327
Cont1 Pkg No:	3	**Ship Hazmat Reg ID:**	
C1 Pkg NO Failed:	1	**Origin City:**	
Cont1 Pkg Mnfctr:		**Origin State:**	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	**Origin Postal:**	
Cont1 Pkg Serial NO:		**Origin Non US St:**	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	**Origin Country:**	US
C1 Test Const Mat:	Steel	**Destination City:**	BELLEFONTE
C1 Pkg Dsign Pres.:	0	**Destination State:**	PENNSYLVANIA
C1 Dsign Press UOM:		**Destination Postal:**	16823
C1 Pkg Shell Thick:	0	**Destination Non US:**	
C1 Shell Thick UOM:		**Destination Country:**	US
C1 Head Thickness:	0	**Cont2 Package Type:**	
C1 Head Thick UOM:		**Cont2 Const Mat:**	
C1 Pkg Srvc Pres.:	0	**Cont2 Pkg Capacity:**	0
C1 Srvc Press UOM:		**Cont2 Capacity UOM:**	
C1 Valve/Device Fail?:	No	**Cont2 Pkg Amount:**	0
C1 Device Type:		**Cont2 Pkg Amt UOM:**	
C1 Device Mnfctr:		**Cont2 Pkg No:**	0
C1 Device Model:		**Cont2 Pkg No Failed:**	0
NRC No:			

RAM Pkg Category:		**Haz NonHosp Public:**	0
RAM Pkg Cert.:	FALSE	**Haz NonHosp Old:**	
RAM Pkg Cert. NBR:		**Tot Haz Non Hosp Inj:**	
RAM Nuclide S:		**Total Hazmat Injuries:**	0
RAM Transport Index:		**Evacuation Indicator:**	No
RAM UOM:		**Public Evacuated:**	0
RAM Activity Rpted:	0	**Employees Evac:**	0
RAM UOM Rpted:		**Total Evacuated:**	0
RAM Activity:	0	**Total Evacuation Hrs:**	0
RAM Activity UOM:		**Major Artery Closed:**	No
RAM Mat Safety:		**Mjr Artery Hrs Closed:**	0
Spillage Result:	Yes	**Material Involved:**	No
Fire Result:	No	**Estimated Speed:**	0
Explosion Result:	No	**Weather Conditions:**	
Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	No
Other Cleanup:	No	**Contact Name:**	STEVE SHINNERS
Damage > 500:	No	**Contact Title:**	SR. MGR. - INDUST. SAFETY & ENVIRON.
Material Loss:	0	**Contact Business:**	YRC INC.
Carrier Damage:	0	**Contact Street:**	10990 ROE AVE.
Property Damage:	0	**Contact City:**	Overland Park
Response Cost:	0	**Contact State:**	KS
Remediation Cost:	0	**Contact Postal:**	66211
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	CONTAINER
Haz Hosp Old Form:	0	**HMIS Container Code:**	CONT
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Container, no description given (do not use if at all possible)
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: WHILE UNLOADING THE TRAILER, THE DOCK WORKER HIT THE DRUM WITH HIS FORKS. HE IMMEDIATELY TURNED THE DRUM ON ITS SIDE AND NOTIFIED THE SUPERVISOR. HE OVERPACKED THE DAMAGED PAIL AND THE REMAINDER OF THE SHIPMENT WAS FORWARDED TO THE CONSIGNEE.

Recommend Actions Taken: WE ISSUED DISCIPLINE TO THE EMPLOYEE FOR NOT OPERATING A FORKLIFT SAFELY.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	13 of 13	NNE	0.04 / 210.20	446.40 / 5	PUNCTURED DRUM 1000 CORPORATE BLVD NEWBURGH NY	NY SPILLS

Spill No:	2007739	**Spill Date:**	2020-12-02 08:33:00
Site ID:	614647	**Received Date:**	2020-12-02 08:39:00
DER Facility ID:	532624	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2020-12-02 00:00:00
SWIS Code:	3646	**Create Date:**	2020-12-02 08:44:00
Contributing Factor:	Human Error	**Update Date:**	2020-12-02 11:53:26.763000000
Water Body:		**DEC Region:**	3
Source:	Commercial/Industrial	**Lead DEC:**	JBODEE
Class:	C4	**Reported by:**	Responsible Party
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"Caller states 2 gals of material released to concrete from a forklift puncturing a drum. clean up in progress."

DEC Remark:

"12/02/20: I spoke with shipping manager Sal DeVito. Inside of a trailer at the loading dock a drum was accidently punctured by a forklift. Drum was placed in a containment tub. Approximately 2 gallons leaked to inside of trailer and concrete loading dock. No drains were impacted. No injuries occurred. Cleanup has been completed using speedi-dry which has been drummed for disposal. No DEC action is necessary at this time. jod"

Material Information

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

OP Unit ID:	1361753	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2373754	**Med GW:**	False
Material Code:	0038C	**Med SW:**	False
Material Name:	sodium hydroxide	**Med DW:**	False
CAS No:	01310732	**Med Sewer:**	False
Material Family:	Hazardous Material	**Med Surf:**	False
Quantity:	2.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	False		

Spiller Information

Spiller Name:	SAL DEVITO	**Spiller Zip:**	
Spiller Company:	A. Duie Pyle	**Spiller Country:**	999
Spiller Address:	1000 CORPARTE BLVD	**Contact Name:**	SAL DEVITO
Spiller City:	NEWBURG	**Contact Phone:**	8455) 679-860
Spiller State:	NY	**Contact Ext:**	
Latitude:			
Longitude:			

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2 | ***1 of 1*** | ***NNW*** | ***0.05 / 283.15*** | ***445.06 / 3*** | ***Mondelez Global LLC - Newburgh***
800 Corporate Boulevard
Newburgh NY 12550 | ***TIER 2***

Facility ID:	6110616	**Zip:**	12550
County:	Orange	**Latitude:**	41.51124771289279
State:	NY	**Longitude:**	-74.08410064285277

Online Report

CAS No:	68334305	**EHS:**	
Company Name:	Mondelez Global LLC	**Solid:**	F
Chemical Name:	Diesel fuel	**Liquid:**	T
Filing Year:	2017(Tier2)	**Gas:**	F
CAS No:	7439921	**EHS:**	T
Company Name:	Mondelez Global LLC	**Solid:**	T
Chemical Name:	Lead acid battery	**Liquid:**	F
Filing Year:	2017(Tier2)	**Gas:**	F

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3 | ***1 of 1*** | ***SE*** | ***0.07 / 386.25*** | ***403.72 / -38*** | ***MAPLE LEAF OFFICE BLDG***
114 17K
NEWBURGH NY | ***NY SPILLS***

Spill No:	9904441	**Spill Date:**	1999-07-15 08:00:00
Site ID:	98935	**Received Date:**	1999-07-15 09:31:00
DER Facility ID:	87977	**CAC Date:**	
CID:	388	**Insp Date:**	
Program Type:	ER	**Close Date:**	2001-11-05 00:00:00
SWIS Code:	3646	**Create Date:**	1999-07-15 00:00:00
Contributing Factor:	Equipment Failure	**Update Date:**	2001-11-05 00:00:00
Water Body:		**DEC Region:**	3
Source:	Unknown	**Lead DEC:**	BONDS
Class:	B3	**Reported by:**	Responsible Party
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"CALLER REPORTS POSSIBLY THE UNDERGROUND TANK LEAKING OR POSSIBLY A LINE, THEY WILL BE DIGGING IT UP LATER THIS AFTERNOON."

DEC Remark:

""

Material Information

OP Unit ID:	1078872	***Med Air:***	False
OU:	01	***Med Ind Air:***	False
Material ID:	304322	***Med GW:***	False
Material Code:	0001A	***Med SW:***	False
Material Name:	#2 fuel oil	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:	.00	***Oxygenate:***	
Med Soil:	True		

Spiller Information

Spiller Name:	CALLER	***Spiller Zip:***	
Spiller Company:	BUTTERHILL DEVELOPMENT	***Spiller Country:***	001
Spiller Address:	32 SWEETBRIAR LANE	***Contact Name:***	CALLER
Spiller City:	STAMFORD	***Contact Phone:***	(914) 567-9068
Spiller State:	CT	***Contact Ext:***	
Latitude:	41.500009360		
Longitude:	-74.010319180		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
4	1 of 6	SE	0.08 / 438.35	400.16 / -42	STEWART AIR BASE 1 MILITIA WY NEWBURGH NY	NY SPILLS

Spill No:	0200092	***Spill Date:***	2002-04-03 12:40:00
Site ID:	130500	***Received Date:***	2002-04-03 13:20:00
DER Facility ID:	112447	***CAC Date:***	
CID:	211	***Insp Date:***	
Program Type:	ER	***Close Date:***	2002-04-03 00:00:00
SWIS Code:	3646	***Create Date:***	2002-04-03 00:00:00
Contributing Factor:	Equipment Failure	***Update Date:***	2002-08-01 00:00:00
Water Body:		***DEC Region:***	3
Source:	Commercial Vehicle	***Lead DEC:***	UNASSIGNED
Class:	C4	***Reported by:***	Responsible Party
Meets Std:	True	***Referred to:***	
Penalty:	False	***County:***	Orange
REM Phase:	0	***After Hours:***	False
UST Trust:	False		

Caller Remark:

"leak occurred during fuel transfer for c-130 - spill cleaned up"

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was "

Material Information

OP Unit ID:	853528	***Med Air:***	False
OU:	01	***Med Ind Air:***	False
Material ID:	525088	***Med GW:***	False
Material Code:	0011	***Med SW:***	False
Material Name:	jet fuel	***Med DW:***	False

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	30.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:	30.00	**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	MONA JOHNSON	**Spiller Zip:**	
Spiller Company:	STEWART AIR BASE	**Spiller Country:**	001
Spiller Address:	1 MILITIA WY	**Contact Name:**	MONA JOHNSON
Spiller City:	NEWBURGH	**Contact Phone:**	(845) 563-2366
Spiller State:	ZZ	**Contact Ext:**	
Latitude:	41.506985170		
Longitude:	-74.081388830		

4	2 of 6	SE	0.08 / 438.35	400.16 / -42	**STEWART AIR BASE** **1 MILTIA WY** **NEWBURGH NY**	NY SPILLS

Spill No:	9710600	**Spill Date:**	1997-12-16 15:23:00
Site ID:	69731	**Received Date:**	1997-12-16 16:14:00
DER Facility ID:	66276	**CAC Date:**	
CID:	211	**Insp Date:**	
Program Type:	ER	**Close Date:**	1998-01-10 00:00:00
SWIS Code:	3646	**Create Date:**	1997-12-16 00:00:00
Contributing Factor:	Equipment Failure	**Update Date:**	2005-11-08 14:16:56.590000000
Water Body:		**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	JYMCCART
Class:	C4	**Reported by:**	Responsible Party
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"REMOVED FUEL CONTROLLER FROM ENGINE OF PLANE - PLANE WAS POWER WAS TURNED ON AND PT VALVE OPEN CAUSING SPILL - SPILL CLEANED UP"

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MCCARTHY "

Material Information

OP Unit ID:	1056961	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	328891	**Med GW:**	False
Material Code:	0011	**Med SW:**	False
Material Name:	jet fuel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	10.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:	10.00	**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	LT COL ZICHA	**Spiller Zip:**	
Spiller Company:	STEWART AIR BASE USMC	**Spiller Country:**	001
Spiller Address:	1 MILITIA WY	**Contact Name:**	LT COL ZICHA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Spiller City:	NEWBURGH	**Contact Phone:**	(914) 563-2366
Spiller State:	NY	**Contact Ext:**	
Latitude:	41.506985170		
Longitude:	-74.081388830		

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4 **3 of 6** **SE** **0.08 / 438.35** **400.16 / -42** **STEWART AIR BASE**
1 MALITIA WAY
NEWBURGH NY
NY SPILLS

Spill No:	9602070	**Spill Date:**	1996-05-11 09:01:00
Site ID:	322929	**Received Date:**	1996-05-13 10:04:00
DER Facility ID:	260139	**CAC Date:**	
CID:	322	**Insp Date:**	
Program Type:	ER	**Close Date:**	1996-05-13 00:00:00
SWIS Code:	3600	**Create Date:**	1996-05-13 00:00:00
Contributing Factor:	Other	**Update Date:**	1996-05-30 00:00:00
Water Body:		**DEC Region:**	3
Source:	Institutional, Educational, Gov., Other	**Lead DEC:**	JYMCCART
Class:	B4	**Reported by:**	Responsible Party
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"due to heat expansion in tank - fuel overflowed out and on to ground - aprox 250 gal recoverd - rest spilled on concrete and absorbed w/pads for disposal "

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MCCARTHY "

Material Information

OP Unit ID:	1029589	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	566849	**Med GW:**	False
Material Code:	0011	**Med SW:**	False
Material Name:	jet fuel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	300.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:	250.00	**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	LT ZICHA	**Spiller Zip:**	
Spiller Company:	STEWART AIR BASE AIR GUAR	**Spiller Country:**	001
Spiller Address:	1 MALITIA WAY	**Contact Name:**	LT ZICHA
Spiller City:	NEWBURG	**Contact Phone:**	(914) 563-2366
Spiller State:	ZZ	**Contact Ext:**	
Latitude:	41.506985170		
Longitude:	-74.081388830		

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4 **4 of 6** **SE** **0.08 / 438.35** **400.16 / -42** **STEWART AIR BASE**
1 MILITIA WY
NEWBURGH NY
NY SPILLS

Spill No:	9710598	**Spill Date:**	1997-12-16 14:00:00
Site ID:	130501	**Received Date:**	1997-12-16 16:07:00
DER Facility ID:	112447	**CAC Date:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CID:	211	**Insp Date:**	
Program Type:	ER	**Close Date:**	1997-12-17 00:00:00
SWIS Code:	3646	**Create Date:**	1997-12-16 00:00:00
Contributing Factor:	Equipment Failure	**Update Date:**	1998-01-23 00:00:00
Water Body:		**DEC Region:**	3
Source:	Institutional, Educational, Gov., Other	**Lead DEC:**	JYMCCART
Class:	B4	**Reported by:**	Responsible Party
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"BROKEN FITTING ON FUEL SUPPLY LINE TO BOILER - CLEAN UP COMPLETE - SPILL WAS ON FLOOR IN MECHANICAL ROOM THER IS A DRAIN IN FLOOR - SOME PRODUCT DID ENTER IT BUT WAS CAPTURED BY SEPERATOR SYSTEM"

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MCCARTHY 12/17/97 CLEAN UP IS COMPLETE; "

Material Information

OP Unit ID:	1056957	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	328889	**Med GW:**	False
Material Code:	0001A	**Med SW:**	False
Material Name:	#2 fuel oil	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	125.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:	120.00	**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	LT COL ZICHA	**Spiller Zip:**	
Spiller Company:	STEWART AIR BASE	**Spiller Country:**	001
Spiller Address:	1 MILITIA WY	**Contact Name:**	LT COL ZICHA
Spiller City:	NEWBURGH	**Contact Phone:**	(914) 563-2366
Spiller State:	NY	**Contact Ext:**	
Latitude:	41.506985170		
Longitude:	-74.081388830		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
4	5 of 6	SE	0.08 / 438.35	400.16 / -42	VEHICLE MAINT. 105TH AIRL 1 MALITIA WAY NEWBURGH NY	NY SPILLS

Spill No:	0312566	**Spill Date:**	2004-02-11 14:51:00
Site ID:	322928	**Received Date:**	2004-02-11 15:22:00
DER Facility ID:	260139	**CAC Date:**	
CID:	406	**Insp Date:**	
Program Type:	ER	**Close Date:**	2004-02-11 00:00:00
SWIS Code:	3600	**Create Date:**	2004-02-11 00:00:00
Contributing Factor:	Human Error	**Update Date:**	2004-03-05 00:00:00
Water Body:		**DEC Region:**	3
Source:	Unknown	**Lead DEC:**	rxamato
Class:	C4	**Reported by:**	Responsible Party
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"WAS FUEL jp8 FOR C5 AIRCRAFT hose was layed down and fuel poured out and went into trenches designed for catching spills. Was in the vehicle maintance bay. Has been soaked up at this time"

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SMITH 02/11/2004 CLEANED UP. NFA"

Material Information

OP Unit ID:	879957	***Med Air:***	False
OU:	01	***Med Ind Air:***	False
Material ID:	497769	***Med GW:***	False
Material Code:	0011	***Med SW:***	False
Material Name:	jet fuel	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	7.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:	.00	***Oxygenate:***	
Med Soil:	True		

Spiller Information

Spiller Name:	MONA JOHNSON	***Spiller Zip:***	12550
Spiller Company:	VEHICLE MAINT. 105TH AIRL	***Spiller Country:***	001
Spiller Address:	1 MALITIA WAY	***Contact Name:***	MONA JOHNSON
Spiller City:	NEWBURG	***Contact Phone:***	(845) 563-2366
Spiller State:	NY	***Contact Ext:***	
Latitude:	41.506985170		
Longitude:	-74.081388830		

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4 | ***6 of 6*** | ***SE*** | ***0.08 / 438.35*** | ***400.16 / -42*** | ***NY AIR NATIONAL GUARD 105TH ONE MILITIA WAY NEWBURGH NY 12550*** | ***GEN MANIFEST***

RCRA ID:	NYP981183333	***Mailing State:***	NY
District Name:	NY AIR NATIONAL GUARD 105TH	***Mailing Zip:***	12550
Contact Name:	DENNIS ZICHA	***Mailing Zip Extension:***	
Business Phone No:	9145632366	***Mailing Country:***	USA
Mailing Street 1:	ONE MILITIA WAY	***Location Zip Ext:***	
Mailing Street 2:		***Location Country:***	USA
Mailing City:	NEWBURGH	***Location County:***	ORANGE

Manifest Information

Waste Code(s):

D001: IGNITABLE WASTE (Waste Code Description from EPA Hazardous Waste Identification)

Waste Amounts By Year:

1998: 134 Pounds; 72 Pounds

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5 | ***1 of 1*** | ***N*** | ***0.10 / 511.68*** | ***449.32 / 8*** | ***CNS GROCERY WHOLESALERS 1800 CORPORATE BLVD NEWBURGH NY*** | ***NY SPILLS***

Spill No:	9814864	***Spill Date:***	1999-03-15 08:00:00
Site ID:	229099	***Received Date:***	1999-03-15 10:50:00
DER Facility ID:	188895	***CAC Date:***	
CID:	384	***Insp Date:***	
Program Type:	ER	***Close Date:***	1999-03-15 00:00:00

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

SWIS Code:	3646	**Create Date:**	1999-03-15 00:00:00
Contributing Factor:	Equipment Failure	**Update Date:**	1999-03-16 00:00:00
Water Body:		**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	dxtraver
Class:	C3	**Reported by:**	Citizen
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"cross over line on truck ruptured causing deisel to spill into a sewer drain that empties into a series of 3 ponds. caller does not believe the company is going to clean the spill up. he believes they are going to try and cover it up."

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TRAVER 3/15/99 ECO L. BELLO WILL RESPOND."

Material Information

OP Unit ID:	1075883	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	311534	**Med GW:**	False
Material Code:	0008	**Med SW:**	False
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	True
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	50.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:	.00	**Oxygenate:**	
Med Soil:	False		

Spiller Information

Spiller Name:		**Spiller Zip:**	
Spiller Company:	WEBSTER TRUCKING	**Spiller Country:**	001
Spiller Address:	1800 CORPORATE BLVD	**Contact Name:**	
Spiller City:	NEWBURGH	**Contact Phone:**	
Spiller State:	NY	**Contact Ext:**	
Latitude:	41.512343010		
Longitude:	-74.083458130		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	1 of 13	NNW	0.10 / 545.01	443.13 / 1	C&S WHOLESALE GROCERS, INC. 1500 CORPORATE BOULEVARD NEWBURGH NY 12550	AST

Site ID:	412540	**Expiry:**	2021/12/14
Site Status:	Active	**County:**	Orange
Program No:	3-602040	**UTM X:**	576399.22968
Program Type Code:	PBS	**UTM Y:**	4595997.50331
Program Type Desc:	Petroleum Bulk Storage Program		
Site Type:	Other		

Tank Information

Prog No:	3-602040	**UDC Ind:**	0
Tank ID:	228074	**Red Tag Start Date:**	
Tank No:	3	**Red Tag End Date:**	
Tank Status:	1	**Tank Last Test:**	
Tank Status Desc:	In Service	**Tank Next Test Due:**	
Tank Type:	01	**Test Method:**	-
Tank Type Desc:	Steel/Carbon Steel/Iron	**Line Last Test Due:**	

Install Date:	1992-08-21 00:00:00	**Next Line Test Due:**	
Close Date:		**Line Test Method:**	-
Tk Out of Serv Dt:		**Class A Operator:**	
Capacity (Gal):	50	**Class B Operator:**	
Registered:	True	**Modified by:**	BHYUKOWE
Tank Model:		**Last Modified:**	2017-04-14 14:30:47.863000000
Pipe Model:			

Tank Location: 2
Tank Location Desc: Aboveground-contact w/ impervious barrier
Category: 2
Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: diesel
Percent: 100.00

Equipment Information

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: J03
Code Name: Gravity
Type: Dispenser

Equipment: K01
Code Name: Catch Basin
Type: Spill Prevention

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Equipment: D02
Code Name: Galvanized Steel
Type: Pipe Type

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: G01
Code Name: Diking (Aboveground)
Type: Tank Secondary Containment

Tank Information

Prog No:	3-602040	**UDC Ind:**	1
Tank ID:	235029	**Red Tag Start Date:**	
Tank No:	5	**Red Tag End Date:**	
Tank Status:	1	**Tank Last Test:**	
Tank Status Desc:	In Service	**Tank Next Test Due:**	
Tank Type:	01	**Test Method:**	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	**Line Last Test Due:**	
Install Date:	2010-05-25 00:00:00	**Next Line Test Due:**	
Close Date:		**Line Test Method:**	
Tk Out of Serv Dt:		**Class A Operator:**	
Capacity (Gal):	250	**Class B Operator:**	
Registered:	True	**Modified by:**	BHYUKOWE
Tank Model:		**Last Modified:**	2017-04-14 14:30:47.863000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 2
Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: waste oil/used oil
Percent: 100.00

Equipment Information

Equipment: J00
Code Name: None
Type: Dispenser

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: D00
Code Name: No Piping
Type: Pipe Type

Equipment: I00
Code Name: None
Type: Overfill

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: H00

Code Name: None
Type: Tank Leak Detection

Equipment: C00
Code Name: No Piping
Type: Pipe Location

Equipment: G00
Code Name: None
Type: Tank Secondary Containment

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Tank Information

Prog No:	3-602040	***UDC Ind:***	0
Tank ID:	247916	***Red Tag Start Date:***	
Tank No:	006	***Red Tag End Date:***	
Tank Status:	1	***Tank Last Test:***	
Tank Status Desc:	In Service	***Tank Next Test Due:***	
Tank Type:	01	***Test Method:***	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	***Line Last Test Due:***	
Install Date:	2013-02-01 00:00:00	***Next Line Test Due:***	
Close Date:		***Line Test Method:***	
Tk Out of Serv Dt:		***Class A Operator:***	
Capacity (Gal):	1400	***Class B Operator:***	
Registered:	True	***Modified by:***	BHYUKOWE
Tank Model:		***Last Modified:***	2017-04-14 14:30:47.863000000
Pipe Model:			

Tank Location: 2
Tank Location Desc: Aboveground-contact w/ impervious barrier
Category: 2
Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: diesel
Percent: 100.00

Equipment Information

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: G09
Code Name: Modified Double-Walled (Aboveground)
Type: Tank Secondary Containment

Equipment: B01
Code Name: Painted/Asphalt Coating

Type: Tank External Protection

Equipment: H01
Code Name: Interstitial - Electronic Monitoring
Type: Tank Leak Detection

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: E06
Code Name: Remote Impounding Area
Type: Piping Secondary Containment

Equipment: J00
Code Name: None
Type: Dispenser

Equipment: L01
Code Name: Interstitial - Electronic Monitoring
Type: Piping Leak Detection

Equipment: F01
Code Name: Painted/Asphalt Coating
Type: Pipe External Protection

Equipment: I02
Code Name: High Level Alarm
Type: Overfill

Equipment: D01
Code Name: Steel/Carbon Steel/Iron
Type: Pipe Type

Tank Information

Prog No:	3-602040	***UDC Ind:***	1
Tank ID:	228072	***Red Tag Start Date:***	
Tank No:	1	***Red Tag End Date:***	
Tank Status:	3	***Tank Last Test:***	
Tank Status Desc:	Closed - Removed	***Tank Next Test Due:***	
Tank Type:	01	***Test Method:***	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	***Line Last Test Due:***	
Install Date:		***Next Line Test Due:***	
Close Date:	2009-05-15 00:00:00	***Line Test Method:***	
Tk Out of Serv Dt:		***Class A Operator:***	
Capacity (Gal):	1500	***Class B Operator:***	
Registered:	True	***Modified by:***	BHYUKOWE
Tank Model:		***Last Modified:***	2017-04-14 14:30:47.863000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 1
Category Desc: Category 1 means a tank which was installed before December 27, 1986
Subpart:
Subpart Desc:
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: diesel
Percent: 100.00

Equipment Information

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Equipment: D11
Code Name: Flexible Piping
Type: Pipe Type

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: G01
Code Name: Diking (Aboveground)
Type: Tank Secondary Containment

Equipment: J01
Code Name: Pressurized Dispenser
Type: Dispenser

Equipment: K99
Code Name: Other
Type: Spill Prevention

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Tank Information

Prog No:	3-602040	***UDC Ind:***	0
Tank ID:	228075	***Red Tag Start Date:***	
Tank No:	4	***Red Tag End Date:***	
Tank Status:	1	***Tank Last Test:***	
Tank Status Desc:	In Service	***Tank Next Test Due:***	
Tank Type:	01	***Test Method:***	-
Tank Type Desc:	Steel/Carbon Steel/Iron	***Line Last Test Due:***	
Install Date:	1992-08-21 00:00:00	***Next Line Test Due:***	
Close Date:		***Line Test Method:***	-
Tk Out of Serv Dt:		***Class A Operator:***	
Capacity (Gal):	38	***Class B Operator:***	
Registered:	True	***Modified by:***	BHYUKOWE
Tank Model:		***Last Modified:***	2017-04-14 14:30:47.863000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 2

Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: diesel
Percent: 100.00

Equipment Information

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: D00
Code Name: No Piping
Type: Pipe Type

Equipment: J00
Code Name: None
Type: Dispenser

Equipment: G01
Code Name: Diking (Aboveground)
Type: Tank Secondary Containment

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: C00
Code Name: No Piping
Type: Pipe Location

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: I00
Code Name: None
Type: Overfill

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Tank Information

Prog No: 3-602040 ***UDC Ind:*** 1
Tank ID: 228073 ***Red Tag Start Date:***

Tank No:	2	**Red Tag End Date:**	
Tank Status:	3	**Tank Last Test:**	
Tank Status Desc:	Closed - Removed	**Tank Next Test Due:**	
Tank Type:	01	**Test Method:**	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	**Line Last Test Due:**	
Install Date:		**Next Line Test Due:**	
Close Date:	2009-05-15 00:00:00	**Line Test Method:**	
Tk Out of Serv Dt:		**Class A Operator:**	
Capacity (Gal):	1000	**Class B Operator:**	
Registered:	True	**Modified by:**	BHYUKOWE
Tank Model:		**Last Modified:**	2017-04-14 14:30:47.863000000
Pipe Model:			

Tank Location: 3
Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 1
Category Desc: Category 1 means a tank which was installed before December 27, 1986
Subpart:
Subpart Desc:
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: diesel
Percent: 100.00

Equipment Information

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: G01
Code Name: Diking (Aboveground)
Type: Tank Secondary Containment

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: H06
Code Name: Impervious Barrier/Concrete Pad (A/G)
Type: Tank Leak Detection

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Equipment: K99
Code Name: Other
Type: Spill Prevention

Equipment: J01
Code Name: Pressurized Dispenser
Type: Dispenser

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: D11
Code Name: Flexible Piping
Type: Pipe Type

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Affiliation Information

Affiliation Type: 07
Affiliation Name: Mail Contact
Affiliation Sub Type: NNN
Company: C&S WHOLESALE GROCERS, INC.
Contact Title:
Contact Name: WARREN W. WILHOIT
Address1: 208 BILO BLVD.
Address2:
City: GREENVILLE
State: SC
Zip Code: 29607
Country Code: 001
Phone: (864) 284-4019
Phone Ext:
Email: WWILHOIT@CSWG.COM
Fax:

Affiliation Type: 04
Affiliation Name: Facility Operator
Affiliation Sub Type: NNN
Company: C&S WHOLESALE GROCERS, INC.
Contact Title:
Contact Name: STEVE STORMS
Address1:
Address2:
City:
State: NN
Zip Code:
Country Code: 001
Phone: (860) 729-6573
Phone Ext:
Email:
Fax:

Affiliation Type: 01
Affiliation Name: Facility Owner
Affiliation Sub Type: E
Company: NEWBURGH LOGISTICS LLC
Contact Title: DIR. ENV. & OSHA COMPLIANCE
Contact Name: WARREN W. WILHOIT
Address1: 1500 CORPORATE BLVD.
Address2:
City: NEWBURGH
State: NY
Zip Code: 12550
Country Code: 001
Phone: (860) 204-6011
Phone Ext:
Email:
Fax:

Affiliation Type: 11
Affiliation Name: Emergency Contact
Affiliation Sub Type: NNN
Company: NEWBURGH LOGISTICS LLC
Contact Title:
Contact Name: WARREN WILHOIT

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Address1:
Address2:
City:
State: NN
Zip Code:
Country Code: 999
Phone: (864) 284-4019
Phone Ext:
Email:
Fax:

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6 | **2 of 13** | **NNW** | **0.10 / 545.01** | **443.13 / 1** | **CORPORATE COMPLEX 1500 CORPORATE BLVD. NEWBURGH NY** | **NY SPILLS**

Spill No:	0310753	**Spill Date:**	2003-12-18 09:50:00
Site ID:	143605	**Received Date:**	2003-12-18 09:50:00
DER Facility ID:	122475	**CAC Date:**	
CID:	444	**Insp Date:**	
Program Type:	ER	**Close Date:**	2003-12-18 00:00:00
SWIS Code:	3646	**Create Date:**	2003-12-18 00:00:00
Contributing Factor:	Equipment Failure	**Update Date:**	2004-07-07 00:00:00
Water Body:		**DEC Region:**	3
Source:	Commercial/Industrial	**Lead DEC:**	UNASSIGNED
Class:	C3	**Reported by:**	Other
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"YARD HORSE FUEL LINE BROKE, FUEL SPILLED ON GRASS AND SNOW. USING SPEEDI DRY TO CLEAN UP AT THIS TIME, STEVE FINN WILL BE RESPONDING TO SCENE. "

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DISPATCH 12/18/2003 EPS DOING CLEANUP."

Material Information

OP Unit ID:	875849	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	499600	**Med GW:**	False
Material Code:	0008	**Med SW:**	False
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	30.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:	.00	**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	BILL CROWLEY	**Spiller Zip:**	
Spiller Company:	WEBSTER TRUCKING	**Spiller Country:**	001
Spiller Address:	1500 CORPORATE BLVD.	**Contact Name:**	STEVEN FINN
Spiller City:	NEWBURGH	**Contact Phone:**	(845) 267-4828
Spiller State:	NY	**Contact Ext:**	
Latitude:	41.511955030		
Longitude:	-74.084506160		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	3 of 13	NNW	0.10 / 545.01	443.13 / 1	ACROSS FROM CALDOR DIST. 1500 CORPORATE BLVD. NEWBURGH NY	NY SPILLS

Spill No:	9402012	**Spill Date:**	1994-05-11 10:45:00
Site ID:	143606	**Received Date:**	1994-05-11 11:14:00
DER Facility ID:	122475	**CAC Date:**	1994-05-18 00:00:00
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	1994-05-18 00:00:00
SWIS Code:	3646	**Create Date:**	1994-05-18 00:00:00
Contributing Factor:	Equipment Failure	**Update Date:**	1994-05-18 00:00:00
Water Body:		**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	DVWEHRFR
Class:	C3	**Reported by:**	Affected Persons
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"FUEL LINE RUPTURED WHILE PARKING IN YARD SPILL ON SOIL TRUCK TO BE REPAIRED BY BOB'S FLEET (714) 236-3132 HIRED IRA CONKLIN TO CLEAN UP SEE SPILL # 9402019"

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was WEHRFRITZ "

Material Information

OP Unit ID:	995696	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	385752	**Med GW:**	False
Material Code:	0008	**Med SW:**	False
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	.00	**Med Subway:**	False
Units:		**Med Utility:**	False
Recovered:	.00	**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:		**Spiller Zip:**	
Spiller Company:	AMERICAN MOTOR FREIGHTS	**Spiller Country:**	001
Spiller Address:		**Contact Name:**	
Spiller City:	JERSEY CITY	**Contact Phone:**	
Spiller State:	NJ	**Contact Ext:**	
Latitude:	41.511955030		
Longitude:	-74.084506160		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	4 of 13	NNW	0.10 / 545.01	443.13 / 1	PARKING LOT 1500 CORPORATE BLVD. NEWBURGH NY	NY SPILLS

Spill No:	0409393	**Spill Date:**	2004-11-13 14:22:00
Site ID:	334118	**Received Date:**	2004-11-13 16:52:00
DER Facility ID:	122475	**CAC Date:**	
CID:	71	**Insp Date:**	
Program Type:	ER	**Close Date:**	2004-11-13 00:00:00
SWIS Code:	3646	**Create Date:**	2004-11-19 14:42:00
Contributing Factor:	Equipment Failure	**Update Date:**	2004-12-27 10:13:17.467000000
Water Body:		**DEC Region:**	3
Source:	Tank Truck	**Lead DEC:**	JYMCCART

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Class:	C4	**Reported by:**	Responsible Party
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	True
UST Trust:	False		

Caller Remark:

"FUEL TANK ON REFRIGERATOR TRAILER SPLIT, CLEAN UP IS PENDING:"

DEC Remark:

"Ken Klesco of Webster Trucking states that cleanup was completed by Fleetwash Environmental from Parsippany, NJ (973) 417-5072."

Spiller Information

Spiller Name:	KEN KLESO	**Spiller Zip:**	
Spiller Company:	PARKING LOT	**Spiller Country:**	001
Spiller Address:	1500 CORPORATE BLVD.	**Contact Name:**	KEN KLESO
Spiller City:	NEWBURGH	**Contact Phone:**	(888) 811-9186
Spiller State:	NY	**Contact Ext:**	
Latitude:	41.511957000		
Longitude:	-74.084505000		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	5 of 13	NNW	0.10 / 545.01	443.13 / 1	C&S GROCERS 1500 CORRPORT BLVD NEWBURGH NY	NY SPILLS

Spill No:	1411831	**Spill Date:**	2015-03-18 16:15:00
Site ID:	505632	**Received Date:**	2015-03-18 16:34:00
DER Facility ID:	460445	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2015-07-17 00:00:00
SWIS Code:	3646	**Create Date:**	2015-03-18 16:37:00
Contributing Factor:	Unknown	**Update Date:**	2015-07-17 15:46:17.883000000
Water Body:	BANK OF RETENSION PO	**DEC Region:**	3
Source:	Commercial/Industrial	**Lead DEC:**	DXTRAVER
Class:	C4	**Reported by:**	Other
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	True
UST Trust:	False		

Caller Remark:

"clean up is pending clean up crew"

DEC Remark:

"3-18-15 Spoke to Warren. He says about 2 gallons of diesel spilled to soil along side of their retention pond. He has put a call into his broker, who is responsible for hiring a contractor. I requested an update to the duty desk when he knows who has been hired. jc 3/19/15 Warren called back, EP&S on site excavating impacted soils...mm 3/20/15- EP&S confirms they are cleaning up. DT 7/1/15- Spoke to Jennifer at EP&S. She will forward cleanup info via email to DEC. DT 7/6/15- Returned call to Rick Doroso of EP&S. He will contact his client and then forward cleanup report. DT Received cleanup report from EP&S. Some 9 tons of impacted soils excavated and disposed. Postex soil samples were below cleanup guidance values. NFA DT"

Material Information

OP Unit ID:	1254938	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2257622	**Med GW:**	False
Material Code:	0008	**Med SW:**	False
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	2.00	**Med Subway:**	False

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Units:	G	**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	WARREN WILHOIT	**Spiller Zip:**	
Spiller Company:	UNKNOWN	**Spiller Country:**	999
Spiller Address:	1500 CORRPORT BLVD	**Contact Name:**	WARREN WILHOIT
Spiller City:	NEWBURGH	**Contact Phone:**	(860) 204-6011
Spiller State:	NY	**Contact Ext:**	
Latitude:			
Longitude:			

6	**6 of 13**	**NNW**	**0.10 / 545.01**	**443.13 / 1**	**C&S WHOLESALE GROCERS INC 1500 CORPORATE BLVD NEWBURGH NY 12550**	**RCRA SQG**

EPA Handler ID:	NY0000929315
Gen Status Universe:	Small Quantity Generator
Contact Name:	LEIF KERR
Contact Address:	1500 , CORPORATE BLVD , , NEWBURGH , NY, 12550 , US
Contact Phone No and Ext:	860-373-8084
Contact Email:	LKERR@CSWG.COM
Contact Country:	US
County Name:	ORANGE
EPA Region:	02
Land Type:	Private
Receive Date:	20161019
Location Latitude:	41.50896
Location Longitude:	-74.086983

Violation/Evaluation Summary

Note:	VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Jun, 2021.

Violation Details

Found Violation:	Yes
Citation:	
Violation Short Description:	Generators - Manifest
Violation Type:	262.B
Violation Determined Date:	20160728
Scheduled Compliance Date:	
Return to Compliance:	Documented
Actual Return to Compl:	20160812
Violation Responsible Agency:	State

Enforcement Details

Enforcement Type:	120
Enforcement Type Description:	WRITTEN INFORMAL
Enforcement Action Date:	20160815
Enf Disposition Status:	
Disposition Status Date:	
Enforcement Lead Agency:	State
Proposed Penalty Amount:	
Final Amount:	
Paid Amount:	

Violation Details

Found Violation: Yes
Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20160728
Scheduled Compliance Date:
Return to Compliance: Documented
Actual Return to Compl: 20160804
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20160815
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Found Violation: Yes
Citation:
Violation Short Description: TSD IS-Preparedness and Prevention
Violation Type: 265.C
Violation Determined Date: 20160728
Scheduled Compliance Date:
Return to Compliance: Documented
Actual Return to Compl: 20160804
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20160815
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Found Violation: Yes
Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20160728
Scheduled Compliance Date:
Return to Compliance: Documented
Actual Return to Compl: 20160804
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL

Enforcement Action Date: 20160815
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20160728
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: TSD IS-Preparedness and Prevention
Return to Compliance Date: 20160804
Evaluation Agency: State

Evaluation Start Date: 20160728
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20160804
Evaluation Agency: State

Evaluation Start Date: 20160728
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 20160804
Evaluation Agency: State

Evaluation Start Date: 20160728
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Manifest
Return to Compliance Date: 20160812
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19941114
Handler Name: CALDOR INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001

Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20060101
Handler Name: CALDOR INC
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20070101
Handler Name: CALDOR INC
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20150403
Handler Name: NEWBURGH LOGISTICS LLC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D009
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: D039
Waste Code Description:

Hazardous Waste Code: F002
Waste Code Description:

Hazardous Waste Code: F003
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20150811
Handler Name: NEWBURGH LOGISTICS LLC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D009
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: D039
Waste Code Description:

Hazardous Waste Code: F002
Waste Code Description:

Hazardous Waste Code: F003
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20161019
Handler Name: C&S WHOLESALE GROCERS INC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D009
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: D039
Waste Code Description:

Hazardous Waste Code: F002
Waste Code Description:

Hazardous Waste Code: F003
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Owner/Operator Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	20 GLOVER AVE
Name:	CALDOR INC	**Street 2:**	
Date Became Current:		**City:**	NORWALK
Date Ended Current:		**State:**	CT
Phone:	203-849-6551	**Country:**	US
Source Type:	Implementer	**Zip Code:**	06850

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	20 GLOVER AVE
Name:	CALDOR INC	**Street 2:**	
Date Became Current:		**City:**	NORWALK
Date Ended Current:		**State:**	CT
Phone:	203-849-6551	**Country:**	
Source Type:	Notification	**Zip Code:**	06850

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	C&S WHOLESALE GROCERS INC	**Street 2:**	
Date Became Current:	19971001	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	20 GLOVER AVE
Name:	CALDOR INC	**Street 2:**	
Date Became Current:		**City:**	NORWALK
Date Ended Current:		**State:**	CT
Phone:	203-849-6551	**Country:**	US
Source Type:	Implementer	**Zip Code:**	06850

Owner/Operator Ind:	Current Owner	**Street No:**	NATIONAL
Type:	Private	**Street 1:**	REALTY & DEVELOPMENT CORP
Name:	NORTHEAST BUSINESS CENTER ASSOCIATES 50	**Street 2:**	3 MANHATTENVILLE RD
Date Became Current:	19890630	**City:**	PURCHASE
Date Ended Current:		**State:**	NY
Phone:	914-694-4444	**Country:**	US
Source Type:	Notification	**Zip Code:**	10577

Historical Handler Details

Receive Dt:	20150811
Generator Code Description:	Small Quantity Generator
Handler Name:	NEWBURGH LOGISTICS LLC

Receive Dt:	20150403
Generator Code Description:	Very Small Quantity Generator
Handler Name:	NEWBURGH LOGISTICS LLC

Receive Dt:	20070101
Generator Code Description:	Not a Generator, Verified
Handler Name:	CALDOR INC

Receive Dt:	20060101
Generator Code Description:	Not a Generator, Verified
Handler Name:	CALDOR INC

Receive Dt:	19941114
Generator Code Description:	Very Small Quantity Generator
Handler Name:	CALDOR INC

6	***7 of 13***	***NNW***	***0.10 / 545.01***	***443.13 / 1***	***STORM DRAIN 1500 CORP DRIVE NEWBURGH NY***	***NY SPILLS***

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Spill No:	1700129	**Spill Date:**	2017-04-04 10:53:00
Site ID:	544728	**Received Date:**	2017-04-05 10:52:00
DER Facility ID:	498400	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2017-06-06 00:00:00
SWIS Code:	3646	**Create Date:**	2017-04-05 10:54:00
Contributing Factor:	Equipment Failure	**Update Date:**	2017-06-06 13:53:39.917000000
Water Body:		**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	MXTIPPLE
Class:	B4	**Reported by:**	Responsible Party
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"line broke clean up is pending"

DEC Remark:

"4/5/17 Spoke to caller. One of their tractors had a hydraulic line failure resulting in hydraulic fluid being spilled to ground and flowing into a storm drain. The drain has been isolated, cleanup crew is on the way to the site. Cleanup to be done by Envirowaste Oil. Confirmed with Envirowaste that they are on the way to the site to do the cleanup. ga 4/5/17 The hydraulic fluid released into storm drains which fed a small retention pond. Boom placed at both inlet and outlet of pond. Enirowaste arrived on site with surface cleanup materials, additional boom and a vac truck to skim the sheen from the pond. Dutchess Environmental called to clean impacted manholes and associated piping that discharges into the pond. Primary cleanup to be completed today, sheen on lake to be boomed with clean boom/pads as necessary. Report to follow. mt 6/6/17 Documentation received, reviewed, NFA. mt"

Material Information

OP Unit ID:	1293273	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2299196	**Med GW:**	False
Material Code:	0010	**Med SW:**	False
Material Name:	hydraulic oil	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	4.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	False		

Spiller Information

Spiller Name:	Stephen Storms	**Spiller Zip:**	18020
Spiller Company:	C&S	**Spiller Country:**	999
Spiller Address:	125 N Commerce Way	**Contact Name:**	WARREN WILHOIT
Spiller City:	www.cswg.com	**Contact Phone:**	(860) 204-6011
Spiller State:	PA	**Contact Ext:**	
Latitude:			
Longitude:			

6	***8 of 13***	***NNW***	***0.10 / 545.01***	***443.13 / 1***	***ROADWAY 1500 CORP. BLVD NEWBURGH NY***	***NY SPILLS***

Spill No:	1708763	**Spill Date:**	2017-12-19 09:41:00
Site ID:	565184	**Received Date:**	2017-12-19 10:19:00
DER Facility ID:	518701	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2019-01-03 00:00:00
SWIS Code:	3646	**Create Date:**	2017-12-19 10:22:00
Contributing Factor:	Traffic Accident	**Update Date:**	2019-01-03 13:57:14.360000000
Water Body:	RETENSION POND	**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	MXTIPPLE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Class:	C4	**Reported by:**	Other
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"multiple units on site/haz mat has been notified"

DEC Remark:

"Spoke to Paul Witkowski at C&S, 603-903-2211, on scene. There was fire that took 2 tractor trailers and 2 cars. Up to 200 gallons of diesel was lost into a retention pond on site. The pond was boomed off and speedi-dri was put down. EnviroClean is doing the clean up, they have a vac truck to remove diesel from pond....mm 1/5/17 EnviroClean dis not do cleanup. site visit to be conducted. mt. 1/3/19 NFA. mt"

Material Information

OP Unit ID:	1313117	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2320494	**Med GW:**	False
Material Code:	0008	**Med SW:**	True
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	220.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	False		

Spiller Information

Spiller Name:		**Spiller Zip:**	
Spiller Company:	N/A	**Spiller Country:**	999
Spiller Address:		**Contact Name:**	ORANGE CTY FIRE CONTROL
Spiller City:		**Contact Phone:**	
Spiller State:	NY	**Contact Ext:**	
Latitude:			
Longitude:			

6	9 of 13	NNW	0.10 / 545.01	443.13 / 1	COMMERCIAL CS GROCERY 1500 CORPORATE BLVD NEWBURGH NY	NY SPILLS

Spill No:	1710325	**Spill Date:**	2018-02-15 09:12:00
Site ID:	566845	**Received Date:**	2018-02-15 09:49:00
DER Facility ID:	520237	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2019-01-17 00:00:00
SWIS Code:	3611	**Create Date:**	2018-02-15 09:51:00
Contributing Factor:	Unknown	**Update Date:**	2019-01-17 11:15:45.680000000
Water Body:		**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	BTRANSOM
Class:	B3	**Reported by:**	Other
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"loss to storm drain that leads to retention pond. FD on scene"

DEC Remark:

"2/15/18 Tractor trailer backing in to the dock was clipped by another backing in / pulling out, ruptured saddle tank. Unsure exactly how much diesel was

lost to asphalt parking lot and storm drain. Storm drain leads to catch pond. Haz Mat was notified, will not be arriving on scene – it was decided they were not needed. Winnona Lake FD dammed the storm drain to prevent further entrance, dammed by the saddle tank, and plugged the tank. Enviro Clean was to be called in for cleanup. Enviro Clean was not notified by RP. DEC calling out American Petroleum. B. Ransom to scene. FD on scene – David Kramer 845-527-0340 Maintenance Manager for C & S – Paul Witkowski – 603-903-2211 ga 2/15/18 American Petroleum is here, I'm assessing the site with Mike Carr. 106 gallons were pumped from the saddle tank, so about 70 gallons spilled to the pavement and then a storm drain. The storm water pond is over full with water and ice so I believe the fuel is still in the storm drain, but we can't see the outfall because it is submerged. BR 2/15/18 American Petroleum is cleaning up the spill, and the fire dept. had diked off the storm drain earlier with boom and speedy dry, so there's only a thin layer of Petroleum in the catch basin. C&S Wholesale has agreed to contract American Petroleum to finish the clean up and they have the trucking co. information for their own cost recovery purposes. BR 2/15/18 This spill has been cleaned up to the extent possible. American will leave boom in the storm drain to absorb any sheen left on the water and return tomorrow. BR 02/23/18 American Petroleum will return to site on 02-27-18. BTR 12-27-18 Requested disposal documentation from APECCO. BTR 01-17-18 Clean up activities have been completed at the site. APECCO has no further work to complete. NFA. BTR "

Material Information

OP Unit ID:	1314762	***Med Air:***	False
OU:	01	***Med Ind Air:***	False
Material ID:	2322449	***Med GW:***	False
Material Code:	0008	***Med SW:***	False
Material Name:	diesel	***Med DW:***	False
CAS No:		***Med Sewer:***	True
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	100.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:		***Oxygenate:***	
Med Soil:	True		

Spiller Information

Spiller Name:	DISP 367	***Spiller Zip:***	
Spiller Company:	TRUCK	***Spiller Country:***	999
Spiller Address:	1500 CORPORATE BLVD	***Contact Name:***	DISP 367
Spiller City:	NEWBURGH	***Contact Phone:***	845-615-0892
Spiller State:	NY	***Contact Ext:***	
Latitude:			
Longitude:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	10 of 13	NNW	0.10 / 545.01	443.13 / 1	Newburgh 1500 Corporate Boulevard Newburgh NY 12550	TIER 2

Facility ID:	6075761	***Zip:***	12550
County:	Orange	***Latitude:***	41.5119214
State:	NY	***Longitude:***	-74.0844279

Online Report

CAS No:	68334305	***EHS:***	
Company Name:	C&S Wholesale Grocers, Inc.	***Solid:***	F
Chemical Name:	Diesel Fuel	***Liquid:***	T
Filing Year:	2017(Tier2)	***Gas:***	F
CAS No:	7439921	***EHS:***	
Company Name:	C&S Wholesale Grocers, Inc.	***Solid:***	T
Chemical Name:	LEAD	***Liquid:***	F
Filing Year:	2017(Tier2)	***Gas:***	F
CAS No:	7664939	***EHS:***	T
Company Name:	C&S Wholesale Grocers, Inc.	***Solid:***	F
Chemical Name:	SULFURIC ACID (AQUEOUS)	***Liquid:***	T
Filing Year:	2017(Tier2)	***Gas:***	F

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	11 of 13	NNW	0.10 / 545.01	443.13 / 1	C & S WHOLESALE GROCERS INC #12 1500 CORPORATE BLVD NEWBURGH NY 12550	GEN MANIFEST

RCRA ID:	NY0000929315	**Mailing State:**	NY
District Name:	C & S WHOLESALE GROCERS INC #12	**Mailing Zip:**	12550
Contact Name:	C & S WHOLESALE GROCERS INC #12	**Mailing Zip Extension:**	
Business Phone No:	2039808146	**Mailing Country:**	USA
Mailing Street 1:	1500 CORPORATE BLVD	**Location Zip Ext:**	
Mailing Street 2:		**Location Country:**	USA
Mailing City:	NEWBURGH	**Location County:**	ORANGE

Manifest Information

Waste Code(s):

D001: IGNITABLE WASTE (Waste Code Description from EPA Hazardous Waste Identification)
D035: METHYL ETHYL KETONE (Waste Code Description from EPA Hazardous Waste Identification)
D039: TETRACHLOROETHYLENE (Waste Code Description from EPA Hazardous Waste Identification)
D040: TRICHLORETHYLENE (Waste Code Description from EPA Hazardous Waste Identification)

Waste Amounts By Year:

2014: 150 Pounds

Manifest Information

Waste Code(s):

D002: CORROSIVE WASTE (Waste Code Description from EPA Hazardous Waste Identification)

Waste Amounts By Year:

2014: 53 Pounds
2015: 55 Pounds; 111 Pounds; 79 Pounds; 77 Pounds; 99 Pounds; 277 Pounds; 151 Pounds; 31 Pounds; 133 Pounds; 61 Pounds; 50 Pounds; 90 Pounds; 107 Pounds; 122 Pounds; 6 Pounds; 16 Pounds; 313 Pounds; 114 Pounds; 31 Pounds; 88 Pounds; 87 Pounds; 116 Pounds
2016: 16 Pounds; 17 Pounds; 85 Pounds; 23 Pounds; 82 Pounds; 55 Pounds; 130 Pounds; 10 Pounds; 87 Pounds; 11 Pounds; 8 Pounds; 70 Pounds; 91 Pounds; 58 Pounds; 147 Pounds; 26 Pounds; 36 Pounds; 11 Pounds; 48 Pounds; 25 Pounds; 78 Pounds; 74 Pounds; 114 Pounds; 76 Pounds; 37 Pounds; 21 Pounds; 69 Pounds; 34 Pounds; 206 Pounds
2017: 89 Pounds; 56 Pounds; 127 Pounds; 36 Pounds; 38 Pounds; 48 Pounds; 13 Pounds; 22 Pounds; 19 Pounds; 55 Pounds; 21 Pounds; 34 Pounds; 117 Pounds; 989 Pounds; 21 Pounds; 43 Pounds; 23 Pounds; 167 Pounds; 134 Pounds; 65 Pounds; 64 Pounds; 35 Pounds; 57 Pounds; 159 Pounds; 65 Pounds; 34 Pounds; 32 Pounds; 73 Pounds
2018: 34 Pounds; 39 Pounds; 60 Pounds; 55 Pounds; 97 Pounds; 71 Pounds; 23 Pounds; 48 Pounds; 30 Pounds; 36 Pounds; 45 Pounds; 74 Pounds; 13 Pounds; 15 Pounds; 14 Pounds; 79 Pounds; 125 Pounds; 8 Pounds; 13 Pounds; 59 Pounds; 32 Pounds; 130 Pounds; 42 Pounds; 47 Pounds; 149 Pounds; 138 Pounds; 100 Pounds; 34 Pounds; 56 Pounds

Manifest Information

Waste Code(s):

D001: IGNITABLE WASTE (Waste Code Description from EPA Hazardous Waste Identification)

Waste Amounts By Year:

1995: 300 Pounds
1996: 55 Gallons; 55 Gallons; 55 Gallons; 55 Gallons; 55 Gallons
2014: 75 Pounds
2015: 7 Pounds; 28 Pounds; 88 Pounds; 29 Pounds; 14 Pounds; 12 Pounds; 13 Pounds; 19 Pounds; 94 Pounds
2016: 30 Pounds; 15 Pounds; 9 Pounds; 13 Pounds; 12 Pounds; 22 Pounds; 30 Pounds; 22 Pounds; 18 Pounds; 32 Pounds; 8 Pounds; 4 Pounds; 13 Pounds; 15 Pounds; 21 Pounds; 19 Pounds; 4 Pounds; 11 Pounds; 13 Pounds; 88 Pounds
2017: 21 Pounds; 9 Pounds; 14 Pounds; 51 Pounds; 18 Pounds; 62 Pounds; 60 Pounds; 23 Pounds; 23 Pounds; 4 Pounds; 11 Pounds; 34 Pounds; 30 Pounds; 8 Pounds; 3 Pounds; 39 Pounds; 12 Pounds; 17 Pounds; 5 Pounds
2018: 6 Pounds; 25 Pounds; 24 Pounds; 42 Pounds; 55 Pounds; 21 Pounds; 20 Pounds; 8 Pounds; 20 Pounds; 66 Pounds; 4 Pounds; 108 Pounds; 21 Pounds; 9 Pounds; 17 Pounds

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	12 of 13	NNW	0.10 / 545.01	443.13 / 1	BUSINESS LOCATION 1500 CORPORATE BLVD NEWBURGH NY	NY SPILLS

Spill No:	2001144	**Spill Date:**	2020-05-20 13:45:00
Site ID:	605781	**Received Date:**	2020-05-20 15:32:00
DER Facility ID:	520237	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2020-05-20 00:00:00
SWIS Code:	3611	**Create Date:**	2020-05-20 15:35:00
Contributing Factor:	Other	**Update Date:**	2020-06-10 09:31:08.500000000
Water Body:		**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	MXLENNA
Class:	C4	**Reported by:**	Other
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"hit road debris - clean up crew enr"

DEC Remark:

"5-20-20 Same spill as 2001137. Clean-up contractor called to insure the spill had been reported. The increased estimate is from a 3rd party source. Caller confirmed that the spill is to asphalt only.NFA. ML 5/20/20 NRC#1277726 jc "

Material Information

OP Unit ID:	1352933	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2363891	**Med GW:**	False
Material Code:	0008	**Med SW:**	False
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	True
Quantity:	50.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	False		

Spiller Information

Spiller Name:	CHARLIE HAINES	**Spiller Zip:**	
Spiller Company:	WESTERN EXPRESS	**Spiller Country:**	999
Spiller Address:		**Contact Name:**	AMY HUFFMAN
Spiller City:		**Contact Phone:**	(812) 629-9696
Spiller State:	NY	**Contact Ext:**	
Latitude:			
Longitude:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	13 of 13	NNW	0.10 / 545.01	443.13 / 1	WESTERN EXPRESS TRUCKING 1500 CORPORATE BLVD NEWBURGH NY	NY SPILLS

Spill No:	2001137	**Spill Date:**	2020-05-20 13:34:00
Site ID:	605774	**Received Date:**	2020-05-20 13:43:00
DER Facility ID:	520237	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2020-05-20 00:00:00
SWIS Code:	3611	**Create Date:**	2020-05-20 13:45:00
Contributing Factor:	Unknown	**Update Date:**	2020-06-10 09:32:31.863000000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Water Body:		**DEC Region:**	3
Source:	Commercial Vehicle	**Lead DEC:**	MXLENNA
Class:	C4	**Reported by:**	Other
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"spill in roadway and some soil, contained"

DEC Remark:

"5-20-20 Spoke to Fire Chief Tim Hager who is on site. The truck hit a object in the roadway and ruptured both saddle tanks. The truck pulled into C&S Wholesale Grocery on Corporate Blvd. FD using C&S Wholesale's Spill kit to contain the spill. FD estimated 10-15 gal of diesel spilled to asphalt. No impact to storm drains or waterways. Corporate Blvd is closed. Trucking company is Western Express from Nashville. Western Dispatcher (615-369-8298) was contacted by FD and stated they will mobilize a clean up contractor to remove spent speedy dry and sorbents. Spoke to Alex at Western Express who stated they are in the process of contacting their roadside breakdown crew to remove speedy dry for disposal. Instructed to call the Duty Desk with contractor information ASAP. ML Update: Perform Roadside assistance hired to remove clean up. Crew is 20mi from site and should be there within the hour. NFA. ML 5/20/20 NRC#1277726 jc 6/10/20 Received update from PES stating that they are waiting for disposal documents from the contractor and will submit to DEC asap. ML "

Material Information

OP Unit ID:	1352926	**Med Air:**	False
OU:	01	**Med Ind Air:**	False
Material ID:	2363884	**Med GW:**	False
Material Code:	0008	**Med SW:**	False
Material Name:	diesel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	30.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:		**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	WESTERN EXPRESS DISPATCH-ALEX	**Spiller Zip:**	
Spiller Company:	WESTERN EXPRESS	**Spiller Country:**	999
Spiller Address:		**Contact Name:**	DISP 305
Spiller City:	NASHBOLLE	**Contact Phone:**	6316492220
Spiller State:	NY	**Contact Ext:**	
Latitude:			
Longitude:			

7	1 of 1	N	0.12 / 625.21	447.94 / 6	BUSINESS 2500 CORPORATE BOULEVARD NEWBURGH NY	NY SPILLS

Spill No:	1304480	**Spill Date:**	2013-07-24 12:40:00
Site ID:	485005	**Received Date:**	2013-07-24 13:43:00
DER Facility ID:	440150	**CAC Date:**	
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	2013-07-24 00:00:00
SWIS Code:	3646	**Create Date:**	2013-07-24 13:47:00
Contributing Factor:	Equipment Failure	**Update Date:**	2013-07-24 14:45:11.607000000
Water Body:		**DEC Region:**	3
Source:	Commercial/Industrial	**Lead DEC:**	MBMASTRO
Class:	C4	**Reported by:**	Other
Meets Std:	False	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"Contained to the asphalt. Cleanup is complete."

DEC Remark:

"Confirmed clean up with caller, nfa...mm"

Material Information

OP Unit ID:	1234679	***Med Air:***	False
OU:	01	***Med Ind Air:***	False
Material ID:	2233744	***Med GW:***	False
Material Code:	0008	***Med SW:***	False
Material Name:	diesel	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	5.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:		***Oxygenate:***	
Med Soil:	False		

Spiller Information

Spiller Name:	WARREN WILHOIT	***Spiller Zip:***	
Spiller Company:	C&S WHOLESALE GROCER	***Spiller Country:***	999
Spiller Address:	2500 CORPORATE BOULEVARD	***Contact Name:***	WARREN WILHOIT
Spiller City:	NEWBURGH	***Contact Phone:***	(860) 204-6011
Spiller State:	NY	***Contact Ext:***	
Latitude:			
Longitude:			

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8 ***1 of 2*** ***ESE*** ***0.17 / 918.28*** ***387.15 / -55*** ***Newburgh Recycling Center Rt 17K & Orr Ave. Newburgh NY 0*** ***SWF/LF***

Active:	No	***Owner Address:***	P.O. Box 509; Rt 17M
Activity No:	[36M04]	***Owner Addr2:***	
Regltry Status:		***Owner City:***	Goshen
Auth No:		***Owner State:***	NY
Auth Issue Dt:		***Owner ZIP:***	10924
Expiration Date:		***Owner Email:***	
Operator Type:		***Owner Phone:***	
Operator Name:	Solid Waste Services	***Contact Name:***	
East Coord:		***Contact Addr:***	
North Coord:		***Contact Addr2:***	
Accuracy Code:		***Contact City:***	
County:	Orange	***Contact State:***	
Region:	3	***Contact ZIP:***	
Phone No:		***Contact Email:***	
Owner Name:	Orange County	***Contact Phone:***	
Owner Type:			
Date of Last Inspection:			
Waste Types:			
Activity Desc:	RHRF - registration		

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8 ***2 of 2*** ***ESE*** ***0.17 / 918.28*** ***387.15 / -55*** ***Newburgh Recycling Center Rte 17 & Orr Route 17K & Orr Avenue Newburgh NY 12550*** ***SWF/LF***

Active:	No	***Owner Address:***	City Hall 83 Broadway

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Activity No:	[36M04]	**Owner Addr2:**	
Regltry Status:	Registration	**Owner City:**	Newburgh
Auth No:	36M04	**Owner State:**	NY
Auth Issue Dt:	4/22/1994	**Owner ZIP:**	12550
Expiration Date:		**Owner Email:**	
Operator Type:		**Owner Phone:**	
Operator Name:		**Contact Name:**	Peter S. Hammond
East Coord:	576791	**Contact Addr:**	
North Coord:	4595418	**Contact Addr2:**	
Accuracy Code:		**Contact City:**	
County:	Orange	**Contact State:**	
Region:	3	**Contact ZIP:**	
Phone No:	9145645584	**Contact Email:**	
Owner Name:	City of Newburgh	**Contact Phone:**	8452912640
Owner Type:	Municipal		
Date of Last Inspection:			

Waste Types: Source Separated Recyclables (Metal/Glass/Paper/Plastic);Metals (Aluminum);Metals (Ferrous);Metals (Non-Ferrous)

Activity Desc: RHRF - registration

9	1 of 1	NNE	0.24 / 1,292.58	434.82 / -7	FIRST VEHICLE SERVICES #4752 1900 CORPORATE BLVD. NE, INDUSTRIAL PARK NEWBURGH NY 12550	AST

Site ID:	382608	**Expiry:**	N/A
Site Status:	Unregulated/Closed	**County:**	Orange
Program No:	3-601896	**UTM X:**	576686.74033
Program Type Code:	PBS	**UTM Y:**	4596259.71193
Program Type Desc:	Petroleum Bulk Storage Program		
Site Type:	Trucking/Transportation/Fleet Operation		

Tank Information

Prog No:	3-601896	**UDC Ind:**	1
Tank ID:	217595	**Red Tag Start Date:**	
Tank No:	001	**Red Tag End Date:**	
Tank Status:	3	**Tank Last Test:**	
Tank Status Desc:	Closed - Removed	**Tank Next Test Due:**	
Tank Type:	01	**Test Method:**	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	**Line Last Test Due:**	
Install Date:	2000-07-01 00:00:00	**Next Line Test Due:**	
Close Date:	2009-09-10 00:00:00	**Line Test Method:**	
Tk Out of Serv Dt:		**Class A Operator:**	
Capacity (Gal):	230	**Class B Operator:**	
Registered:	True	**Modified by:**	BHYUKOWE
Tank Model:		**Last Modified:**	2017-04-14 14:30:47.863000000
Pipe Model:			

Tank Location: 3

Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle

Category: 2

Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015

Subpart:

Subpart Desc:

Tank Owner Name:

Tank Owner Address:

Material Information

Material Name: waste oil/used oil

Percent: 100.00

Equipment Information

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: H00
Code Name: None
Type: Tank Leak Detection

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: K00
Code Name: None
Type: Spill Prevention

Equipment: D00
Code Name: No Piping
Type: Pipe Type

Equipment: J00
Code Name: None
Type: Dispenser

Equipment: G09
Code Name: Modified Double-Walled (Aboveground)
Type: Tank Secondary Containment

Equipment: I01
Code Name: Float Vent Valve
Type: Overfill

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: C00
Code Name: No Piping
Type: Pipe Location

Equipment: L00
Code Name: None
Type: Piping Leak Detection

Affiliation Information

Affiliation Type: 01
Affiliation Name: Facility Owner
Affiliation Sub Type: E
Company: FIRST VEHICLE SERVICES #4752
Contact Title: ASSISTANT OFFICE MANAGER
Contact Name: RAY A. LUGO
Address1: 600 VINE STREET, SUITE 1400
Address2:
City: CINCINNATI
State: OH
Zip Code: 45202
Country Code: 001
Phone: (513) 241-2200
Phone Ext:

Email:
Fax:

Affiliation Type: 04
Affiliation Name: Facility Operator
Affiliation Sub Type: NNN
Company: FIRST VEHICLE SERVICES #4752
Contact Title:
Contact Name: FIRST VEHICLE SERVICES
Address1:
Address2:
City:
State: NN
Zip Code:
Country Code: 001
Phone: (845) 567-3289
Phone Ext:
Email:
Fax:

Affiliation Type: 11
Affiliation Name: Emergency Contact
Affiliation Sub Type: NNN
Company: FIRST VEHICLE SERVICES #4752
Contact Title:
Contact Name: JAMES RAMBADT
Address1:
Address2:
City:
State: NN
Zip Code:
Country Code: 001
Phone: (508) 400-1336
Phone Ext:
Email:
Fax:

Affiliation Type: 07
Affiliation Name: Mail Contact
Affiliation Sub Type: NNN
Company: STRATA ENVIRONMENTAL
Contact Title:
Contact Name: GREG JERNIGAN
Address1: 110 PERIMETER PARK, SUITE E
Address2:
City: KNOXVILLE
State: TN
Zip Code: 37922
Country Code: 001
Phone: (865) 539-2077
Phone Ext:
Email: NEUTSHALL@STRATAENV.COM
Fax:

10	1 of 4	SE	0.28 / 1,499.43	359.43 / -82	ON ROADWAY 9 ORR AVE NEWBURGH NY	LST

Spill No: 0706135
Site ID: 386596
DER Facility ID: 335985
CID: 444
Program Type: ER
SWIS Code: 3646
Contribute Factor: Tank Failure
Water Body:
Source: Commercial Vehicle
Class: C4

Spill Date: 2007-08-30 10:00:00
Rcvd Date: 2007-08-30 10:37:00
CAC Date:
Insp Date:
Close Date: 2007-08-30 00:00:00
Create Date: 2007-08-30 10:47:00
Update Date: 2007-08-31 10:43:16.217000000
DEC Region: 3
Lead DEC: mbmastro
Reported by: Other

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Meets Std: True
Penalty: False
REM Phase: 0
UST Trust: False
Referred to:
County: Orange
After Hours: False

Caller Remark:

"BROKEN LINE ON EQUIPMENT AND IS ALL CLEANED UP"

Dec Remark:

"CONFIRMED CLEAN UP - NFA"

Material Information

OP Unit ID: 1143833
OU: 01
Material ID: 2134100
Material Code: 0010
Material Name: hydraulic oil
CAS No:
Material Family: Petroleum
Quantity: 8.00
Units: G
Recovered: 8.00
Med Soil: True
Med Air: False
Med in Air: False
Med GW: False
Med SW: False
Med DW: False
Med Sewer: False
Med Surf: False
Med Subway: False
Med Utility: False
Oxygenate:

Spiller Information

Spiller Name: BRIAN TITSWORTH
Spiller Company: ON ROADWAY
Spiller Address: 9 ORR AVE
Spiller City: NEWBURGH
Spiller State: NY
Latitude: 41.499390480
Longitude: -74.071616099
Spiller Zip:
Spiller Country: 001
Contact Name: BRIAN TITSWORTH
Contact Phone: (845) 742-6778
Contact Ext:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	2 of 4	SE	0.28 / 1,499.43	359.43 / -82	Orange County Transfer Station #2 (Newburgh) NYS Rt 17K 9 Orr Road Newburgh NY 12550	SWF/LF

Active: Yes
Activity No: [36T01]
Regltry Status: Permit
Auth No: 3-3346-00069/00005
Auth Issue Dt: 11/27/2018
Expiration Date: 11/26/2023
Operator Type: County
Operator Name: Waste Management
East Coord: 577332
North Coord: 4594911
Accuracy Code:
County: Orange
Region: 3
Phone No: 8453741901
Owner Name: Orange County
Owner Type: County
Date of Last Inspection:
Waste Types:
Activity Desc: Transfer station - permit
Owner Address: PO Box 637
Owner Addr2:
Owner City: Goshen
Owner State: NY
Owner ZIP: 10924
Owner Email:
Owner Phone: 8452912641
Contact Name: Peter Hammond
Contact Addr:
Contact Addr2:
Contact City:
Contact State: NY
Contact ZIP:
Contact Email: phammond@orangecountygov.com
Contact Phone: 8452912640

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	3 of 4	SE	0.28 / 1,499.43	359.43 / -82	Orange County Transfer Station #2 (Newburgh CDA) 9 Orr Avenue Newburgh NY 12550	SWF/LF

Active:	Yes	**Owner Address:**	PO Box 637
Activity No:	[36T09]	**Owner Addr2:**	
Regltry Status:	Permit	**Owner City:**	Goshen
Auth No:	3-3346-00069/00005	**Owner State:**	NY
Auth Issue Dt:	11/27/2018	**Owner ZIP:**	10924
Expiration Date:	11/26/2023	**Owner Email:**	
Operator Type:		**Owner Phone:**	8452912641
Operator Name:		**Contact Name:**	Peter Hammond
East Coord:	576765	**Contact Addr:**	County of Orange DPW
North Coord:	4595131	**Contact Addr2:**	P.O.Box 637
Accuracy Code:	1 - No accuracy stated	**Contact City:**	Goshen
County:	Orange	**Contact State:**	NY
Region:	3	**Contact ZIP:**	10924
Phone No:	8453741901	**Contact Email:**	phammond@orangecountygov.com
Owner Name:	Orange County	**Contact Phone:**	8453742640
Owner Type:	County		
Date of Last Inspection:			
Waste Types:	MSW (Residential/Institutional & Commercial);Single Stream;Magazines;Metals (Ferrous & Non-Ferrous);Waste Tires;Waste Oil (Other);Electronics;Commingled Paper & Containers;Construction & Demolition Debris		
Activity Desc:	Transfer station - permit		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	4 of 4	SE	0.28 / 1,499.43	359.43 / -82	ORANGE COUNTY TRANSFER STATION #2 (NEWBURGH CDA) 9 ORR AVENUE NEWBURGH NY 12550	RECYCLING

County: ORANGE

Details

Activ No:	[36M00]	**Owner City:**	
Activ Desc:	RHRF - EXEMPT (NON-VDF)	**Owner State:**	
Auth No:		**Owner Zip:**	
Active:	YES	**Owner Email:**	
Accur Code:		**Owner Phone:**	
Waste Type:		**Contact Name:**	
Reg Status:		**Contact Addr:**	
Issue Date:		**Contact Addr2:**	
Expire Date:		**Contact City:**	
Last Inspection:		**Contact State:**	
Region:	3	**Contact Zip:**	
Phone:	845-374-1901	**Contact Email:**	
Owner Name:	ORANGE COUNTY	**Contact Phone:**	
Owner Type:	COUNTY	**Operator Name:**	
Owner Addr:		**Operator Type:**	
Owner Addr2:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	1 of 3	S	0.33 / 1,753.76	440.87 / -1	STEWART AIR BASE 1 MILITIA WAY NEWBURGH NY	LST

Spill No:	0200594	**Spill Date:**	2002-04-16 16:00:00
Site ID:	186903	**Rcvd Date:**	2002-04-16 16:30:00
DER Facility ID:	279646	**CAC Date:**	
CID:	233	**Insp Date:**	
Program Type:	ER	**Close Date:**	2002-04-16 00:00:00
SWIS Code:	3600	**Create Date:**	2002-04-16 00:00:00
Contribute Factor:	Tank Overfill	**Update Date:**	2002-08-01 00:00:00
Water Body:		**DEC Region:**	3
Source:	Vessel	**Lead DEC:**	UNASSIGNED

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Class:	C4	**Reported by:**	Responsible Party
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	False
UST Trust:	False		

Caller Remark:

"AIRPLANE WAS FILLED WARM WEATHER CAUSED THE FUEL TO SWELL AND LEAK TO PAVEMENT ALL SPILL WAS SOAKED UP WITH PADS "

Dec Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was "

Material Information

OP Unit ID:	854037	**Med Air:**	False
OU:	01	**Med in Air:**	False
Material ID:	522035	**Med GW:**	False
Material Code:	0011	**Med SW:**	False
Material Name:	jet fuel	**Med DW:**	False
CAS No:		**Med Sewer:**	False
Material Family:	Petroleum	**Med Surf:**	False
Quantity:	8.00	**Med Subway:**	False
Units:	G	**Med Utility:**	False
Recovered:	8.00	**Oxygenate:**	
Med Soil:	True		

Spiller Information

Spiller Name:	MONA JOHNSON	**Spiller Zip:**	
Spiller Company:	STEWART AIR BASE	**Spiller Country:**	001
Spiller Address:	1 MILITIA WY	**Contact Name:**	CALLER
Spiller City:	NEWBURGH	**Contact Phone:**	(845) 563-2366
Spiller State:	ZZ	**Contact Ext:**	
Latitude:	41.506985170		
Longitude:	-74.081388830		

11	***2 of 3***	***S***	***0.33 / 1,753.76***	***440.87 / -1***	***NYANG STEWART ANG BASE 1 MILITIA WAY NEWBURGH NY***	***LST***

Spill No:	9011417	**Spill Date:**	1991-01-29 19:00:00
Site ID:	186906	**Rcvd Date:**	1991-01-29 19:12:00
DER Facility ID:	279646	**CAC Date:**	1953-06-18 00:00:00
CID:		**Insp Date:**	
Program Type:	ER	**Close Date:**	1991-02-27 00:00:00
SWIS Code:	3600	**Create Date:**	1991-01-31 00:00:00
Contribute Factor:	Tank Test Failure	**Update Date:**	1993-02-22 00:00:00
Water Body:		**DEC Region:**	3
Source:	Institutional, Educational, Gov., Other	**Lead DEC:**	DUNN
Class:		**Reported by:**	Tank Tester
Meets Std:	True	**Referred to:**	
Penalty:	False	**County:**	Orange
REM Phase:	0	**After Hours:**	True
UST Trust:	False		

Caller Remark:

"WILL RETEST ASAP SPOKE WITH MAJOR ZICCA HE WILL CALL BACK WHEN THEY HAVE DECIDED WHAT TO DO CALLED BACK 13:30 THEY WILL E I R PETRO-TITE GROSS LEAK"

Dec Remark:

""

Material Information

OP Unit ID:	948419	***Med Air:***	False
OU:	01	***Med in Air:***	False
Material ID:	427963	***Med GW:***	True
Material Code:	0001A	***Med SW:***	False
Material Name:	#2 fuel oil	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	.00	***Med Subway:***	False
Units:		***Med Utility:***	False
Recovered:	.00	***Oxygenate:***	
Med Soil:	False		

Spiller Information

Spiller Name:		***Spiller Zip:***	
Spiller Company:	SAME	***Spiller Country:***	001
Spiller Address:		***Contact Name:***	
Spiller City:		***Contact Phone:***	
Spiller State:	ZZ	***Contact Ext:***	
Latitude:	41.506985170		
Longitude:	-74.081388830		

Tank Test Information

Spill Tank ID:	1538197	***Source:***	
Tank No:		***Leak Rate:***	.00
Tank SIze:	0	***Gross Fail:***	
Material:	0001	***Modified by:***	Spills
EPA UST:		***Last Modified:***	2004-10-01 04:00:45.140000000
UST:		***Test Method:***	00
Cause:		***Alt Test Method:***	Unknown

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11 | ***3 of 3*** | ***S*** | ***0.33 / 1,753.76*** | ***440.87 / -1*** | ***STEWART AIR NATIONAL GUARD BASE***
1 MILITIA WAY
NEWBURGH NY | ***LST***

Spill No:	0506139	***Spill Date:***	2005-08-18 11:05:00
Site ID:	351280	***Rcvd Date:***	2005-08-18 12:08:00
DER Facility ID:	299118	***CAC Date:***	
CID:	409	***Insp Date:***	
Program Type:	ER	***Close Date:***	2005-11-23 00:00:00
SWIS Code:	3646	***Create Date:***	2005-08-18 12:22:00
Contribute Factor:	Tank Overfill	***Update Date:***	2005-11-23 10:50:52.280000000
Water Body:		***DEC Region:***	3
Source:	Tank Truck	***Lead DEC:***	KABROWNE
Class:	C4	***Reported by:***	Responsible Party
Meets Std:	False	***Referred to:***	
Penalty:	False	***County:***	Orange
REM Phase:	0	***After Hours:***	False
UST Trust:	False		

Caller Remark:

"clean up in process.OVERFILL DURING FUEL DROP. WENT INTO AN OIL WATER SEPERATOR. IS CONTAINED."

Dec Remark:

"Left message to return call. 11-22-05 Recv'd incident reports and disposal receipts from NYANG Stewart. NFA"

Material Information

OP Unit ID:	1108805	***Med Air:***	False
OU:	01	***Med in Air:***	False
Material ID:	2098777	***Med GW:***	False
Material Code:	0011	***Med SW:***	False
Material Name:	jet fuel	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	300.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:	.00	***Oxygenate:***	
Med Soil:	True		

Spiller Information

Spiller Name:	JAN BROWN	***Spiller Zip:***	
Spiller Company:	STEWART AIRFORCE BASE	***Spiller Country:***	001
Spiller Address:	1 MILITIA WAY	***Contact Name:***	JAN BROWN
Spiller City:	NEWBURG	***Contact Phone:***	(845) 563-2344
Spiller State:	NY	***Contact Ext:***	
Latitude:	41.506975000		
Longitude:	-74.081375000		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	1 of 6	S	0.38 / 2,016.74	441.09 / -1	**STEWART AIR NATIONAL GUARD BASE** **ONE MAGUIRE WAY** **NEWBURGH NY 12550-5075**	MOSF

Site ID:	345362	***Expiration Date:***	2021/03/31
Site Status:	Active	***DEC Region:***	3
Program No:	3-2800	***County:***	Orange
Program Type Code:	MOSF	***UTM X:***	576426.66940
Program Type Desc:	Major Oil Storage Facility Program	***UTM Y:***	4595278.16138
Site Type:	Storage Terminal/Petroleum Distributor		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	2 of 6	S	0.38 / 2,016.74	441.09 / -1	**Stewart ANG Base Pesticide Disposal Area** **1 Maguire Way** **Newburgh NY 12550**	SHWS

Site Code:	58688	***Latitude:***	41.498553495
Site Code (Web):		***Longitude:***	-74.082344589
HW Code:	336022	***Latitude (Web):***	
SWIS:	3646	***Longitude (Web):***	
Site Class:	C	***X Coord (Web):***	
Site Class (Web):		***Y Coord (Web):***	
Program:	HW	***Acres:***	1.000
Town:	Newburgh	***Record Added:***	1999-11-18 12:00:00
County:	Orange	***Record Update:***	2016-12-08 09:29:00
Region:	3	***Updated by:***	AMOMOROG
County (Web):			
Site Class Desc (Web):			
Site Class Desc:	Complete: The classification used for sites where the Department has determined that remediation has been satisfactorily completed under a remedial program (i. e., State Superfund, Brownfield Cleanup Program, Environmental Restoration Program, Voluntary Cleanup Program, and RCRA Corrective Action Program). State Superfund (Registry) sites must have completed all active operation, maintenance, or monitoring requirements before they can be delisted and made class C. Non-registry sites may be made a class C after successful completion of all required construction or after a no further action remedy has been selected by the Department. These sites will be issued a Certificate of Completion (COC), but may still require ongoing maintenance and periodic certification of institutional/engineering controls (IC/ECs).		
Assess DOH:			
Description:	No contact with site-related contaminants is expected.		

Location: This site is a former pesticide burial area is a very small portion (less than one acre) of the entire Stewart Air National Guard Base (Base), which is located southeast of the airport complex at the Stewart International Airpot (IAP). Site Features: The Base is 268 acres in size and is part of the Stewart IAP, which is located 2.5 miles west of the City of Newburgh, New York. The entire airport property occupies approximately 9,800 acres in Orange County, and supports landing strips and taxiways as well as the Air National Guard (ANG) Base facilities. The Base facilities are located in both the Towns of Newburgh and New Windsor, New York. Current Zoning/Uses: The airport facilities are zoned for Industrial usage in the Town of Newburgh, and Airport usage in New Windsor. Historic Uses: The Site was the subject of several previous investigations and one removal action. The first investigation of the pesticide burial area was performed by NYSDEC in the early 1980's. In 1984, an investigation was carried out by Dames and Moore for the New York Air National Guard (NYANG). An additional investigation was conducted in 1985 and 1986. NYANG completed an interim removal action in 1988. A Remedial Investigation followed in 1997 and a Record of Decision was signed in March of 2000. The NYANG completed a groundwater monitoring program between 2000 and 2005 to determine if residual pesticide contamination is present. Groundwater pesticide levels are below class GA groundwater standards downgradient of the site. Site Geology and Hydrogeology: The upper layer consists primarily of a dense, gray, fine sand and silty glacial till, which contain numerous pebbles, cobbles, and boulders. The bedrock beneath Stewart ANGB is predominately a thinly bedded and fractured Shale, occurring at depths between 45 and 50 feet below grade near the base. Groundwater at the site is approximately 30 feet bgs and flows from the northwest to the southeast.

Assessment:

Groundwater samples were collected from the three monitoring wells in the vicinity of the pesticide burial area between 2000 and 2005 and analyzed for pesticides. Pesticides were not detected in concentrations exceeding the NYSDEC groundwater standards in the downgradient monitoring wells during any of the sampling events. The third monitoring well is upgradient of the site and had exceedences of pesticides, but these were not associated with the site and will be handled separately in the future. Therfore, no further monitoring or remedial action was required for groundwater. Soil samples were collected during the Remedial Investigation that was performed after the soil excavation of the source area during an interim remedial measure. Only two of 23 soil samples exceeded NYSDEC Part 375 - Protection of Human Health Residential criteria for pesticide contamination. The two soil samples were collected at depths of 26.5 feet and 17-feet below ground surface (bgs). The soil sample at 26.5 ft bgs showed 4-4'-DDT at 4.3 mg/kg and the soil sample at 17 ft bgs showed 4-4'-DDT at 9.4 mg/kg and 4-4'DDD at 8.5 mg/kg. Since these soils are at a depth greater than 15-ft, it was determined that no further actions were necessary and the deed restriction is no longer required. All samples were below the Part 375 Protection of Groundwater SCO. Based on the remedial investigation the inetrim removal measure addressed the disposal of pesticides at the site and remediation of the site is complete. Prior to remediation, the primary contaminants of concern were pesticides in soil. No institutional controls or site management is required.

Materials Information

Waste Name:	2,4-D (U240, D016); 2,4,5-T (D017)	***Waste Quantity:***	UNKNOWN
Waste Code:			
Waste Name:	PESTICIDES- DDT, DDE (U061); DDD (U060);	***Waste Quantity:***	UNKNOWN
Waste Code:			
Waste Name:	2,4-D (U240, D016); 2,4,5-T (D017)	***Waste Quantity:***	UNKNOWN
Waste Code:			

Owner Information

Sub Type:	NNN	***Owner Street:***	NGB/A7OR, Shepperd Hall
Own Op:	04	***Owner Street 2:***	3501 Fetchet Avenue
Owner Name:	Branch Chief	***Owner City:***	Joint Base Andrews
Owner Company:	US Department of the Air Force	***Owner State:***	MD
Country:	United States of America	***Owner Zip:***	20762
Sub Type:	B99	***Owner Street:***	1180 First Street
Own Op:	04	***Owner Street 2:***	
Owner Name:	Chief Operating Officer	***Owner City:***	New Windsor
Owner Company:	Stewart International Airport	***Owner State:***	NY
Country:	United States of America	***Owner Zip:***	12553
Sub Type:	B99	***Owner Street:***	
Own Op:	04	***Owner Street 2:***	
Owner Name:		***Owner City:***	
Owner Company:	U.S. DEPARTMENT OF THE AIR FORCE	***Owner State:***	NY
Country:	United States of America	***Owner Zip:***	
Sub Type:	B99	***Owner Street:***	50 Wolf Road
Own Op:	01	***Owner Street 2:***	5th Floor, POD 5-4
Owner Name:	Director	***Owner City:***	Albany
Owner Company:	NYS Department of Transportation	***Owner State:***	NY
Country:	United States of America	***Owner Zip:***	12232

HW Extra Information

Dump:	False	***Dell:***	False
Structure:	True	***Updated By:***	KALEWAND
Lagoon:	False	***Record Added:***	1999-11-18 12:00:00
Landfill:	False	***Record Updated:***	2016-08-15 15:19:00
Pond:	True	***Latitude:***	41:29:50:0
Disposal Start:	1960	***Longitude:***	74:04:50:0
Disposal Terminate:	1970		

Projects Information

Project Code:	05	***Code Name:***	Remedial Action
Project Desc:	Remedial Action	***Operable Unit ID:***	907
Project Refer Name:		***Operable Unit:***	01A
End Date:	1988-04-01 00:00:00	***Operable Unit Desc:***	PEST BURIAL AREA
End Status:	ACT		
Project Code:	02	***Code Name:***	Remedial Investigation
Project Desc:	Remedial Investigation	***Operable Unit ID:***	906
Project Refer Name:		***Operable Unit:***	01
End Date:	2000-03-31 00:00:00	***Operable Unit Desc:***	Pesticide Burial Area
End Status:	ACT		
Project Code:	04	***Code Name:***	Remedial Design
Project Desc:	Remedial Design	***Operable Unit ID:***	907
Project Refer Name:		***Operable Unit:***	01A
End Date:	1986-06-01 00:00:00	***Operable Unit Desc:***	PEST BURIAL AREA
End Status:	ACT		

12	***3 of 6***	***S***	***0.38 / 2,016.74***	***441.09 / -1***	***Stewart ANG Base Site*** ***1 Maguire Way*** ***Newburgh NY 12550***	***SHWS***

Site Code:	531303	***Latitude:***	41.501445000
Site Code (Web):		***Longitude:***	-74.085348000
HW Code:	336089	***Latitude (Web):***	
SWIS:	3646	***Longitude (Web):***	
Site Class:	02	***X Coord (Web):***	
Site Class (Web):		***Y Coord (Web):***	
Program:	HW	***Acres:***	280.000
Town:	Newburgh	***Record Added:***	2016-08-10 16:57:00
County:	Orange	***Record Update:***	2021-06-02 15:42:00
Region:	3	***Updated by:***	AMOMOROG
County (Web):			
Site Class Desc (Web):			

Site Class Desc: This classification is assigned to a site at which:

a. the disposal of hazardous waste has been confirmed and the presence of such hazardous waste or its components or breakdown products represents a significant threat to public health or the environment: or
b. hazardous waste disposal has not been confirmed, but the site has been listed on the Federal National Priorities List (NPL).

Assess DOH: Sampling has identified the presence of perfluorooctane sulfonic acid (PFOS) in Lake Washington, the primary source of the City of Newburgh water supply. Actions should be taken to reduce human exposures to PFOS in drinking water supplies. These actions include measures to address the contamination in the water supply (e.g., using alternate sources of water and pursuing treatment of surface water sources) and actions to address sources of drinking water contamination where levels exceed applicable standards, criteria, or guidance. Currently, an alternate source of drinking water is being used to reduce exposure. Additional investigation and sampling is being completed to evaluate where and how people may be exposed to site-related contaminants.

Description:

Location: The Stewart Air National Guard Base (ANGB) site is located at the Stewart International Airport, located 2.5 miles west of the City of Newburgh, New York. The Base facilities are located in both the Towns of Newburgh and New Windsor, New York and occupies approximately 280 acres. Site Features: A majority of the site is covered with buildings and pavement. Operations related to aircraft maintenance and ground-vehicle maintenance occur onsite. To support these activities, aircraft and vehicle maintenance facilities involve the use, storage, and disposal of hazardous materials. The property is relatively flat with significant downward slopes to the south and east. Surface water runoff at the site is directed to a retention

pond which is located to the south. Current Zoning/Uses: The site is zoned for industrial use in the Town of Newburgh and Airport use in the Town of New Windsor. The ANGB facilities in Newburgh, NY are bounded on the west and northwest by industrial zones, and on the north and east by Interchange Business Zones. In New Windsor, the Base is bounded on the south and southwest by Airport Zones, on the southeast by Planned Industrial Zones, and to the east by office and light industrial zones. Residential housing is scattered throughout most of these areas. The closest residential housing is located 0.2 miles to the north/northwest and 0.2 miles to the south/southeast. Past Use of the Site: The property was originally donated to the City of Newburgh in 1930 for use as a municipal airport. Prior to this, the land was used mostly for agricultural purposes. In 1941, the City turned over the land to the US Army for use as a flight training facility for West Point cadets. In 1948, the US Army transferred much of the ANGB to the US Air Force. The aviation facilities were turned over to the State of New York in 1969. In 1970, the military side was temporarily deactivated. In the 1970s the civilian side of Stewart was operating as an airport and in 1983, the US Air Force reopened the military side of Stewart with the establishment of the 105th Air Lift Wing of the New York Air National Guard. Both the civilian and ANGB currently operate at the property; however, the ANGB portion of the property is the subject site. Aqueous film-forming form (AFFF), in which perfluorooctanesulfonic acid (PFOS) is a key ingredient, has been used over the years at the base to put out fires and in training exercises. Releases of AFFF containing 3% PFOS were reported at the Base on April 30, 1990 and July 9, 1990. Additionally, until June 2015, annual testing consisted of each of five fire trucks spraying one gallon (each) of 3% AFFF onto the flight ramp. A landfill is located on the southeast corner of the Base which was operated from 1963 until 1982, when it reportedly received domestic waste from ANGB housing, food waste from dining facilities, and waste from aircraft maintenance operations. A southeast portion of site if the location of a former pesticide disposal area. In 1988 an Interim Remedial Action was completed at the site which included the removal of a backfilled pit used in the late 1960s to dispose of pesticide containers. A groundwater monitoring program was conducted in this area between 2000 and 2005 until it was determined that groundwater pesticide levels were below class GA groundwater standards. Site Geology and Hydrogeology: The upper layer of unconsolidated deposits consists primarily of a dense, gray, fine sand and silty glacial till, which contain numerous pebbles, cobbles, and boulders. The bedrock beneath Stewart ANGB is predominately a thinly bedded and fractured Martinsburg Shale, occurring at depths between 45 and 50 feet below grade near the base. Groundwater at the site is approximately 30 feet bgs and flows from the northwest to the southeast.

Assessment:

Soil, groundwater, and surface water samples were collected at the Stewart Air National Guard Base (ANGB) and analyzed for Per- and Polyfluoroalkyl Substances (PFAS) Soil – PFASs, specifically perfluorooctane sulfonic acid (PFOS), were detected in soil samples collected at the ANGB at concentrations ranging from non-detect to 520,000 parts per trillion (ppt). PFASs were not detected at concentrations greater than the EPA Region 2 Regional Screening Level of 1,000,000 ppt. Groundwater – PFASs, specifically PFOS, was detected in groundwater samples collected from existing monitoring wells at the ANGB at concentrations ranging from non-detect to 14,800 ppt, greater than the USEPA health advisory level of 70 ppt. Surface Water – PFASs, specifically PFOS, was detected in surface water samples collected from the retention pond at the ANGB at concentrations ranging from 60 ppt to 7,300 ppt, greater than the USEPA health advisory level of 70 ppt. Samples collected from catch basins located on the base detected concentrations of PFCs ranging from non-detect to 6,990 ppt. PFCs have migrated off-site into Lake Washington and its tributaries. PFOS was detected in Lake Washington at a maximum concentration of 243 ppt. Sediment - Sediment samples were collected from Lake Washington, Recreation Pond, Brown's Pond, Silver Stream, and Patton Brook. Sediment samples collected in Lake Washington indicated that PFOS concentrations ranged from non-detect to 3.3 ppt and PFOS was not detected in the sediment samples collected from Brown's Pond. PFOS concentrations in sediment samples collected from select locations in Silver Stream ranged from non-detect to 13,100 ppt. PFOS concentrations in sediment samples from Recreation Pond ranged from 2,140 ppt to 424,000 ppt.

Materials Information

Waste Name:	Perfluorooctane Sulfonate	***Waste Quantity:***	UNKNOWN
Waste Code:			

Owner Information

Sub Type:	B99	***Owner Street:***	One Maguire Way
Own Op:	04	***Owner Street 2:***	
Owner Name:	Michael oettinger	***Owner City:***	Newburgh
Owner Company:	New York Air National Guard	***Owner State:***	NY
Country:	United States of America	***Owner Zip:***	12550
Sub Type:	B99	***Owner Street:***	50 Wolf Road, 5th Fl, PO D 5-4
Own Op:	01	***Owner Street 2:***	
Owner Name:	Gerardo Mendoza	***Owner City:***	Albany
Owner Company:	NYS Department of Transportation	***Owner State:***	NY
Country:	United States of America	***Owner Zip:***	12232
Sub Type:	NNN	***Owner Street:***	NGB/A7OR, Shepperd Hall
Own Op:	04	***Owner Street 2:***	3501 Fetchet Avenue
Owner Name:	Elaine magdinec	***Owner City:***	Joint Base Andrews
Owner Company:	US Department of the Air Force	***Owner State:***	MD
Country:	United States of America	***Owner Zip:***	20762

HW Extra Information

Dump:	False	***Dell:***	
Structure:	False	***Updated By:***	BXANDERS
Lagoon:	False	***Record Added:***	2016-08-10 17:07:00
Landfill:	False	***Record Updated:***	2016-08-11 09:48:00
Pond:	False	***Latitude:***	
Disposal Start:		***Longitude:***	
Disposal Terminate:			

Projects Information

Project Code:	04	***Code Name:***	Remedial Design
Project Desc:	Remedial Design	***Operable Unit ID:***	1286126
Project Refer Name:	IRM - Catskill Aqueduct Tap - Brown Pond Fill Pipe	***Operable Unit:***	03
End Date:	2017-05-03 00:00:00	***Operable Unit Desc:***	City of Newburgh Water Supply
End Status:	ACT		

Project Code:	05	***Code Name:***	Remedial Action
Project Desc:	Remedial Action	***Operable Unit ID:***	1286126
Project Refer Name:	IRM - GAC Media Change	***Operable Unit:***	03
End Date:	2019-10-18 00:00:00	***Operable Unit Desc:***	City of Newburgh Water Supply
End Status:	ACT		

Project Code:	05	***Code Name:***	Remedial Action
Project Desc:	Remedial Action	***Operable Unit ID:***	1280085
Project Refer Name:	Town of Newburgh Public Waterline Extension	***Operable Unit:***	01
End Date:	2020-10-16 00:00:00	***Operable Unit Desc:***	Remedial Program
End Status:	ACT		

Project Code:	05	***Code Name:***	Remedial Action
Project Desc:	Remedial Action	***Operable Unit ID:***	1280085
Project Refer Name:	Town of New Windsor Public Waterline Extension	***Operable Unit:***	01
End Date:	2020-05-12 00:00:00	***Operable Unit Desc:***	Remedial Program
End Status:	ACT		

Project Code:	05	***Code Name:***	Remedial Action
Project Desc:	Remedial Action	***Operable Unit ID:***	1280085
Project Refer Name:	Kroll Well GAC Treatment System	***Operable Unit:***	01
End Date:	2019-08-13 00:00:00	***Operable Unit Desc:***	Remedial Program
End Status:	ACT		

Project Code:	05	***Code Name:***	Remedial Action
Project Desc:	Remedial Action	***Operable Unit ID:***	1280085
Project Refer Name:	New Windsor Butterhill Wells Temp GAC Treatment	***Operable Unit:***	01
End Date:	2019-10-18 00:00:00	***Operable Unit Desc:***	Remedial Program
End Status:	ACT		

Project Code:	04	***Code Name:***	Remedial Design
Project Desc:	Remedial Design	***Operable Unit ID:***	1286126
Project Refer Name:	IRM - Catskill Aqueduct Tap Permanent Connection	***Operable Unit:***	03
End Date:	2016-08-19 00:00:00	***Operable Unit Desc:***	City of Newburgh Water Supply
End Status:	ACT		

Project Code:	04	***Code Name:***	Remedial Design
Project Desc:	Remedial Design	***Operable Unit ID:***	1286126
Project Refer Name:	IRM - Washington Lake Filter Plant Contact Tank	***Operable Unit:***	03
End Date:	2016-07-25 00:00:00	***Operable Unit Desc:***	City of Newburgh Water Supply
End Status:	ACT		

Project Code:	05	***Code Name:***	Remedial Action
Project Desc:	Remedial Action	***Operable Unit ID:***	1286126
Project Refer Name:	IRM - Washington Lake Filter Plant - GAC Treatment	***Operable Unit:***	03
End Date:	2020-02-28 00:00:00	***Operable Unit Desc:***	City of Newburgh Water Supply

End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Catskill Shut-Down No. 1 | **Operable Unit:** 03
End Date: 2019-06-18 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Catskill Shut-Down No. 3 | **Operable Unit:** 03
End Date: 2021-02-16 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Washington Lake Filter Plant GAC Contactors | **Operable Unit:** 03
End Date: 2017-07-19 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 04 | **Code Name:** Remedial Design
Project Desc: Remedial Design | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Washington Lake Filter Plant Treatment Plant | **Operable Unit:** 03
End Date: 2016-10-19 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Catskill Shut-Down No. 2 | **Operable Unit:** 03
End Date: 2020-01-27 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 01 | **Code Name:** Site Characterization
Project Desc: Site Caracterization | **Operable Unit ID:** 1280085
Project Refer Name: Supplemental Site Investigation | **Operable Unit:** 01
End Date: 2020-09-22 00:00:00 | **Operable Unit Desc:** Remedial Program
End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1280085
Project Refer Name: IRM-Drawdown of Lake Washington | **Operable Unit:** 01
End Date: 2016-12-05 00:00:00 | **Operable Unit Desc:** Remedial Program
End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Catskill Aqueduct Tap - Brown Pond Fill Pipe | **Operable Unit:** 03
End Date: 2017-06-30 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 04 | **Code Name:** Remedial Design
Project Desc: Remedial Design | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Washington Lake Filter Plant GAC Contactors | **Operable Unit:** 03
End Date: 2016-08-12 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1286126
Project Refer Name: IRM - Catskill Aqueduct Tap Permanent Connection | **Operable Unit:** 03
End Date: 2016-12-29 00:00:00 | **Operable Unit Desc:** City of Newburgh Water Supply
End Status: ACT

Project Code: 05 | **Code Name:** Remedial Action
Project Desc: Remedial Action | **Operable Unit ID:** 1286126

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Project Refer Name: IRM - Washington Lake Filter Plant Contact Tank
Operable Unit: 03
End Date: 2017-02-11 00:00:00
Operable Unit Desc: City of Newburgh Water Supply
End Status: ACT

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12 | 4 of 6 | S | 0.38 / 2,016.74 | 441.09 / -1 | **Stewart Air National Guard Base**
105AW/EM
1 Maguire Way
Newburgh NY | PFAS

Facility ID: MIL0009
County: Newburgh
Survey Complete: YES
Survey: Class B Fire Suppression Foam Usage Survey - New York State Military Facilities
Q. 6: YES
Q. 7: YES
Q. 8: NO
Q. 9: YES
Q. 10: YES
Q. 11: YES
Q. 12:
Q. 13:
Reference: If a respondent indicated that the facility used/stored/disposed PFOA/PFOS substances, it does not necessarily mean that there is an environmental/public health concern associated with that facility. Also, if a respondent indicated that they currently/formerly used, stored, disposed of, or released Class B firefighting foam it does not necessarily mean that the foam contains/contained PFOA/PFOS since many Class B foams do not contain these substances. DEC is in the process of reviewing/evaluating the returned surveys to determine if additional follow-up or study is needed.
Return rate: 91 surveys were sent to facilities; 90 were returned completed as of June 1, 2017.
Questions 1 & 2 relate to name and address; questions 3-5 relate to facility ownership.
Q. 6: Is any Class B fire suppression foam currently stored and/or used at the facility?
Q. 7: Has any Class B fire suppression foam ever been stored and/or used at the facility?
Q. 8: Has Class B fire suppression foam ever been used for training purposes at the facility?
Q. 9: Has Class B fire suppression foam ever been used for firefighting or other emergency response purposes at the facility?
Q. 10: Has the facility ever experienced a spill or leak of Class B fire suppression foam?
Q. 11: Has your facility ever been responsible for the use of Class B fire suppression foam at a location other than the facility (i.e. offsite training, emergency response, or spill)?

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12 | 5 of 6 | S | 0.38 / 2,016.74 | 441.09 / -1 | **Stewart Air National Guard**
1 Maguire Way
Newburgh NY | LANDFILL INACTIVE

SW ID:
Inact Reg No:
ID: 3240
Sampling Site ID:
NYS Inact List:
Site Map Found?:
Remove?:
Why Removed:
Site Familiarity:
File Search Compl?: Yes
Field Visit Compl?: Yes
Date of Last Insp: 43306
Last Inspected by: PAR/DEC
Facility Address: 1 Maguire Way
Alternative Facility Names:
Parcel No:
Parcel Size:
No:
Issue Date:
Exp Date:
Landfill Type: MSW, ash/slag noted during test pitting
Disp Date Start: 1960s
Disp Date Stop: 1982
Waste Area: 8.5
Capped Area:
County: Orange
Latitude: 41.497782
Longitude: -74.081723
Region: 3
Ut East: 576644.964166
Ut North: 4594424.959
Location Accuracy: 1: Good; Perimeter clear
Location Basis: DOI
Verified Coordinates : Yes
Primary Aquifer: No
Primary Aquifer Eval: No
Primr Aquifer Name:

Current Site Use:	Air national guard base, softball field
Current Landfill Area:	8.5 acres
Assess Env:	GW monitoring data suggests anaerobic dechlorination of low concentration solvent constituents w/in the landfill (2005). 2005: VOCs and metals (Fe, Mn, Na, Al, Sb, Co, Cr, Ni, Tl) have been detected above GW standards.
Assess Doh:	Private wells in the vicinity are free of hazardous substance contamination (1984).
NYC Watershed:	No
Eval Within NYC Watershe:	No
Non NYC Watershed:	Yes
Non NYC Watershed Eval:	Yes
Sole Source Aquifer:	No
Sole Source Eval:	No
Sole Source Aquifer Name:	
Owner Name:	NYS DOT
Owner Type:	
Owner Address:	P.O. Box D 5-4 50 Wolf Road
Owner City:	Albany
Owner State:	NY
Owner Zip:	12232
Owner Email:	
Owner Phone:	
Contact Name:	Michael Oettinger, Environmental Specialist
Contact Address:	
Contact City:	
Contact State:	
Contact Zip:	
Contact Email:	
Contact Phone:	845-563-2366
ILF Team:	Megan Clark and Sue Lasdin- Momberger
Dec Assigned Staff:	Ella Cattabiani
Authorization :	
Cap Date:	cap completed summer 1999
Completed:	
Add Findings:	
Recommended Action:	Holes dug by groundhogs be filled in. Broken gas vents should be repaired and reinforced.
Gm Wells:	Yes
Gm Freq:	quarterly, semiannual after 2005
Gw Depth to:	5-30 ft bgs
Gw Flow Direction:	east or east-southeast in both overburden and bedrock, possible radial flow in bedrock. Vertical flow is typically downward
Gw Relationship to Aquifer:	overburden and bedrock flow systems
Gw Last Rep Find:	
Gw Threat Lvl Gw:	
Gw Threat Lvl Drink:	some private wells in the vicinity
Gw Proximity to Well:	
Gw Nearby Surface Water:	nearby stream on east side.
Gw Potential Vapor Receptors:	Buildings of the Stewart Air National Guard Base adjacent to the west of site
Gw Other Relevant Information:	
Monitoring Data:	
Monitoring Well Logs:	
Monitoring System:	19 GW wells on-site
Monitoring Well Logs Obtained:	
Soil Type:	Thick layer (20-45 ft) of very dense silty to clayey lodgement glacial till overlying shale bedrock. Soils are mapped as Udorthents, smoothed, and surrounding undisturbed soils are primarily Mardin-Erie gravelly silt loams.
Surf Water Mon:	
Surf Mon Freq:	
Deepflow Recharge:	
Closure Plan Required:	
Eng Cap:	Y. Processed C&D used as alternate grading material. Part 360 cap with possible use of geocomposite gas venting net in place of gas venting layer
Presence of Liner:	
Om Requirements:	
Om Date:	
Presence of Leachate Collecti:	
Leachate Sampling:	
Presence of Seeps:	N
Lg Mon:	Yes
Gas Mon Freq:	quarterly, semiannual after 2005

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Last Report: 2005: reducing trend in methane concentration over time
Site Access Issues: An appointment must be scheduled in advance3 with Mr. Oettinger. To enter, must stop at guard booth on McDonald Street and present valid identification. Likely any future visits will involve vehicle search and being escorted to landfill portion of site
Nearby Sensitive Receptors: wetland area to the east
Other Reports:
Notes:
Adirondack Park:
Catskill Park:
Cost :
Cg Contract No:
Cg Grant Stat:
Cg Cont End:
Cg Fin Cost:
Fa Type:
Fa Amt:
Last Modified: 11/27/2019
Known Landfilling History:

Operated by United States Air Force as an Air Force Base from 1941 to 1969, during which it received municipal waste from residents on base. Estimated athat a total of 104,350 cubic yards of waste disposed. Closed in 1999 with a Part 360 cap.

Descriptions:

Site is w/in area of Superfund DER site 336089. Site is part of interntational airport, bordered by woods. Waste does not appear to be saturated. Capped with a New York Part 360 geosynthetic cap with geonet gas venting system, a liner, drainage layer and soil barrier protection as well as a topsoil layer with storm water management. Ongoing long-term monitoring.

12	6 of 6	S	0.38 / 2,016.74	441.09 / -1	**STEWART AIR NATIONAL GUARD BASE** **1 MAGUIRE WY** **NEWBURGH NY 12550**	RCRA TSD

EPA Handler ID: NYD981183338
Gen Status Universe: Small Quantity Generator
Contact Name: MICHAEL OETTINGER
Contact Address: 1 , MAGUIRE WY , , NEWBURGH , NY, 12550 , US
Contact Phone No and Ext: 845-563-2383
Contact Email: MICHAEL.OETTINGER.2@US.AF.MIL
Contact Country: US
Land Type: Federal
County Name: ORANGE
EPA Region: 02
Receive Date: 20210323
Location Latitude: 41.506881
Location Longitude: -74.081543

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated Jun, 2021.

Evaluation Details

Evaluation Start Date: 20160503
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20121129
Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: EPA

Evaluation Start Date: 20110715
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20050428
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: EPA

Evaluation Start Date: 19981217
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: EPA

Evaluation Start Date: 19950308
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: EPA

Evaluation Start Date: 19950308
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: EPA

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Smelting, Melting and Refining: No
Underground Injection Control: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860218
Handler Name: NYANG - 105TH AIRLIFT WING
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920228
Handler Name: NWE YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator

Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19940317
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 19960326
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 19980223
Handler Name: NEW YORK AIR NATIONAL GUARD, STEWART ANG
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19990721
Handler Name: NYANG - 105TH AIRLIFT WING
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 5
Receive Date: 20010101
Handler Name: NY AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20011022
Handler Name: NYANG - 105TH AIRLIFT WING
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D000
Waste Code Description:

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D018
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: D039
Waste Code Description:

Hazardous Waste Code: F001
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Code: U002
Waste Code Description:

Hazardous Waste Code: U032
Waste Code Description:

Hazardous Waste Code: U044
Waste Code Description:

Hazardous Waste Code: U051
Waste Code Description:

Hazardous Waste Code: U121
Waste Code Description:

Hazardous Waste Code: U154
Waste Code Description:

Hazardous Waste Code: U159
Waste Code Description:

Hazardous Waste Code: U211
Waste Code Description:

Hazardous Waste Code: U226
Waste Code Description:

Hazardous Waste Code: U228
Waste Code Description:

Hazardous Waste Code: U239
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 6
Receive Date: 20020212
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20060308
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 7
Receive Date: 20060309
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D008
Waste Code Description:

Hazardous Waste Code: D018
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: D039
Waste Code Description:

Hazardous Waste Code: F003
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20070101
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 8
Receive Date: 20080223
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1

Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D008
Waste Code Description:

Hazardous Waste Code: D018
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: F003
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Code: U080
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20100201
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002
Waste Code Description:

Hazardous Waste Code: D003
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007

Waste Code Description:

Hazardous Waste Code: D008
Waste Code Description:

Hazardous Waste Code: D009
Waste Code Description:

Hazardous Waste Code: D018
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20120227
Handler Name: NY AIR NATIONAL GUARD STEWART ANFB
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20140313
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D018

Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20160303
Handler Name: NEW YORK AIR NATIONAL GUARD
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D008
Waste Code Description:

Hazardous Waste Code: D011
Waste Code Description:

Hazardous Waste Code: D018
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20160513
Handler Name: STEWART AIR NATIONAL GUARD BASE
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002

Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D008
Waste Code Description:

Hazardous Waste Code: D011
Waste Code Description:

Hazardous Waste Code: D018
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20210323
Handler Name: STEWART AIR NATIONAL GUARD BASE
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description:

Hazardous Waste Code: D002
Waste Code Description:

Hazardous Waste Code: D003
Waste Code Description:

Hazardous Waste Code: D005
Waste Code Description:

Hazardous Waste Code: D006
Waste Code Description:

Hazardous Waste Code: D007
Waste Code Description:

Hazardous Waste Code: D008
Waste Code Description:

Hazardous Waste Code: D009
Waste Code Description:

Hazardous Waste Code: D010
Waste Code Description:

Hazardous Waste Code: D035
Waste Code Description:

Hazardous Waste Code: F005
Waste Code Description:

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Federal	***Street 1:***	
Name:	NEW YORK AIR NATIONAL GUARD	***Street 2:***	
Date Became Current:	19861001	***City:***	
Date Ended Current:		***State:***	
Phone:		***Country:***	
Source Type:	Annual/Biennial Report update with Notification	***Zip Code:***	

Owner/Operator Ind:	Current Operator	***Street No:***	50
Type:	Federal	***Street 1:***	WOLF RD POD 34
Name:	NEW YORK AIR NATIONAL GUARD	***Street 2:***	
Date Became Current:	19861001	***City:***	ALBANY
Date Ended Current:		***State:***	NY
Phone:		***Country:***	US
Source Type:	Annual/Biennial Report update with Notification	***Zip Code:***	12232

Owner/Operator Ind:	Current Operator	***Street No:***	1
Type:	Federal	***Street 1:***	MAGUIRE WY
Name:	NEW YORK AIR NATIONAL GUARD	***Street 2:***	
Date Became Current:	19170828	***City:***	NEWBURGH
Date Ended Current:		***State:***	NY
Phone:		***Country:***	US
Source Type:	Notification	***Zip Code:***	12550

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Federal	***Street 1:***	1 MILITIA WAY STEWART ANGB
Name:	NYANG - 105TH AIRLIFT WING	***Street 2:***	
Date Became Current:	20010101	***City:***	NEWBURGH
Date Ended Current:		***State:***	NY
Phone:	845-563-2366	***Country:***	US
Source Type:	Implementer	***Zip Code:***	12550-5043

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	State	***Street 1:***	
Name:	NEW YORK AIR NATIONAL GUARD	***Street 2:***	
Date Became Current:	19860210	***City:***	
Date Ended Current:		***State:***	
Phone:		***Country:***	US
Source Type:	Annual/Biennial Report	***Zip Code:***	

Owner/Operator Ind:	Current Operator	***Street No:***	50
Type:	Federal	***Street 1:***	WOLF ROAD POD 34
Name:	NEW YORK AIR NATIONAL GUARD	***Street 2:***	
Date Became Current:	19861001	***City:***	ALBANY
Date Ended Current:		***State:***	NY
Phone:		***Country:***	US
Source Type:	Annual/Biennial Report update with Notification	***Zip Code:***	12232

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Federal	***Street 1:***	1 MILITIA WAY STEWART ANGB
Name:	NYANG - 105TH AIRLIFT WING	***Street 2:***	
Date Became Current:		***City:***	NEWBURGH
Date Ended Current:		***State:***	NY
Phone:	845-563-2366	***Country:***	
Source Type:	Notification	***Zip Code:***	12550-5043

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	State	***Street 1:***	50 WOLF ROAD
Name:	NEW YORK STATE DOT	***Street 2:***	
Date Became Current:	19820615	***City:***	ALBANY
Date Ended Current:		***State:***	NY
Phone:		***Country:***	US
Source Type:	Annual/Biennial Report	***Zip Code:***	12232

Owner/Operator Ind:	Current Owner	**Street No:**	50
Type:	Municipal	**Street 1:**	WOLF ROAD
Name:	NEW YORK STATE DEPT OF TRANSPORTATION	**Street 2:**	
Date Became Current:	19820615	**City:**	ALBANY
Date Ended Current:		**State:**	NY
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report	**Zip Code:**	12232

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Federal	**Street 1:**	
Name:	NEW YORK AIR NATIONAL GUARD	**Street 2:**	
Date Became Current:	19861001	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	

Owner/Operator Ind:	Current Owner	**Street No:**	50
Type:	State	**Street 1:**	WOLF RD POD 34
Name:	NEY DEPT OF TRANSPORTATION	**Street 2:**	
Date Became Current:	19820615	**City:**	ALBANY
Date Ended Current:		**State:**	NY
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	12232

Owner/Operator Ind:	Current Owner	**Street No:**	50
Type:	State	**Street 1:**	WOLF RD
Name:	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	**Street 2:**	
Date Became Current:	19700422	**City:**	ALBANY
Date Ended Current:		**State:**	NY
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	12232

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Federal	**Street 1:**	
Name:	NY AIR NATIONAL GUARD	**Street 2:**	
Date Became Current:	19861001	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	

Owner/Operator Ind:	Current Owner	**Street No:**	50
Type:	State	**Street 1:**	WOLF ROAD
Name:	NEW YORK DEPARTMENT OF TRANSPORTATION	**Street 2:**	
Date Became Current:	19820615	**City:**	ALBANY
Date Ended Current:		**State:**	NY
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	12232

Owner/Operator Ind:	Current Owner	**Street No:**	50
Type:	State	**Street 1:**	WOLF ROAD POD 34
Name:	NEW YORK DEPARTMENT OF TRANSPORTATION	**Street 2:**	
Date Became Current:	19820615	**City:**	ALBANY
Date Ended Current:		**State:**	NY
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	12232

Owner/Operator Ind:	Current Owner	**Street No:**	50
Type:	State	**Street 1:**	WOLF RD POD 34
Name:	NEW YORK DEPARTMENT OF TRANSPORTATION	**Street 2:**	
Date Became Current:	19820615	**City:**	ALBANY
Date Ended Current:		**State:**	NY
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	12232

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Municipal	***Street 1:***	
Name:	NEW YORK AIR NATIONAL GUARD	***Street 2:***	
Date Became Current:	19861002	***City:***	
Date Ended Current:		***State:***	
Phone:		***Country:***	US
Source Type:	Annual/Biennial Report	***Zip Code:***	

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	State	***Street 1:***	
Name:	NO NAME FOUND	***Street 2:***	
Date Became Current:	19860210	***City:***	
Date Ended Current:		***State:***	
Phone:		***Country:***	US
Source Type:	Implementer	***Zip Code:***	

Historical Handler Details

Receive Dt:	20160513
Generator Code Description:	Small Quantity Generator
Handler Name:	STEWART AIR NATIONAL GUARD BASE

Receive Dt:	20160303
Generator Code Description:	Large Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20140313
Generator Code Description:	Large Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20120227
Generator Code Description:	Large Quantity Generator
Handler Name:	NY AIR NATIONAL GUARD STEWART ANFB

Receive Dt:	20100201
Generator Code Description:	Large Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20080223
Generator Code Description:	Large Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20070101
Generator Code Description:	Small Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20060309
Generator Code Description:	Large Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20060308
Generator Code Description:	Small Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20020212
Generator Code Description:	Large Quantity Generator
Handler Name:	NEW YORK AIR NATIONAL GUARD

Receive Dt:	20011022
Generator Code Description:	Small Quantity Generator
Handler Name:	NYANG - 105TH AIRLIFT WING

Receive Dt:	20010101
Generator Code Description:	Large Quantity Generator
Handler Name:	NY AIR NATIONAL GUARD

Receive Dt:	19990721

Generator Code Description: Large Quantity Generator
Handler Name: NYANG - 105TH AIRLIFT WING

Receive Dt: 19980223
Generator Code Description: Large Quantity Generator
Handler Name: NEW YORK AIR NATIONAL GUARD, STEWART ANG

Receive Dt: 19960326
Generator Code Description: Large Quantity Generator
Handler Name: NEW YORK AIR NATIONAL GUARD

Receive Dt: 19940317
Generator Code Description: Large Quantity Generator
Handler Name: NEW YORK AIR NATIONAL GUARD

Receive Dt: 19920228
Generator Code Description: Large Quantity Generator
Handler Name: NWE YORK AIR NATIONAL GUARD

Receive Dt: 19860218
Generator Code Description: Small Quantity Generator
Handler Name: NYANG - 105TH AIRLIFT WING

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2 Express Dr
Newburgh NY | ***PFAS***

Facility ID: BSF0456 **County:** Orange
Survey Complete: YES
Survey: Class B Fire Suppression Foam Usage Survey - New York State Bulk Storage Facilities
Q. 6: NO
Q. 7: NO
Q. 8: NO
Q. 9: NO
Q. 10: NO
Q. 11: NO
Q. 12:
Q. 13:
Reference: If a respondent indicated that the facility used/stored/disposed PFOA/PFOS substances, it does not necessarily mean that there is an environmental/public health concern associated with that facility. Also, if a respondent indicated that they currently/formerly used, stored, disposed of, or released Class B firefighting foam it does not necessarily mean that the foam contains/contained PFOA/PFOS since many Class B foams do not contain these substances. DEC is in the process of reviewing/evaluating the returned surveys to determine if additional follow-up or study is needed.
Return rate: 91 surveys were sent to facilities; 90 were returned completed as of June 1, 2017.
Questions 1 & 2 relate to name and address; questions 3-5 relate to facility ownership.
Q. 6: Is any Class B fire suppression foam currently stored and/or used at the facility?
Q. 7: Has any Class B fire suppression foam ever been stored and/or used at the facility?
Q. 8: Has Class B fire suppression foam ever been used for training purposes at the facility?
Q. 9: Has Class B fire suppression foam ever been used for firefighting or other emergency response purposes at the facility?
Q. 10: Has the facility ever experienced a spill or leak of Class B fire suppression foam?
Q. 11: Has your facility ever been responsible for the use of Class B fire suppression foam at a location other than the facility (i.e. offsite training, emergency response, or spill)?

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14 | ***1 of 1*** | ***W*** | ***0.50 / 2,620.75*** | ***477.55 / 36*** | ***American Express Aviation***
1 Express Dr
Newburgh NY | ***PFAS***

Facility ID: BSF0457 **County:** Orange
Survey Complete: YES
Survey: Class B Fire Suppression Foam Usage Survey - New York State Bulk Storage Facilities
Q. 6: YES
Q. 7: YES
Q. 8: NO
Q. 9: NO
Q. 10: NO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Q. 11: NO
Q. 12:
Q. 13:
Reference: If a respondent indicated that the facility used/stored/disposed PFOA/PFOS substances, it does not necessarily mean that there is an environmental/public health concern associated with that facility. Also, if a respondent indicated that they currently/formerly used, stored, disposed of, or released Class B firefighting foam it does not necessarily mean that the foam contains/contained PFOA/PFOS since many Class B foams do not contain these substances. DEC is in the process of reviewing/evaluating the returned surveys to determine if additional follow-up or study is needed.
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Q. 9: Has Class B fire suppression foam ever been used for firefighting or other emergency response purposes at the facility?
Q. 10: Has the facility ever experienced a spill or leak of Class B fire suppression foam?
Q. 11: Has your facility ever been responsible for the use of Class B fire suppression foam at a location other than the facility (i.e. offsite training, emergency response, or spill)?

15	1 of 1	WSW	0.77 / 4,049.04	459.84 / 18	STEWART AFB NEWBURGH NY	FUDS

FUDS Property No: C02NY0704
EMS Map Link: https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=58050
FUDS INST ID: NY29799F121400
Status:
SDS ID:
NPL Status Code: Not on the NPL
Eligibility: Eligible
Site Eligib:
Current Owner:
Has Project: Yes
DOD FUDS Pro:
Project Required: Yes
No Further Action:
Congressional District: 18
EPA Region: 02
County: ORANGE
Latitude: 41.50527778
Longitude: -74.09916667
Fiscal year: 2019
USACE Division: NAD
USACE District: New England District (NAE)
Shape Area: .00077886
Shape Len: .15587016
Centroid Latitude:
Centroid Longitude:
Media ID:
Metadata ID:
Feature Desc:
Property History: The site was used by the Army as Stewart Air Field, and later by the Air Force as Stewart Air Force base. The site is currently used as Stewart International Airport.

16	1 of 1	SSE	0.91 / 4,826.78	359.02 / -83	New Windsor Town Landfill Silver Stream Road New Windsor NY 12550	SHWS

Site Code:	58345	**Latitude:**	41.494490670
Site Code (Web):	336019	**Longitude:**	-74.080091840
HW Code:	336019	**Latitude (Web):**	
SWIS:	3648	**Longitude (Web):**	
Site Class:	04	**X Coord (Web):**	-74.080091840
Site Class (Web):	04	**Y Coord (Web):**	41.494490670
Program:	HW	**Acres:**	14.000

Town:	New Windsor	**Record Added:**	1999-11-18 12:00:00
County:	Orange	**Record Update:**	2021-03-25 08:10:00
Region:	3	**Updated by:**	JEBROWN
County (Web):	Orange		

Site Class Desc (Web): This classification is assigned to a site that has been properly closed but that requires continued site management consisting of operation, maintenance and/or monitoring. Class 4 is appropriate for a site where remedial construction actions have been completed for all operable units, but the site has not necessarily been brought into compliance with standards, criteria, or guidance (e.g., a groundwater extraction and treatment system has been installed and is operating properly but groundwater standards have not been achieved yet). The Record of Decision should define the remedial action objectives that need to be achieved during site management. If a Certificate of Completion (CoC) is to be issued for a site, the CoC is issued concurrently with the reclassification.

Site Class Desc: This classification is assigned to a site that has been properly closed but that requires continued site management consisting of operation, maintenance and/or monitoring. Class 4 is appropriate for a site where remedial construction actions have been completed for all operable units, but the site has not necessarily been brought into compliance with standards, criteria, or guidance (e.g., a groundwater extraction and treatment system has been installed and is operating properly but groundwater standards have not been achieved yet). The Record of Decision should define the remedial action objectives that need to be achieved during site management. If a Certificate of Completion (CoC) is to be issued for a site, the CoC is issued concurrently with the reclassification.

Assess DOH: The leachate collection and gas venting systems are in place in addition to an operation and maintenance plan which consists of quarterly sampling of on-site monitoring wells to determine possible off-site migration of contaminants. The site is capped; therefore, exposure to contaminated soil is not expected. The remedial activities at the landfill are expected to prevent human exposure to site-related contaminants.

Description:

Location: The New Windsor Town Landfill site is located in a suburban area of Orange County, NY. The 14-acre site is located one-quarter mile west of the NYS Thruway at the end of Silver Stream Road. Site Features: There are no buildings or structures on the site. There are wooded areas on all sides of the site, except the south where the NYS Thruway abuts the property. Current Zoning and Land Use: The site is currently inactive, and is zoned for commercial use. The surrounding parcels are a mix of residential and commercial, with Stewart International Airport land adjacent to the northwest corner of the site. The nearest residential area is 800 feet southwest of the site. Past Use of the Site: The landfill operated between 1962 and 1976, accepting both municipal and industrial waste. These wastes impacted both the groundwater under the mass, as well as the surface water and sediments of an adjacent stream. Site Geology and Hydrogeology: The landfill is underlain by layers of ablation till and lodgement till over bedrock in the southern portion of the site. The central and northern portions of the site are underlain by marsh deposits and lacustrine deposits over bedrock. Groundwater in the unconsolidated aquifer (overburden) generally flows to the south-southeast towards Lake Washington. However, the local flow pattern is such that the gradients turn to the north in the vicinity of the Thruway roadbed and the low-lying wetlands. The bedrock aquifer has a predominant south-southeast flow direction.

Assessment:

Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were arsenic, barium, lead, manganese, chloroethane, benzene and chlorobenzene in the surface water of the creek downgradient of the site. Groundwater monitoring and site cover inspections are being managed under a Site Management Plan.

Materials Information

Waste Name:	METALS	**Waste Quantity:**	UNKNOWN
Waste Code:			
Waste Name:	VOLATILE ORGANICS	**Waste Quantity:**	UNKNOWN
Waste Code:			
Waste Name:	CYANIDES(SOLUBLE CYANIDE SALTS)	**Waste Quantity:**	UNKNOWN
Waste Code:			
Waste Name:	SODA) (D002)	**Waste Quantity:**	UNKNOWN
Waste Code:			
Waste Name:	SODA) (D002)	**Waste Quantity:**	UNKNOWN
Waste Code:			
Waste Name:	ADHESIVE WASTE WATER	**Waste Quantity:**	5000-6000 GALLONS
Waste Code:			

Owner Information

Sub Type:	C01	**Owner Street:**	555 UNION AVENUE
Own Op:	04	**Owner Street 2:**	
Owner Name:		**Owner City:**	NEW WINDSOR

Owner Company:	TOWN OF NEW WINDSOR	**Owner State:**	NY
Country:	United States of America	**Owner Zip:**	12550
Sub Type:	NNN	**Owner Street:**	
Own Op:	03	**Owner Street 2:**	
Owner Name:		**Owner City:**	
Owner Company:	TOWN OF NEW WINDSOR	**Owner State:**	NY
Country:	Unknown	**Owner Zip:**	
Sub Type:	C01	**Owner Street:**	Office of the Supervisor
Own Op:	01	**Owner Street 2:**	555 UNION AVENUE
Owner Name:	George A. Green	**Owner City:**	NEW WINDSOR
Owner Company:	TOWN OF NEW WINDSOR	**Owner State:**	NY
Country:	United States of America	**Owner Zip:**	12553

HW Extra Information

Dump:	False	**Dell:**	False
Structure:	False	**Updated By:**	INITIAL
Lagoon:	False	**Record Added:**	1999-11-18 12:00:00
Landfill:	True	**Record Updated:**	1999-11-18 12:00:00
Pond:	False	**Latitude:**	41:29:40:0
Disposal Start:	June 62	**Longitude:**	74:04:50:0
Disposal Terminate:	April 76		

Projects Information

Project Code:	02	**Code Name:**	Remedial Investigation
Project Desc:	Remedial Investigation	**Operable Unit ID:**	903
Project Refer Name:		**Operable Unit:**	01
End Date:	1991-10-01 00:00:00	**Operable Unit Desc:**	REMEDIAL PROGRAM
End Status:	ACT		
Project Code:	05	**Code Name:**	Remedial Action
Project Desc:	Remedial Action	**Operable Unit ID:**	903
Project Refer Name:		**Operable Unit:**	01
End Date:	1993-08-01 00:00:00	**Operable Unit Desc:**	REMEDIAL PROGRAM
End Status:	ACT		
Project Code:	04	**Code Name:**	Remedial Design
Project Desc:	Remedial Design	**Operable Unit ID:**	903
Project Refer Name:		**Operable Unit:**	01
End Date:	1992-05-01 00:00:00	**Operable Unit Desc:**	REMEDIAL PROGRAM
End Status:	ACT		
Project Code:	01	**Code Name:**	Site Characterization
Project Desc:	Site Caracterization	**Operable Unit ID:**	903
Project Refer Name:		**Operable Unit:**	01
End Date:	1986-01-01 00:00:00	**Operable Unit Desc:**	REMEDIAL PROGRAM
End Status:	ACT		

Environmental Remediation

Contaminants:	cyanides(soluble cyanide salts), metals, volatile organics
Operable Unit:	01
Contaminants:	cyanides(soluble cyanide salts), metals, volatile organics
Operable Unit:	01
Contaminants:	cyanides(soluble cyanide salts), metals, volatile organics
Operable Unit:	01
Contaminants:	cyanides(soluble cyanide salts), metals, volatile organics
Operable Unit:	01

Contaminants: cyanides(soluble cyanide salts), metals, volatile organics
Operable Unit: 01

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Operable Unit: 01

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Operable Unit: 01

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
17	***1 of 1***	***WSW***	***0.94 / 4,957.61***	***456.93 / 15***	***Stewart International Airport Site 1180 1st Street New Windsor NY 12553***	***SHWS***

Site Code:	531301	***Latitude:***	41.506055000
Site Code (Web):		***Longitude:***	-74.105987000
HW Code:	336088	***Latitude (Web):***	
SWIS:	3648	***Longitude (Web):***	
Site Class:	P	***X Coord (Web):***	
Site Class (Web):		***Y Coord (Web):***	
Program:	HW	***Acres:***	262.000
Town:	New Windsor	***Record Added:***	2016-08-10 16:23:00
County:	Orange	***Record Update:***	2018-02-21 08:57:00
Region:	3	***Updated by:***	AMOMOROG
County (Web):			
Site Class Desc (Web):			

Site Class Desc: Potential: This classification is used for sites where preliminary information indicates that a site may have contamination that makes it eligible for consideration for placement on the Registry of Inactive Hazardous Waste Disposal Sites (commonly referred to as the list of State Superfund Sites). Further information and/or investigation, in the form of a site characterization, is needed to determine if a Class P site qualifies for listing of the site on the Registry. Generally, to qualify for placement on the Registry, there must be evidence that hazardous waste was disposed on the site and that any resulting contamination presents a significant threat (or reasonably foreseeable threat) to public health or the environment. Class P sites are not listed on the Registry and many are eventually found to not qualify for Registry listing. Sites that do not qualify for listing are typically then reclassified to a "Class N" site.

Assess DOH: As information for this site becomes available, it will be reviewed by the NYSDOH to determine if site contamination presents public health exposure concerns.

Description:

Location: Stewart International Airport site is located 2.5 miles west of the City of Newburgh, New York, comprises of approximately 262 acres, and is located in both the Towns of Newburgh and New Windsor, New York. Site Features: The airport site includes a number of landing strips, taxiways, and airport support service area. A majority of the area is covered with pavement, concrete, and buildings. Surface water runoff is directed to outfalls which discharge to Moodna Creek, Silver Stream, and tributaries. Current Zoning/Uses: The airport facilities are zoned for industrial use in the Town of

Newburgh and airport use in the town of New Windsor. The surrounding areas are used for a combination of light industrial, commercial, and residential uses. The nearest residential area is approximately 2,600 feet southwest of the airport. Past Use of the Site: The property was originally donated to the City of Newburgh in 1930 for use as a municipal airport. Prior to this, the land was used mostly for agricultural purposes. In 1941, the City turned over the land to the US Army for use as a flight training facility for West Point cadets. In 1948, the US Army transferred much of the ANGB to the US Air Force. The aviation facilities were turned over to the State of New York in 1969 and in the1970s the commercial side of Stewart began operating as an airport, and continues to operate at the property until present. Aqueous film-forming form (AFFF), in which perfluorooctanesulfonic acid (PFOS) is a key ingredient, has been used over the years at the airport to put out fires and in training exercises. In September 1996, an unspecified amount of 3% AFFF was used to extinguish a burning FedEx aircraft following an emergency landing. A grassy area east of taxiway A was previously used as an AFFF testing area until 2015. Annual testing consisted of each of three fire trucks spraying one gallon (each) of 3% AFFF onto a target placed in the grassy area. Additionally, a former fire training area is located north and west of cargo road, in which it is believed that AFFF was used for training practices. Site Geology and Hydrogeology: The upper layer of unconsolidated deposits consists primarily of a dense, gray, fine sand and silty glacial till, which contain numerous pebbles, cobbles, and boulders. The bedrock beneath Stewart ANGB is predominately a thinly bedded and fractured Martinsburg Shale, occurring at depths between 45 and 50 feet below grade near the base. Groundwater at the site is approximately 30 feet bgs and flows from the northwest to the southeast.

Assessment:

Soil, groundwater, and surface water samples were collected at the nearby Stewart Air National Guard Base (ANGB) and analyzed for perfluorinated compounds (PFCs). Soil – (waiting for data) Groundwater – PFCs, specifically perfluorooctane sulfonic acid (PFOS) was detected in groundwater samples collected from existing monitoring wells at the ANGB at concentrations ranging from non-detect to 3,160 parts per trillion (ppt), greater than the USEPA health advisory level of 70 ppt. Surface Water – PFCs, specifically perfluorooctane sulfonic acid (PFOS) was detected in surface water samples collected from the retention pond at the ANGB at concentrations ranging from 60 parts per trillion (ppt) to 5,900 ppt, greater than the USEPA health advisory level of 70 ppt. Samples collected from catch basins located on the base detected concentrations of PFCs ranging from non-detect to 6,990 parts per trillion (ppt). PFCs have migrated off-site into Lake Washington and its tributaries. PFOS was detected in Lake Washington at a maximum concentration of 243 ppt.

Owner Information

Sub Type:	E	***Owner Street:***	
Own Op:	04	***Owner Street 2:***	
Owner Name:		***Owner City:***	
Owner Company:	Port Authority of New York/ New Jersey	***Owner State:***	NY
Country:	United States of America	***Owner Zip:***	

Sub Type:	B99	***Owner Street:***	Aviation Bureau
Own Op:	01	***Owner Street 2:***	50 Wolf Road
Owner Name:		***Owner City:***	Albany
Owner Company:	NYS Dept of Transportation	***Owner State:***	NY
Country:	United States of America	***Owner Zip:***	12232

Unplottable Summary

Total: 4 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
CERCLIS NFRAP	STEWART ANNEX, USMA NEWBURGH LANDFILL	STEWART AIRPORT ROUTE 17 K ***Site EPA ID:*** NY2210025357	NEWBURGH NY	12550	805478122
LST	STEWART AIRPORT	UG FUEL FARM ***Spill No	Close Date:*** 9109018 | 1991-11-26 00:00:00	NEWBURGH NY		814019993
NY SPILLS	ROADWAY	STATE ROUTE 17K ***Spill No	Close Date:*** 0607633 | 2006-10-19 00:00:00	NEWBURGH NY		813965254
SEMS ARCHIVE	STEWART ANNEX, USMA NEWBURGH LANDFILL	STEWART AIRPORT ROUTE 17 K ***EPA ID:*** NY2210025357	NEWBURGH NY	12550	828870878

Unplottable Report

Site: ***STEWART ANNEX, USMA NEWBURGH LANDFILL***
STEWART AIRPORT ROUTE 17 K NEWBURGH NY 12550

CERCLIS NFRAP

Site ID:	202429	***Site FIPS Code:***	36071
Site EPA ID:	NY2210025357	***Region Code:***	2
Site Parent ID:		***Site Cong. Dist. Code:***	26
Site County Name:	ORANGE	***Federal Facility:***	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	***Act Start Date:***	
Act Code ID:	1	***Act Complete Date:***	4/30/1985
RAT Code:	VS	***AGT Order No.:***	1500
RAT Short Name:	ARCH SITE	***SH OU:***	
RAT Name:	ARCHIVE SITE	***SH Code:***	
RAT Hist. Only Flag:		***SH Seq:***	
RAT NSI Indicator:	B	***SH Start Date:***	
RAT Level:	1	***SH Complete Date:***	
RAT DEF OU:	00	***SH Lead:***	
RFBS Code:		***SH Qual:***	
SPA Code:	13	***RAQ Act. Qual Short:***	
RALT Short Name:	EPA In-House	***RNPL Status Code:***	N
RAT Def:	The decision is made that no further activity is planned at the site.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	***Act Start Date:***	
Act Code ID:	1	***Act Complete Date:***	12/1/1972
RAT Code:	DS	***AGT Order No.:***	10
RAT Short Name:	DISCVRY	***SH OU:***	
RAT Name:	DISCOVERY	***SH Code:***	
RAT Hist. Only Flag:		***SH Seq:***	
RAT NSI Indicator:	B	***SH Start Date:***	
RAT Level:	1	***SH Complete Date:***	
RAT DEF OU:	00	***SH Lead:***	
RFBS Code:		***SH Qual:***	
SPA Code:	13	***RAQ Act. Qual Short:***	
RALT Short Name:	EPA Fund	***RNPL Status Code:***	N
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	***Act Start Date:***	4/1/1985
Act Code ID:	1	***Act Complete Date:***	4/30/1985
RAT Code:	SI	***AGT Order No.:***	160
RAT Short Name:	SI	***SH OU:***	
RAT Name:	SITE INSPECTION	***SH Code:***	
RAT Hist. Only Flag:		***SH Seq:***	
RAT NSI Indicator:	B	***SH Start Date:***	
RAT Level:	1	***SH Complete Date:***	
RAT DEF OU:	00	***SH Lead:***	
RFBS Code:	P	***SH Qual:***	
SPA Code:	13	***RAQ Act. Qual Short:***	NFRAP
RALT Short Name:	Fed Fac	***RNPL Status Code:***	N
RAT Def:	The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking		

score and/or enforcement support.

RNON NPL Status Desc: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assess History

OU ID:	0	***Act Start Date:***	
Act Code ID:	1	***Act Complete Date:***	1/1/1985
RAT Code:	PA	***AGT Order No.:***	130
RAT Short Name:	PA	***SH OU:***	
RAT Name:	PRELIMINARY ASSESSMENT	***SH Code:***	
RAT Hist. Only Flag:		***SH Seq:***	
RAT NSI Indicator:	B	***SH Start Date:***	
RAT Level:	1	***SH Complete Date:***	
RAT DEF OU:	00	***SH Lead:***	
RFBS Code:	P	***SH Qual:***	
SPA Code:	13	***RAQ Act. Qual Short:***	Low priority
RALT Short Name:	Fed Fac	***RNPL Status Code:***	N

RAT Def: Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.

RNON NPL Status Desc: NFRAP-Site does not qualify for the NPL based on existing information

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Site: ***STEWART AIRPORT***
UG FUEL FARM NEWBURGH NY LST

Spill No:	9109018	***Spill Date:***	1991-11-22 23:46:00
Site ID:	118054	***Rcvd Date:***	1991-11-22 23:51:00
DER Facility ID:	102618	***CAC Date:***	1953-06-18 00:00:00
CID:		***Insp Date:***	
Program Type:	ER	***Close Date:***	1991-11-26 00:00:00
SWIS Code:	3646	***Create Date:***	
Contribute Factor:	Tank Overfill	***Update Date:***	2003-12-02 00:00:00
Water Body:		***DEC Region:***	3
Source:	Tank Truck	***Lead DEC:***	DVWEHRFR
Class:		***Reported by:***	Responsible Party
Meets Std:	True	***Referred to:***	
Penalty:	False	***County:***	Orange
REM Phase:	0	***After Hours:***	True
UST Trust:	False		

Caller Remark:

"OVER FILLED TANK SAFETY DEPT. NOTIFIED SORBENTS USED TO CLEAN UP"

Dec Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was WEHRFRITZ "

Material Information

OP Unit ID:	959189	***Med Air:***	False
OU:	01	***Med in Air:***	False
Material ID:	417680	***Med GW:***	False
Material Code:	0011	***Med SW:***	False
Material Name:	jet fuel	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	10.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:	.00	***Oxygenate:***	
Med Soil:	True		

Spiller Information

Spiller Name:		***Spiller Zip:***	
Spiller Company:	AMR	***Spiller Country:***	001
Spiller Address:		***Contact Name:***	
Spiller City:		***Contact Phone:***	

Spiller State:	ZZ	***Contact Ext:***	
Latitude:			
Longitude:			

Site: ***ROADWAY***
STATE ROUTE 17K NEWBURGH NY

NY SPILLS

Spill No:	0607633	***Spill Date:***	2006-10-04 15:06:00
Site ID:	371415	***Received Date:***	2006-10-04 15:16:00
DER Facility ID:	321193	***CAC Date:***	
CID:	410	***Insp Date:***	
Program Type:	ER	***Close Date:***	2006-10-19 00:00:00
SWIS Code:	3646	***Create Date:***	2006-10-04 15:44:00
Contributing Factor:	Equipment Failure	***Update Date:***	2006-10-19 13:12:21.140000000
Water Body:		***DEC Region:***	3
Source:	Commercial Vehicle	***Lead DEC:***	DXTRAVER
Class:	C4	***Reported by:***	Fire Department
Meets Std:	True	***Referred to:***	
Penalty:	False	***County:***	Orange
REM Phase:	0	***After Hours:***	False
UST Trust:	False		

Caller Remark:

"TANKER TRUCK HAD A SADDLE TANK THAT BEGAN LEAKING: FULL CAPACITY IS 100GALLONS, WITH ROUGHLY 50 GALLONS REMAINING IN TANK: THE STRETCH OF ROADWAY IS ROUGHLY 1 1/2 -2 MILES: FIRE DEPT ON SCENE TO CONFIRM IF STORM DRAINS HAVE BEEN AFFECTED:"

DEC Remark:

"SEE ORIGINAL SPILL REPORT FOR ADDITIONAL NOTES. MILLER DOING CLEAN UP. CONTACTED LT. TOWNLEY. OFFICER FREEMAN RESPONDING. 10/04/06: OC HAZ MAT ON SITE. NO WATER WAYS IMPACTED - DOT REPSONDING FOR SANDING. MEG RESPONDING FOR CLEAN UP. 10/19/06: CLOSED NFA"

Material Information

OP Unit ID:	1129177	***Med Air:***	False
OU:	01	***Med Ind Air:***	False
Material ID:	2118836	***Med GW:***	False
Material Code:	0008	***Med SW:***	False
Material Name:	diesel	***Med DW:***	False
CAS No:		***Med Sewer:***	False
Material Family:	Petroleum	***Med Surf:***	False
Quantity:	50.00	***Med Subway:***	False
Units:	G	***Med Utility:***	False
Recovered:	.00	***Oxygenate:***	
Med Soil:	True		

Spiller Information

Spiller Name:	ORANGE CTY FIRE CONTROL	***Spiller Zip:***	
Spiller Company:	UNKNOWN	***Spiller Country:***	001
Spiller Address:	STATE ROUTE 17K	***Contact Name:***	ORANGE CTY FIRE CONTROL
Spiller City:	NEWBURGH	***Contact Phone:***	(845) 469-4911
Spiller State:	NY	***Contact Ext:***	
Latitude:			
Longitude:			

Site: ***STEWART ANNEX, USMA NEWBURGH LANDFILL***
STEWART AIRPORT ROUTE 17 K NEWBURGH NY 12550

SEMS ARCHIVE

Site ID:	0202429	***FIPS Code:***	36071
EPA ID:	NY2210025357	***Cong District:***	26
Superfund Alt Agmt:	No	***Region:***	02
Federal Facility:	Yes	***County:***	ORANGE
FF Docket:	Yes		
NPL:	Not on the NPL		

Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Action Information

Operable Units:	00	***Start Actual:***	12/01/1972
Action Code:	DS	***Finish Actual:***	12/01/1972
Action Name:	DISCVRY	***Qual:***	
SEQ:	1	***Curr Action Lead:***	EPA Perf
Operable Units:	00	***Start Actual:***	04/01/1985
Action Code:	SI	***Finish Actual:***	04/30/1985
Action Name:	SI	***Qual:***	N
SEQ:	1	***Curr Action Lead:***	Fed Fac
Operable Units:	00	***Start Actual:***	
Action Code:	VS	***Finish Actual:***	04/30/1985
Action Name:	ARCH SITE	***Qual:***	
SEQ:	1	***Curr Action Lead:***	EPA Perf In-Hse
Operable Units:	00	***Start Actual:***	
Action Code:	PA	***Finish Actual:***	01/01/1985
Action Name:	PA	***Qual:***	L
SEQ:	1	***Curr Action Lead:***	Fed Fac

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List: NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Jun 25, 2021

National Priority List - Proposed: PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Jun 25, 2021

Deleted NPL: DELETED NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Government Publication Date: Jun 25, 2021

SEMS List 8R Active Site Inventory: SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Mar 23, 2021

SEMS List 8R Archive Sites: SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: May 25, 2021

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jun 14, 2021

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Jun 14, 2021

RCRA Generator List: RCRA LQG

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Jun 14, 2021

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jun 14, 2021

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jun 14, 2021

RCRA Non-Generators: RCRA NON GEN

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jun 14, 2021

Federal Engineering Controls-ECs: FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Feb 23, 2021

Federal Institutional Controls- ICs: FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Feb 23, 2021

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jul 26, 2021

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 2, 2020

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Jul 10, 2020

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Apr 28, 2020

LIEN on Property: SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: May 25, 2021

Superfund Decision Documents: SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Jun 28, 2021

State

Registry of Inactive Hazardous Waste Disposal Sites in New York State: SHWS

State-and tribal- equivalent CERCLIS. State Superfund Program (Inactive Hazardous Waste Disposal Site Remedial Program) (IHWDS) - Oversees the identification, investigation and cleanup of sites where consequential amounts of hazardous waste exist. These sites go through a process of investigation, evaluation, cleanup and monitoring that has several distinct stages. This list is made available by New York State Department of Environmental Conservation's State Superfund Program.

Government Publication Date: Jun 3, 2021

Delisted Registry of Inactive Hazardous Waste Disposal Sites in New York: DELISTED SHWS

This database contains a Registry of Inactive Hazardous Waste Disposal sites which have been removed from New York Department of Environmental Conservation's Environmental Site Remediation database.

Government Publication Date: Jun 3, 2021

Hazardous Substance Waste Disposal Sites: HSWDS

A list of sites included in Hazardous Substance Waste Disposal Site Study reports made available by the New York Department of Environmental Conservation Division of Hazardous Waste Remediation. Provides information regarding the evolving status of hazardous substance waste disposal sites in New York.

Government Publication Date: Oct 24, 2003

Vapor Intrusion Legacy Site List: VAPOR

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion. This list is made available by Department of Environmental Conservation's Vapor Intrusion Legacy Site List. This database is state equivalent CERCLIS.

Government Publication Date: Dec 31, 2018

Solid Waste Facilities and Landfills: SWF/LF

Solid Waste Information Management System (SWIMS) is an inventory containing active and inactive facilities throughout the state. This list is made available by Department of Environmental Conservation's Solid Waste Information Management System (SWIMS).

Government Publication Date: Dec 31, 2020

Inactive Landfill Facilities: LANDFILL INACTIVE

List of inactive landfills in the State of New York. This data is made available by the New York State Department of Environmental Conservation (DEC). DEC notes that these are preliminary data and should not be regarded as a complete inventory of all landfills in the State, and also that site locations and attributes are preliminary and should not be relied upon without independent verification.

Government Publication Date: Jun 30, 2020

Waste Tire Facilities: WASTE TIRE

This list of active Waste Tire Facilities is maintained by the New York State Department of Environmental Conservation. Waste tire storage facilities (WTSF) store waste tires or portions of waste tires. Most of these facilities require Part 360 permits, but under certain conditions a registration maybe available.

Government Publication Date: Dec 24, 2019

Recycling Facilities: RECYCLING

The Department of Environmental Conservation (DEC), Division of Materials Management (DMM), Bureau of Permitting and Planning regulates solid waste management facilities in accordance with 6 NYCRR Part 360. Information pertaining to those facilities is maintained with the Division's Solid Waste Information Management System (SWIMS) database. The Facility List is a dataset related to solid waste management facilities operating in the state, and includes such information as facility location, contact names and associated information, waste types managed, and regulatory information.

Government Publication Date: Dec 24, 2019

Leaking Storage Tanks: LST

This database contains records of chemical and petroleum spill incidents. They include leaking aboveground storage tanks or leaking underground storage tanks, with incidents of tank test failures, tank failures and tank overfill. This list is made available by New York State Department of Environmental Conservation's Spill Response Program.

Government Publication Date: Jul 26, 2021

Delisted Leaking Storage Tanks: DELISTED LST

List of Leaking Storage Tank sites which has been removed from New York Department of Environmental Conservation's Spill Response Program

Government Publication Date: Jul 26, 2021

Underground Storage Tanks- UST-Petroleum Bulk Storage (PBS): UST

Facilities within the Petroleum Bulk Storage (PBS) that have underground storage tanks. Underground petroleum storage facilities with a combined storage capacity over eleven hundred (1,100) gallons. This list is made available by NewYork Department of Environmental Conservation's Environmental Site Database Search.

Government Publication Date: Jun 3, 2021

The Bulk Storage Program Database - AST: AST

Facilities within the Petroleum Bulk Storage (PBS) that have aboveground storage tanks. Aboveground petroleum storage facilities with a combined storage capacity over eleven hundred (1,100) gallons. This list is made available by New York State Department of Environmental conservation's Petroleum Bulk Storage (PBS) program.

Government Publication Date: Jun 3, 2021

Petroleum Bulk Storage: TANKS

The Bulk Storage Program Database maintains the registrations of active and inactive bulk storage sites statewide. This database includes Petroleum Bulk Storage (PBS) tanks where no information is available on whether they are ASTs or USTs. This list is made available by Department of Environmental Conservation's Petroleum Bulk Storage (PBS) program.

Government Publication Date: Jun 3, 2021

Major Oil Storage Facilities (MOSF): MOSF

In 1977, the New York State Legislature passed the "Oil Spill Prevention, Control and Compensation Act" (Article 12 of the Navigation Law). This law regulates all oil terminals and transport vessels operating in the waters of the State which have a storage capacity of 400,000 gallons or more. (Terminals and vessels with a capacity of 400,000 gallons or more are commonly referred to as major oil storage facilities or MOSFs). This list is made available by Department of Environmental Conservation's Major Oil Storage Facility (MOSF) Program.

Government Publication Date: Jun 3, 2021

Chemical Bulk Storage (CBS): CBS

Facilities that store regulated hazardous substances in underground tanks . "Hazardous substance" means any substance listed as hazardous or acutely hazardous in 6 NYCRR Part 597 or a mixture thereof. This list is made available by Department of Environmental Conservation's Chemical Bulk Storage (CBS) Program.

Government Publication Date: Jun 3, 2021

Delisted Storage Tanks: DELISTED TANKS

List of Storage Tank sites which has been removed from New York Department of Environmental Conservation's Environmental Site Database.

Government Publication Date: Jun 3, 2021

Delisted County Records: DELISTED COUNTY

Records removed from county databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: May 7, 2021

Registry of Engineering Controls in New York State: ENG

Registry of Engineering Controls in New York State taken from the Environmental Site Remediation Database.

Government Publication Date: Jun 3, 2021

Registry of Institutional Controls in New York State: INST

Registry of Institutional Controls in New York State taken from the Environmental Site Remediation Database.

Government Publication Date: Jun 3, 2021

Voluntary Cleanup Agreements: VCP

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites. This list is made available by Department of Environmental Conservation's Voluntary Cleanup Program.

Government Publication Date: Jun 3, 2021

Environmental Restoration Program Listing: ERP

Environmental Restoration Program - Provides municipalities with financial assistance for site investigation and remediation at eligible brownfield sites. In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (Bond Act). Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. This list is made available by Department of Environmental Conservation's Environmental Restoration Program.

Government Publication Date: Jun 3, 2021

Brownfields Site List (Subset of Site Remediation): BROWNFIELDS

Brownfield Cleanup Program was developed to enhance private-sector cleanups of brownfields and to reduce development pressure on "Greenfields". A Brownfield site is real property, the redevelopment or reuse of which may be complicated by the presence or potential presence of a contaminant. Contaminants include hazardous waste and/or petroleum. This list is made available by Department of Environmental Conservation's Brownfield Cleanup Program.

Government Publication Date: Jun 3, 2021

Tribal

Leaking Underground Storage Tanks (LUSTs) on Tribal/Indian Lands: INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 2, which includes New York and New Jersey. There are no LUST records in New York at this time.

Government Publication Date: Jan 28, 2016

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST

USTs on Tribal/Indian Lands in Region 2, which includes New York and New Jersey.

Government Publication Date: Apr 04, 2016

Delisted Tribal Leaking Storage Tanks: DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

Delisted Tribal Underground Storage Tanks: DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

County

No County databases were selected to be included in the search.

Additional Environmental Record Sources

Federal

PFOA/PFOS Contaminated Sites: PFAS NPL

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Mar 1, 2021

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Nov 2, 2020

Toxics Release Inventory (TRI) Program: TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Feb 19, 2020

Perfluorinated Alkyl Substances (PFAS) Releases: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Feb 19, 2020

Perfluorinated Alkyl Substances (PFAS) Water Quality: PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Oct 5, 2020

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Jun 25, 2021

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Jun 14, 2021

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 5, 2021

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 5, 2021

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: May 26, 2021

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Nov 3, 2020

Surface Mining Control and Reclamation Act Sites: SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Government Publication Date: Dec 18, 2020

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2006

Uranium Mill Tailings Radiation Control Act Sites: URANIUM

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations: ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Jul 12, 2021

Registered Pesticide Establishments: SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Apr 13, 2021

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Nov 19, 2020

State

Underground Injection Control Wells: UIC

A well permit is required from the Division of Mineral Resources for any brine disposal well deeper than 500 feet. This includes any operation to drill, deepen, plug back or convert a well. Regardless of well depth, the NYSDEC Division of Water must be contacted for a determination of whether a SPDES permit is necessary to operate any brine disposal well.

Government Publication Date: Aug 6, 2018

Manufactured Gas Plants: MGP

A list of former Manufactured Gas Plants (MGP) made available by the New York Department of Environmental Conservation (NYSDEC). From the late 1800's to the mid 1900's, hundreds of manufactured gas plants across New York State supplied homes and industry with fuel. Former MGP structures such as gas holders, tar separators, wells, and tanks were often susceptible to spills and leaks. As a result, these structures were a significant source of contamination from the release of tar and other toxic by-products.

Government Publication Date: Oct 16, 2019

Spill Incidents Database: NY SPILLS

Spill Incidents Database has records dating back to 1978. This database contains records of chemical and petroleum spill incidents. The DEC Spill Response program receives and compiles reports of hazardous material spills occurring anywhere in New York State. These reports are submitted through the Spill Hotline and other mechanisms, and entered by DEC spill response staff into the state's official data base of Spill Incidents Reports. This list is made available by New York State Department of Environmental Conservation's Spill Response Program.

Government Publication Date: Jul 26, 2021

PFAS Remedial Sites: PFAS CONTAM

List of sites being addressed under one of the New York Department of Environmental Conservation (DEC) Division of Environmental Remediation (DER)'s remedial programs, where the waste or contaminant of concern is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jun 3, 2021

Per- and Polyfluoroalkyl Substances (PFAS): PFAS

A list of sites surveyed by the New York Department of Environmental Conservation to determine locations that manufacture, use, store, or release into the environment materials containing Per- and Polyfluoroalkyl Substances (PFAS). Per- and Polyfluoroalkyl Substances (PFAS) are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Some PFAS are difficult to break down and persist in the environment that may cause harm to the public. This list is made available by the Department of Environmental Conservation of New York State.

Government Publication Date: Jan 16, 2019

Landfill Investigations PFAS Sampling Results: PFAS LANDFILL

A list of inactive landfill sites that have been investigated for Per- and Polyfluoroalkyl Substances (PFAS) in the state of New York made available by the New York State Department of Environmental Conservation.

Government Publication Date: Jun 30, 2020

Registed Dry Cleaner Facilities: DRYCLEANERS

The Division of Air Resources of the Department of Environmental Conservation (DEC) tracks all registered dry cleaner facilities.

Government Publication Date: Jun 2, 2021

Delisted Dry Cleaner Facilities: DELISTED DRYCLEANERS

Sites removed from the list of dry cleaner facilities registered with the Department of Environmental Conservation (DEC)'s Division of Air Resources.

Government Publication Date: Jun 2, 2021

Hazardous Waste Manifest - Facilities: NY MANIFEST

List of facilities located in New York that are included in the Hazardous Waste Manifest Data Downloads Location Address data file made available by the New York Department of Environmental Conservation (DEC), with which no manifests are associated. The Hazardous Waste Manifest Data made available by the NY DEC is compiled from hazardous waste manifest shipments to, from, or within New York State. The Bureau of Program Management, in the Division of Environmental Remediation, is responsible for maintaining hazardous waste manifest records.

Government Publication Date: Aug 6, 2021

Receivers from Hazardous Waste Manifests: REC MANIFEST

List of receiver facilities located in New York that are included in the Hazardous Waste Manifest Data Downloads Location Address data file made available by the New York Department of Environmental Conservation (DEC), which are identified as a receiver in associated manifests. The Hazardous Waste Manifest Data made available by the NY DEC is compiled from hazardous waste manifest shipments to, from, or within New York State. The Bureau of Program Management, in the Division of Environmental Remediation, is responsible for maintaining hazardous waste manifest records. Hazardous Waste Code Descriptions are from NY Part 371.4 (6 CRR-NY 371.4) Identification and Listings of Hazardous Waste, unless otherwise noted.

Government Publication Date: Aug 6, 2021

Generators from Hazardous Waste Manifests: GEN MANIFEST

List of generator facilities located in New York that are included in the Hazardous Waste Manifest Data Downloads Location Address data file made available by the New York Department of Environmental Conservation (DEC), which are identified as a generator in associated manifests. The Hazardous Waste Manifest Data made available by the NY DEC is compiled from hazardous waste manifest shipments to, from, or within New York State. The Bureau of Program Management, in the Division of Environmental Remediation, is responsible for maintaining hazardous waste manifest records. Hazardous Waste Code Descriptions are from NY Part 371.4 (6 CRR-NY 371.4) Identification and Listings of Hazardous Waste, unless otherwise noted.

Government Publication Date: Aug 6, 2021

New York City E-Designated Sites: E DESIGNATION

List of sites with an E-Designation - a NYC zoning map designation that indicates the presence of an environmental requirement pertaining to potential hazardous materials contamination, window/wall noise attenuation, or air quality impacts on a particular tax lot. The New York City Office of Environmental Remediation administers the E-Designation Environmental Review Program to avoid significant adverse impacts to human health or the environment through exposure to these hazards.

Government Publication Date: Jul 30, 2020

Tier 2 Report: TIER 2

A list of Tier 2 facilities in the state of New York. This is a list of facilities which have reported hazardous substances provided by Homeland Security and Emergency Services.

Government Publication Date: Jan 28, 2019

NY DEC Projects of Interest: PROJECTS

A list of permits for notable projects - permit applications that have received a lot of public attention - made available by the New York Department of Environmental Conservation (DEC).

Government Publication Date: Jul 7, 2021

Air Permitted Facilities: AIR PERMITS

This list of issued state facility air permits is maintained by the New York State Department of Environmental Conservation. Owners or operators of emission sources that are subject to 6 NYCRR Subpart 201-5 must obtain a State facility permit. Draft permits are official versions of permits whose initial development is complete, public notice given, and made available for public review and comment. These permits are prepared by the Division of Air Resources regional staff of the New York Department of Environmental Conservation. Please note: An Issued permit is valid for a stated period of time. Modifications may be made to an issued permit for the remainder of the active permit.

Government Publication Date: Aug 3, 2020

Liens Listing: LIEN

New York Environmental Protection and Spill Compensation Fund (Oil Spill Fund) places liens on properties that are sites of oil spills when the owners are responsible parties and fail to pay for cleanup. The Office of the State Comptroller provides this listing of liens information from the Oil Spill Fund.

Government Publication Date: May 20, 2020

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix 2
Historical information

FIRE INSURANCE MAPS

Project Property:	Phase I ESA: 124 Route 17K, Newburgh, NY 124 Route 17K Newburgh NY 12550
Project No:	2213006
Requested By:	LaBella Associates
Order No:	21083000086
Date Completed:	August 31, 2021

Please note that no information was found for your site or adjacent properties.

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

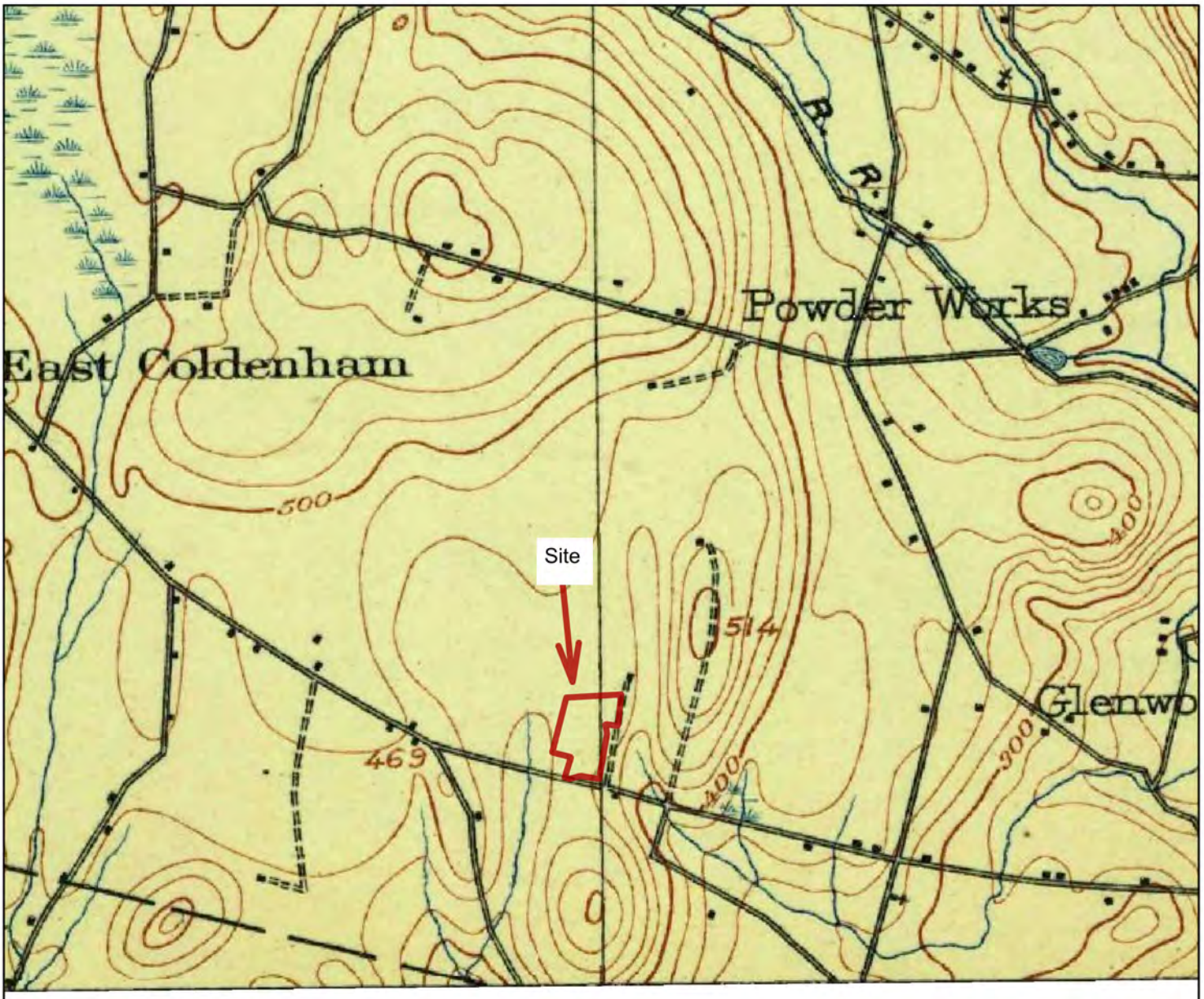
TOPOGRAPHIC MAPS

Project Property:	Phase I ESA: 124 Route 17K, Newburgh, NY 124 Route 17K Newburgh NY 12550
Project No:	2213006
Requested By:	LaBella Associates
Order No:	21083000086
Date Completed:	August 30, 2021

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
1903	15
1946	15
1947	7.5
1957	7.5
2016	7.5



1903

0 0.2 0.4 0.8 Miles

Order No. 21083000086

Quadrangle(s): Newburg,NY

Source: USGS 15 Minute Topographic Map

1946

0 0.2 0.4 0.8 Miles

Order No. 21083000086

Quadrangle(s): Newburgh,NY

Source: USGS 15 Minute Topographic Map

ERIS

1947

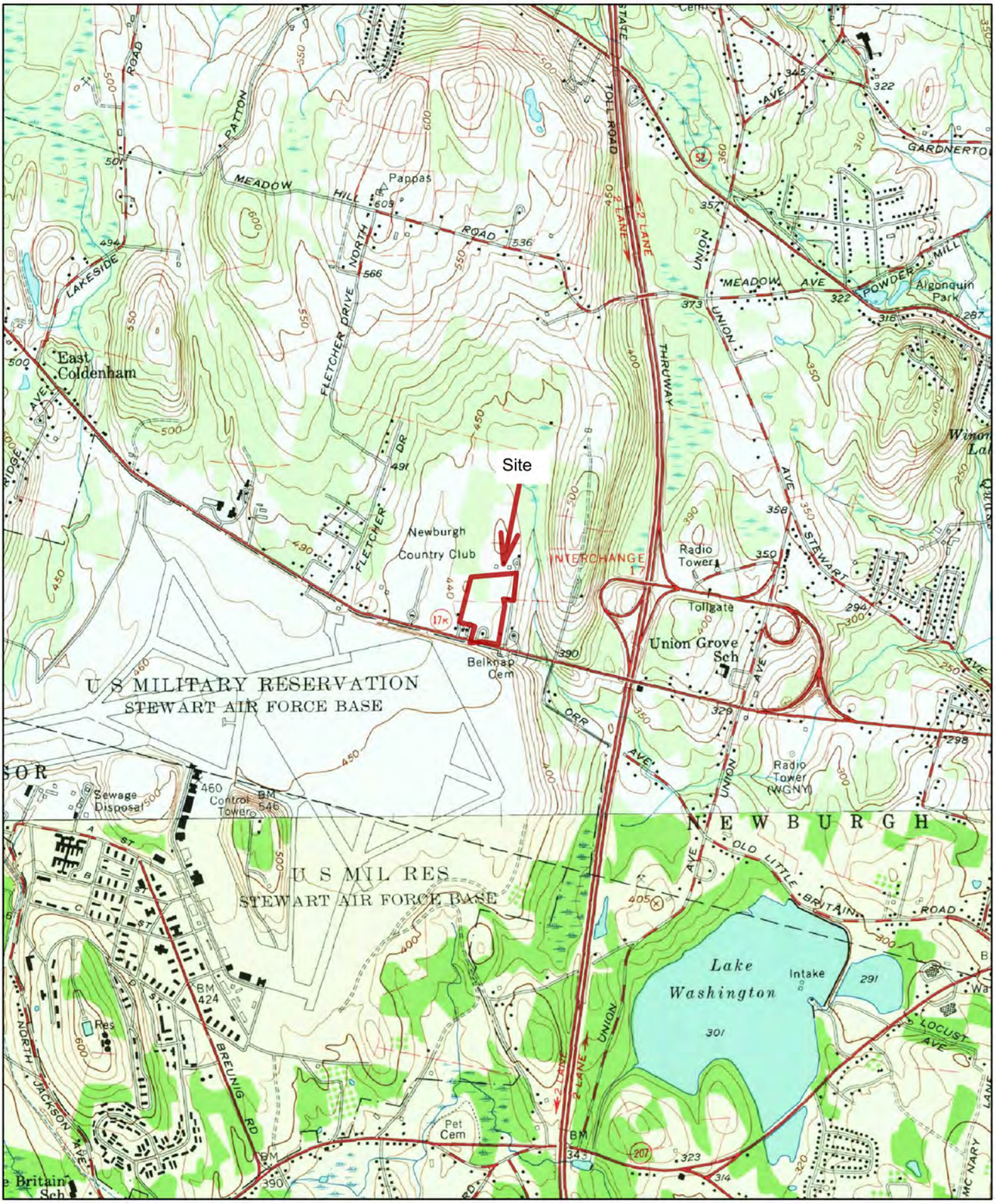
0 0.2 0.4 0.8 Miles

Order No. 21083000086

Quadrangle(s): Newburgh North,NY

Source: USGS 7.5 Minute Topographic Map

ERIS



1957

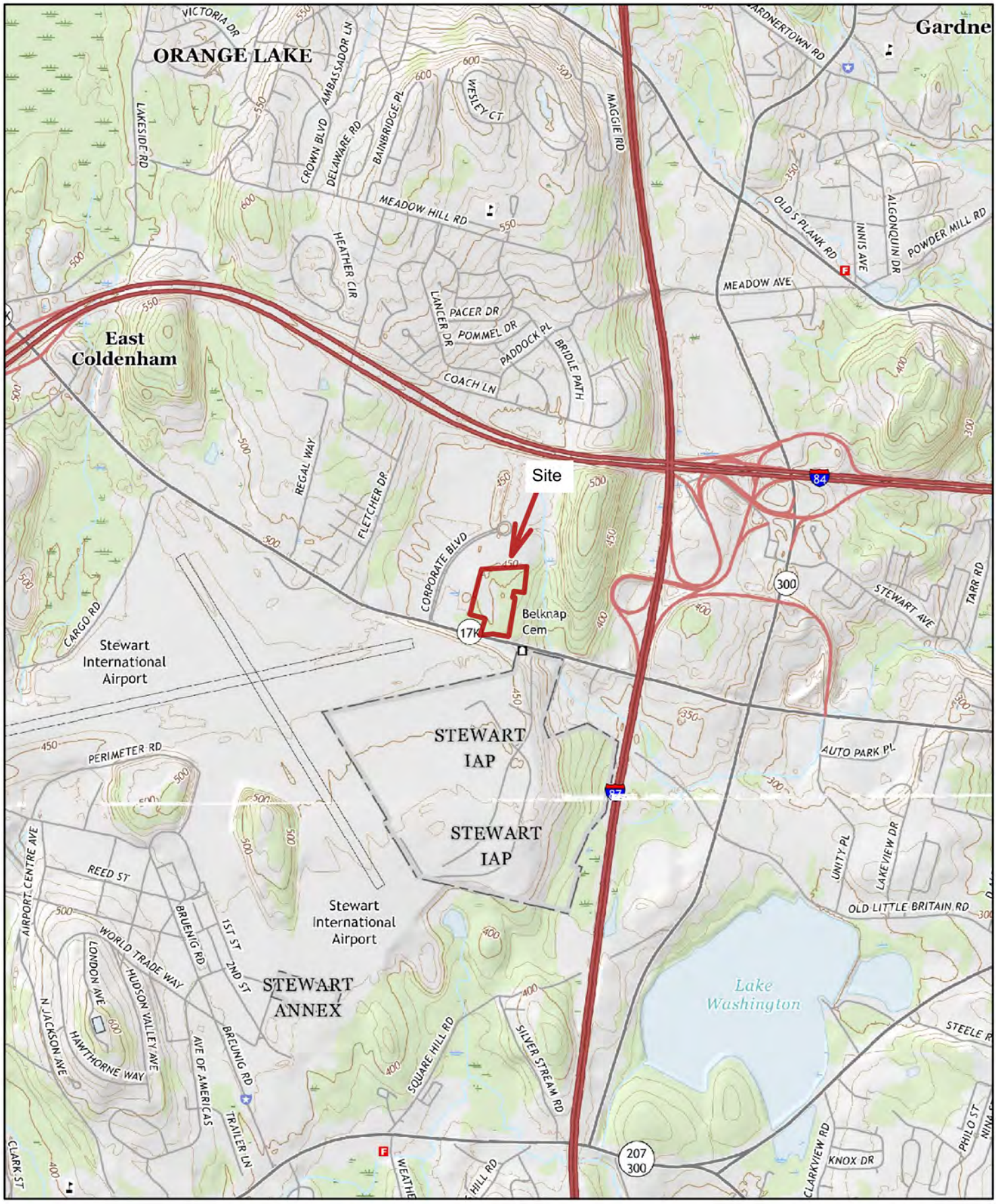
0 0.2 0.4 0.8 Miles

Order No. 21083000086

Quadrangle(s): Newburgh,NY

Source: USGS 7.5 Minute Topographic Map

ERIS



2016

0 0.2 0.4 0.8 Miles

Order No. 21083000086

Quadrangle(s): Newburgh,NY

Source: USGS 7.5 Minute Topographic Map

ERIS

CITY DIRECTORY

Project Property:	*Phase I ESA: 124 Route 17K, Newburgh, NY* *124 Route 17K* *Newburgh, NY 12550*
Project No:	*2213006*
Requested By:	*LaBella Associates*
Order No:	*21083000086*
Date Completed:	*September 1, 2021*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

September 1, 2021
RE: CITY DIRECTORY RESEARCH
Phase I ESA: 124 Route 17K, Newburgh, NY
124 Route 17K Newburgh, NY

Thank you for contac ng ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse lis ng City Directory search to determine prior occupants of the subject site and adjacent proper es. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Lis ng Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either u lized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as mul ple digi zed directories. These do not claim to be a complete collec on of all reverse lis ng city directories produced.

ERIS has made every effort to provide accurate and complete informa on but shall not be held liable for missing, incomplete or inaccurate informa on. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are addi onal addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
90-150 of NY 17K
All of Corporate Blvd

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2003	DIGITAL BUSINESS DIRECTORY	
2000	DIGITAL BUSINESS DIRECTORY	
1960	PRICE AND LEE	
1955	PRICE AND LEE	
1949	PRICE AND LEE	
1946	PRICE AND LEE	
1940	PRICE AND LEE	
1935	PRICE AND LEE	
1930	PRICE AND LEE	
1925	PRICE AND LEE	

300 **BIG SHINE WORLDWIDE INC**...*Semiconductor Devices (mfrs)*
600 **F W WEBB CO**...*Plumbing Contractors*
600 **F W WEBB CO**...*Plumbing Fixtures & Supplies-wholesale*
600 **F W WEBB CO**...*Plumbing Fixtures & Supplies-wholesale*
700 **700-90 LLC**...*Nonclassified Establishments*
700 **BURGIN, EMINE**...*Nurses & Nurses' Registries*
700 **CHEVALIER, DEBORAH M RN**...*Nurses & Nurses' Registries*
700 **HARRIGAN, JENNIFER**...*Offices Of All Other Misc Health Practitioners*
700 **KELLER, KATHLEEN**...*Nurses & Nurses' Registries*
700 **PANTANO, BERNADETTE RN**...*Nurses & Nurses' Registries*
700 **PATSEY, PAMELA A**...*Counselors*
700 **PATSEY, PAMELA A**...*Counselorscouples*
700 **ST JOHN, AUDREY RN**...*Nurses & Nurses' Registries*
700 **TURTLE HUGHES INC**...*Electric Equipment & Supplies-wholesale*
700 **WILLCARE**...*Home Health Service*
700 **WINTERS, LATESHA**...*Nurses & Nurses' Registries*
900 **ALBULET, MARTINA V RN**...*Nurses-practitioners*
900 **CLARK PATTERSON ENGRS SURVEYOR**...*Engineering*
900 **CLARK PATTERSON LEE**...*Engineers-architectural*
900 **CLARK PATTERSON LEE**...*Construction Management*
900 **CLARK PATTERSON LEE**...*Architects*
900 **LIGHTOWER FIBER NETWORKS**...*Communications Equipment Nec (mfrs)*
900 **LIGHTOWER FIBER NETWORKS**...*Radio/tv Broadcasting/comm Equip (mfrs)*
1000 **NEW PENN**...*Trucking-motor Freight*
1000 **NEW PENN MOTOR EXPRESS INC**...*Wrecker Service*
1000 **NEW PENN MOTOR EXPRESS INC**...*Trucking-motor Freight*
1000 **NEW PENN MOTOR EXPRESS INC**...*Trucking*
1000 **NEW PENN MOTOR EXPRESS INC**...*Truckingheavy Hauling*
1500 **C & S WHOLESALE GROCERS INC**...*Grocers-wholesale*
1500 **J B HUNT**...*Trucking*
1500 **J B HUNT**...*Trucking-motor Freight*
1900 **PREFERRED FRAGRANCE INC**...*Toilet Preparation Mfg*
1900 **PREFERRED FRAGRANCE INC**...*Perfume-wholesale*
1900 **PREFFERED FRAGRANCE INC**...*Cosmetics & Perfumes-retail*
1900 **REGIONAL CONSTRUCTION CORP**...*Construction-heavy Projects*

90 **HUDSON VALLEY HOTEL**...*Hotels & Motels*
90 **HUDSON VALLEY HOTEL**...*Conference Centers*
90 **HUDSON VALLEY HOTEL**...*Camps*
90 **HUDSON VALLEY HOTEL**...*Ecommerce*
90 **VINA'S KITCHEN**...*Restaurants*
91 **MOBILE**...*Service Stations-gasoline & Oil*
91 **WESTERN UNION AGENT LOCATION**...*Money Transfer Service*
93 **UNION SQUARE RESTAURANT**...*Foodscarry Out*
93 **UNION SQUARE RESTAURANT**...*Restaurants*
95 **HOWARD JOHNSON**...*Ecommerce*
95 **HOWARD JOHNSON**...*Hotels & Motels*
99 **ACE BEAUTY SUPPLY**...*Beauty Salons-equipment & Supls (whls)*
99 **ACE BEAUTY SUPPLY**...*Beauty Salons-equipment & Supls (whls)*
99 **BOTTLE DEPOT**...*Recycling Centers (whls)*
99 **COSMO PROF**...*Beauty Salons-equipment & Supls (whls)*
99 **TREDORA SALON DAY SPA**...*Skin Treatments*
99 **TREDORA SALON & SPA**...*Health Spas*
99 **TREDORA SALON & SPA**...*Beauty Salons*
100 **CITGO**...*Service Stations-gasoline & Oil*
100 **GULF**...*Service Stations-gasoline & Oil*
108 **AMSCAN INC**...*Paper/plastic Cups Cntnrs/utnsls (whls)*
114 **HEALEY USED CAR OUTLET**...*Automobile Dealers-used Cars*
142 **JOHN HERBERT CO**...*Federal Government Contractors*
142 **JOHN HERBERT CO**...*Floor Materials*
142 **JOHN HERBERT CO**...*Office Furniture & Equip-dealers (whls)*
142 **JOHN HERBERT CO**...*Carpet & Rug Dealersnew*
144 **XAVER'S**...*Automobile Repairing & Service*
150 **GAIL'S PLACE INC**...*Foodscarry Out*
150 **GAIL'S PLACE INC**...*Restaurants*

. **ALSDORF, EMILY**...*Nurses-practitioners*
. **HARRIGAN, JENNIFER**...*Nurses & Nurses' Registries*
300 **GRAINGER INDUSTRIAL SUPPLY**...*Industrial Equipment & Supplies (whls)*
600 **F W WEBB CO**...*Plumbing Fixtures & Supplies-wholesale*
600 **F W WEBB CO**...*Plumbing Contractors*
700 **700-90 LLC**...*Nonclassified Establishments*
700 **HARRIGAN, JENNIFER**...*Offices Of All Other Misc Health Practitioners*
700 **WILLCARE**...*Home Health Service*
700 **WILLCARE**...*Nurses & Nurses' Registries*
700 **WILLCARE**...*Home Health Service*
700 **WINTERS, LATESHA**...*Nurses & Nurses' Registries*
900 **CHARLES P MAY & ASSOC**...*Landscape Designers*
900 **CLARK PATTERSON LEE**...*Architects*
900 **CLARK PATTERSON LEE**...*Engineers-architectural*
900 **LIGHTOWER FIBER NETWORKS**...*Communications Equipment Nec (mfrs)*
1000 **NEW PENN MOTOR EXPRESS INC**...*Trucking-motor Freight*
1000 **NEW PENN MOTOR EXPRESS INC**...*Trucking*
1500 **AMERICAN TRANS FREIGHT INC**...*Specialized Freight (exc Used Gds) Trckng Lng-dist*
1500 **C & S WHOLESALE GROCERS INC**...*Grocers-wholesale*
1500 **J B HUNT**...*Trucking*
1900 **PREFERRED FRAGRANCE INC**...*Toilet Preparation Mfg*
1900 **PREFFERED FRAGRANCE INC**...*Cosmetics & Perfumes-retail*
1900 **REGIONAL CONSTRUCTION CORP**...*Construction-heavy Projects*

90 **BOMBAY CASTLE**...*Caterers*
90 **HUDSON VALLEY HOTEL**...*Hotels & Motels*
90 **HUDSON VALLEY HOTEL**...*Conference Centers*
91 **ATM**...*Automated Teller Machines*
91 **PEKE PETROLEUM INC**...*Service Stations-gasoline & Oil*
91 **PEKE PETROLEUM INC**...*Alternative Fuels*
91 **UNIVERSAL CHECK CASHING**...*Check Cashing Service*
93 **UNION SQUARE RESTAURANT**...*Restaurants*
95 **HOWARD JOHNSON**...*Hotels & Motels*
99 **ACE BEAUTY SUPPLY**...*Beauty Salons*
99 **ACE BEAUTY SUPPLY**...*Beauty Salons-equipment & Supls (whls)*
99 **IMPERIAL GUITAR & SOUNDWORKS**...*Musical Instruments-dealers*
99 **IMPERIAL GUITAR & SOUNDWORKS**...*Music Instruction-instrumental*
99 **TREDORA SALON & SPA**...*Beauty Salons*
100 **CITGO**...*Service Stations-gasoline & Oil*
100 **CITGO**...*Gasoline & Oil-wholesale*
142 **JOHN HERBERT CO**...*Floor Materials*
142 **REGGIANI SPA ILLUMINATION**...*Lighting Equipment-manufacturers*
142 **TECHNICAL SOLUTIONS LLC**...*Telecommunications Services*
144 **XAVER'S**...*Automobile Repairing & Service*
150 **GAIL'S PLACE INC**...*Restaurants*

300 **GRAINGER INDUSTRIAL SUPPLY**...*Industrial Equipment & Supplies (whls)*
600 **FW WEBB**...*Plumbing Contractors*
700 **700-90 LLC**...*Nonclassified Establishments*
700 **WILLCARE**...*Home Health Service*
900 **700-90 LLC**...*Nonclassified Establishments*
900 **CLARK PATTERSON LEE**...*Engineers-architectural*
900 **LIGHTOWER FIBER NETWORKS**...*Telecommunications Services*
1000 **NEW PENN MOTOR EXPRESS INC**...*Trucking-motor Freight*
1500 **C & S WHOLESALE GROCERS INC**...*Grocers-wholesale*
1500 **FCTI**...*Marketing Consultants*
1900 **REGIONAL CONSTRUCTION CORP**...*Construction-heavy Projects*

90 **KNIGHTS INN**...*Hotels & Motels*
91 **LDR GROUP SALES INC**...*General Merchandise-retail*
91 **PEKE PETROLEUM INC**...*Service Stations-gasoline & Oil*
91 **UNIVERSAL CHECK CASHING**...*Check Cashing Service*
93 **UNION SQUARE RESTAURANT**...*Restaurants*
95 **HOWARD JOHNSON INN-NEWBURGH**...*Hotels & Motels*
99 **ACE BEAUTY SUPPLY**...*Beauty Salons-equipment & Supls (whls)*
99 **HUDSON VALLEY CELLULAR**...*Cellular Telephones (services)*
99 **IMPERIAL GUITAR & SOUNDWORKS**...*Musical Instruments-dealers*
99 **TREDORA SALON & SPA**...*Beauty Salons*
142 **NATURE'S PANTRY**...*Health & Diet Foods-retail*
142 **TECHNICAL SOLUTIONS LLC**...*Telephone Companies*
144 **XAVER'S FOREIGN CAR SVC**...*Automobile Repairing & Service*
150 **GAIL'S PLACE INC**...*Restaurants*

300	**300 CORPORATE BLVD**	*Nonclassified Establishments*
300	**GRAINGER INC**	*Industrial Equipment & Supplies (whol)*
700	**700-90 LLC**	*Nonclassified Establishments*
700	**M & T BANK TRUST & INVSTMNT**	*Banks*
700	**MITSUBISHI FUSO TRUCK OF AMER**	*Retails New And Used Motor Vehicles Specializing In Tru*
700	**WILLCARE**	*Home Health Care Services*
900	**700-90 LLC**	*Nonclassified Establishments*
900	**CHARLES P MAY & ASSOCIATES**	*Engineering Services*
900	**CLARK PATTERSON ASSOC**	*Engineers-consulting*
900	**HUDSON VALLEY DATA NET LLC**	*Telecommunications Services*
900	**PUROLATOR COURIER LTD**	*Courier Services*
1000	**NEW PENN MOTOR EXPRESS INC**	*Trucking Terminal*
1500	**C & S WHOLESALE GROCERS INC**	*Grocers-wholesale*
1500	**C D & L**	*Delivery Service*
1500	**GU MARKETS LLC**	*Whol General Groceries*
1900	**CSR RETAIL SYSTEMS INC**	*General Contractors*
1900	**DHL EXPRESS**	*Air Cargo Service*
1900	**FIRST VEHICLE SVC**	*Services Nec*
1900	**REGIONAL CONSTRUCTION CORP**	*Construction-heavy*

90	**CLARION HOTEL WEST POINT**	*Hotels & Motels*
90	**CLARION HT - NEWBURGH - W PT**	*Hotel*
91	**CROSSROADS GETTY**	*Automobile Repairing & Service*
91	**LDR GROUP SALES INC**	*General Merchandise-retail*
94	**HOWARD JOHNSON**	*Hotels & Motels*
99	**ACE BEAUTY SUPPLY**	*Beauty Salons*
99	**CAR PHONE STORE**	*Cellular Telephones (services)*
99	**FEDERAL STANDARD MORTGAGE BANK**	*Real Estate Loans*
99	**HUDSON VALLEY CELLULAR**	*Cellular Telephones (services)*
99	**IMPERIAL GUITAR & SOUNDWORKS**	*Retails Musical Instruments*
99	**MC COY SPORT SHOPS**	*Snowboards-retail*
99	**TREDORA SALON & SPA**	*Beauty Salons*
100	**NEWBURGH CITGO INC**	*Gasoline Service Station*
114	**A & E TRANSPORT**	*School Bus Transportation*
114	**T C B MESSENGER & TRUCKING**	*Trucking And Messenger Service*
142	**NATURES PANTRY**	*Ret Misc Foods*
142	**NATURES PANTRY**	*Health & Diet Foods-retail*
142	**REGGIANI SPA ILLUMINATION**	*Lighting Equipment-manufacturers*
144	**STAR IMPORTS INC**	*General Auto Repair*
144	**XAVERS FOREIGN CAR SVC**	*Automobile Repairing & Service*
150	**GAILS PLACE INC**	*Restaurants*

300 **GRAINGER INC**...
700 **DIAGNOSTIC IMAGING**...
700 **M & T MORTGAGE CORP**...
700 **MFTA INC**...
900 **CHARLES P MAY & ASSOC**...
900 **CLARK PATTERSON ASSOC**...
900 **G TECH CORP**...
1000 **NEW PENN MOTOR EXPRESS INC**...
1500 **C & S WHOLESALE GROCERS INC**...
1500 **CONSOLIDATED DELIVERY/LOGOSTIC**...
1900 **AIRBORNE EXPRESS**...
1900 **REGIONAL CONSTRUCTION CORP**...

90 **HOLIDAY INN**...*Motels*
91 **D & J PETROLEUM INC**...
93 **UNION SQUARE RESTAURANT**...*Steak And Barbecue Restaurants*
95 **HOWARD JOHNSON**...*Motels*
99 **CLASSIC TENT RENTAL INC**...*Business Machine And Electronic Equipment Rental Services*
99 **HUDSON VALLEY CELLULAR**...
100 **NEWBURGH CITGO INC**...
114 **A & E TRANSPORT**...
114 **DE LORENZO FINANCIAL PLANNING**...
114 **MID VALLEY PROPERTIES INC**...
114 **TCB MESSENGER & TRUCKING**...
142 **HILLSIDE HOMES & DEVELOPMENT**...
142 **JOHN HERBERT CO**...
142 **NATURE'S PANTRY**...*Health And Dietetic Food Stores*
142 **REGGIANI SPA ILLUMINATION**...
144 **XAVER'S FOREIGN CAR SVC**...*Engine Repair*
150 **GAIL'S PLACE INC**...*Steak And Barbecue Restaurants*

300 **GRAINGER INC**...
700 **M & T MORTGAGE CORP**...
700 **S & WX-RAY**...
900 **GENTRY CAPITAL MORTGAGE**...
1000 **NEW PENN MOTOR EXPRESS INC**...
1500 **CONSOLIDATED DELIVERY SVC**...
1900 **AIRBORNE EXPRESS**...

90 **HOLIDAY INN**...*Motels*
91 **D & J PETROLEUM INC**...
93 **UNION SQUARE RESTAURANT**...*Steak And Barbecue Restaurants*
95 **HOWARD JOHNSON**...*Motels*
95 **HOWARD JOHNSON LODGE**...*Motels*
99 **CAR PHONE STORE**...*Art And Architectural Supplies*
99 **CLASSIC TENT RENTAL INC**...*Business Machine And Electronic Equipment Rental Services*
99 **D D M COMMUNICATIONS INC**...
99 **FED STANDARD MORTGAGE BANKING**...*Automobile And Consumer Finance Companies*
99 **FEDERAL STANDARD MORTGAGE**...
99 **MC COY SPORT SHOPS**...*Medical Apparatus And Supplies*
100 **NEWBURGH CITGO INC**...
114 **A & E TRANSPORT**...
114 **DE LORENZO FINANCIAL PLANNING**...
114 **MEDICLAIM SERVICES**...
114 **MID VALLEY PROPERTIES INC**...
114 **TCB MESSENGER & TRUCKING**...
114 **ULTIMATE BUSINESS SYTEMS**...
142 **HILLSIDE HOMES & DEV CORP**...
142 **JOHN HERBERT CO**...
142 **NATURE'S PANTRY**...*Health And Dietetic Food Stores*
142 **PRESIDENT BAKING INC**...
144 **XAVER'S FOREIGN CAR SVC**...*Engine Repair*
150 **SCOREBOARD SPORTS BAR**...*Steak And Barbecue Restaurants*

STREET NOT LISTED

Cochecton Tpk—continued
—Pidhorodecky Peter ◎
—Walden Tool Co
— Vacant
— Spengler C M Mrs ◎
—Lawrence C S Mrs ◎
—Spengler Henry B
—Striphas George P ◎
—Leary Henry ◎
— Vacant
—Leary H W pumps
—Morley Mary C Mrs ◎
—Gillespie Robert L ◎
—Gillespie E L nurse
— Spengler's Grove
—Schaefer G F market gardener ◎
—Terry's Service Station No 2
— Vacant
—Hasbrouck's Tavern
—Canty Edward G
— Entrance to NY Thruway
—Hasbrouck W H
—DuBois M E Mrs
—Genemark Enterprises
—WGNY Transmitter
— Exit fr NY Thruway
—Palmerone Joseph ◎
— Union av crosses
—Kuhnheim Donald J
—Todd M E Mrs ◎
—Yozzo Ralph A ◎
— Stagliano Nicholas
—Yozzo Agostino J ◎
—Yozzo Dominick F ◎
—Elling Williams
— Conklin Leo ◎
— Mahathy Raymond
—Silvers Roy ◎
—Gaffney Thomas
—Kurz William L
—Mushko James H
— Streeter William F ◎
—Waters Cora M Mrs
—Dye Douglas V
—Hajny Frank ◎
— McCullough Margaret Mrs
—Taeschner Paul N ◎
—McGraw A M Mrs ◎
—McCoy's Sales Co Inc
—Hudson Valley Tent Co
— NY Thruway crosses (underneath)
—off Crabtree R F ◎
— Orr av ends
— Belknap Cemetery
—Morris J D Mrs ◎
—off Smolinski F J ◎
—off Bostock C far ◎
—Nelbach A G ◎
—off Hubych Harry ◎
—Pitsinos Nicholas ◎
—Fourtunes P Mrs ◎
—Ostrander Jesse ◎
—Quicksell Daniel C ◎
—Shaw Margreate R Mrs
—Newburgh Country Club Corp
—Carroll Thomas L
—Forsyth Thomas E ◎
— Vacant
—Stewart Air Force Base
— Wescott M T Mrs antiques
—Bauer Robert M
—Mee Nina J
— Fletcher dr begins
—Coates Margaret V Mrs
—Wiley Howard S ◎
— Cochecton av begins
—Brownson R V ◎
—Brownie's Frostee Freeze
—Carrig William
—Hurd Harry H ◎
— Vacant
— Vacant
— Vacant
— Kasinski A J far
— Vacant
— Vacant
— Vacant
— Vacant
— Vacant
—O'Dell Frank M ◎
— O'Dell A M Mrs produce
— LaForge Clifford G auto repr
— Tappan Claude
—Unger Carl ◎
— Thompson Robert
— Coleman F C ◎
—Little Elna Mrs ◎
—Leszczynski John ◎
—Knapp Charles R
—Knapp's Machine Works
—Warner C L ◎
—Rain Andrew J Jr ◎
—Bidosky Joseph R ◎
—Harris G E real est ◎

STREET NOT LISTED

Cochecton Tpk—continued
—Leary H W pumps
— Spengler's Grove
—Schaefer G F market gardener ⊙
— Ferdon Edith S Mrs
—Arkel Motors
—Hasbrouck's Tavern
—Entrance to NY thruway
—off Young Jacob R
—Canty Edward G
—Hasbrouck Walter H
—Michael Walter ⊙
—DuBois M E Mrs
—Michael Fred & Son mach
— Exit fr NY thruway
—Morley M C Mrs ⊙
—WGNY Transmitter
—NY thruway crosses (underneath)
—Palmerone Joseph ⊙
— UNION AV crosses
—D'Agati Vincent S ⊙
—Todd M E Mrs ⊙
—Yozzo Dominick F ⊙
—Coach House Hotel
— Vacant
—Hajny F gasoline ⊙
—Taeschner Paul N ⊙
—McGraw A M Mrs ⊙
— Entrance to NY thruway
—off Crabtree R F ⊙
—off Vacant
— ORR AV ends
— Belknap Cemetery
—Morris J D Mrs ⊙
—off Smolinski F J ⊙
—off Bostock C far ⊙
—Nelbach A G ⊙
—off Vacant
—off Vacant
—off Hybych Harry
—Fourtunes P Mrs ⊙
—Ostrander Jesse ⊙
—Everett C Ray
—Shaw Henry M ⊙
—Newburgh Country Club Corp
—Nerz Clement A
—Moore Richard M
— Vacant
—Frew Thomas M
—Hangar Grill
— Kramp Felix J
—Stewart Air Force Base
—Fletcher C S J cabinetmkr
—Fletcher S E Mrs antiques
— FLETCHER DR begins
—Earl Frank A ⊙
—Wiley Howard S ⊙
— Noe Stewart F
— COCHECTON AV begins
—Brownson R V ⊙
—Rau Eugene L
—Hurd Harry H ⊙
—Thomas C S nurse
—Cedar Crest Poultry Farm
—Lily of France Corset Inc Newburgh Branch
— Vacant
—Sandvik Saw & Tool
— Vacant
— Vacant store
— Vacant
— Vacant
— Vacant
— Vacant
— Vacant
— Kasinki A J far ⊙
— Vacant
—O'Dell Frank M ⊙
— O'Dell A M Mrs produce
— Vacant
—LaForge C G auto repr ⊙
— LaForge Ralph H ⊙
—Hall Oscar W
— Davies Edward G ⊙
—Unger Carl ⊙
— Brann James R
— Coleman F C ⊙
—Little Elna Mrs ⊙
— Leszcynski John ⊙
—Knapp Charles R
—Knapp's Machine Works
— Poates Francis W
—Warner C L ⊙
—Rain Andrew J Jr ⊙
—Bidosky Joseph R ⊙
—Harris G E real est ⊙
—Bell Raymond H
—Negus George W ⊙
— RIDGE AV begins
—Gibbens A A ⊙
—Sweeney Willard
— Vacant
—Finley John P ⊙
— Vacant
—Favoino D mason ⊙
— LAKESIDE RD begins
— Bell Milton V
—Partington G S trucking ⊙

STREET NOT LISTED

McClintock J Jr ◎
— Walsh Robert J
— Frost Ernest
— Frost Francis
—△Lyon A E ◎
— Almida Joseph
— Fina Elizabeth Mrs
— Stewart av begins
—△Herrmann F W florist
—△Bross Frank H ◎
—△Lena Vincent ◎
—△Spengler C M Mrs ◎
— Decker George
—△Spengler H B
— Vacant
— Vacant
— Vacant
—△Striphas George ◎
—△Leary Henry ◎
+ Leary H W
—△Spengler C M florist
— Spengler's Grove
—△Schaefer G F market gardener ◎
—△Gillespie Robert
—△Boice Howard
—△Williams Service Station
— Williams William H
—△Hasbrouck's Tavern
—off△St John M L Mrs ◎
—off△Young R J
—△Petrillo Angelo Jr
—△Hasbrouck Walter H
— Presler John
— Michael Walter
—△DuBois M E Mrs
—△Michael F mach ◎
—△Morley A B feed ◎
— Patton Olive Mrs
—△Palmerone J far ◎
— Union av crosses
—△D'Agati Vincent S
—△Todd Robert ◎
— Yozzo Dominick F
—△Coach House Hotel
— Vacant
— Hajny F gasoline
—△Wheat Earl B ◎
—△Breitenbach H far
—off△Batterton A L far ◎
— Orr av ends
— Belknap Cemetery
—△Morris C J ◎
—off△Bostock C far ◎
—△Nelbach A G ◎
—△Ostrander Jesse ◎
— Everett C Roy
—△Shaw Henry M ◎
—△Newburgh Country Club
—△Newburgh Country Club Corp

Cochecton Tpk—continued
—△Osborn C D ◎
—△Dyshuk Dmytro ◎
— Hangar Restaurant
—△Stewart Field Airport
—△Fletcher C S J cabinetmkr ◎
—△Fletcher S E Mrs antiques
— Fletcher dr begins
—△Earle Frank A ◎
— Cochecton av begins
— Rau Eugene L
—△Cedar Crest Poultry Farm
—△Hurd Harry H ◎
—△Thomas C S nurse
— Vacant
—off Newburgh Tool Corp tool mfrs
—△Lily of France Corset Co Inc Newburgh branch
— Pepsi-Cola Co bottlers
— Johnson William F
— Vacant
—△Kasinski R Mrs ◎
—△LaForge C G auto repr ◎
— Vacant store
—△Unger Carl ◎
Brann James R
—△Tremper J Edward
— Coleman F C ◎
— Nelson Irene M ◎
—△Mills L M Mrs ◎
— Knapp Charles
— Knapp's Machine Works
— Leszczynski John
—△Rain Andrew J Jr ◎
—△Harris G E real est ◎
— Negus George
—off△Gibbens Alexander A ◎
— Dimino Charles
—off△Mucci James E ◎
—off△Hamilton Florence ◎
—off MacNary S Jr ◎
—off Ochester Edwin ◎
— Sivertsen Norman
—off△Conyea Peter J ◎
— Gordon Wallace
—△Favino D mason ◎
— Lakeside rd begins
— DuBois Harold
— Hamilton R H Mrs antiques
— Lentz Viola M Mrs
— Lang W J
—△Brewster A N ◎
—△Brewster W J far ◎

STREET NOT LISTED

Cochecton Tpk—continued
— Union av crosses
—△D'Agati Vincent S
—△Todd Robert ◎
—△Drenkel Charles S
— Boyer William D
—△Pines Hotel
— Hajny F gasoline
—△Ruscitti J trucking◎
—△Breitenbach H far
—off△Batterton A L far ◎
— Orr av ends
— Belknap Cemetery
—△Morris C J ◎
—off△Bostock C far ◎
—△Gosselin M J Mrs ◎
—△Ostrander Jesse ◎
—△Farlow A C ◎
—△Shaw Henry M ◎
—△Newburgh Country Club
—△Newburgh Country Club Corp
—△Osborn C D ◎
—△Dyshuk Dmytdo ◎
—△Stewart Field Airport
— Mazzeo A A MD
—△Fletcher C S J cabinetmkr ◎
—△Fletcher S E Mrs antiques
— Fletcher dr begins
—△Earle Frank A ◎
— Cochecton av begins
— Rau Eugene L
—△Cedar Crest Poultry Farm
—△Hurd Harry H ◎
—△Thomas C S nurse
— Maxdon Clothes Corp clothing
— Plymouth Aluminum Ware Corp
— Lily of France Corset Co Inc Newburgh branch
— Pepsi-Cola Co
— Jackson av begins
— Vacant

STREET NOT LISTED

Cochecton Tpk—continued
—off Stone A far ⓪
—off Horton William R
—Favorito A far ⓪
— Ribelli Frank
— McClintock Edward H
—McClintock John ⓪
—off D'Alfonso Conrad ⓪
—off D'Alfonso P far ⓪
— Rochetti A
—DuMond Howard J
—off Valerio L J ⓪
—Newman Roy L
—Williams William ⓪
—Engelhardt A L
—McClintock W T ⓪
—Currey John J ⓪
—Walsh Robert J ⓪
— Frost Ernest
— Frost Francis
—Lyon A E ⓪
— Phillips R S
— Snyder C A
— **Stewart av begins**
—Herrmann F W florist
—McGiffert W J ⓪
— Spengler C M Mrs ⓪
— **Lawrence Joseph T**
—Carroll John J
—Spengler C M florist
—Barrett William A
—Tesman John M
— Spengler's Grove
—Schaeffer G F market gardener ⓪
—Boice Howard
— Vacant
—Lewis S J ⓪
— Young's Tavern Inc
—St John M L Mrs ⓪
—Needham E M Mrs nurse
—off Peck Irving J
—off Bulson Edward J
— Smith Eugene J
— Bucher William W
—Michael Walter ⓪
—DuBois C F far ⓪
—Michael F mach ⓪
—G L F Quality Service
—Morley A B feed ⓪
—Morley F W far
— Vacant
—W G N Y Radio Station Transmitter
—Palmerone J far ⓪
— **Union av crosses**
—Frembd George F
—Todd Robert ⓪
—Nassar Mary A ⓪
—European Gardens rest
—Breckenridge J F gasoline ⓪
— Ballou Walter J
—Breitenbach M Mrs ⓪
—Breitenbach H far
—off Batterton A L far ⓪
— **Orr av ends**
—Teliho E J painter ⓪
—Bresson Louis ⓪
—Morris C J ⓪
—off Bostock C far ⓪
—Gosselin M J Mrs ⓪
—Flanagan John H ⓪
—Ostrander Jesse ⓪
—Farlow A C ⓪
—Newburgh Country Club
—Newburgh Country Club Corp
—Osborn C D ⓪
— **Silver Stream av begins**
—Palen A Wade
—Stevenson M M Mrs ⓪
—Walker & Gorman rest
—Walker Sydney ⓪
—Stewart Field Airport
—Kurek Paul A
—Fletcher C S J cabinet mkr ⓪
—Fletcher S E Mrs antiques
— **Fletcher dr begins**
— Jamison George A
— **Cochecton av begins**
— Rau Eugene L
—Cedar Crest Poultry Farm
—Hurd Harry H ⓪
—Thomas C S nurse
— Leary Henry ⓪
— Central Used Car Market
— Curry James A
—Monti Joseph
— **Jackson av begins**
— Ennis M A Mrs
—Kasinski R Mrs ⓪
— Traver A C gasoline
—Unger Carl ⓪
— Green J gasoline
—Griffin G G ⓪
— Nelson Samuel ⓪
—Mills Soap Co The
—Mills Robert H ⓪
—Rain Andrew J Jr
—Harris G E real est ⓪
—off Vacant
—off White Floyd A ⓪
—off Vacant
—off Wilcock David L ⓪
—off McCann G W ⓪
—off Vacant
—off McKee Donald C
—Gibbens A A ⓪
—Favino D mason ⓪
— **Lakeside rd begins**
— Hamilton R H Mrs antiques
— Brush Norman C
—Neill John M ⓪
—Brewster A N ⓪

STREET NOT LISTED

—△Michael Walter ◎
—△DuBois C F far ◎
—△Michael F mach ◎
—△Morley A B feed ◎
— Morley F W far
— Taylor George A
—△Palmerone J far ◎
— **Union av crosses**
—△Frembd George F
—△Todd Robert ◎
— Morasco Albert
—△Breckenridge J F gasoline ◎
—△McGraw Edward F
— Breitenbach M Mrs ◎
—△Breitenbach H far
—△off Batterton A L far ◎
— **Orr av ends**
— Parker William H
—△Bresson Louis ◎
—△Morris C J ◎
— Morris J D Mrs
— off Bostock C far ◎
—△Gosselin M J Mrs ◎
—△Flanagan F J Mrs ◎
—△Ostrander Jesse ◎
— Lennon B F Neil
—△Newburgh Country Club
— Simon Louis M G
— off Mullin John
—△Osborn C D ◎
— **Silver Stream av begins**
— Kernahan Robert
—△Stevenson O N conf ◎
—△McCarthy Michael J
—△Fletcher C S J cabinet mkr ◎
— Fletcher S E Mrs antiques
— Cascade Gardens real est
— **Fletcher dr begins**
— **Cochecton av begins**
— Rau Eugene L
— Cedar Crest Poultry Farm
—△Hurd Harry H ◎
— Leary Henry Jr ◎
— Vacant
— Tice George A
— **Jackson av begins**

STREET NOT LISTED

Cochecton Tpk—continued

*— Morley Albert B
*— Pignol Willis R
*— Blakeley William W
— Vacant
*— Palmerone Joseph far
— Vacant
— Union av crosses
— Higginson M B Mrs
*— Carey Frank W conf
*— Lindsay Robert A
*— Breitenbach Mary Mrs
*— Batterton A L
— Orr av ends
*— Wiley Isaac far
— Bresson Louis
*— Morris Charles J
—off Bostoch Charles
*— Gosselin Fred far
*— Flanagan F J Mrs
*— Ostrander Jesse
*— Buckhout Stanton B
*— Osborn Charles D
— Stevenson Otto N
— Silver Stream av begins
— Mills Robert H
*— Mills Soap Co The
*— Fletcher Charles S J
*— Falk Frank E gasoline
— Fletcher dr begins
— Denman John W
— Weyant Delosa L
*— Jamison George A
— Cochecton av begins
*— Rau Eugene L
— Cedar Crest Poultry Farm
— Vacant
— Newburgh Gun Club
*— Hurd Harry H
*— Leary Henry Jr
*— Gaynor William R far
— Bruni Samuel
— Jackson av begins
*— Kasinki Rosie Mrs gas and oil
*— Purdy David H conf
*— Kerling Charles conf
*— Griffin Gerow G
— Casscles Hyman H
— Wilson C V contr
*— Favino D contr
— Lakeside rd begins

STREET NOT LISTED

COCHECTON TPK (3-G) continuation of Broadway W to town line

--- END REPORT ---

Appendix 3
Aerial Photographs

ERIS

HISTORICAL AERIALS

Project Property: Phase I ESA: 124 Route 17K,
Newburgh, NY
124 Route 17K
Newburgh NY 12550

Project No: 2213006

Requested By: LaBella Associates

Order No: 21083000086

Date Completed: August 31,2021

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
1958	Army Mapping Service	1" = 500'	
1968	United States Air Force	1" = 500'	Best Copy Available
1975	US Department of Agriculture	1" = 500'	
1985	National High Altitude Photography	1" = 500'	
1994	US Geological Survey	1" = 500'	
2006	National Agriculture Information Program	1" = 500'	
2009	National Agriculture Information Program	1" = 500'	
2011	National Agriculture Information Program	1" = 500'	
2013	National Agriculture Information Program	1" = 500'	
2015	National Agriculture Information Program	1" = 500'	
2017	National Agriculture Information Program	1" = 500'	
2019	National Agriculture Information Program	1" = 500'	

Year: 1958
Source: AMS
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS

Year: 1968
Source: USAF
Scale: 1" = 500'
Comment: Best Copy Available

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

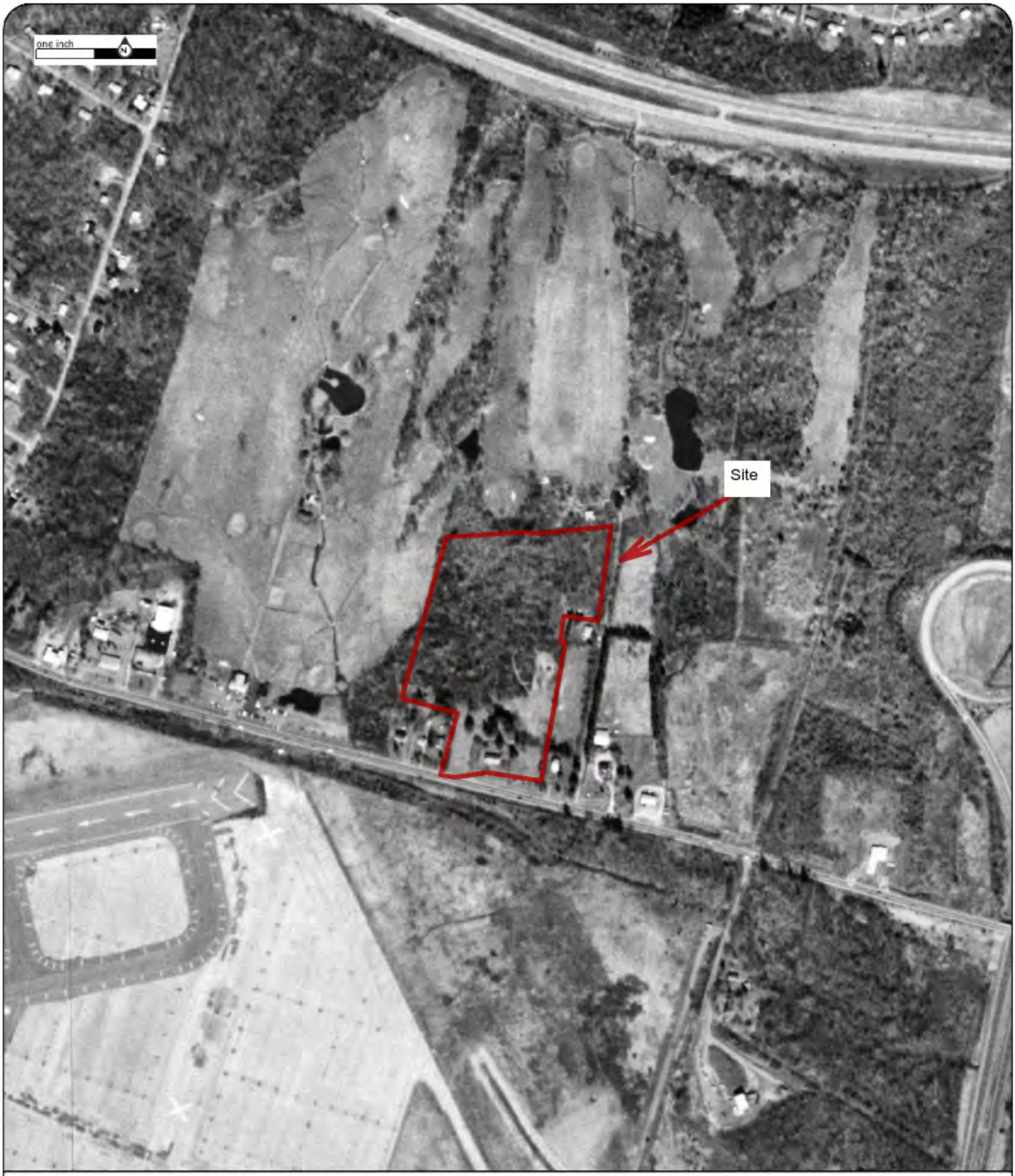
ERIS

Year: 1975
Source: USDA
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS



Year: 1985
Source: NHAP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS

Year: 1994
Source: USGS
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS

Year: 2006
Source: NAIP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

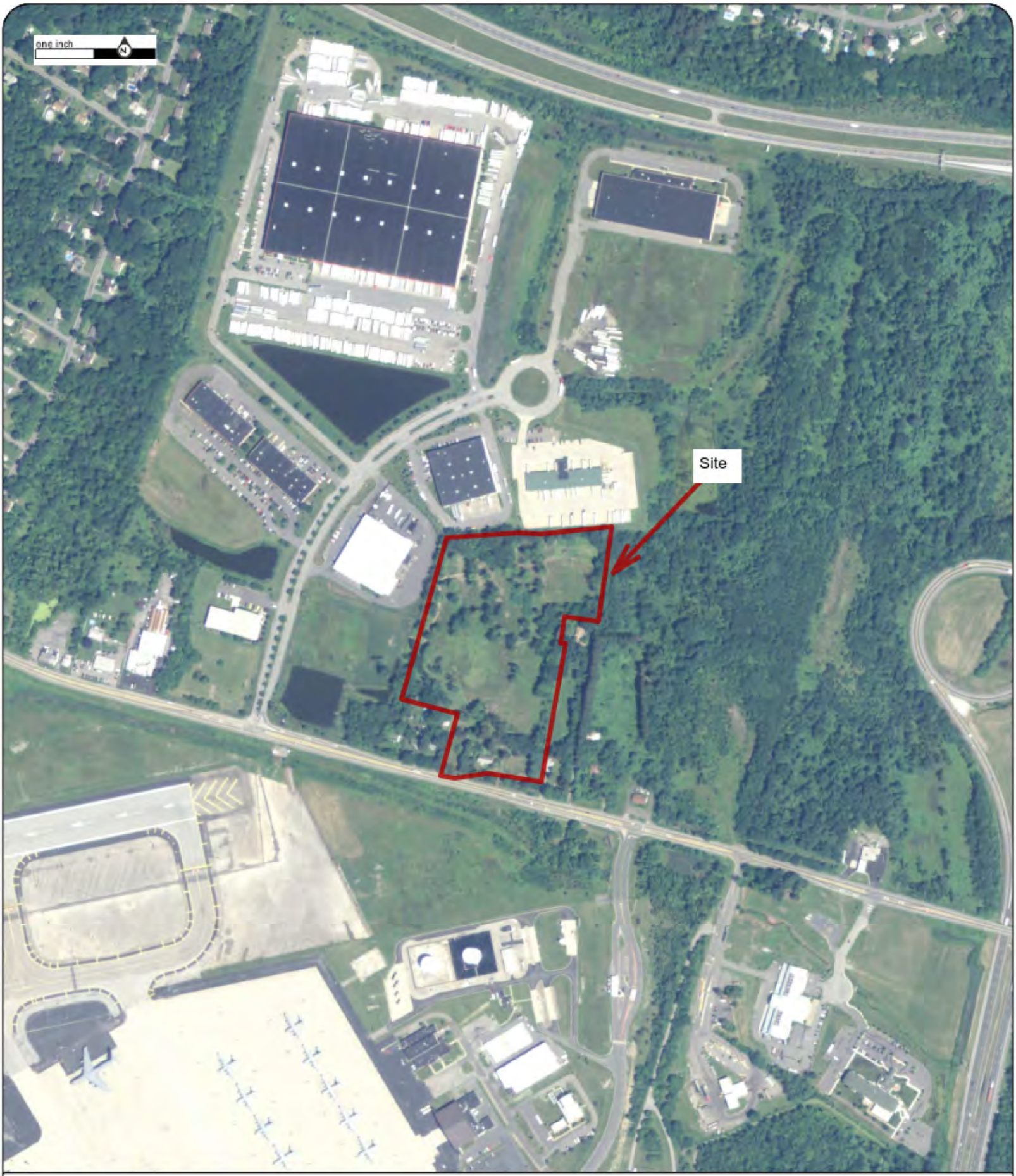
ERIS

Year: 2009
Source: NAIP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS



Year: 2011
Source: NAIP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS

Year: 2013
Source: NAIP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

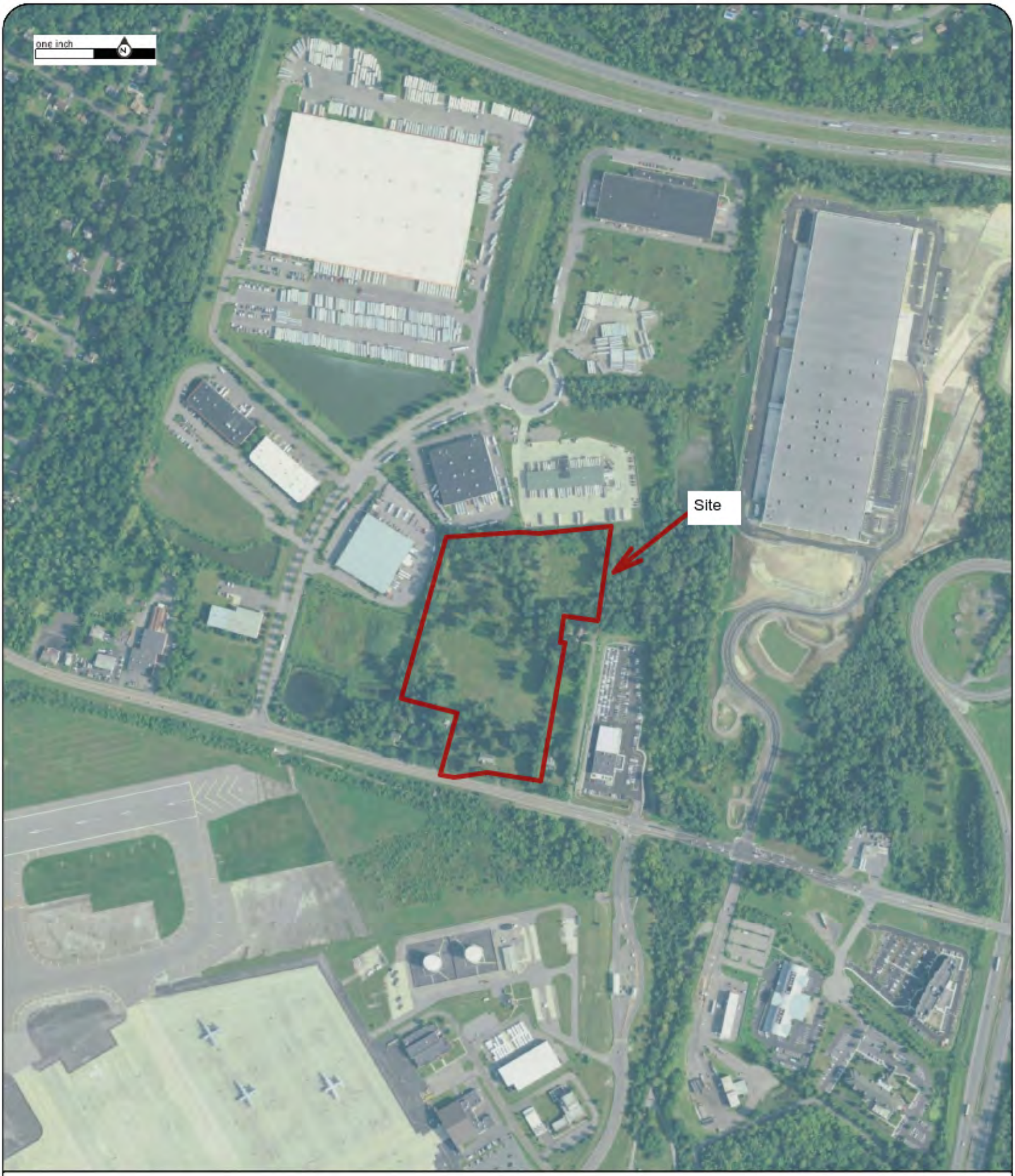
ERIS

Year: 2015
Source: NAIP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS



Year: 2017
Source: NAIP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS

Year: 2019
Source: NAIP
Scale: 1" = 500'
Comment:

Address: 124 Route 17K, Newburgh, NY
Approx Center: -74.0834304,41.50921206

Order No: 21083000086

ERIS

Appendix 4
Site Reconnaissance Worksheet

LaBella
Powered by partnership.

Site Reconnaissance Worksheet

Project #	2213006		
Address	124 Route 17K, Newburgh, NY		
Inspector Name/Date of Inspection	S. Vaverchak	9/16/21	
Site contact name/Title/Years associated with Site	Russell Altman	Owner	~14 years
Site Contact Phone#/email	914-420-0231 rcaltman@altmanlighting.com		
Site Size (acres)	14.90		
Nature of Site	*Industrial*	(*Residential*)	*Commercial*
Past Site Use (Evidence or per Site Contact)	Residential		
Nature of Area (circle one)	*Rural*	*Urban*	(*Suburban*)
Topography (If Sloping – Note Direction)	Slightly sloping to the south		
Nearest Body of Water (Note Distance and Direction)	Quassaic Creek and tributaries located ~700 east of the Site		

Adjacent Properties (Address and Use):

North	NFI Warehouse (800 Corporate Blvd) A. Duie Pyle (1000 Corporate Blvd)
East	Residential (122 Route 17K) Healey Kia (114 Route 17K)
South	Route 17K Stewart International Airport (1180 1st St)
West	Residential (126-130 Route 17K)

Adjacent Property Notes:

Limitations:

☐ None ☒ Overgrown vegetation ☐ Topography

☐ Snow ☒ Size ☐ Material Storage

☐ Unaccompanied During Site Inspection ☐ Access (Note Inaccessible Structures):

LaBella
Powered by partnership.

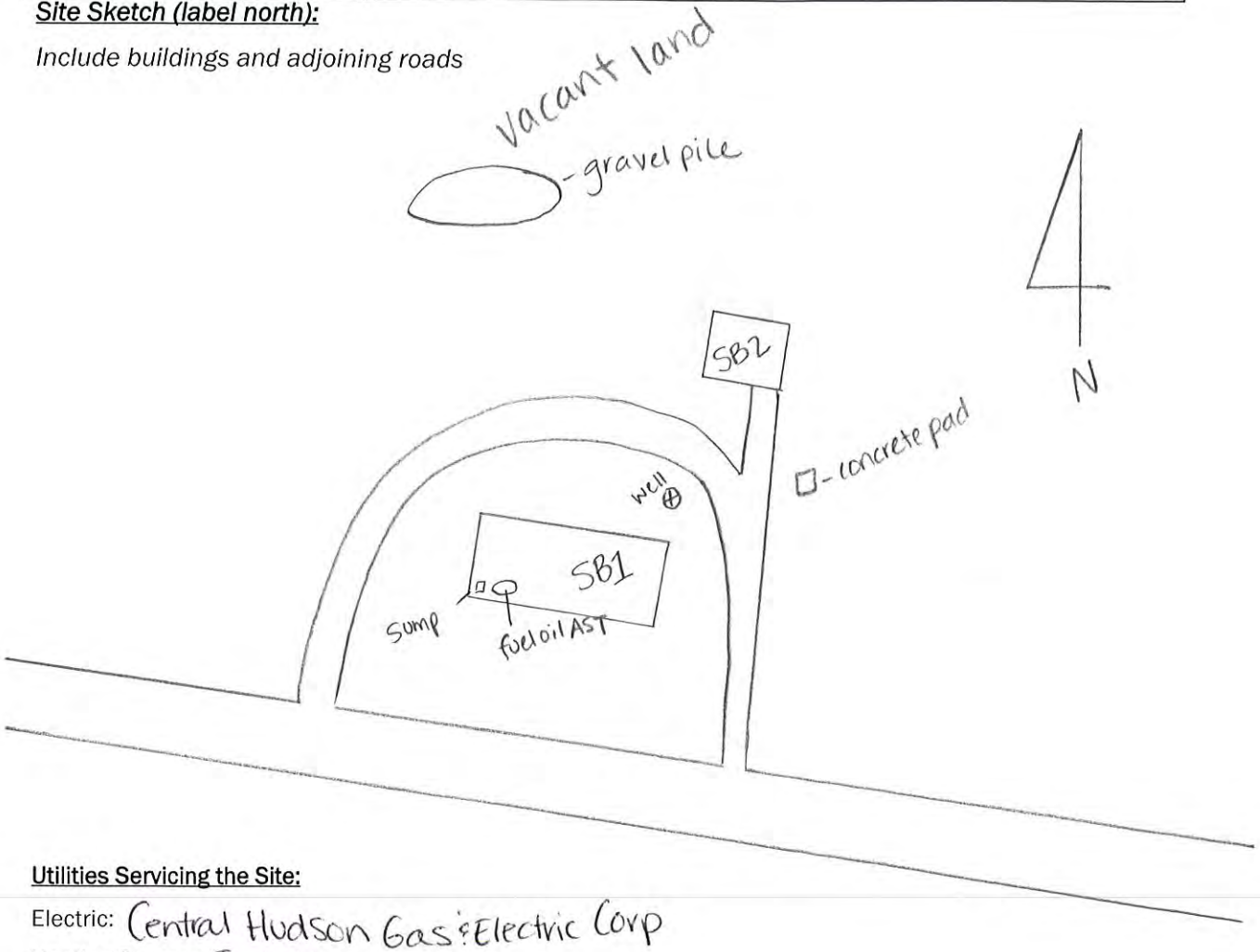
Site Reconnaissance Worksheet

Site Building(s) add extra pages for additional buildings

# of Structures 2	*Date of Construction* SB1&2: 1947
Building Size (sq.ft.) SB1: 2095 SB2: 484	*No. Stories* SB1&2: One
Basement (full/partial)	*Frame* SB1: brick SB2: wood
Building Condition	Fair
Site Tenants and Operations	Vacant

Site Sketch (label north):

Include buildings and adjoining roads



Utilities Servicing the Site:

Electric: Central Hudson Gas & Electric Corp
Heating Source: Fuel Oil
WaterSupply: Private well
Sewer/Septic: Private septic system

LaBella
Powered by partnership.

Site Reconnaissance Worksheet

Petroleum/Hazardous Substance Yes ____ No X

Disposal Receipts (circle one) Yes No N/A

Type	Quantity/Storage Container Type	Location	Staining	Purpose

Additional Notes

Aboveground Storage Tanks Yes X No ____

Note: Location, capacity, contents, usage, in-service (yes/no), fill port location, vent pipe location, leaks/stains/spills in vicinity, storage conditions – under asphalt, vaulted, under grassy area, fuel pumps)

AST Table

#	Capacity	Contents	Location	Storage Conditions	Usage
	~275 gallon	fuel oil	basement	on concrete	heat Site Building 1

Notes:

LaBella
Powered by partnership.

Site Reconnaissance Worksheet

Underground Storage Tanks Yes ____ No X

(i.e., vent pipes, fill ports, pumps, fill port covers)

(Note: Location, Type of Evidence, capacity, contents, usage, in-service (yes/no), fill port location, vent pipe location, leaks/stains/spills in vicinity, storage conditions – under asphalt, vaulted, under grassy area, fuel pumps)

UST Table

#	Capacity	Contents	Location	Storage Conditions	Usage

Evidence of the Potential Removal/Closure of Yes ____ No X

Underground Storage Tanks (e.g., patches in pavement, piping, ect.)

(Note: Location, Type of Evidence, leaks/stains/spills in vicinity)

Strong, Pungent, or Noxious Odors Yes ____ No X

(Note: Type and Source)

Pools of Liquid Likely to Contain Hazardous Substances Yes ____ No X

Or Petroleum Products

(Note: Location, Potential Product/Hazardous Substance(s), Source)

LaBella
Powered by partnership.

Site Reconnaissance Worksheet

Drums Yes ____ No X

(Note: Location, Contents, Quantity, leaks/stains/spills in vicinity)

Unidentified Substances or Containers Yes ____ No X

(Note: Type and Quantity)

Parts Washers Yes ____ No X

(Note: Type – Self-contained or Not, Location, Waste Disposal Receipts)

Oil Water Separator Yes ____ No X

(Note: Location, Discharge Location, Type of Wastewater Discharged to OWS, Age, Service Provider, etc.)

Stains or Corrosion Yes ____ No X

(Note: Location, Potential Product/Hazardous Substance(s), Source)

Floor Drains Yes ____ No X

(Note: Location, Discharge Location, Type of Wastewater Discharged to Drain, Associated Oil/Water Separator)

LaBella
Powered by partnership.

Site Reconnaissance Worksheet

Sumps Yes X No ____

(Note: Location, Discharge Location, Type of Wastewater Discharged to Sump)

A sump was observed in the southwest corner of the basement (SB1) near the fuel oil AST. It is unknown where the sump discharges to.

Equipment Potentially Containing Polychlorinated Bi-phenyls Yes ____ No X

(Note: Location, Type – Pad/Pole Mounted, PCB-containing, Owner, Condition)

Elevators Yes ____ No X

(Note: Location, Hydraulic/Mechanical/Electric, Underground Components, Location of Reservoir)

Lifts/Lift Scars Yes ____ No X

(Note: Location, Hydraulic/Mechanical/Electric, Underground Components, Location of Reservoir)

Stained Soil/Pavement Yes ____ No X

(Note: Location, Apparent Type of Staining, Source)

Stressed Vegetation Yes ____ No X

(Note: Location, Source)

LaBella
Powered by partnership.

Site Reconnaissance Worksheet

Evidence of Solid Waste Disposal and/or Filling Yes ____ No X

(e.g., mounding, piles, ect.)

(Note: Location, Contents, Staining, Odors)

Storm Drains/Ditches Yes ____ No X

(Note: Location, Associated with Wastewater Treatment or Disposal, Discharge Location, Staining, Odors)

Underground Injection Well/Dry Well/Monitoring Wells Yes ____ No X

(Note: Location, Associated with Wastewater Treatment or Disposal, Type of Wastewater Discharged To, Analytical Data Available)

Septic Systems Yes ____ No X

(Note: Location, Direction of Leach Lines, Type of Wastewater Discharged)

Potable Water Wells Yes X No ____

(Note: Location and Analytical Data Available)

A potable water well was observed off the northeast corner of the house (SB1). The well was missing a cap and is damaged.

Appendix 5
Site Representative Interview

EXHIBIT C

Environmental Site Assessment Owner's Disclosure

The following information is to be completed by the owner of the property.

LANDOWNER						
Name:	RED OAK 505 LLC.	Contact:	RUSSELL ALTMAN			
Address:	1400 E 66th AVE					
City:	DENVER	State:	CO	Zip Code:	80229	
Phone:	914-420-0211	Fax:	—	Email:	raltman13@gmail.com	

Site Address:	124 ROUTE 17K				
City:	Newburgh	State:	NY	Zip Code:	12550
Site or Facility Description, Assessor's Parcel No. (if undeveloped land):					

SITE INFORMATION				
Advise the following characteristics of the site:	**Yes**	**No**	**Unk**	**Comments / Details**
Property acreage: 13.9				
Date property developed:			X	
Garage?		X		
Garage floor drains?		X		
Truck wash area?		X		
Dock / warehouse floor drains?			X	
Dry wells?			X	
Sanitary sewer?			X	
Storm sewers?			X	
Septic systems?			X	
Well water systems?	X			
Public water?	X			
Sump systems?			X	
Oil/water separator systems?			X	
Service pits?			X	
Asphalt paving?	X			SOME
Stone paving?		X		
Oil/gas spills on the site?		X		
Underground tanks?			X	
Aboveground tanks?			X	
Were tanks removed from site?			X	
Offsite fill used?			X	
Radon issues?			X	
Asbestos containing materials?			X	
Flood plain?			X	
Wetlands?			X	
Other environmental concerns with site?				

SITE INFORMATION				
Advise uses and activities performed onsite:				
Current use of property:	VACANT, UNDEVELOPED			
Past use of property:	RESIDENTIAL / FARM?			
	Yes	**No**	**Unk**	**Comments / Details**
Was used oil ever used for dust control?		X		
Hazardous wastes generated on site?		X		
Drums or containers stored onsite?		X		
Other environmental concerns?				

Indicate adjacent uses of property (i.e., industrial, commercial residential, roads, rail, undeveloped, etc.):	
North	NE BUSINESS PARK
South	ROUTE 17K
East	HEALEY KIA
West	NE BUSINESS PARK

Advise if the following information is available:	**Yes**	**No**	**Unk**	**Comments / Details**
Real estate appraisal			X	
Locator map			X	
Property survey			X	
Legal description			X	
Title commitment			X	
Geotechnical reports			X	
Environmental assessment or remediation reports			X	
Facility plans			X	
Environmental permits			X	
Inspection reports or notices of violations			X	
Public complaints about property			X	
Other information available?				

Completed by (print):	RUSSELL ALTMAN		
Signed by:	[signature]	Date:	9/9/24

Appendix 6
FOIL and Real Property Information

Property Description Report For: 124 Route 17K, Municipality of Newburgh

No Photo Available

		Status:	Active
		Roll Section:	Taxable
		Swis:	334600
		Tax Map ID #:	95-1-58
		Property Class:	210 - 1 Family Res
		Site:	RES 1
		In Ag. District:	No
		Site Property Class:	210 - 1 Family Res
		Zoning Code:	-
		Neighborhood Code:	41126
Total Acreage/Size:	14.90	**School District:**	Newburg
Land Assessment:	2021 - $40,800	**Total Assessment:**	2021 - $87,500
Full Market Value:	2021 - $309,700		
Equalization Rate:	----	**Property Desc:**	Done By Probate 1/7/92
Deed Book:	12414	**Deed Page:**	1103
Grid East:	606131	**Grid North:**	974833

Area

Living Area:	2,095 sq. ft.	**First Story Area:**	2,095 sq. ft.
Second Story Area:	0 sq. ft.	**Half Story Area:**	0 sq. ft.
Additional Story Area:	0 sq. ft.	**3/4 Story Area:**	0 sq. ft.
Finished Basement:	0 sq. ft.	**Number of Stories:**	1
Finished Rec Room	0 sq. ft.	**Finished Area Over Garage**	0 sq. ft.

Structure

Building Style:	Ranch	**Bathrooms (Full - Half):**	1 - 0
Bedrooms:	3	**Kitchens:**	1
Fireplaces:	1	**Basement Type:**	Full
Porch Type:	Porch-open/deck	**Porch Area:**	36.00
Basement Garage Cap:	0	**Attached Garage Cap:**	0.00 sq. ft.
Overall Condition:	Normal	**Overall Grade:**	Average
Year Built:	1947	**Eff Year Built:**	1946

Owners

Red Oak SOS, LLC
Altman Stage Lighting
57 Alexander St
Yonkers NY 10701

Sales

Sale Date	Price	Property Class	Sale Type	Prior Owner	Value Usable	Arms Length	Addl. Parcels	Deed Book and Page
4/3/2007	$425,000	210 - 1 Family Res	Land & Building	Pitsinos Property Inc	Yes	Yes	No	12414/1103
5/8/2002	$0	210 - 1 Family Res	Land & Building	Pitsinos Athena	No	No	Yes	5892/52

Utilities

Sewer Type:	Private	**Water Supply:**	Private
Utilities:	Electric	**Heat Type:**	Hot wtr/stm
Fuel Type:	Oil	**Central Air:**	No

Improvements

Structure	Size	Grade	Condition	Year
Gar-1.0 det	22 × 22	Average	Normal	1947
Misc. imprv.	500 × 0	Average	Good	1947
Porch-open/deck	36.00 sq ft	Average	Normal	1947

Land Types

Type	Size
Primary	1.00 acres
Residual	13.90 acres

Special Districts for 2021

Description	Units	Percent	Type	Value
FD030-Orange lk fire	0	0%		0
WD001-Consol wtr 1	0	0%		0
WD002-Consol wtr 2	0	0%		0

Exemptions

Year	Description	Amount	Exempt %	Start Yr	End Yr	V Flag	H Code	Own %

Taxes

Year	Description	Amount
2021	County	$3,218.75
2021	School	$6,562.07
2020	County	$3,046.90
2020	School	$6,599.88

*** Taxes reflect exemptions, but may not include recent changes in assessment.**

General Property Description

Prop. Address:	124 ROUTE 17K	Municipality:	TOWN OF NEWBURGH	Town Swis Code:	334600 / ORANGE COUNTY
Owner:	RED OAK SOS LLC	Tax / Map Acct#:	095.000-0001-058.0000000	School Dist:	NEWBURGH
Owner 2:		Print Key:	95-1-58	School Code:	331100
Owner Mailing:	57 ALEXANDER ST	Deed Book / Page:	5892 / 52		
	YONKERS, NY10701	Sub Div:		Phone Number:	
		Misc:			

Structural Characteristics

Bldg Sq Feet:	2095	Built:	1947	Uses As 1:	
1st Floor:	2095	Story Height:	0	Uses As 2:	
2nd Floor:	0	Heat:	HOT WATER	No. Of Bldgs:	
House Type:	RANCH	Fireplaces:	1	Residential Units:	0
Bedrooms:	3.0	Fuel:	OIL	Exterior:	BRICK
Bath:	1.0	Water:	PRIVATE	Garage:	0
Basement:	FULL	Sewer:	PRIVATE	Number Stories:	1.0
Basement SF:	0	Utilities:	ELEC ONLY	Central Air:	NO
Improve 1 / YR:	GAR,1.0 DET 1947	Size 1:	22 X 22	Total SqFT 1:	484
Improve 2 / YR:	MISC. IMPRV. 1947	Size 2:	Dimensions not available	Total SqFT 2:	500
Improve 3 / YR:	PORCH,OPEN 1947	Size 3:	Dimensions not available	Total SqFT 3:	36
Improve 4 / YR:		Size 4:	0 X 0	Total SqFT 4:	0

Land Characteristics

Acreage :	14.90	Land SqFt:	649044		
Class Code:	210	Class Name:	1 FAMILY RES	Lot Size:	0 X 0
East / Longitude:	606131 /	North / Latitude	974833 /		

Tax / Assessment Data

Tax / Map Acct #:	095.000-0001-058.0000000	School Tax:	$6,814.24
Total Assessment:	$87,500.00	County Tax:	$2,725.15
Land:	$40,800.00		
Old Assessment:	$87,500.00	Account #:	0
Assessor Full Market Value:	$292,200.00		

Sales Information

Sales Price:	Sales Date:	Grantor:	Deed Book / Page:	Deed Type:	Deed Valid:	ARMS Length:
$0.00	/ /	PITSINOS PROPERTY IN	5892 / 52			
$425,000.00	04/03/2007	PITSINOS PROPERTY INC	12414 / 1103			
$0.00	05/08/2002	PITSINOS ATHENA	5892 / 52			

Welcome to Town of Newburgh

Online FOIL Submission Form

Contact Info

Title

First Name*
Sierra

Middle Name

Last Name*
Vaverchak

Business Name
LaBella Associates

Phone Number*
518-885-5383

Email*
svaverchak@labellapc.com

Address*
5 McCrea Hill Road

City*
Ballston Spa

State*
New York

Zip*
12020

Request Info 8/30/2021 11:33:19 AM

Subject of Request*

Property/Building records for 124 Route 17K, Newburgh, NY 12550

Date of Records Requested

8/30/2021

Release Method*

Email

Address of Records Requested

124 Route 17K, Newburgh, NY 12550

Description of Records*

See Below

Request Details*

Assessment records current and historical property cards, Records of Environmental Concerns, Building Inspection Records, Records of Tank installation, permits, removals, or closures, Fire Marshall Records, Records of Fires, Code Enforcement Records, Records of leaks or spills, Records of contamination/cleanup/remediation, and Waste Disposal Records.

Address: 124 Route 17K, Newburgh, NY 12550
Tax ID: 95-1-58
Owner: Red Oak SOS, LLC

* indicates a required field

Submit Request

Lisa Ayers

Town of Newburgh
Code Compliance Department
21 Hudson Valley Professional Plaza
Newburgh, NY 12550
(845) 564-7801

01/04/2021

Hudson Search
21 Robert Pitt Road
Monsey, NY 10952

Owner:Red Oak SOS, LLC
Address: 124 Route 17K
SBL# 95-1-58
Title # ANY2020-5285

To Whom it May Concern:

This letter is in answer to your inquiry regarding the above mentioned parcel.

Our files indicate that the above mentioned structure was built prior to the Town adopting the Zoning Ordinances in 1956. Therefore, there is no Certificate of Occupancy for this structure nor is one required.

Please be advised that the above named road is a public road and maintained by the State of New York.

In searching our records we find no other open violations against the property. No inspection of the premises has been performed and the statement concerning our records should not be relied upon as meaning no violations in fact exist.

Our records indicate a permit for an Oil Tank Demo (#21031) from 2007 was closed out as completed. The Detached Garage and Unfinished Basement are part of the original construction.

If there are any further question or concerns regarding this matter, please contact our office at the number above.

Respectfully,

Gerald Canfield
Code Compliance Department

Abstract# AB-2021-005
Code# CO ST

Town of Newburgh
Code Compliance Department
21 Hudson Valley Professional Plaza
Newburgh, NY 12550
(845) 564-7801

01/04/2021

Hudson Search
21 Robert Pitt Road
Monsey, NY 10952

Owner:Red Oak SOS, LLC
Address: 124 Route 17K
SBL# 95-1-58
Title # ANY2020-5285

To Whom it May Concern:

This letter is in answer to your inquiry regarding the above mentioned parcel.

Our files indicate that the above mentioned structure was built prior to the Town adopting the Zoning Ordinances in 1956. Therefore, there is no Certificate of Occupancy for this structure nor is one required.

Please be advised that the above named road is a public road and maintained by the State of New York.

In searching our records we find no other open violations against the property. No inspection of the premises has been performed and the statement concerning our records should not be relied upon as meaning no violations in fact exist.

Our records indicate a permit for an Oil Tank Demo (#21031) from 2007 was closed out as completed. The Detached Garage and Unfinished Basement are part of the original construction.

If there are any further question or concerns regarding this matter, please contact our office at the number above.

Respectfully,

Gerald Canfield
Code Compliance Department

Abstract# AB-2021-005
Code# CO ST

HudsonSearch

21 Robert Pitt Dr.
Suite #210
Monsey, NY 10952

Phone: 845.352.1929
Fax: 646.519.2515
orders@hudsonsearch.com

12/17/2020

Town of Newburgh
Building Department
308 Gardnertot Road
Newburg N.Y. 12550

Title #: ANY2020-5285
Premises: 124 Route 17K
Owner(s): Red Oak SOS, LLC
County: Orange
Municipality: Newburgh
Section: 95
Block: 1
Lot: 58

Enclosed please find our check in the sum of $125.00 for inspection of records.

Please provide a letter containing the following:

1. A statement as to whether or not there are any building violations against the property, along with copies of violations, if any.
2. A certificate of occupancy together with all updates. (Or if built prior to c/o regulations, please specify.) Any/all Open buildingpermits.
3. A statement as to what municipality maintains the street or if it is a private street.

For your convenience we have enclosed a SASE.

Thank you in advance for your prompt attention to this matter.

Very truly yours,

1947
07 - Demo oil tank 21531 - ✓

Leeba Herman
Hudson Search, LLC

Untin bank - orig
det gar orig

Town of Newburgh
Code Compliance Department
308 Gardnertown Road
Newburgh, NY 12550
(845) 564-7801

01/03/2017

Superior Data Services
188 Montague Street
Brooklyn, NY 11201

Owner:Red Oak SOS, LLC
Address: 124 Route 17K
SBL# 95-1-58
Title # ANY ANY20162467Z

To Whom it May Concern:

This letter is in answer to your inquiry regarding the above mentioned parcel.

Our files indicate that the above mentioned structure was built prior to the Town adopting the Zoning Ordinances in 1956. Therefore, there is no Certificate of Occupancy for this structure nor is one required.

Please be advised that the above named road is a public road and maintained by the State of New York.

In searching our records we find no other open violations against the property. No inspection of the premises has been performed and the statement concerning our records should not be relied upon as meaning no violations in fact exist.

Our records indicate a permit for a Demo of an Oil Tank (#21031) from 2007 that was Closed Out as Completed. The Detached Garage and Porch (36 SqFt) are part of the original construction.

If there are any further question or concerns regarding this matter, please contact our office at the number above.

Respectfully,
Gerald Canfield
Code Compliance Department

Abstract# AB-2017-003
Code# CO ST

SUPERIOR DATA SERVICES, INC.

www.superior-data.com

188 MONTAGUE STREET 10th FLOOR
BROOKLYN, NY 11201
TEL: (718) 625-9949 FAX: (347) 896-5551

1471 ROUTE 9 SUITE 203
CLIFTON PARK, NY 12065
TEL: (518) 785-4892 FAX: (518) 785-5086

Title:	**ANY ANY20162467Z**	Ordered:	**12/14/2016**
Premises:	**124 ROUTE 17K**	Cntrl No:	**81365962**
		Muni Fee: ☐	$
County:	**ORANGE**	Tax Class:	**210**
Town/City:	**TOWN OF NEWBURGH**	Village:	
District:	Section: **95**	Block: **1**	Lot(s): **58**
Owner:	**RED OAK SOS, LLC**		Swis: **334600**
Micro Class:	**NEWBURGH**		

MUNICIPAL SEARCHES

INFORMATION TAKEN FROM TITLE #: ANY20148932Z

PLEASE PROVIDE US WITH COPIES OF ANY CERTIFICATE OF OCCUPANCY, CERTIFICATES OF COMPLETION AND/OR COMPLIANCE AND ANY RECORDS OF OPEN BUILDING PERMITS ON FILE WITH REGARD TO THE ABOVE CAPTIONED PREMISES.

PLEASE ADVISE IF YOUR DEPARTMENT HAS ANY RECORD OF FIRE VIOLATIONS REGARDING THE ABOVE CAPTIONED PREMISES.

PLEASE ADVISE IF YOUR DEPARTMENT HAS ANY RECORD OF HOUSING & BUILDING VIOLATIONS REGARDING THE ABOVE CAPTIONED PREMISES.

PLEASE ADVISE IF YOUR DEPARTMENT MAINTAINS THE ABOVE CAPTIONED STREET.
IF NOT, PLEASE ADVISE US IF THIS IS A COUNTY ROAD, STATE ROAD OR PRIVATE ROAD.

THANK YOU IN ADVANCE FOR YOUR ASSISTANCE.

VERY TRULY YOURS,

SUPERIOR DATA SERVICES

1947.
07 demo oil tank. 21031 ✓

det gar
perm 36' > orig.

81365962 1

Town of Newburgh
Code Compliance Department
308 Gardnertown Road
Newburgh, NY 12550
(845) 564-7801

01/23/2014

Superior Data Services
3 West Main Street
Elmsford, NY 10523

Owner:Red Oak SOS, LLC
Address: 124 Route 17K
SBL# 95-1-58
Title # ANY20148932Z

To Whom it May Concern:

This letter is in answer to your inquiry regarding the above mentioned parcel.

Our files indicate that the above named structure was built prior to the Town adopting the Zoning Ordinance in 1956. Therefore, there is no Certificate of Occupancy for this structure, nor is one needed.

Please be advised that the above named road is a public road.

In searching our records we find no other open violations against the property. No inspection of the premises has been performed and the statement concerning our records should not be relied upon as meaning no violations in fact exist.

Our records indicate a Permit (#21031) was issued in 2007 to Remove an Oil Tank this was closed out as COMPLETED on 3/5/2007. The Porch and Detached Garage are part of the original construction.

If there are any further question or concerns regarding this matter, please contact our office at the number above.

Respectfully,

Gerald Canfield
Code Compliance Department

Abstract# AB-2014-035
Code # CO BZ

Fld Rep _____

Typist _____

Proofer _____

Tx Ctn _____

SUPERIOR DATA SERVICES, INC.

WWW.SUPERIOR-DATA.COM

188 Montague Street 10th Floor
Brooklyn, NY 11201
Tel: 718-625-9949
Fax: 718-625-9609

3 West Main Street Suite 202
Elmsford, NY 10523
Tel: 914-347-1636
Fax: 914-347-3163

1471 Route 9 Suite 203
Clifton Park, NY 12065
Tel: 518-785-4892
Fax: 518-785-5086

104 Edwards Ave. Suite 1
Calverton, NY 11933
Tel: 631-727-1308
Fax: 631-727-1309

FIELD FORM

DATE: 1/17/2014

Title: ANY ANY20148932Z
Premises: 124 Route 17K
District:
Company: ANY
Tax Class: 210
Micro Class: Newburgh
MDR #:

Section: 95 **Block:** 1
County: ORANGE
Town/City: Town of Newburgh
Village:
Owner: Red Oak SOS, LLC

Cntrl No: 86007467
Muni Fee:
Lot(s): 58

MUNICIPAL SEARCHES

PLEASE PROVIDE US WITH COPIES OF ANY CERTIFICATE OF OCCUPANCY, CERTIFICATES OF COMPLETION AND/OR COMPLIANCE AND ANY RECORDS OF OPEN BUILDING PERMITS ON FILE WITH REGARD TO THE ABOVE CAPTIONED PREMISES.

PLEASE ADVISE IF YOUR DEPARTMENT HAS ANY RECORD OF FIRE VIOLATIONS REGARDING THE ABOVE CAPTIONED PREMISES.

PLEASE ADVISE IF YOUR DEPARTMENT HAS ANY RECORD OF HOUSING & BUILDING VIOLATIONS REGARDING THE ABOVE CAPTIONED PREMISES.

PLEASE ADVISE IF YOUR DEPARTMENT MAINTAINS THE ABOVE CAPTIONED STREET.
IF NOT, PLEASE ADVISE US IF THIS IS A COUNTY ROAD, STATE ROAD OR PRIVATE ROAD.

THANK YOU IN ADVANCE FOR YOUR ASSISTANCE.

VERY TRULY YOURS,
SUPERIOR DATA SERVICES

1949
Def garage
Pack

21031-07
Remove tank
Completed
3/5/07

TOWN OF NEWBURGH

Crossroads of the Northeast

OLD TOWN HALL
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

CODE COMPLIANCE DEPT.
TELEPHONE 914-564-7801
FAX LINE 914-564-7802

06/19/2000

ABSTRACTERS INFORMATION SERVICES, INC
138-72 QUEENS BLVD
BRIARWOOD, N.Y. 11435
TITLE #0541-812959

LOCATION: 124 ROUTE 17K
SEC-BLK-LOT: 95-1-58.0
OWNER: PITSINOS, ATHENA
SUBJECT: CO, ROAD & VIOLATIONS

To Whom It May Concern:

This letter is in answer to your inquiry regarding the above-mentioned property.

Our files indicate that the above-mentioned structure was built prior to the Town adopting the Zoning Ordinance in 1956. Therefore, there is no Certificate of Occupancy for this structure nor is one required.

Please be advised that the above-mentioned road is a PUBLIC road.

In checking our files, we find no record of any open violations on this property. No inspection of the premises has been performed and the statement concerning our records should not be relied upon as meaning no violation in fact exists.

Our records indicate the Detached Garage are part of the original construction therefore no CO is needed for this structure.

Yours Truly,

Gerald Canfield
Code Compliance Supervisor

GC: ams
Ref: 0-307

TITLE NO. 0541-812959

ABSTRACTERS' INFORMATION SERVICE, INC.

138-72 QUEENS BOULEVARD BRIARWOOD, N.Y. 11435
(718) 291-5900 (516) 742-2290 (914) 761-4451 FAX (718) 291-6681

CERTIFICATE OF OCCUPANCY SEARCH

DATE: 06/13/00
PREMISES: 124 RTE 17K , NEWBURGH
COUNTY OF ORANGE TOWN: NEWBURGH
SECTION: 95 BLOCK: 1 LOT: 58
OWNER: PITSINOS, ATHENA

MUNICIPAL REQUEST FORM

Please provide our office with the following on the above mentioned premises.

X _____ Copies of existing COs & open permits (if any).

_____ Street Maintained by State, County, City, Town, Village or Private

X _____ Pending Building Violations On File - None, See Attached

_____ Pending Fire Violations On File - None, See Attached

_____ Pending Emergency Repair Liens - None, See Attached

NOTE: Searches that are marked with an X are the only searches we are requesting.

Please return this form with your response.

DATE OF SEARCH _____ TOTAL FEE FOR SEARCHES _____

Very truly yours,

ABSTRACTERS' INFORMATION SERVICE INC.

no Left

00-307

1947

NUBRIC

TOWN OF NEWBURGH

Crossroads of the Northeast

OLD TOWN HALL
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

CODE COMPLIANCE DEPT.
TELEPHONE 845-564-7801
FAX LINE 845-564-7802

03/27/2007

ABSTRACTERS INFORMATION SERVICES
1111 MARCUS AVENUE
LAKE SUCCESS, N.Y. 11042
TITLE # 0103-ANY 20074846

LOCATION: 124 ROUTE 17K
SEC-BLK-LOT: 95-1-58.0-0
OWNER: PITSINOS PROPERTY
SUBJECT: CO, ROAD & VIOLATIONS

To Whom It May Concern:

This letter is in answer to your inquiry regarding the above-mentioned property.

Our files indicate that the above-mentioned structure was built prior to the Town adopting the Zoning Ordinance in 1956. Therefore, there is no Certificate of Occupancy for this structure nor is one required.

Please be advised that the above-mentioned road is a public road and is maintained by the State of New York.

In checking our files, we find no record of any open violations on this property. No inspection of the premises has been preformed and the statement concerning our records should not be relied upon as meaning no violations in fact exists.

Our records indicate the porch, garage and unfinished basement are part of the original construction.

Yours Truly,

Gerald Canfield
Code Compliance Supervisor

GC:amsa
Ref: 7-209

TITLE NO. 0103-ANY20074846

ABSTRACTERS' INFORMATION SERVICE, INC.

1111 MARCUS AVENUE – SUITE MZ214
LAKE SUCCESS, N.Y. 11042
PHONE (516) 918-4600 FAX (516) 918-4540

CERTIFICATE OF OCCUPANCY REPORT REQUEST

FIELD COPY - *

DATE: 3/16/2007

PREMISES: STATE ROUTE 17K, NEWBURGH

COUNTY: ORANGE TOWN OF NEWBURGH

SECTION: 95 BLOCK: 1 LOT: 58

OWNER: PITSINOS PROPERTY INC. TAX CLASS: 210

Municipal Request Form

Please provide our office with the following on the above mentioned premises.

[X] Copies of existing COs & open and/or closed permits (if any).

[X] Street maintained by State, County, City, Town, Village or Private

[X] Pending Building Violations on file – None, See Attached

[X] Pending Fire Violations on file – None, See Attached

[ ] Pending Emergency Repair Liens – None, See Attached

Note: Searches that are marked with an X are the only searches we are requesting.

Please return this form with your response.

Date of Search _____ Total Fee for Searches 110.

Very truly yours,

A.I.S.

TOWN OF NEWBURGH
~Crossroads of the Northeast~

CODE COMPLIANCE DEPARTMENT
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

TELEPHONE 845-564-7801
FAX LINE 845-564-7802

ORDER TO REMEDY

Date: 05/29/2019

Red Oak SOS, LLC
57 Alexander St
Yonkers, NY 10701

SEC-BLK-LOT: 95-1-58

COMPLAINT NO: 19-0215

LOCATION: 124 Route 17K, Newburgh

PLEASE TAKE NOTICE, there exists a violation at the location described above, in that the above named individual(s) did commit or allowed to exist the following offense:
Vacant property-overgrown grass and brush. Fire hydrant is covered by the overgrown grass

Based upon the following:

In that on 05/28/2019 at 9:25am the defendant did:
Allow the grass/weeds to become overgrown in excess of the ten (10) inch limit set forth in the New york State and Town of Newburgh Building Codes.

Which is in violation of:
2015 ICC\Property Maintence Code\Chapter 3 - General Requirements\Section 301 - General\301.3 Vacant structures and land.
Which provides as follows:
Vacant structures and premises thereof or vacant land shall be maintained in a clean, safe, secure and sanitary condition as provided herein so as not to cause a blighting problem or adversely affect the public health or safety.
Which is in violation of:
2015 ICC\Property Maintence Code\Chapter 3 - General Requirements\Section 302 - Exterior Property Areas\302.4 Weeds.
Which provides as follows:
302.4 Weeds.
Premises and exterior property shall be maintained free from weeds or plant growth in excess of [JURISDICTION TO INSERT HEIGHT IN INCHES]. Noxious weeds shall be prohibited. Weeds shall be defined as all grasses, annual plants and vegetation, other than trees or shrubs provided; however, this term shall not include cultivated flowers and gardens.

Upon failure of the owner or agent having charge of a property to cut and destroy weeds after service of a notice of violation, they

shall be subject to prosecution in accordance with Section 106.3 and as prescribed by the authority having jurisdiction. Upon failure to comply with the notice of violation, any duly authorized employee of the jurisdiction or contractor hired by the jurisdiction shall be authorized to enter upon the property in violation and cut and destroy the weeds growing thereon, and the costs of such removal shall be paid by the owner or agent responsible for the property

Which is in violation of:

Town of Newburgh Municipal Code\Chapter 95 - Dumpsters and Garbage\95-9 Duties of Owner, Prohibited Acts\95-9 Duties of Owner **Which provides as follows:**

§ 95-9

Duties of owner; prohibited acts.

A.Any person being the owner of real property in the Town of Newburgh shall be required to cut, trim or remove brush, grass, rubbish or weeds or to spray, cut, trim, remove or destroy poisonous shrubs or weeds upon his lands when ordered to do so by the Code Enforcement Officer.

B.No person being the owner of real property in the Town of Newburgh shall permit or maintain any growth of grass or weeds or other obnoxious growth to a height on average of more than 10 inches on any part of said property, whether occupied or unoccupied, or on the area between the property line of an adjacent public highway or sidewalk and the pavement edge of the road.

C.No person being the owner of real property in the Town of Newburgh shall permit, maintain, deposit, scatter or cause to accumulate over the premises or private property any rubbish.

Which is in violation of:

Town of Newburgh Municipal Code\Chapter 95 - Dumpsters and Garbage\95-10 Service of notice **Which provides as follows:**

A. Notice shall be served upon such owner or owners by certified mail, addressed to his or their last known address, and/or posting of said notice on the premises and mailing a copy of said notice to the owner at the address or addresses as recorded in the Sole Assessor's office on the same day as posted. The notice shall contain a general description of the property, a statement of the particulars with regard to the condition of the violation existing upon the premises and an order requiring that the violation be abated. The notice shall specify a time, not less than 10 days after the service thereof, within which the owner served with such notice shall complete the abatement of the violation existing on such premises as specified in the notice. The notice shall further state that, in the event that the cited condition is not eliminated within the time specified in the notice, the Town shall undertake to enter upon the property, if necessary, to abate the condition of the violation specified in such notice and assess the cost of such removal against said property pursuant to the provision set forth in § 95-11 of this article.

B. Service of notice upon any owner of land, or the designated person to receive process as provided by law, shall suffice for the purposes of this section.

YOU ARE THEREFORE DIRECTED AND ORDERED to comply with the law and to remedy the condition above mentioned forthwith on or before 6/12/2019

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YOU ARE THEREFORE DIRECTED AND ORDERED to comply with the law and to remedy the condition above mentioned forthwith on or before 6/12/2019

For the purposes of assessing fines/penalties, your violation shall be deemed to have occurred as of 5/28/2019 3:26:42 PM. Please Note: A violation of the above code provision is punishable by a fine/penalty not to exceed two hundred fifty ($250.00) or imprisonment for a period not to exceed six (6) months. Each week that a violation continues shall be deemed a separate offense.

Mark Bethea , Code Compliance Dept.

TOWN OF NEWBURGH

~Crossroads of the Northeast~

CODE COMPLIANCE DEPARTMENT
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

TELEPHONE 845-564-7801
FAX LINE 845-564-7802

NOTICE OF COMPLAINT

DATE: 05/28/2019

TO: Red Oak SOS, LLC
57 Alexander St
Yonkers , NY10701

SEC-BLK-LOT: 95-1-58

COMPLAINT NO: 19-0215

LOCATION: 124 Route 17K, Newburgh, NY 12550

PLEASE TAKE NOTICE, a complaint has been registered against the location described above, in that the above named individual(s) did commit or permit to occur the following offense:

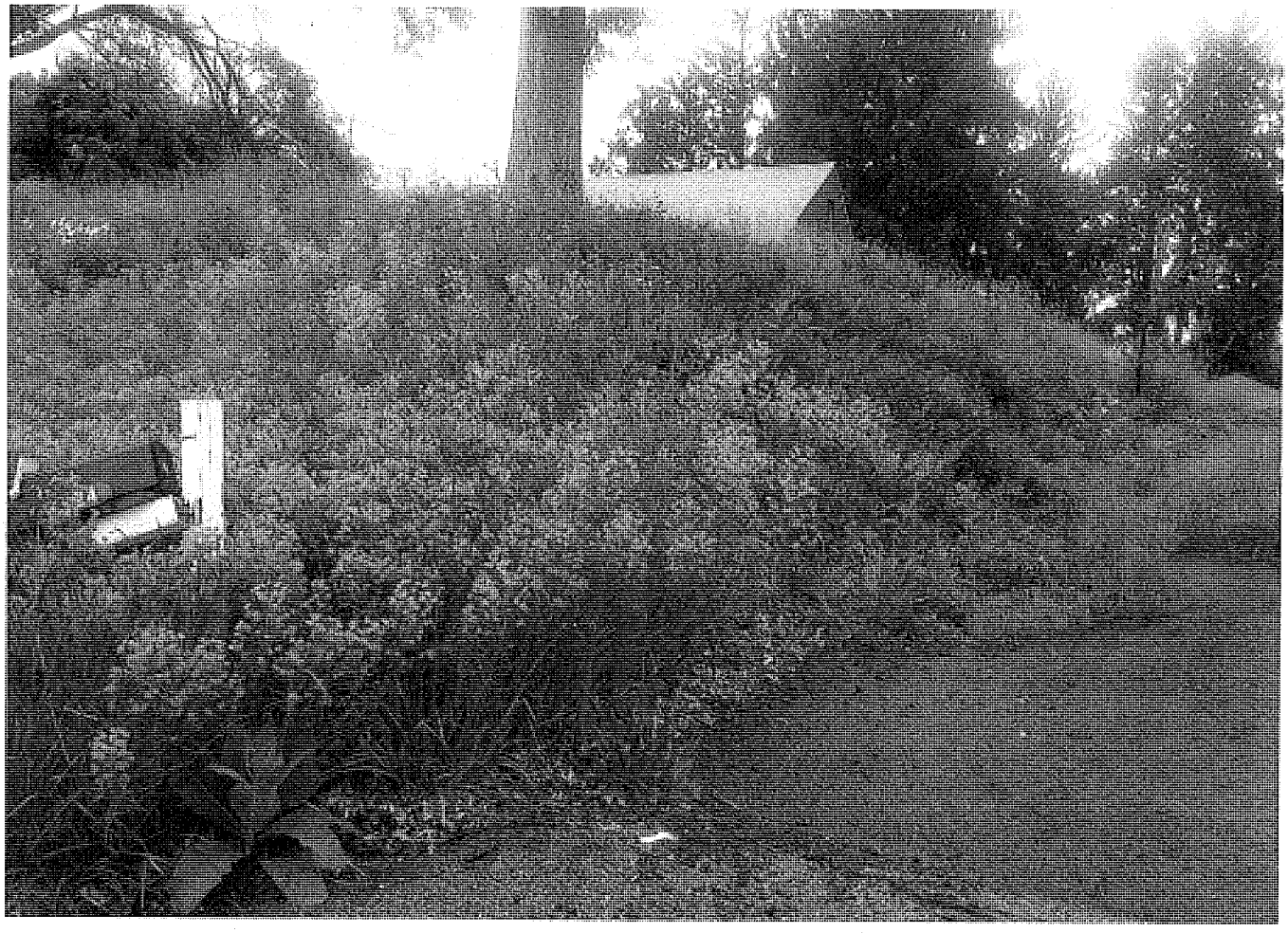
Vacant property-overgrown grass and brush. Fire hydrant is covered by the overgrown grass

YOU ARE THEREFORE DIRECTED AND ORDERED to contact this office immediately to arrange for an inspection of the above described condition.

Failure to promptly comply with this directive may result in a fine or imprisonment or both.

Mark Bethea , Code Compliance


124 Rt. 17K



TOWN OF NEWBURGH
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

GERALD F. CANFIELD
CODE COMPLIANCE SUPERVISOR
TELEPHONE: (845) 564-7801
FAX LINE: (845) 564-7802

Permit No: 0-21031

File Date: 03/02/2007
Expire Date: 09/01/2008

BUILDING PERMIT

SEC-BLK-LOT: 95-1-58

Permit Fee: $50.00
C.O. Fee: $0.00

A permit is hereby given by the Building Department, TOWN OF NEWBURGH, ORANGE COUNTY, N.Y., for the structure described herein:

Owner's Name: PITSINOS/GRIGORAKIS
Address: 124 RTE 17 K NEWBURGH NY 12550

Architect's Name:
Address:

Builder's Name: MILLER ENVIRONMENTAL GROUP (845) 569-1200
Address: 501 TEMPLE HILL RD. NEW WINDSOR NY 12553

Location of Structure: 124 RTE 17K NEWBURGH, NEW YORK 12550

Material: MASONRY No. Stories: 0.0 No. Families: 0

Dim. of Stru.: No. Bedrooms: 0 No. Toilets: 0

Use of Stru.: DEMO OIL TANK Dim. of Lot:

Census Code: No. Bathrooms: 0.0 Heating Plant:

Remarks: RECEIPT #48006 UNDERGROUND TANK REMOVAL

Appx. Cost: $0.00

1. I am familiar with the Zoning and Building Ordinance of the TOWN OF NEWBURGH, and do hereby agree to abide by them.
2. The information stated above is correct and accurate.

Signature of Applicant

CODE COMPLIANCE DEPARTMENT

IMPORTANT

1. A permit under which no work has commenced within six (6) months after issuance, shall expire by limitation, and a new permitmust be secured before work can begin.
2. It is the responsibility of the owner and/or contractorto comply with all applicable town ordinances and to call for the requiredinspections at least one day in advance.

SEPTIC PERMIT:

Permit No: 0-21031

Insurance

TOWN OF NEWBURGH, ORANGE COUNTY, N.Y.

50.00

Examined 3/1 20 07

Approved 3/1 20 07 JC

Disapproved a/c

Permit No. #21031-07

CODE COMPLIANCE DEPT
MAR 1 3
7-98

Old Town Hall
308 Gardnertown Rd.
Newburgh, NY 12550
Telephone: Area Code 845-564-7801
FAX Telephone: 845-564-7802

CC # 1923

CC#07 #0006

Demo / Removal underground oil tank

APPLICATION FOR BUILDING PERMIT

Pursuant to New York State Building Code and Town Ordinances

Date March 1 20 07

INSTRUCTIONS

a. This application must be completely filled in by typewriter or in ink and submitted to the Building Inspector.

b. Plot plan showing location of lot and buildings on premises, relationship to adjoining premises or public streets or areas, and giving a detailed description of layout of property must be drawn on the diagram which is part of this application.

c. This application must be accompanied by a complete set of plans, if a commercial building, showing proposed construction and complete set of specifications. Plans and specifications shall describe the nature of the work to be performed, the materials and equipment to be used and installed and details of structural, mechanical and plumbing installations.

d. The work covered by this application may not be commenced before the issuance of Building Permit.

e. Upon approval of this application, the Building Inspector will issue a Building Permit to the applicant together with approved set of plans and specifications. Such permit and approved plans and specifications shall be kept on the premises, available for inspection throughout the progress of the work.

f. No building shall be occupied or used in whole or in part for any purpose whatever until a Certificate of Occupancy shall have been granted by the Building Inspector.

APPLICATION IS HEREBY MADE to the Building Inspector for the issuance of a Building Permit pursuant to the New York Building Construction Code Ordinances of the Town of Newburgh for the construction of buildings, additions or alterations, or for removal or demolition or use of property, as herein described. The applicant agrees to comply with all applicable laws, ordinances and regulations.

PRINT NAME OF APPLICANT Miller Environmental Group 569-1200 Ext 27

Mark Baier Project Manager 501 Temple Hill Rd New Windsor
(Signature of Applicant) (Address of Applicant)

TOWN OF NEWBURGH

Crossroads of the Northeast

OLD TOWN HALL
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

ENFORCEMENT OFFICER
BUILDING AND ZONING INSPECTOR
TELEPHONE 914-564-7801
FAX LINE 914-564-7802

IMPORTANT NOTICE

BEFORE A BUILDING PERMIT FOR A ONE OR TWO FAMILY DWELLING CAN BE OBTAINED, THE FOLLOWING ITEMS MUST BE SUBMITTED ----- **NO EXCEPTIONS**.

1. Proof of ownership of parcel (deed or letter from your attorney is acceptable).
2. Blueprints of the actual house being built (only slight modifications are acceptable). Blueprints must be stamped by a New York State Professional Engineer or Architect.
3. Whenever plans are required for "modular construction" – They shall be specifically applicable for the actual construction. Multiple choice plans or a package of typical plans shall not be acceptable.
4. A septic design by a New York State Engineer or a Land Surveyor so licensed shall be required.
5. A COMPLETED building application showing building setbacks to SCALE. Also show septic and well locations (if applicable).

DUE TO THE LARGE INCREASE OF SINGLE FAMILY HOUSING STARTS, IT IS VERY IMPORTANT THAT THESE ITEMS BE SUBMITTED IN COMPLETED FORM SO THAT PERMIT PROCESS CAN GO SMOOTHLY FOR YOU AND THIS OFFICE.

Responsibility for Private Approaches to Town Highways

Section 213 of the Highway Law provides as follows:

"The owner or occupants of lands shall construct and keep in repairs all approaches or driveways from the town highway, under the direction of the town superintendent, and it shall be unlawful for such owner or occupant of lands to fill up any ditch or place any material of any kind or character in any ditch so as to in any manner obstruct or interfere with the purposes for which it was made."

PLEASE CONTACT
Telephone 561-2177

Darrell Benedict, Highway Superintendent

Note: This should be done before starting work, if this paper is not signed off by the Highway Department, no Certificate of Occupancy will be issued.

** State whether applicant is owner, lessee, agent, architect, engineer or builder: _____

** Name of Owner of Premises: GRigoRakis

** If applicant is a CORPORATION, SIGNATURE of duly authorized officer.

_____
(NAME AND TITLE OF CORPORATE OFFICER)

1. Location of land on which proposed work will be done: # 124 Route 17 K

Mailing Address: (#) 124 Route 17 K Newburgh

Subdivision Name: _____ Lot # _____

Section 95 Block: 1 Lot: 58

2. State existing use and occupancy of premises and intended use and occupancy of proposed construction:

a. Existing use and occupancy Home

b. Intended use & occupancy of proposed addition or alteration: _____

c. Name of business: _____

3. Nature of work: (please check which is applicable)

New Building: ____ Addition: ____ Alteration: ____ Demolition: ____ Removal: X

Repair: ____ Fireplace or Stove: ____ Sign: ____ Shed: ____ Deck: ____

Garage: ____ Other: Tank Removal

3.a. Type of Construction Material: ( ) Wood ( ) Steel (X) Masonry ( ) Other _____

3.b. Number of: Toilets: ____ Sinks: ____ Residential Bathrooms: ____ Bedrooms: ____

4 Estimated cost of construction _____

COMMERICAL : NEW

1) $300 Base fee
2) ~~.20~~ 50¢ cents per square foot
3) $150 septic permit (new)
4) $100 C.O.
5) $200 starting work with out a permit

RESIDENTIAL; NEW

1) $200 Base fee
2) ~~.25~~ 50¢ cents per square foot
3) $100 septic permit (new)
4) $50 C.O.
5) $50 starting work with out a permit

RES & COMM. / additions,alterations,garages,decks,fireplaces,etc.

1) $10.00 per thousand of the estimated cost (labor and materials)
2) $25.00 C.O.
3) $40.00 septic repairs

5. If Dwelling, Number of Dwelling Units: _____

   Number of Dwelling Units Each Floor: _____

   If GARAGE, Number of Cars: _____

6. If BUSINESS, commercial or Mixed Occupancy, SPECIFY nature and extent of EACH TYPE OF USE

   _____

7. Dimension of EXISTING STRUCTURE, if any: Front: _____ Rear: _____

   Depth: _____ Height: _____ Number of Stories: _____

8. Dimensions of ENTIRE NEW CONSTRUCTION: Front: _____ Rear: _____

   Depth: _____ Height: _____ Number of Stories: _____

9. Dimensions of SAME STRUCTURE WITH ADDITIONS: Front: _____ Rear: _____

   Depth: _____ Height: _____ Number of Stories: _____

10. Size of Lot: Front: _____ Rear: _____ Depth: _____ IS THIS A CORNER LOT? _____

    Setback of proposed structure to: Front Yard _____ Rear Yard _____ Side Yard _____

11. Zone or use district in which premises are situated: _____

12. Does proposed construction VIOLATE any ZONING LAW, ORDINANCE, or REGULATION? _____

13. Name of Compensation Insurance Carrier: (Dept. needs Copy of Insurance)

    Number of Policy: _____ Date of Expiration: _____

14. NAME of OWNER OF PREMISES: Pitsinos / Grigoratis

    Address: 124 Phone No. _____

    NAME OF ARCHITECT: _____

    Address: _____

    Phone No./Area Code _____

    NAME OF CONTRACTOR: Miller Environmental Group

    Address: 501 Temple Hill Rd New Windsor N.Y.

    Phone No./Area Code 845 - 569 - 1200

15. WILL THERE BE ANY NEW ELECTRICAL INSTALLATION? _____

16. Type of Heat: Oil Fired _____ Natural Gas _____ L.P. Gas _____ Forced Hot Air _____

Hot Water Baseboard _____

17. IMPORTANT: DO NOT POUR FOOTINGS UNTIL THE LOCATION OF BUILDING ON LOT, AND SOIL HAS BEEN INSPECTED.

18. DEFER BACKFILLING UNTIL WATERPROOFING OF FOUNDATION IS APPROVED BY DEPARTMENT.

19. WALLS NOT TO BE COVERED UNTIL DEPARTMENT INSPECTION IS MADE.

20. BEFORE A CERTIFICATE OF OCCUPANCY CAN BE ISSUED, A CERTIFIED SURVEY MUST BE FILED. (May be waived.)

All work involved with this building permit application must conform to all the requirements of the Town of Newburgh Zoning code and Title IXX Building Code of New York State and the Residential Code of New York State.

NOTICE

You may be required to obtain additional permits for the construction of your project/building. These additional permits may include one or more of the following:

1. Sewer Permit (Sewer Department – 311 Rte. 32 / 564-7803):

   Construction of sanitary sewer facilities and connection to the Town of Newburgh sewer system requires a permit from the Town of Newburgh Sewer Department. All construction shall conform to the latest regulations of the NYSDEC and the Town of Newburgh. All work must be inspected and approved prior to being placed in service.

2. Water Permit (Water Department – 311 Rte. 32 / 564-7813):

   Construction of potable water facilities and connection to the Town of Newburgh water system requires a permit from the Town of Newburgh Water Department. All construction shall conform to the latest regulations of the NYSDOH and the Town of Newburgh. All work must be inspected and approved prior to being placed in service.

3. Road Opening Permit (Highway Department – 90 Gardnertown Road / 561-2177):

   Any work within the Town Right-of-Way including the installation of sewer or water utilities, a road cut or a new driveway access requires a permit from the Town of Newburgh Highway Department. All construction shall conform to the requirements of the Town of Newburgh Highway Department. All work must be inspected and approved by the Highway Superintendent or his designated representative.

4. Fire Suppression System Permit (Fire Inspector – 308 Gardnertown Road / 564-5260):

   Installation of a Fire Suppression System as required by the Town Fire Sprinkler Ordinance requires approval from the Town of Newburgh Fire Inspector. The installation of a fire suppression system shall conform to the latest regulations of NFPA and the Town of Newburgh. All work must be inspected and approved prior to being placed in service.

5. Cross Connection (Backflow) Control (Water Supply Dept. – 311 Rte. 32 / 564-7803):

   All commercial and industrial buildings connected to the Town of Newburgh Consolidated Water Distribution System must install an approved backflow prevention valve. Approval of the valve is by the Orange County Department of Health through the Town of Newburgh Water Supply Superintendent. An application and engineer's report are required for approval.

IMPORTANT: The Town of Newburgh Building Department cannot and will not issue a Certificate of Occupancy unless and until final inspections and approvals have been received from all other involved Town Departments. It is the responsibility of the applicant to coordinate his work with other involved Town Departments and to obtain the required approvals.

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/2/2006

PRODUCER (215) 567-6300
The Graham Company
The Graham Building
1 Penn Square West
Philadelphia, PA 19102

INSURED Miller Environmental Group Inc.
538 Edwards Ave.
Calverton, NY 11933-

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: American International Specialty Lines Ins.	26883
INSURER B: Commerce & Industry Insurance Company	19410
INSURER C: American Home Assurance Company	19380
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR [X] Pollution Per Occurrence [X] Professional Claims Made GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC	1530908	10/31/2006	10/31/2007	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 100,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B		AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS [X] MCS-90 Included	CA7578847	10/31/2006	10/31/2007	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
		GARAGE LIABILITY [ ] ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
A		EXCESS/UMBRELLA LIABILITY [X] OCCUR [ ] CLAIMS MADE [ ] DEDUCTIBLE [ ] RETENTION $	1530946	10/31/2006	10/31/2007	EACH OCCURRENCE AGGREGATE	$ 9,000,000 $ 9,000,000
C		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC5310859	10/31/2006	10/31/2007	[X] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
		OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER

Sample Certificate

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

BUILDING INSPECTION WORKSHEET
**** FOR OFFICE USE ONLY ****

LOCATION: 124 RTE 17K NEWBURGH, NEW YORK 12550 FEE: 50.00

PERMIT:21031 SEC-BLK-LOT: 95-1-58 DATE: 03/02/2007

TYPE: DEMO OIL TANK COST: 0.00 EXP DATE: 09/01/2008

OWNER'S NAME: PITSINOS/GRIGORAKIS PHONE:
124 RTE 17 K NEWBURGH NY 12550

BUILDER'S NAME: MILLER ENVIRONMENTAL GROUP PHONE:(845) 569-1200
501 TEMPLE HILL RD. NEW WINDSOR NY 12553

SUB-DIVISION: _____

	APPROVED	DISAPPR	INSP
1. EXCAVATING FOR FOOTINGS.....			
2. WALL INSPECTION.....			
3. PLUMBING UNDER SLAB.....			
4. WATER PROOF fOUNDATION.....			
5. FRAMING & ROUGHING.....			
6. PLUMBING & ROUGHING.....			
7. INSULATION.....			
8. SEPTIC/SEWER.....			
9. WATER TAPPING.....			
10. ELECTRICAL INSPECTION.....			
11. TOWN HIGHWAY APPROVAL.....			
12. ZONING - PLOT PLAN.....			
13. FINAL INSPECTION FOR C.O.....	3/5/07		

Closed out Completed 3/5/07

PROVISIONAL C.O.: _____ -OR- FULL C.O.: _____

REMARKS: _____

TOWN OF NEWBURGH
~Crossroads of the Northeast~

CODE COMPLIANCE DEPARTMENT
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

TELEPHONE 845-564-7801
FAX LINE 845-564-7802

ORDER TO REMEDY

Date: 05/31/2018

Red Oak SOS, LLC
57 Alexander St
Yonkers, NY 10701

SEC-BLK-LOT: 95-1-58

COMPLAINT NO: 18-0162

LOCATION: 124 Route 17K, Newburgh

PLEASE TAKE NOTICE, there exists a violation at the location described above, in that the above named individual(s) did commit or allowed to exist the following offense: Vacant property-very overgrown grass/brush

Based upon the following:

In that on 05/30/2018 at 9:12am the defendant did:
Allow the grass and brush to become overgrown in violation of the New York State and Town of Newburgh Building Codes.

Which is in violation of:
2015 ICC\Property Maintence Code\Chapter 3 - General Requirements\Section 302 - Exterior Property Areas\302.4 Weeds.
Which provides as follows:
302.4 Weeds.
Premises and exterior property shall be maintained free from weeds or plant growth in excess of [JURISDICTION TO INSERT HEIGHT IN INCHES]. Noxious weeds shall be prohibited. Weeds shall be defined as all grasses, annual plants and vegetation, other than trees or shrubs provided; however, this term shall not include cultivated flowers and gardens.

Upon failure of the owner or agent having charge of a property to cut and destroy weeds after service of a notice of violation, they shall be subject to prosecution in accordance with Section 106.3 and as prescribed by the authority having jurisdiction. Upon failure to comply with the notice of violation, any duly authorized employee of the jurisdiction or contractor hired by the jurisdiction shall be authorized to enter upon the property in violation and cut and destroy the weeds growing thereon, and the costs of such removal shall be paid by the owner or agent responsible for the property

Which is in violation of:
Town of Newburgh Municipal Code\Chapter 95 - Dumpsters and Garbage\95-9 Duties of Owner, Prohibited Acts\95-9 Duties of Owner **Which provides as follows:**
§ 95-9
Duties of owner; prohibited acts.

A.Any person being the owner of real property in the Town of Newburgh shall be required to cut, trim or remove brush, grass, rubbish or weeds or to spray, cut, trim, remove or destroy poisonous shrubs or weeds upon his lands when ordered to do so by the Code Enforcement Officer.

B.No person being the owner of real property in the Town of Newburgh shall permit or maintain any growth of grass or weeds or other obnoxious growth to a height on average of more than 10 inches on any part of said property, whether occupied or unoccupied, or on the area between the property line of an adjacent public highway or sidewalk and the pavement edge of the road.

C.No person being the owner of real property in the Town of Newburgh shall permit, maintain, deposit, scatter or cause to accumulate over the premises or private property any rubbish.

Which is in violation of:

Town of Newburgh Municipal Code\Chapter 95 - Dumpsters and Garbage\95-10 Service of notice **Which provides as follows:**

A. Notice shall be served upon such owner or owners by certified mail, addressed to his or their last known address, and/or posting of said notice on the premises and mailing a copy of said notice to the owner at the address or addresses as recorded in the Sole Assessor's office on the same day as posted. The notice shall contain a general description of the property, a statement of the particulars with regard to the condition of the violation existing upon the premises and an order requiring that the violation be abated. The notice shall specify a time, not less than 10 days after the service thereof, within which the owner served with such notice shall complete the abatement of the violation existing on such premises as specified in the notice. The notice shall further state that, in the event that the cited condition is not eliminated within the time specified in the notice, the Town shall undertake to enter upon the property, if necessary, to abate the condition of the violation specified in such notice and assess the cost of such removal against said property pursuant to the provision set forth in § 95-11 of this article.

B. Service of notice upon any owner of land, or the designated person to receive process as provided by law, shall suffice for the purposes of this section.

YOU ARE THEREFORE DIRECTED AND ORDERED to comply with the law and to remedy the condition above mentioned forthwith on or before 6/20/2018

YOU ARE THEREFORE DIRECTED AND ORDERED to comply with the law and to remedy the condition above mentioned forthwith on or before 6/20/2018

YOU ARE THEREFORE DIRECTED AND ORDERED to comply with the law and to remedy the condition above mentioned forthwith on or before 6/20/2018

For the purposes of assessing fines/penalties, your violation shall be deemed to have occurred as of 5/30/2018 11:06:33 AM. Please Note: A violation of the above code provision is punishable by a fine/penalty not to exceed two hundred fifty ($250.00) or imprisonment for a period not to exceed six (6) months. Each week that a violation continues shall be deemed a separate offense.

Mark Bethea , Code Compliance Dept.

TOWN OF NEWBURGH

~Crossroads of the Northeast~

CODE COMPLIANCE DEPARTMENT
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550

TELEPHONE 845-564-7801
FAX LINE 845-564-7802

NOTICE OF COMPLAINT

DATE: 05/30/2018

TO: Red Oak SOS, LLC
57 Alexander St
Yonkers , NY10701

SEC-BLK-LOT: 95-1-58

COMPLAINT NO: 18-0162

LOCATION: 124 Route 17K, Newburgh, NY 12550

PLEASE TAKE NOTICE, a complaint has been registered against the location described above, in that the above named individual(s) did commit or permit to occur the following offense:

Vacant property-very overgrown grass/brush

YOU ARE THEREFORE DIRECTED AND ORDERED to contact this office immediately to arrange for an inspection of the above described condition.

Failure to promptly comply with this directive may result in a fine or imprisonment or both.

_____

Mark Bethea , Code Compliance

Image Mate Online

Navigation GIS Map Tax Maps | DTF Links 124 B1.17K Help Log In

Residential

Property Info
Owner/Sales
Inventory
Improvements
Tax Info
Report
Comparables

Municipality of Newburgh

SWIS:	334600	Tax ID:	95-1-58

Ownership Information

Name	Address
Red Oak SOS, LLC	Altman Stage Lighting 57 Alexander St Yonkers NY 10701

Sale Information

Sale Date	Price	Property Class	Sale Type	Prior Owner
4/3/2007	$425,000	210 - 1 Family Res	Land & Building	Pitsinos Property Inc
	Value Usable	Arms Length	Deed Book	Deed Page
	Yes	Yes	12414	1103

Sale Date	Price	Property Class	Sale Type	Prior Owner
5/8/2002	$0	210 - 1 Family Res	Land & Building	Pitsinos Athena
	Value Usable	Arms Length	Deed Book	Deed Page
	No	No	5892	52

Additional Parcels Involved in Sale	95-1-64 in Newburgh

Photographs

No Photo Available

Pictometry Connect

Documents

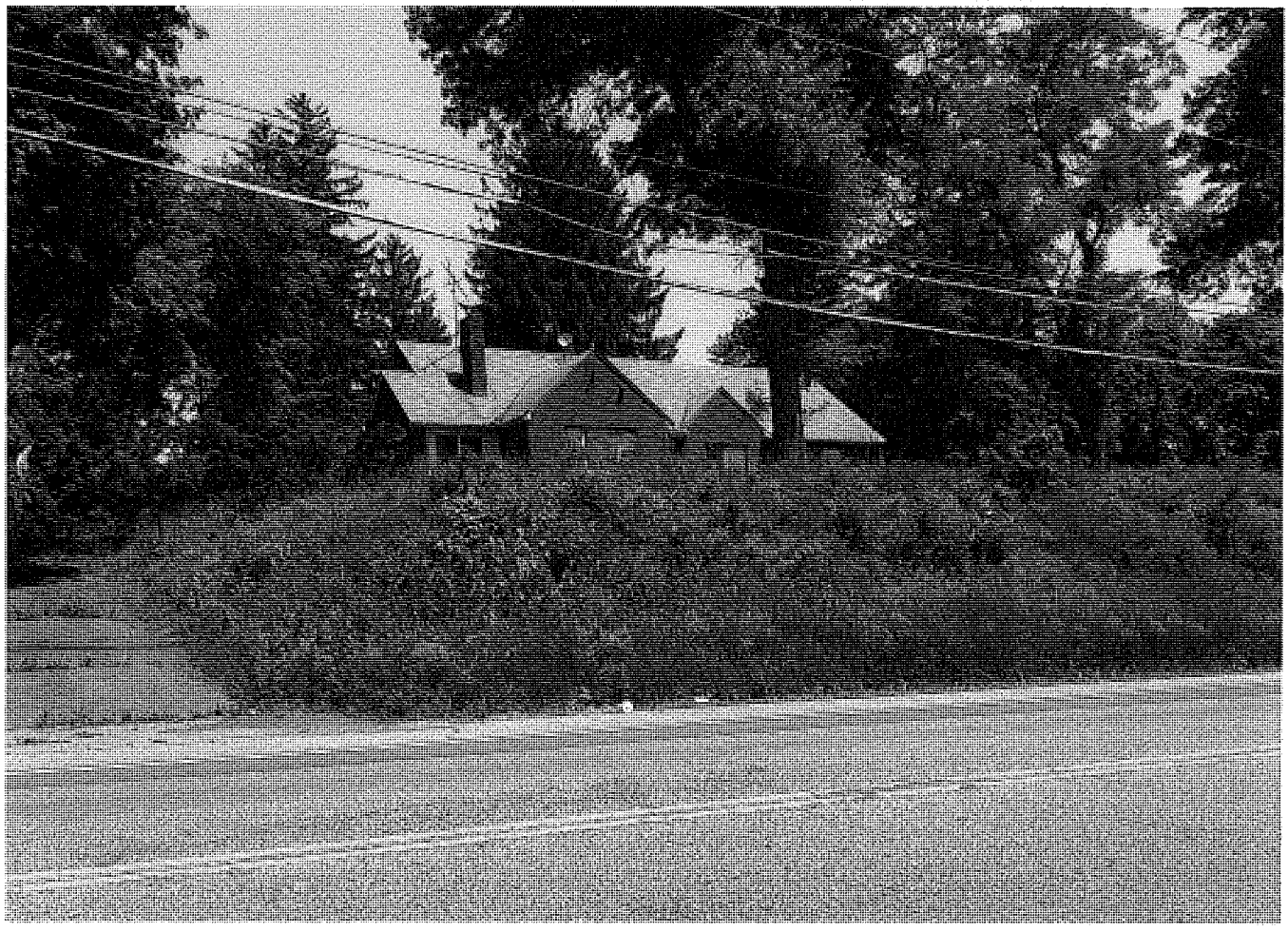
No documents found for this parcel

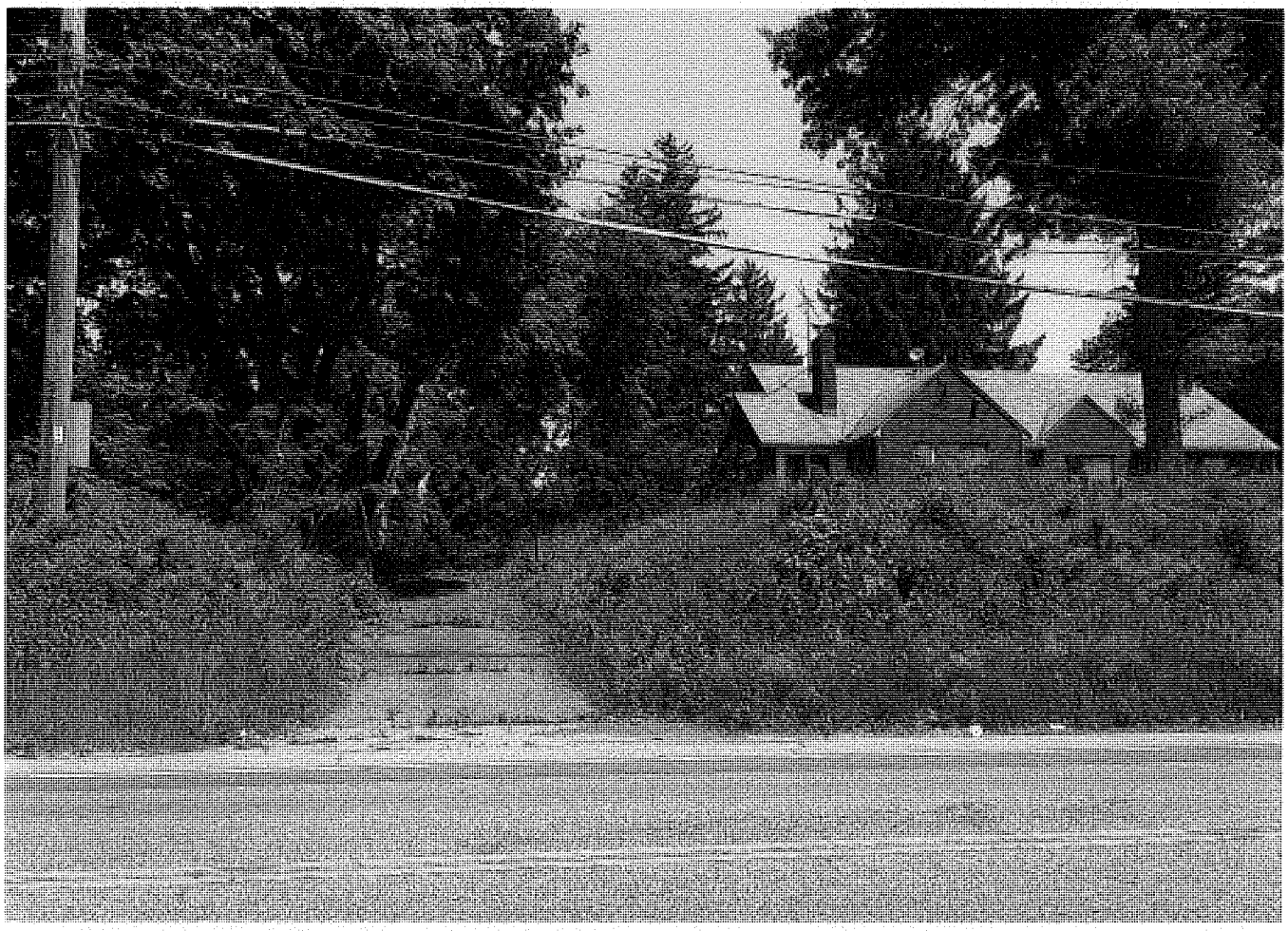
Maps

View Tax Map
Pin Property on GIS Map
View in Google Maps
View in Bing Maps

Map Disclaimer

124 Rt 17K





Freedom of Information (FOIL) Request Transfer Form

Lisa M. Ayers - FOIL Officer and First Deputy Town Clerk
Tiffany M. Ray - Deputy FOIL Officer and Second Deputy Town Clerk
p. 845-564-4554 / f. 845-564-8589

TO: **Assessor's Office**
DATE: **08/30/2021**
FOIL# **2021-00894**

Subject of Request: Code Compliance - Inspection of Property File / Assessor's Office - Property Card

Date of Incident or Records: 8/30/2021

Requestor/Company: Sierra Vaverchak
LaBella Associates

Property Address/SBL#: 124 Route 17K, Newburgh, NY 12550 / SBL# 95-1-58

General Description of Request: See Below

Additional Detail: Assessment records current and historical property cards, Records of Environmental Concerns, Building Inspection Records, Records of Tank installation, permits, removals, or closures, Fire Marshall Records, Records of Fires, Code Enforcement Records, Records of leaks or spills, Records of contamination/cleanup/remediation, and Waste Disposal Records.

F.O.I.L RESPONSE SECTION

(Department Use Only When Returning To FOIL Officer)

REQUEST APPROVED (check as many as apply)

_____ DEPOSIT REQUIRED $_____

__✓__ Copies Attached / Number of copies _____ x _____ = $_____

_____ Appointment for Inspection of Records on (date): _____

REQUEST DENIED (check as many as apply)

_____ Confidential Disclosure

_____ Unwarranted Invasion of Personal Privacy

_____ Record is not maintained by this Department

_____ Other: _____

Notes: _____

_____

Signed By: _____ Date: 8/30/21

****

Additional Action Steps Needed:

To minimize the amount of paper transfer between departments please return all documents electronically to the Town Clerk's Office via email:
foilofficer@townofnewburgh.org

CRIPTION

N S St Hwy 17K 14.9 M Ac
9/5/94

Deed 8/26/97 K Note: By Probate (see history folder)
5/30/02 3892 32
9/10/07 12419 1103

MEASURED BY: ______ DATE ______
LISTED BY: ______ DATE ______
SOURCE: 1-OWNER 2-SPOUSE 3-TENANT 4-OTHER 5-ESTIMATE 6-REFUSAL

OWNERSHIP & MAILING ADDRESS

Red Oak SOS, LLC
Robert Altman
Altman Stage Lighting
57 Alexander St
Yonkers NY 10701

RECORD OF OWNERSHIP

Fortunce Pinegoti
Pitsinos Athos
Pitsinos Property, Inc

PROPERTY IDENTIFICATION

SWIS	S	B	L	SUFFIX
334600	95	1	59	

CLASS CODE: 210 | ROLL SECTION/TAX NUMBER: 01 01 | E / N GRID COORDINATE

PROPERTY ADDRESS: Rt 17K

DATE MO.	DATE YR.	1 LAND 2 BLDG. 3 L&B	SALE PRICE	1 UNCONFIRMED 2 BUYER 4 FEE 3 SELLER 5 AGENT	VALIDITY 1 YES 2 NO
		1 2 3		1 2 3 4 5	1 2
		1 2 3		1 2 3 4 5	1 2
04	07	1 2 (3)	425000	1 2 3 4 5	1 (2)
		1 2 3		1 2 3 4 5	1 2
		1 2 3		1 2 3 4 5	1 2

LAND DESCRIPTION

0 NONE

LAND CODES: 01 - PRIMARY, 02 - SECONDARY, 03 - UNDEVELOPED, 04 - RESIDUAL, 05 - TILLABLE, 06 - PASTURE, 07 - WOODLAND, 08 - WASTELAND, 09 - MUCK, 10 - WATERFRONT, 11 - ORCHARD, 12 - REAR, 13 - VINEYARD, 14 - WETLAND, 15 - LEASED LAND

	N.	VALUATION FRONTAGE	VALUATION DEPTH	UNIT PRICE	DEPTH FACTOR	ADJUSTED FF. PRICE	INFLUENCE CODE	+ -	%	LAND VALUE
LOT	L									
	L									
	L									
SQUARE FEET	S	SQ. FT.								
	S	SQ. FT.								
	S	SQ. FT.								
	S	SQ. FT.								
ACREAGE	A 1	1.00 ACRES		13000						13000
	A 4	13.90 ACRES		2000						27800
	A	ACRES								
	A	ACRES								
	A	ACRES								
	A	ACRES								
TOTAL										40800

INFLUENCE CODES: 1-CORNER 2-TOPOGRAPHY 3-UNIMPROVED 4-EXCESSIVE FRONT 5-SHAPE OR SIZE 6-RESTRICTIONS 7-ECONOMIC MISIMPROVED 8-VIEW 9-OTHER 10-NONE

ASSESSMENT	1984	19__	19__	19__	19__
LAND	40800				
IMPROVEMENTS					
TOTAL	87500				
EXEMPTION					
TAXABLE					

SPECIAL DISTRICTS

SCHOOL 331100
FIRE FD030
WATER
SEWER
LIGHT
PARK

SITE DESCRIPTION

SITE NUMBER ____ PROPERTY CLASS (PRIOR): 210

NEIGHBORHOOD I.D.: 41126

ZONING: 01 - NONE 02 - SINGLE RES. 03 - MULTI RES. 04 - FARM 05 - COMMERCIAL 06 - INDUSTRIAL 07 - MIXED 08 - GOVERNMENT

TOPOGRAPHY RATING: 1-GOOD 2-FAIR 3-POOR 4-VERY POOR
VIEW: 1-DETRIMENTAL 2-TYPICAL 3-ENHANCING
LAYOUT (FARMS ONLY) 1-POOR 2-AVERAGE 3-GOOD
FLOOD RATING: 1-ALWAYS 2-MIXED 3-OFTEN 4-SOME 5-NEVER
MUCK: 1 2 3 4
SITE ELEVATION: 1-BELOW GRADE 2-LEVEL 3-ABOVE GRADE
DWELLING SETBACK: NEAREST 10 FEET
ROAD: 1-NONE 2-UNIMPROVED 3-IMPROVED — 2
WATER: 1-NONE 2-PRIVATE 3-COMM/PUBLIC
SEWER: 1-NONE 2-PRIVATE 3-COMM/PUBLIC
OTHER UTILITIES: 1-NONE 2-GAS 3-ELECTRIC 4-GAS AND ELECTRIC
NEIGHBORHOOD TYPE: 1- RURAL 2- SUBURBAN 3- URBAN 4- COMMERCIAL — 1
SITE DESIRABILITY: 1- INFERIOR 2- TYPICAL 3- SUPERIOR — 2
LOT LANDSCAPING: 1 EXCELLENT 2 GOOD 3 FAIR 4 POOR 5 NONE
DRIVEWAY: 1- NONE 2- UNIMPROVED 3- IMPROVED — 2
FRONTING TRAFFIC: 1- HEAVY 2- MEDIUM 3- LIGHT — 1

BUILDING PERMIT RECORD

DATE MO.	DATE YR.	TYPE 1 REMOD. 2 ADDN.	AMOUNT	NUMBER

RESIDENCE DESCRIPTION

STYLE: 01

01 RANCH	06 CONTEMPORARY	11 LOG CABIN
02 RAISED RANCH	07 MANSION	12 DUPLEX
03 SPLIT LEVEL	08 OLD STYLE	13 BUNGALOW
04 CAPE COD	09 COTTAGE	14 OTHER
05 COLONIAL	10 ROW	15 TOWN HOUSE

NUMBER OF STORIES 1.0

EXTERIOR WALLS: 02

1 WOOD/FRAME	4 COMPOSITION	7 STONE
2 BRICK	5 CONCRETE	
3 ALUM/VINYL	6 STUCCO	

AGE: YEAR BUILT 1947
REMODELED ____
EFFECTIVE YR BUILT ____

ROOMS BED 3 BATH 1.0
FAMILY 0 TOTAL 5

BASEMENT: 4
1 PIER/SLAB 2 CRAWL 3 PARTIAL 4 FULL
BASEMENT GARAGE CAPACITY 3

HEAT TYPE: 3
1 NO CENTRAL 2 HOT AIR
3 STEAM/HOT WATER 4 ELECTRIC

FUEL TYPE: 4

1 NONE	3 ELECTRIC	5 WOOD	7 COAL
2 GAS	4 OIL	6 SOLAR	

AIR CONDITIONING: 1 YES 0

PLUMBING: 1 YES 1

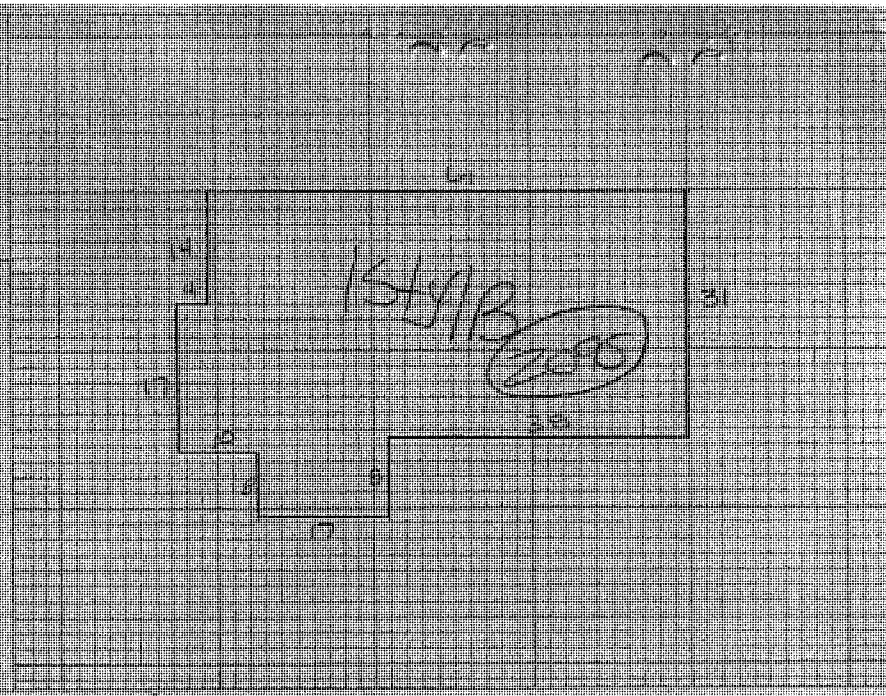
NUMBER OF KITCHENS: 1
STYLE OF KITCHEN: 3
KITCHEN QUALITY: 2
STYLE OF BATH: 3
BATH QUALITY: 2
STYLE: 1 OLD 2 SEMI-MODERN 3 MODERN
QUALITY: 1 POOR 2 AVERAGE 3 GOOD

OTHER FACTORS:
MASONARY TRIM (SF) 0 FIREPLACES 1
STONE/BRICK 1 YES 1

INTERIOR CONDITION 3
EXTERIOR CONDITION 3
1 POOR 2 FAIR 3 NORMAL
4 GOOD 5 EXCELLANT

COST FACTORS
GRADE C+ GRADE ADJ 10
PERCENT GOOD
FUNCTIONAL/ECONOMIC OBSOLESCENSE
CDU (EX, VG, G, AV, F, VP, UN) AV

LIVING AREA:	
FIRST FLOOR (SF)	2095
SECOND FLOOR (SF)	
ADDITIONAL FLOOR (SF)	
HALF STORY FINISHED (SF)	
HALF STORY UNFINISHED (SF)	
THREE QUARTER STORY FIN. (SF)	
THREE QUARTER STORY UNFIN. (SF)	
FINISHED BASEMENT (SF)	
FINISHED ATTIC (SF)	
FINISH OVER GARAGE (SF)	
UNFINISHED ROOM (SF)	
TOTAL LIVING AREA (SF)	2095
UNFINISHED ATTIC (SF)	
RECREATION ROOM (SF)	



NOTES:
Removed under ground oil tank and replaced with new above ground tank - "2007"

BASE PRICE	
PLUMBING	
BASEMENT	
BSMT FINISH	
ATTIC	
HEATING/AC	
TOTAL BASE	
GRADE ADJ	
TOTAL	
DEPRECIATION	
TOTAL	
ATT. IMPROV	
DET. IMPROV	
TOTAL	
FACTOR UPDATE	
TOTAL	

ATTACHED IMPROVEMENTS

	STR. CODE	MOD. CODE	U *	MEASURE 1	MEASURE 2	QUANTITY	GR **	YEAR BUILT	RATE	C †	FUNC OBSO	TOTAL
1	RP1		3	56	/	01		1947		3		
2												
3												
4												
5												
6												

DETACHED IMPROVEMENTS

	STR. CODE	MOD. CODE	U *	MEASURE 1	MEASURE 2	QUANTITY	GR **	YEAR BUILT	RATE	C †	FUNC OBSO	TOTAL
1	RG4		2	22	22	01		1947		3		
2	\											
3												
4												
5												
6												
7												
8												
9												
10												

* UNITS: 1 QUANITY 2 DIMENSIONS 3 SQUARE FEET 4 DOLLARS (MS1 ONLY)
† CONDITION: 1 POOR 2 FAIR 3 NORMAL 4 GOOD 5 EXCELLENT
** GRADE: A EXPENSIVE B GOOD C AVERAGE D ECONOMY E MINIMUM

ORANGE COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
124 MAIN STREET
GOSHEN, NEW YORK 10924
845-291-2331
845-291-4078 FAX

FREEDOM OF INFORMATION REQUEST FORM[1]

Name of Requestor:	Sierra Vaverchak	**Telephone:**	518-885-5383
Organization Represented:	LaBella Associates, PC	**Date of Request**	August 30, 2021
Mailing Address:	5 McCrea Hill Road		
Village/Town/City:	Ballston Spa	**State:** NY	**Zip Code:** 12020
Email Address:	svaverchak@labellapc.com		

Description of Records Requested: (be specific as to name and location of facility, case #, complaint # or other information identifying requested material)	All environmental records of concern – examples: violations, spills, leaks, fires, clean-ups, remediation, records of solid/chemical/hazardous substance usage, and/or disposal for the following address: Address: 124 Route 17K, Newburgh, NY 12550 Tax ID: 95-1-58 Owner: Red Oak SOS, LLC
Statement of Reason for Request and Intended Use of Records:	Environmental Site Assessment
Written Consent for Release Of Personal or Medical Information[2]:	☐ Yes ☐ No ☐ Not Applicable

FOR AGENCY USE:

This request is: **Granted** ☐ **Denied** ☐ **Denied in Part** ☐ **Agency Rep:**

Consent Form Provided for Personal Information: ☐ **Yes** ☐ **No** ☐ **Not Applicable**

Referred to Department of Law for Response: ☐ **Yes** ☐ **No** **Date referred:**

Reason For Denial or Deletion:

Initial Response Date **Copying Cost** **Postage** **Total Cost:**

Date Paid: **Date Copies Forwarded to Requestor:**

OCHD – 1/2017

[1] Please note that the agency has 5 business days to respond upon receipt of a request.

[2] If consent is not provided, personal (including medical) information will be redacted.

Vaverchak, Sierra

From: New York DEC Support <newyorkdec@mycusthelp.net>
Sent: Monday, August 30, 2021 10:16 AM
To: Vaverchak, Sierra
Subject: [Ext] FOIL Request :: W088271-083021

Dear Sierra:

Thank you for your Freedom of Information Law (FOIL) request. Your request has been received and is being processed. Your request was received in this office on 8/30/2021 and given the reference number FOIL #W088271-083021 for tracking purposes. You may expect the Department's response to your request no later than **9/28/2021**.

Record Requested: **We are inquiring if you have any records pertaining to the following for the below property. - Environmental Enforcement - Environmental Permits - Environmental Remediation - Hazardous Materials - Solid Materials - Land Use Restrictions including and/or Engineering Controls - Law Enforcement/Investigation - Legal, Water, and Air - Spills/PBS - BCP and VCP Programs Address: 124 Route 17K, Newburgh, NY 12550 Tax ID: 495-1-58 Owner: Red Oak SOS, LLC**

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the FOIL Center.

https://mycusthelp.com/NEWYORKDEC/_rs/RequestLogin.aspx

New York State Department of Environmental Conservation, Record Access Office

---

Track the issue status and respond at:
https://newyorkdec.mycusthelp.com/webapp//_rs/RequestEdit.aspx?rid=88271

Vaverchak, Sierra

From: New York DEC Support <newyorkdec@mycusthelp.net>
Sent: Friday, September 24, 2021 3:54 PM
To: Vaverchak, Sierra
Subject: [Ext] Freedom of Information Law Request :: W088271-083021

--- Please respond above this line ---

Region 3 - New Paltz
P: 845 256-3154 | F:
www.dec.ny.gov

RE: PUBLIC RECORDS REQUEST of 8/30/2021, Reference # W088271-083021

Date: 09/24/2021

Dear Sierra Vaverchak,
I write
in response to your Freedom of Information Law (FOIL) request seeking:

> *We are inquiring if you have any records pertaining to the following for the below property.*
>
> *- Environmental Enforcement*
> *- Environmental Permits*
> *- Environmental Remediation*
> *- Hazardous Materials*
> *- Solid Materials*
> *- Land Use Restrictions including and/or Engineering Controls*
> *- Law Enforcement/Investigation*
> *- Legal, Water, and Air*
> *- Spills/PBS*
> *- BCP and VCP Programs*
>
> *Address: 124 Route 17K, Newburgh, NY 12550*
> *Tax ID: 495-1-58*
> *Owner: Red Oak SOS, LLC*

Please be advised that a diligent search of the files maintained by DEC produced no responsive records.

If you believe you have been unlawfully denied access to responsive records, you have the right to appeal. Any such appeal must be submitted in writing and within thirty (30) days of the date of this email. Appeals must be directed to:

> FOIL Appeals Officer
> Office of General Counsel
> New York State Department of Environmental Conservation
> 625 Broadway, 14th Floor
> Albany, NY 12233-1500

Your FOIL request is now closed. If I can be of further assistance, please contact me at 845 256-3154 and reference FOIL #W088271-083021, or simply reply to this email. Thank you.

Sincerely,

Region 3 FOIL Coordinator

LaBella
Powered by partnership.

Appendix 7
User Interview

LaBella
Powered by partnership.

USER QUESTIONNAIRE

Project No. 2213006 Date: 9/10/2021
Site Name/ Address: 124 Route 17K Newburgh, NY 12550
Site Contact (to arrange site visit/conduct Site owner interview): Name: Russell Altman
Phone Number: 914-420-0231 Email Address: rcaltman@altmanlighting.com

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by or on behalf of EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *Environmental Professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate inquiries*" is not complete.

User (Print Name): Mark Willson
Title: Development Associate
Signature:

Information regarding these questions was obtained from the following parties (if applicable):

Purpose of this Assessment: ☐Selling the *property* ☑Purchasing the *property* ☐Construction loan
☐Re-financing the *property* ☐Other (explain):

1. **Title Records**
Land title records (or judicial records where appropriate, see Note 1 below) are filed under federal, tribal, state or local law and should be reviewed to identify environmental liens or activity and use limitations (AULs), if any, that are currently recorded or filed against the *property*. Are land title records available for review? ☐No ☑Yes (If yes, please provide.) ☐Unknown

Note 1 – In certain jurisdictions, federal, tribal, state, or local statues, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases, judicial records must be searched for environmental liens and AULs.

2. **Environmental liens that are filed or recorded against the *property* (40 CFR 312.25)**
Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 above) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?
☑No ☐Yes ☐Unknown
Based on review of readily available information:

3. **Activity and land use restrictions (AULs) that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and (vi))**
Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 above) identify any AULs, such as *engineering controls*, land use restrictions, or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state, or local law?
☑No ☐Yes ☐Unknown
Based on review of readily available information

4. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)**
Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or and *adjoining property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?
☑No ☐Yes ☐Unknown
Based on review of readily available information: _____

5. **Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29)**
Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*?
☐No ☑Yes ☐Unknown ☐N/A- there is no transfer of ownership
If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?
☐No ☐Yes ☐Unknown
Based on review of readily available information: _____

6. **Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30)**
Are you aware of any commonly known or *reasonably ascertainable* information about the *property* that could help the *Environmental Professional* to identify conditions indicative of releases or threatened releases? For example:
(a) Do you know of the past uses of the *property*?
☐No ☑Yes ☐Unknown
Based on review of readily available information: Past use of the land was residential / farm land

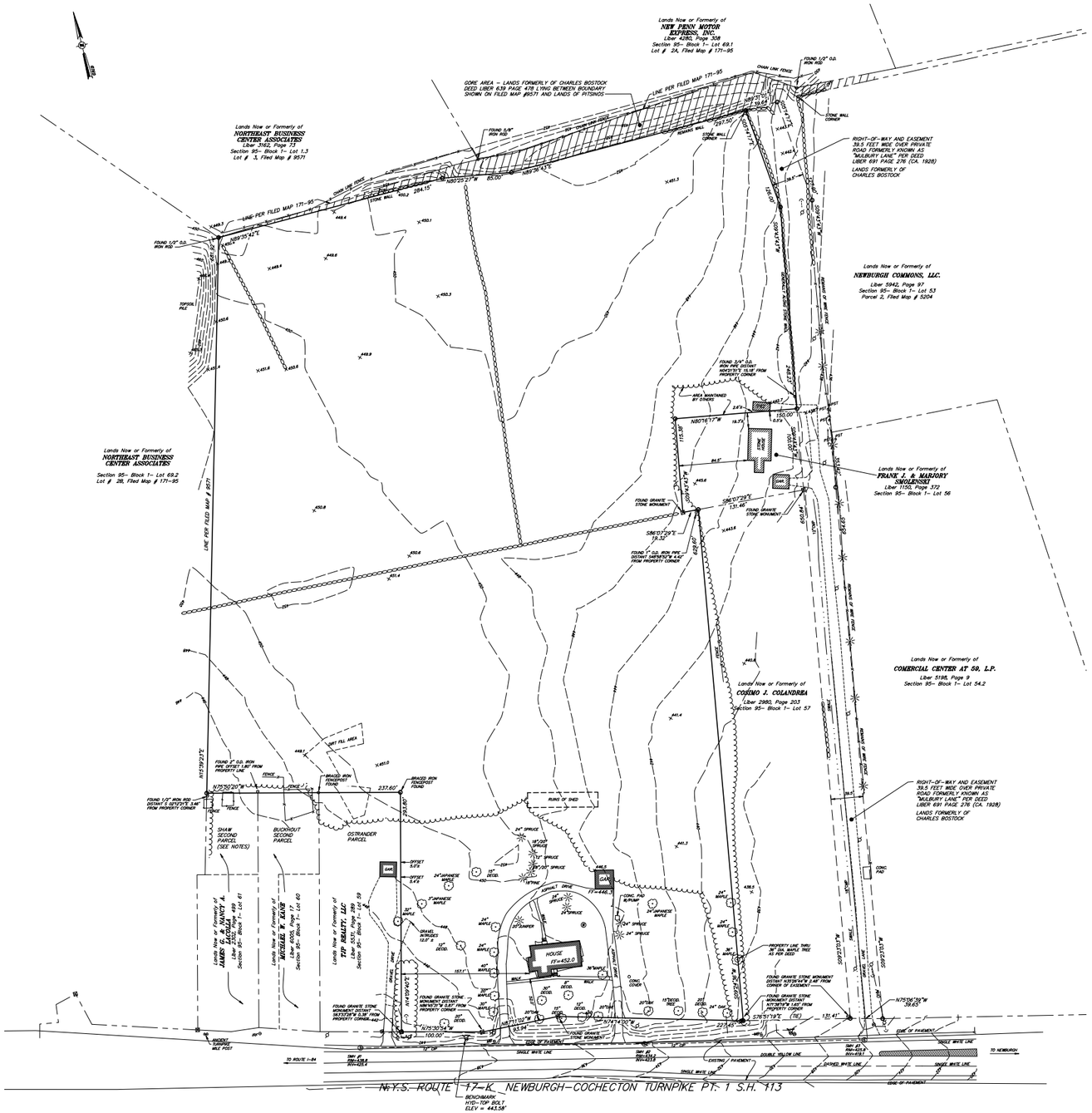
(b) Do you know of specific chemicals that are present or once were present at the *property*?
☑No ☐Yes ☐Unknown
Based on review of readily available information: _____

(c) Do you know of spills or other chemical releases that have taken place at the *property*?
☑No ☐Yes ☐Unknown
Based on review of readily available information: _____

(d) Do you know of any environmental cleanups that have taken place at the *property*?
☑No ☐Yes ☐Unknown
Based on review of readily available information: _____

7. **The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)**
Based on your knowledge and experience related to the *property*, are there any *obvious* indicators that point to the presence or likely presence of releases at that *property*?
☑ No ☐ Yes ☐ Unknown
Based on review of readily available information: _____
_____
_____
_____

Please provide attachments if necessary to explain any answers to the above questions.



LEGEND:

- PROPERTY BOUNDARY
- ADJACENT PROPERTY LINE
- NYSDEC WETLANDS LINE
- NYSDEC 100' BUFFER LINE
- ACOE WETLANDS LINE
- 110 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 550.0 EXISTING SPOT GRADE
- EXISTING FENCE
- EXISTING STONE WALL
- SWALE
- EXISTING TREE LINE
- OHW EXISTING OVERHEAD WIRES
- W EXISTING WATER LINE
- G EXISTING GAS LINE
- UE EXISTING UNDERGROUND ELECTRIC LINE
- 8" SAN EXISTING UNDERGROUND SEWER LINE
- 15" SDP EXISTING UNDERGROUND STORM LINE
- EXISTING BUILDING
- SIZE & TYPE EXISTING CULVERT W/ PLAIN END
- ROAD EXISTING ROAD
- SIDEWALK EXISTING SIDEWALK
- ASPHALT EXISTING ASPHALT DRIVEWAY
- GRAVEL EXISTING GRAVEL DRIVEWAY
- EXISTING SIGN
- EXISTING SIGN
- EXISTING CATCH BASIN
- EXISTING CABLE TV PEDESTAL
- EXISTING CONIFEROUS TREE
- EXISTING DRAINAGE MANHOLE
- EXISTING DECIDUOUS TREE
- EXISTING ELECTRIC BOX
- EXISTING ELECTRIC MANHOLE
- EXISTING ELECTRIC METER
- EXISTING GUY WIRE
- EXISTING GAS METER
- EXISTING GAS VALVE
- EXISTING HYDRANT
- EXISTING IRON PIPE
- EXISTING IRON ROD
- EXISTING LIGHT POLE
- EXISTING MAILBOX
- EXISTING MILE MARKER
- EXISTING MONUMENT
- EXISTING POST
- EXISTING SANITARY MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING TREE W/ MARK
- EXISTING UTILITY POLE
- EXISTING WETLAND BOUNDARY FLAG
- EXISTING WELL
- EXISTING WATER SHUT OFF VALVE
- EXISTING WATER VALVE

NOTES

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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CERTIFICATIONS ON THIS BOUNDARY SURVEY MAP SIGNIFY THAT THE MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC. THE CERTIFICATION IS LIMITED TO THE PERSONS FOR WHOM THE BOUNDARY MAP IS PREPARED, TO THE TITLE COMPANY, TO THE GOVERNMENTAL AGENCY, AND TO THE LENDING INSTITUTION LISTED ON THIS BOUNDARY SURVEY MAP.

SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.

SURVEYED FROM RECORD DESCRIPTION AND AS IN POSSESSION. REFER TO LIBER 5892 OF DEEDS AT PAGE 53 AND LIBER 685 OF DEEDS AT PAGE 161.

REFER TO CERTIFICATE AND REPORT OF TITLE ISSUED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY DATED AUGUST 23, 2005, TITLE NO. P-16328.

SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.

SUBJECT TO RESTRICTIVE COVENENT AS RECORDED IN LIBER 1335 OF DEEDS AT PAGE 330.

THE SUBJECT PROPERTY IS BENEFITED BY AN APPURTENANT RIGHT-OF-WAY AND EASEMENT 39.5 FEET IN WIDTH OVER A PRIVATE ROAD FORMERLY KNOWN AS "MULBURY LANE" AS DESCRIBED IN LIBER 691 OF DEEDS AT PAGE 276 OVER LANDS FORMERLY OF CHARLES BOSTOCK AS RECORDED IN LIBER 639 OF DEEDS AT PAGE 478. SUBJECT TO EXPENSE AND MAINTENANCE PROVISIONS OF SAID AGREEMENT. SUBJECT TO RIGHTS OF OTHERS.

REFER TO MAP ENTITLED "MAP FOR THE ACQUISITION OF PROPERTY, COCHECTON TURNPIKE, PART 1, S.H. 113, ORANGE COUNTY, MAP 92, PARCEL 97, JAMES G. FOURTUNES" BY NEW YORK STATE DEPARTMENT OF PUBLIC WORKS, DATED OCTOBER 3, 1963, ON FILE WITH THE REGIONAL OFFICE, NYS DOT, POUGHKEEPSIE, N.Y.

THE DEED DESCRIPTION LIBER 5892 OF DEEDS AT PAGE 53 FAILS TO EXCLUDE LANDS PREVIOUSLY CONVEYED BY JOHN B. FLANAGAN ET. AL. TO HENRY M. & MARGRETE R. SHAW AS RECORDED IN LIBER 853 OF DEEDS AT PAGE 408 AS THE SECOND PARCEL. THIS SECOND PARCEL IS A PORTION OF TAX MAP LOT 61.

THE GORE AREA LYING BETWEEN FILED MAP 9571 AND LANDS OF PITSINOS PROPERTY, INC. IS LANDS FORMERLY OF CHARLES BOSTOCK AS RECORDED IN LIBER 639 OF DEEDS AT PAGE 478. COMMON BOUNDARY BETWEEN LANDS OF WILLIAM E. FLANAGAN, AS RECORDED IN LIBER 685 OF DEEDS AT PAGE 161 AND LANDS OF CHARLES BOSTOCK, AS DESCRIBED IN LIBER 639 OF DEEDS AT PAGE 478, RECITES THE SAME BEARINGS AND DISTANCES AS DEED CONVEYED TO PITSINOS PROPERTY, INC. IN LIBER 5892 OF DEEDS AT PAGE 53 AND ALSO DESCRIBES THE LINES AS FOLLOWING A STONE WALL. THE EXISTING STONE WALL GENERALLY CONFORMS TO DEED DISTANCES MEASURED FROM COCHECTON TURNPIKE.

TOPOGRAPHY SHOWN HEREON WAS COMPILED FROM A FIELD SURVEY COMPLETED OCTOBER 6,2005, BY C.E.L.S. DATUM NAVD88. ELEVATION BASED ON NOAA BM D57-1955A AND NGS HARN STATION "STEWART".

GRID NORTH, NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83 (1996) BASED ON DUAL FREQUENCY GPS OBSERVATIONS AT NGS HARN STATION STEWART.

FILED MAP REFERENCE

REFER TO MAP ENTITLED "SUBDIVISION FOR NORTHEAST DISTRIBUTION CENTER" DATED JUNE 28, 1989, RECORDED IN THE ORANGE COUNTY CLERK'S OFFICE AS FILED MAP 9571.

REFER TO MAP ENTITLED "PLAN OF SUBDIVISION OF LOT 2, NORTHEAST DISTRIBUTION CENTER" DATED SEPTEMBER 19, 1995, RECORDED IN THE ORANGE COUNTY CLERK'S OFFICE AS FILED MAP 171-95.

REFER TO MAP ENTITLED "3-LOT SUBDIVISION FOR NORTHEAST DISTRIBUTION CENTER" DATED DECEMBER 4, 1987, RECORDED IN THE ORANGE COUNTY CLERK'S OFFICE AS FILED MAP 8720.

DEED REFERENCE

ATHENA PITSINOS
-TO-
PITSINOS PROPERTY, INC.
L.5892 P. 53 (FIRST PARCEL)
MAY 8, 2002

TAX PARCEL NUMBER

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK
SBL 95-1-58

FLOOD ZONE NOTE

NO PORTION OF THE ABOVE PREMISES LIE WITHIN A FLOOD ZONE AREA AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM), TOWN OF NEWBURGH, ORANGE COUNTY, N.Y., COMMUNITY PANEL 360627-0020-A, DATED JUNE 5, 1985.

TOTAL AREA = 13.833 ACRES

JOHN E. MACDONALD, L.S.#49774

THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:
21 Fox Street
Poughkeepsie, New York 12601
Phone: (845) 454-3980

Capital District Office:
547 River Street
Troy, New York 12180
Phone: (518) 273-0055

Orange County Office:
356 Meadow Avenue
Newburgh, New York 12550
Phone: (845) 567-1133

North Greenbush Office:
100 Grid Street
North Greenbush, New York 12801
Phone: (518) 812-0513

rev.	date	description

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR ALTMAN LIGHTING, INC.

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

drawn	JAS/SMD
checked	JEM
date	10/07/05
scale	1" = 50'
project no.	70515
sheet no.	SP1
	1 of 1

Drawing Name: X:\P\70500-70600\70515.00-ALTMAN\SURVEY\DWG\70515SM.dwg
Xref's Attached:
Date Printed: Mar 09, 2007, 3:55pm

5988

Appendix 8
Previous Reports

No Previous Environmental Reports were reviewed through the course of this assessment.

Appendix 9
Additional Services

No Additional Services were requested.

Appendix 10
Qualifications

EDUCATION

Purdue University, BS

CERTIFICATIONS/ REGISTRATIONS

OSHA certified in accordance with 29 CFR 1910.120 Hazardous Waste Operations

OSHA Site Supervisor Certification

PATRICK RODMAN

Phase I Technical Manager

Pat is the Assistant Phase I ESA Technical Manager responsible for the development and training of Phase I Analysts as well as providing efficient analysis and assisting in the completion of environmental reports required for property transactions. The site assessments include evaluation of environmental liability associated with properties such as warehouses, gas stations, auto repair facilities, manufacturing facilities, farms, commercial, and residential properties. Pat has over 15 years of experience preparing, reviewing, and/or editing Phase I and Phase II Environmental Site Assessments. Pat has also managed numerous Phase II Environmental Site Assessments and remediation projects such as remedial investigations, underground storage tank removals, soil remediation.

Port Imperial New Jersey DEP Brownfield - Weehawken, NJ

Patrick was responsible for conducting daily oversight of excavation activities including the implementation of the community air monitoring plan of a site impacted by historic fill material. In addition to oversight, his responsibilities also included waste classification, soil sampling and associated waste profiling, and reporting and coordination with the NJDEP.

Port Imperial-Riverwalk NJDEP Brownfield - West New York, NJ

Patrick was responsible for conducting daily oversight of excavation activities including the implementation of the community air monitoring plan of a site impacted by historic fill material. In addition to oversight, responsibilities also included waste classification soil sampling and associated waste profiling, and reporting and coordination with the NJDEP. The site was also utilized as a soil stockpile for other nearby Brownfield sites which presented significant challenges in coordinating soil disposal.

East River Science Park, NYSDEC/NYCDEP Brownfield - Manhattan, NY

Patrick was responsible for conducting daily oversight of excavation activities including the implementation of the community air monitoring plan of a site impacted by historic fill material. In addition to oversight, his responsibilities also included waste classification soil sampling and associated waste profiling, and reporting and coordination with the NYSDEC. The site was located in east-central Manhattan which presented significant logistical challenges in coordinating soil disposal.

Professional Experience Project Listings

Technical report preparation and review experience includes ASTM Phase I/Phase II, NJDEP Site Investigation/Remedial Investigation Reports, Remedial Investigation Work plans, and Remedial Action Reports. PR has prepared 500+ Phase I ESA's in states throughout the northeastern U.S.

LaBella
Powered by partnership.

Bridgewater, NJ Department of Public Works Redevelopment under the NJDEP Hazardous Discharge Site Remediation Fund (HSDRF)

Supervised major soil remediation of former public works garage for a New Jersey municipality, including selection of post-excavation remedial oxidant applied to bedrock surface for UST areas of concern. Also planned and supervised remediation of non-UST areas of concern (i.e. floor and trench drain related sources of contamination) and waste classification.

Barthelmes Manufacturing NYSDEC State Superfund Site

Planned and implemented Remedial Investigations of New York State Department of Environmental Conservation State Superfund sites in Rochester, New York impacted by chlorinated solvent discharges.

Monroe Electronics NYSDEC State Superfund Site

Planned and implemented Remedial Investigations of New York State Department of Environmental Conservation State Superfund sites in Lyndonville, New York impacted by chlorinated solvent discharges.

Chromalloy Newington, CT

Planned and implemented Remedial Investigation of industrial machine shop in Connecticut in accordance with the CT Property Transfer Program.

Gas Station Portfolio

Supervised regulated underground storage tank removals and soil remediation at petroleum service stations in New Jersey.

SIERRA VAVERCHAK

Environmental Geologist

Sierra is an Environmental Geologist working with the Phase I Program of LaBella's Environmental Division. Sierra is responsible for performing Phase I Environmental Site Assessments, Transaction Screens, and completing other environmental due diligence reports. Her outstanding attention to detail and research skills as well as her excellent communication skills make her a valuable part of our team.

EDUCATION

Hartwick College: Geology, BA

CERTIFICATIONS/ REGISTRATIONS

OSHA 40-Hour HAZWOPER Training

OSHA 8-Hour Refresher

Erosion and Sediment Control Certified

MSHA New Miner Training

MSHA Annual Refresher Training

AeroMet EPA Method 9 Certification

NYSDEC Endorsed Erosion and Sediment Control Training

NYSDEC Endorsed Stormwater and the Multi-Sector Permit Training

Sierra has conducted numerous Environmental Site Assessments. Site assessments include evaluation of environmental liability associated with properties such as warehouses, gas stations, commercial properties, and residential homes. Sierra provides efficient analysis and has completed environmental assessments for the following groups:

Financial Institutions:

- Ballston Spa National Bank
- Citizens Bank
- Key Bank
- M&T Bank
- Five Star Bank

Former Commercial Printer; Queensbury, NY; Due Diligence Services at 428 Corinth Road

Oversight of Phase I, soil vapor sampling, installation and sampling of groundwater monitoring wells

Confidential Client OR NYS Quarries & Hot-Mix Asphalt Plants - Orange, Rockland, and Duchess Counties

Conducted water sampling at various New York State quarries and hot-mix asphalt plants to ensure compliance with the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) program. The sampling program included quarterly sampling of all surface water and stormwater discharge points at nine facilities.

Confidential Client OR Aggregate Manufacturer - Cohoes, NY

Prepared and implemented a Stormwater Pollution Prevention Plan (SWPPP) under the SPDES Multi-Sector Permit for stormwater discharges related to construction activity and inspected temporary erosion and sediment controls for erosion, stability, and problem areas following the requirements of the SPDES General Permit.

Confidential Client OR NYS Sand & Gravel Pits - Syracuse, NY

Involved in the quarterly SPDES monitoring/sampling program and annual compliance evaluations at multiple active sand and gravel pits in New York. Projects involved conducting review, evaluation, and reporting the quarterly stormwater data to NYSDEC, prepared SWPPP for client coverage under the SPDES Multi-Sector General Permit, and prepared and submitted Notice of Intents (NOIs) to NYSDEC to obtain permit coverage.

LaBella
Powered by partnership.

NYSEG – Line 879 Circuit Rebuild Project - Plattsburgh, NY

Involved with the inspection of temporary erosion and sediment controls for erosion, stability, and problem areas following the requirements of the SPDES General Permit for Stormwater Discharges from Construction Activity. Project involved preparing a weekly Stormwater Pollution Prevention Plan Inspection Report that was submitted to the client.

NYSEG – CCTP & Falls Park - Ghent, NY

Involved with the inspection of temporary erosion and sediment controls for erosion, stability, and problem areas following the requirements of the SPDES General Permit for Stormwater Discharges from Construction Activity. Prepared and submitted a weekly Stormwater Pollution Prevention Plan inspection report to the client.

APPENDIX 10

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 18. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from digital orthophotography provided by the New York Sate Office of Cyber Security & Critical Infrastructure Coordination. This information was provided as 30-centimeter and 60-centimeter resolution natural color orthorimagery from photography dated April-May 2004.

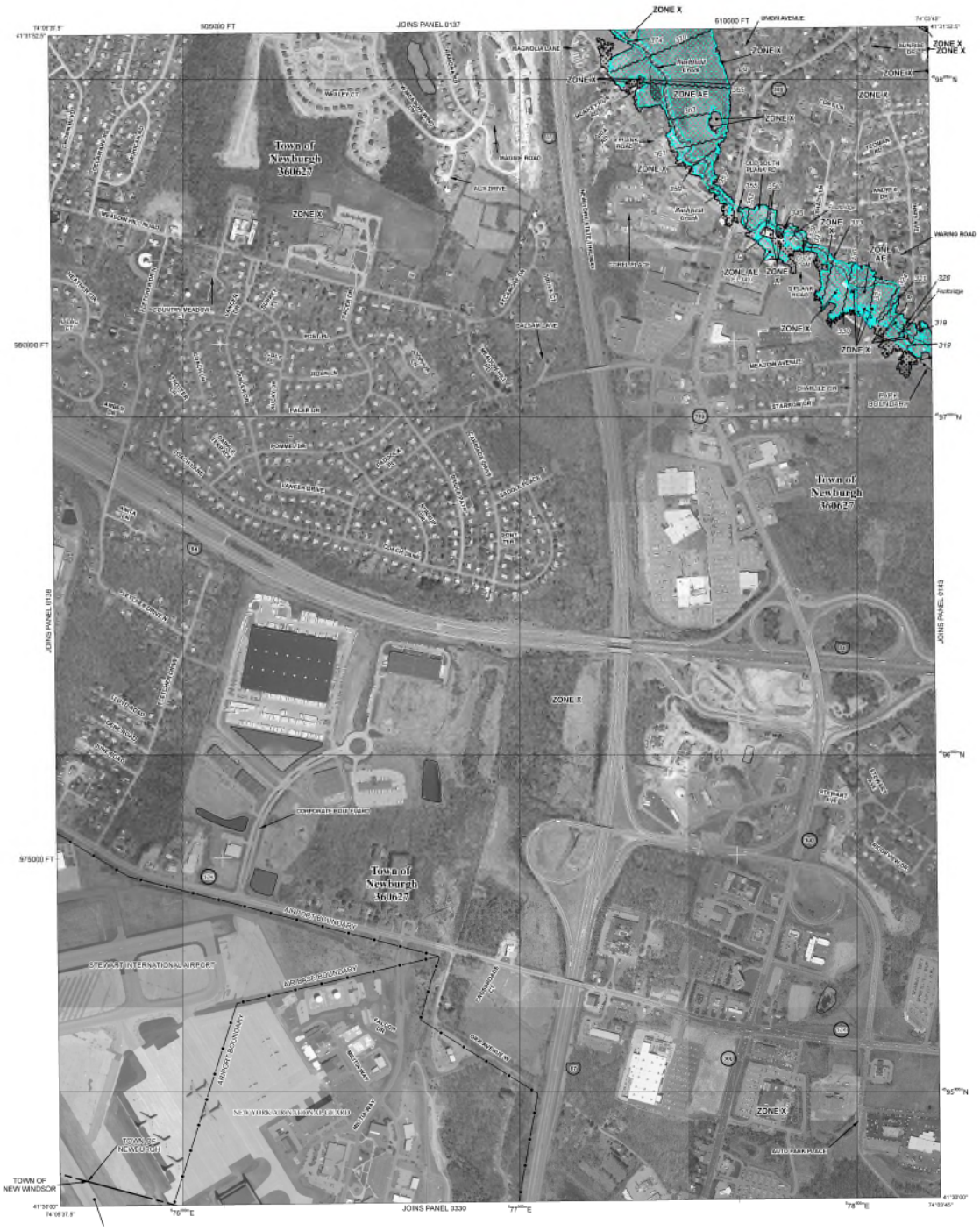
Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AR/A, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A — No Base Flood Elevations determined.
- ZONE AE — Base Flood Elevations determined.
- ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- ZONE X — Areas determined to be outside the 0.2% annual chance floodplain
- ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Limited detail cross section line
- D — D — Transect line
- 87°07'45", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4278000 mN — 1000-meter Universal Transverse Mercator grid values, zone 18N
- 600000 FT — 5000-foot grid ticks: New York State Plane coordinate system, East zone (FIPSZONE 3101), Transverse Mercator projection
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
August 3, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

200 0 500 1000 FEET

150 0 150 300 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0139E

FIRM

FLOOD INSURANCE RATE MAP

for ORANGE COUNTY, NEW YORK (ALL JURISDICTIONS)

CONTAINS:

COMMUNITY	NUMBER
NEW WINDSOR, TOWN OF	360628
NEWBURGH, TOWN OF	360627

PANEL 139 OF 630
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
36071C0139E

EFFECTIVE DATE
AUGUST 3, 2009

Federal Emergency Management Agency

APPENDIX 11

Pre-Demolition Regulated Building Materials Inspection

Location:

124 Route 17K
Newburgh, New York 12550

Prepared for:

Scannell Properties
294 Grove Lane East, Suite 140
Wayzata, Minnesota 55391

LaBella Project No. 2212998

October 1, 2021

5 McCrea Hill Road | Ballston Spa, NY 12020 | p (518) 885-5383 | f (518) 885-5385
www.labellapc.com

Table of Contents

I. Project Description

In accordance with current regulations, LaBella Associates, D.P.C. (LaBella) conducted a Pre-Demolition Regulated Building Materials (RBM) Inspection of the vacant residential structure located at 124 Route 17K in Newburgh, New York. The objective was to identify suspect RBMs, such as Asbestos-Containing Materials (ACM), Lead-Based Paint (LBP), PCB-containing caulking and glazing compounds, PCB Ballasts, and Mercury-containing items that may require abatement or removal prior to or during demolition due to applicable regulations.

Materials and locations understood to be impacted by this project were determined from information provided by Scannell Properties.

II. Inspection Procedures

The following procedures were used to obtain the data for this Report:

A. Existing documentation was requested for review. No record drawings or documentation of previously completed inspections were made available.

B. A visual inspection of the interior, exterior of the residential structure (and associated garage) was conducted to identify visible and accessible sources of suspect RBMs. Photographs captured during this inspection are attached in Appendix C.

C. Bulk samples of accessible suspect materials were collected and submitted for laboratory analysis.

D. Asbestos samples were submitted for laboratory analysis. Preliminary Polarized Light Microscopy analyses of non-friable, organically bound (NOB) materials were performed by LaBella Laboratories, a NYSDOH accredited laboratory, to determine the presence and percentage of asbestos in each sample. Transmission electron microscopy analyses of NOB materials, if necessary, were performed by AMA Laboratories.

E. Suspect painted or glazed materials were spot checked in the field using X-Ray Fluorescence (XRF) testing procedures for the presence of lead.

F. Results of the laboratory analyses, field testing and the visual on-site inspection were compiled and summarized.

III. Inspection Limitations

This inspection was conducted in accordance with generally accepted environmental engineering practices for this region. Collection of bulk samples of suspect RBMs was limited to those materials readily accessible using hand tools or hand-held power tools. Homogeneous materials were identified and located based on visual observation from readily accessible points. The data derived from representative samples of any given homogeneous material represent conditions that apply only at that particular location. Inspection protocol and methodology requires that sample data be

used to draw conclusions about the entire homogeneous area, but such conclusions may not necessarily apply to the general Site as a whole. Sub-surface investigation conducted by LaBella was limited to checking for the presence of an exterior vapor barrier on the foundation wall to a depth of two (2) feet.

LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts or reports. No inspection can wholly eliminate the uncertainty regarding the potential for undiscovered RBMs. The Work performed by LaBella is intended to reduce, but not eliminate, uncertainty regarding the potential for RBMs at the Site. This inspection report is not intended to be a bid document for an abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 for inspections. Abatement project design can only be performed by a certified Project Designer.

IV. INSPECTION RESULTS

Asbestos-Containing Materials (ACMs)

Based on laboratory analyses of bulk samples collected, the following material(s) were determined to contain greater than 1% asbestos. However, the following table does not include all of the materials sampled during this inspection; for a full list of materials sampled see the *Asbestos Bulk Sample Summary Table* immediately following this report.

Type of Material	Typical Location	Estimated Amount[1]	Friability	Condition
Residential Structure				
White Insulation	Basement – Interior of Furnace	30 SF	Friable	Good
Black Roofing Tar	Exterior - Around Roof Perimeter (beneath asphalt shingles)	46 SF	Non-Friable	Good
Gray Roofing Cement	Exterior - Around Base of Chimney	10 SF	Non-Friable	Good
Gray Glazing Compound	Around Glass Panes of Various Exterior Windows	560 LF/ 12 SF	Non-Friable	Good

ACM Project Specific Details

White Insulation

White asbestos-containing insulation is located on the interior of the green furnace located in the basement of the residential structure. The insulation is generally in good condition and covers an estimated area of approximately 30 square feet. The approximate location of the window glazing is shown in FIGURE 2.

[1] For general reference only: Estimated amounts of confirmed ACM listed above that were obtained through field observations made during site visits. Quantities are approximations and LaBella assumes no responsibility if used for bidding.

Black Roofing Tar

Black asbestos-containing roofing tar is located around roof perimeter beneath green shingles of the residential structure. The black roofing tar is generally in good condition and cover an estimated area of approximately 46 square feet.

Gray Roofing Cement

Gray asbestos-containing roofing cement is located around the base of the chimney on the residential structure. The roofing cement is generally in good condition and covers an estimated area of approximately 10 square feet.

Gray Window Glazing Compound

Gray asbestos-containing window glazing compound is located around the glass panes of various exterior windows throughout the residential structure. With windows located in the living room, dining room, kitchen, bathroom, basement, attic and bedrooms 1, 2, & 3, an estimated 560 linear feet of gray window glazing is present. With a ¼" bead of glazing around all window panes, an estimated equivalent area of 12 square feet of asbestos-containing window glazing is present.

PCB-Containing Materials

Capacitors in Fluorescent Light Fixture Ballasts

Ceiling mounted fluorescent light fixtures were observed throughout the various sections of the building. Older vintage fluorescent light fixtures manufactured prior to 1980 typically contained a capacitor filled with PCB fluid. A representative number of light fixtures were dismantled in each area of investigation, and all had ballasts labeled "No PCBs". Based on these observations made at the time of the site visit, to the extent feasible, the ballasts within the inspection area can be considered to be non-PCB-containing.

Caulking and Glazing Compounds

It has recently been discovered that certain caulking and glazing compounds have the potential to contain PCBs. Caulking and glazing compounds containing equal to or greater than 50 ppm PCB must be disposed of as PCB-Contaminated hazardous waste. Therefore, several caulking and glazing compounds throughout the property were sampled and analyzed for the presence of PCBs. Based on laboratory analysis, these compounds are *not* considered to be PCB-Contaminated (i.e. NOT $\geq$ 50 ppm PCBs).

Mercury-Containing Materials

No mercury thermostats were identified in the inspected areas.

Lead – Based Paint

Several representative interior and exterior painted surfaces were observed and tested for the presence of lead-based paint using XRF testing procedures. Lead-based components include:

- Painted wood baseboards throughout the home;
- Painted window & door components throughout the home;
- White painted exterior soffit around; and
- White painted wood garage door.

In accordance with Environmental Protection Agency (EPA) protocols, no other materials were observed or tested which contain lead above the action level thresholds of 1.0 mg/cm^2. However, contractors shall be aware that not all components were tested and additional lead-based materials may exist on the property.

The buildings and spaces inspected for this project do not include or comprise residential spaces applicable to the requirements of EPA lead-based paint management regulations. Therefore, EPA 40 Code of Federal Regulations (CFR) 745: Lead-Based Paint Renovation, Repair and Painting (RRP) Program Rule and HUD requirements do not apply. However, renovation and demolition contractors should be informed of the presence of lead for OSHA compliance considerations.

For purposes of reading this report, and understanding which wall or component in a particular space was sampled, walls were assigned the letters A, B, C, or D. The wall labeled as "A" is the address side of the building; walls B, C, and D will follow clockwise in succession.

V. Observations and Cautionary Statements

Vermiculite

Vermiculite has been used as loose insulation in attics, walls, CMU block, and as a component of plaster, fireproofing and other building materials. The NYS Department of Health considers Vermiculite to be an asbestos-containing material, and that building materials containing more than 10% Vermiculite should be treated as asbestos-containing.

Vermiculite was not observed in spaces and materials inspected for this project. Testing for Vermiculite was performed at two locations through the basement concrete walls, and no loose-fill Vermiculite was observed. However, cautionary measures should still be taken during demolition to ensure that proper steps are taken if Vermiculite is discovered in previously hidden locations. If Vermiculite is discovered, work should be stopped immediately to address the issue and prevent the uncontrolled release and distribution of an asbestos-containing material.

Potentially Hidden/Inaccessible RBMs

Although this inspection was conducted in a manner consistent with recognized professional practices, the potential does exist for additional RBMs to be inaccessible, hidden, and undiscovered in the area inspected.

Asbestos Bulk Sample Summary Table

Asbestos Bulk Sample Summary Table

Pre-Demolition Regulated Building Materials Inspection
124 Route 17K
Newburgh, New York 12550

Items in Bold are Confirmed ACM

Sample #	*Type of Material*	*Sample Location*	*Results % Asbestos*
1A	Gray Plaster	Living Room	None Detected
1B	Gray Plaster	Dining Room	None Detected
1C	Gray Plaster	Kitchen	None Detected
1D	Gray Plaster	Bedroom #1	None Detected
1E	Gray Plaster	Bedroom #3	None Detected
1F	Gray Plaster	Bathroom	None Detected
2A	White Plaster	Living Room	None Detected
2B	White Plaster	Dining Room	None Detected
2C	White Plaster	Kitchen	None Detected
2D	White Plaster	Bedroom #1	None Detected
2E	White Plaster	Bedroom #3	None Detected
2F	White Plaster	Bathroom	None Detected
3A	Drywall	Den Area	None Detected
3B	Drywall	Foyer Closet	None Detected
3C	Drywall	Corridor Closet	None Detected
3D	Drywall	Pantry	None Detected
3E	Drywall	Bedroom #1	None Detected
4A	Tan 9” Floor Tile	Den – Floor (under carpet pad)	None Detected
4B	Tan 9” Floor Tile	Den – Floor (under carpet pad)	None Detected

Asbestos Bulk Sample Summary Table

Pre-Demolition Regulated Building Materials Inspection
124 Route 17K
Newburgh, New York 12550

Items in Bold are Confirmed ACM

Sample #	*Type of Material*	*Sample Location*	*Results % Asbestos*
5A	Black Mastic	Den – Floor (under 9" Floor Tile)	None Detected
5B	Black Mastic	Den – Floor (under 9" Floor Tile)	None Detected
6A	Black 9" Floor Tile	Den - Floor	None Detected
6B	Black 9" Floor Tile	Kitchen - Floor	None Detected
7A	Black Flooring	Kitchen – Under 9" Floor Tile	None Detected
7B	Black Flooring	Kitchen – Under 9" Floor Tile	None Detected
8A	Red 9" Floor Tile	Kitchen - Floor	None Detected
8B	Red 9" Floor Tile	Kitchen - Floor	None Detected
9A	Tan/Black Streaks 9" Floor Tile	Kitchen – Floor	None Detected
9B	Tan/Black Streaks 9"Floor Tile	Kitchen - Floor	None Detected
10A	Black/White Linoleum	Kitchen – Floor	None Detected
10B	Black/White Linoleum	Kitchen – Floor	None Detected
11A	Pink Ceramic Flooring	Bathroom	None Detected
11B	Pink Ceramic Flooring	Bathroom	None Detected
12A	Silver Paper Backing	Foyer – Inside Baseboard Heater	None Detected
12B	Silver Paper Backing	Living Room – Inside Baseboard Heater	None Detected
13A	Gray Grout	Living Room – In Seams of Fireplace Glass	None Detected
13B	Gray Grout	Bathroom - Floor	None Detected
14A	**White Insulation**	**Basement Furnace**	**80% Chrysotile**

Asbestos Bulk Sample Summary Table

Pre-Demolition Regulated Building Materials Inspection
124 Route 17K
Newburgh, New York 12550

Items in Bold are Confirmed ACM

Sample #	*Type of Material*	*Sample Location*	*Results % Asbestos*
14B	**White Insulation**	**Basement Furnace**	**Not Analyzed Duplicate of 14A**
15A	Gray Sealant	Basement Pipe Penetration	None Detected
15B	Gray sealant	Basement Pipe Penetration	None Detected
16A	White Wrap	Basement – Around Wiring	None Detected
16B	White Wrap	Basement – Around Wiring	None Detected
17A	Sealant	Living Room – Around Interior Door Frame	None Detected
17B	Sealant	Den - Around Vinyl Window Frame	None Detected
18A	Green Shingles	House Roof – Layer 2	None Detected
18B	Green Shingles	Garage Roof – Layer 2	None Detected
19A	**Black Roofing Tar**	**House Roof – Perimeter of Roof (beneath shingles)**	**18% Chrysotile**
19B	**Black roofing Tar**	**House Roof – Perimeter of Roof (beneath shingles)**	**Not Analyzed Duplicate of 19A**
20A	Black/White Specks Shingles	House Roof – Top Layer	None Detected
20B	Black/White Specks Shingles	Garage Roof – Top Layer	None Detected
21A	**Roofing Cement**	**Base of Chimney**	**21% Chrysotile**
21B	**Roofing Cement**	**Base of Chimney**	**Not Analyzed Duplicate of 21A**
22A	Gray Caulk	Around Exterior Window	None Detected
22B	Gray Caulk	Around Exterior Window	None Detected
23A	White Caulk	Around Exterior Window	None Detected

Asbestos Bulk Sample Summary Table

Pre-Demolition Regulated Building Materials Inspection
124 Route 17K
Newburgh, New York 12550

Items in Bold are Confirmed ACM

Sample #	*Type of Material*	*Sample Location*	*Results % Asbestos*
23B	White Caulk	Around Exterior Window	None Detected
24A	**Gray Glazing Compound**	**Around Exterior Window Pane**	**4% Chrysotile**
24B	**Gray Glazing Compound**	**Around Exterior Window Pane**	**Not Analyzed Duplicate of 24A**
25A	Gray Wrap	Exterior Wiring	None Detected
25B	Gray Wrap	Exterior Wiring	None Detected
26A	White Masonry Coating	Exterior Window Ledge	None Detected
26B	White Masonry Coating	Exterior Window Ledge	None Detected

124 Route 17K - Garage Newburgh, New York 12550			
27A	Black Rolled on Roofing	Garage Roof – 3rd Layer	None Detected
27B	Black Rolled on Roofing	Garage Roof – 3rd Layer	None Detected
28A	Tan Glazing Compound	Exterior Garage Window	None Detected
28B	Tan Glazing Compound	Exterior Garage Window	None Detected
29A	Gray Stucco	Garage Interior Walls	None Detected
29B	Gray Stucco	Garage Interior Walls	None Detected
29C	Gray Stucco	Garage Interior Walls	None Detected
29D	Gray Stucco	Garage Interior Walls	None Detected

Appendix A
Inspection Fact Sheet

Inspection Fact Sheet

Name and Address of Building/Structure

124 Route 17K

Newburgh, New York 12550

Name and Address of Building/Structure Owner

Scannell Properties

294 Grove Lane East, Suite 140

Wayzata, Minnesota 55391

Name and Address of Owner's Agent

LaBella Associates, D.P.C.

300 State Street, Suite 201

Rochester, New York 14614

Name of the Firm & Person Conducting the Inspection

LaBella Associates, D.P.C.

Terry Allen *(NYSDOL Cert. #09-11225*)

Dates the Inspection Was Conducted

September 16 & 17, 2021

Appendix B
Sample Location Drawings

LaBella
Powered by partnership.

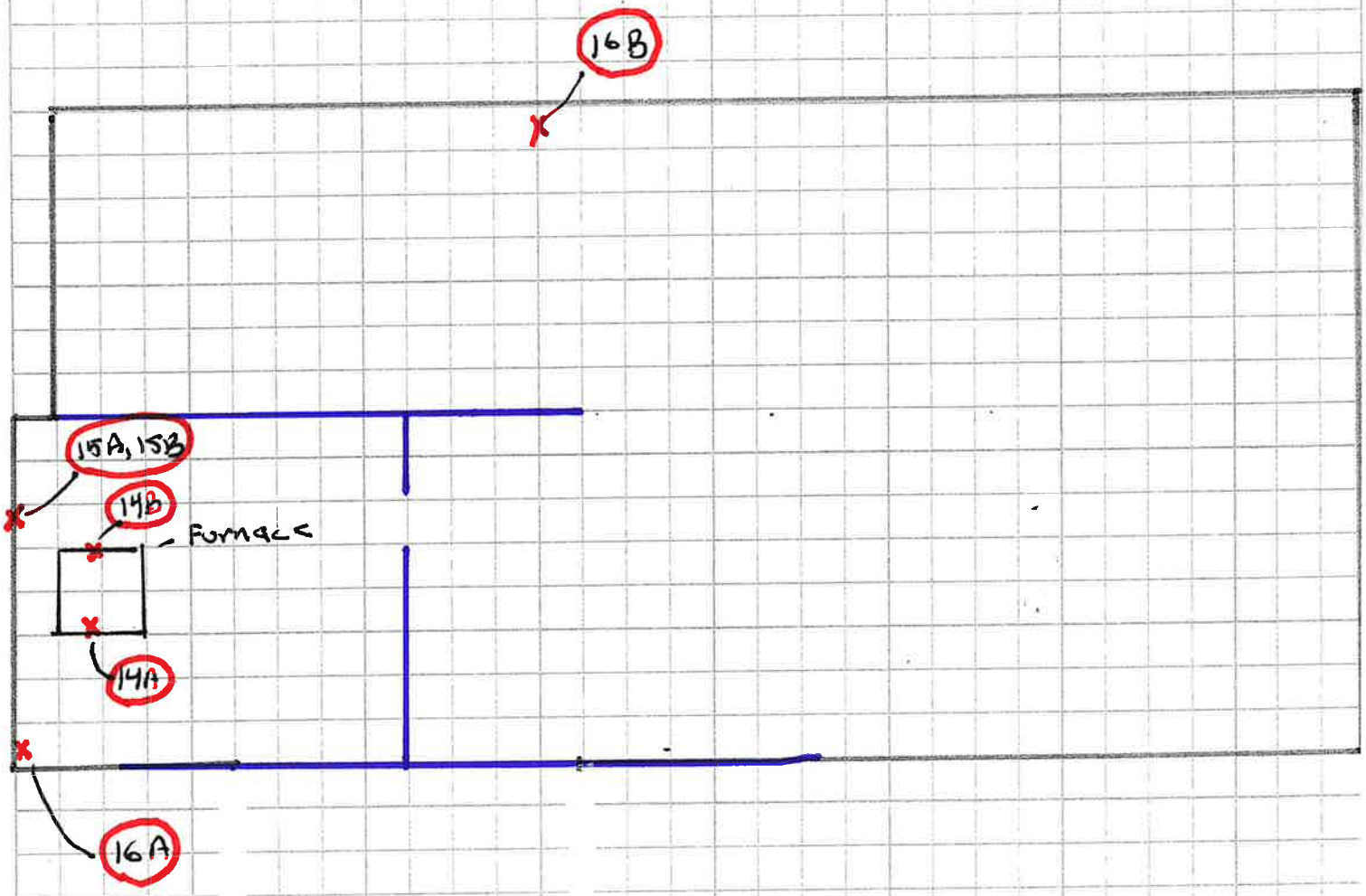
PROJECT _____ SHEET ____ OF ____

PROJECT NO. 2212998 CALC. BY _____ DATE _____

SUBJECT _____ SCALE _____

CHECKED BY _____

BASEMENT



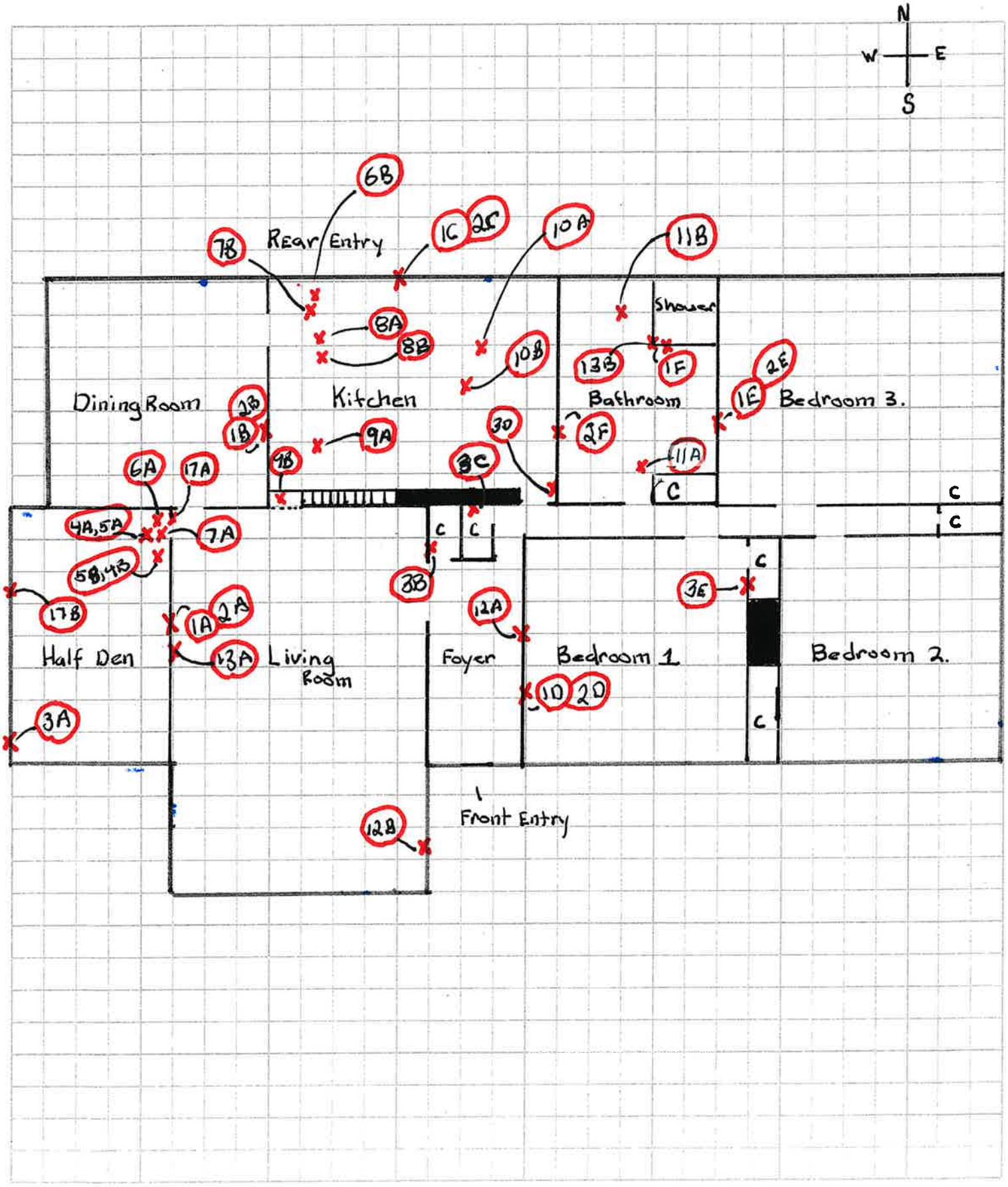
LaBella
Powered by partnership.

PROJECT 1st Floor (Interior) Drawing SHEET ____ OF ____

PROJECT NO. 2212998 CALC. BY ____ DATE ____

SUBJECT ____ SCALE ____

CHECKED BY ____



LaBella
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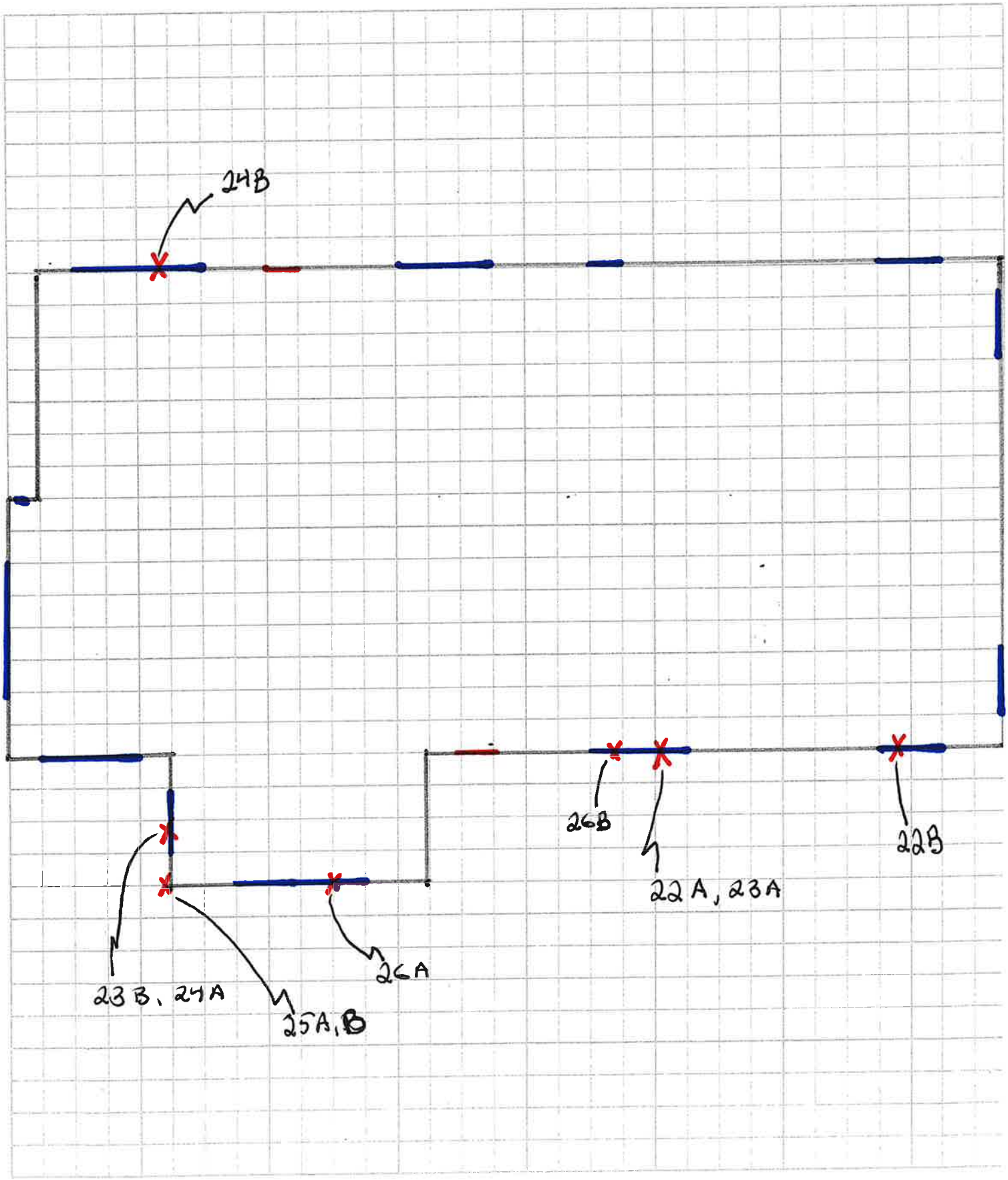
PROJECT Exterior Drawing SHEET ____ OF ____

PROJECT NO. 221298 CALC. BY ____ DATE ____

SUBJECT ____ SCALE ____

CHECKED BY ____



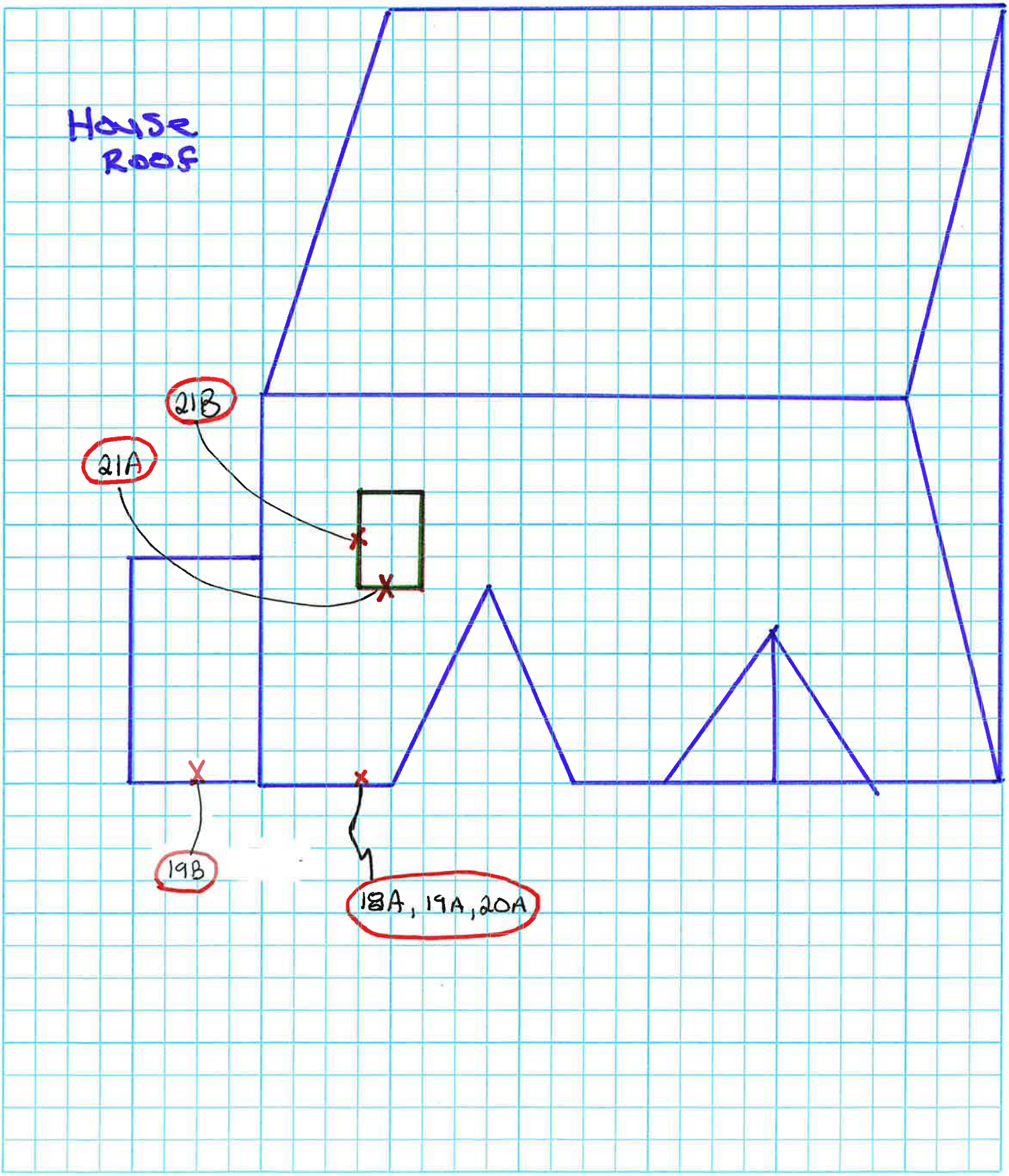
LaBella
Powered by partnership.

PROJECT _____ SHEET____ OF____

PROJECT NO. _____ CALC. BY _____ DATE _____

SUBJECT _____ SCALE _____

CHECKED BY _____



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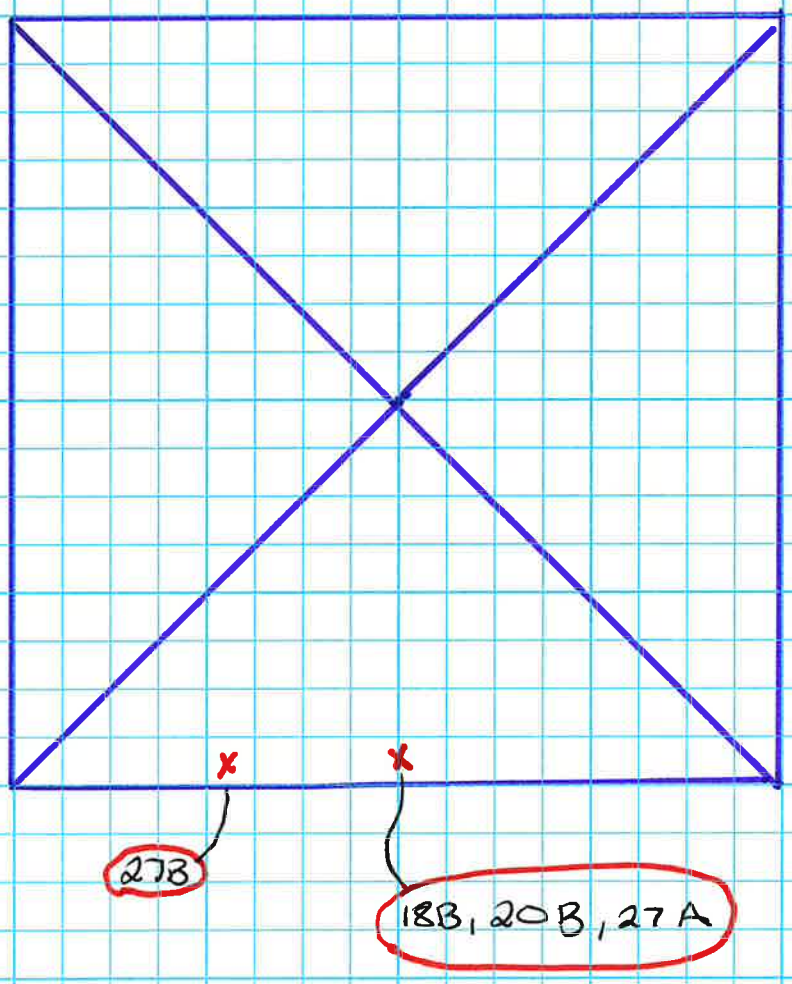
PROJECT _____ SHEET____ OF____

PROJECT NO. _____ CALC. BY _____ DATE _____

SUBJECT _____ SCALE _____

CHECKED BY _____

Garage Roof



LaBella
Powered by partnership.

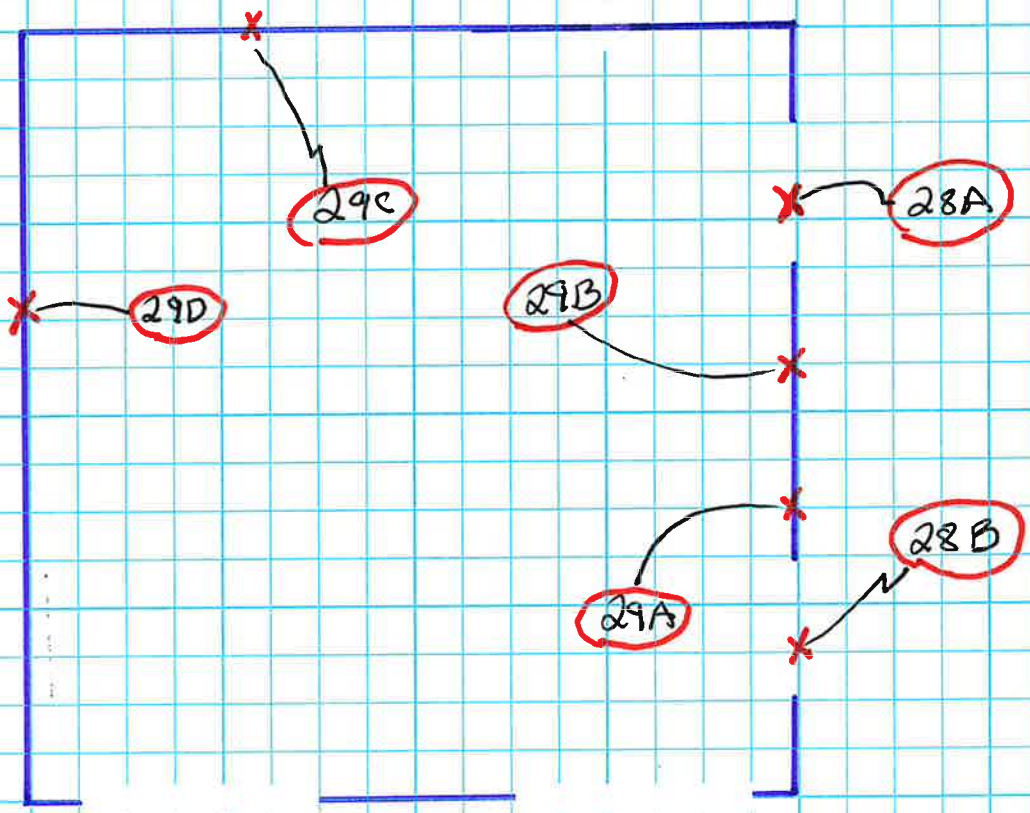
PROJECT _____ SHEET____ OF____

PROJECT NO. _____ CALC. BY _____ DATE _____

SUBJECT _____ SCALE _____

CHECKED BY _____

Garage Interior



Appendix C
Inspection Photos

Photo 1
General View of Green Furnace located in the Basement of the Residential Structure

Photo 2
View of Asbestos-Containing Insulation located within the Green Furnace

Photo 3
View of Asbestos-Containing Black Roofing Tar located around the Perimeter of the Roof (Residential House Only – Beneath Shingles)

Photo 4
View of Asbestos-Containing Gray Roofing Cement located around the Base of the Chimney

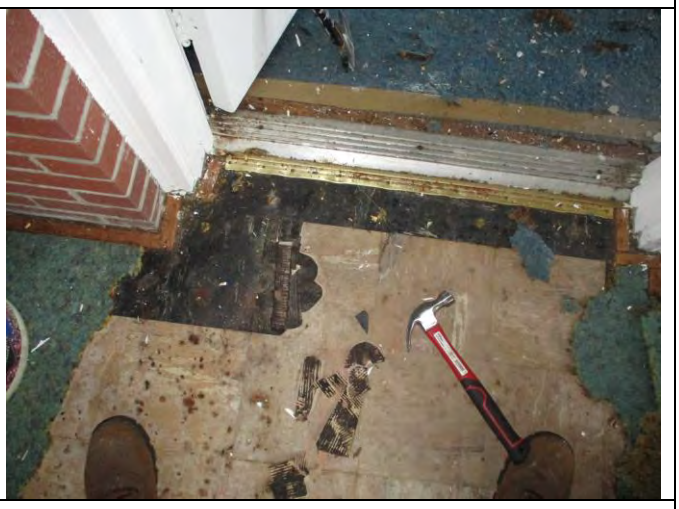
	
Photo 5 View of Asbestos-Containing Window Glazing Compound located in the Basement Windows	**Photo 6** General View of Exterior Windows on the Residential Structure with Asbestos-Containing Window Glazing
	
Photo 7 General View of Non-Asbestos Containing Flooring Systems located in the Kitchen	**Photo 8** General View of Non-Asbestos Containing Flooring Systems located in the Den

Photo 9
General View of Living Room

Photo 10
General View of Residential Structure looking towards the Den and Dining Room

Photo 11
General View of Attic

Photo 12
General View of Dilapidated Garage

Appendix D
Laboratory Analytical Reports

BULK SAMPLE ASBESTOS ANALYTICAL REPORT

LABELLA ASSOCIATES, P. C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(585) 454-6110 FAX(585) 454-3066

ELAP # 11184
AMA Lab, ELAP#10920, performs all TEM analysis.

LBL JOB # 67321

PLM Methods: 198.1, 198.4, & 198.6
RSD: 18.3%

LABELLA PROJECT # 2212998

673

CLIENT: Labella Associates
ADDRESS: 300 State Street
Rochester, NY 14614

SAMPLE TYPE: PLM Bulk
SAMPLE DATE: 09/17/2021

PROJECT LOCATION: 124 Rt.17K, Newburgh, NY

FIELD ID	LBL ID	method	ASBESTOS TYPE	%	OTHER FIBERS	%	MATRIX	%	COLOR / DESCRIPTION
1A	67321-1	P	ND		ND		MINERAL	100	GRAY PLASTER
1B	67321-2	P	ND		ND		MINERAL	100	GRAY PLASTER
1C	67321-3	P	ND		ND		MINERAL	100	GRAY PLASTER
1D	67321-4	P	ND		ND		MINERAL	100	GRAY PLASTER
1E	67321-5	P	ND		ND		MINERAL	100	GRAY PLASTER
1F	67321-6	P	ND		ND		MINERAL	100	GRAY PLASTER
2A	67321-7	P	ND		ND		MINERAL	100	WHITE PLASTER
2B	67321-8	P	ND		ND		MINERAL	100	WHITE PLASTER
2C	67321-9	P	ND		ND		MINERAL	100	WHITE PLASTER
2D	67321-10	P	ND		ND		MINERAL	100	WHITE PLASTER
2E	67321-11	P	ND		ND		MINERAL	100	WHITE PLASTER
2F	67321-12	P	ND		ND		MINERAL	100	WHITE PLASTER
3A	67321-13	P	ND		ND		MINERAL	100	GRAY DRYWALL
3B	67321-14	P	ND		ND		MINERAL	100	GRAY DRYWALL
3C	67321-15	P	ND		ND		MINERAL	100	GRAY DRYWALL
3D	67321-16	P	ND		ND		MINERAL	100	GRAY DRYWALL
3E	67321-17	P	ND		ND		MINERAL	100	GRAY DRYWALL
4A	67321-18	T	ND		ND		MIN/VINYL	100	TAN FLOOR TILE
4B	67321-19	T	ND		ND		MIN/VINYL	100	TAN FLOOR TILE
5A	67321-20	G	ND		ND		MASTIC	100	BLACK MASTIC
5B	67321-21	G	ND		ND		MASTIC	100	BLACK MASTIC

Lab Director: Matt Smith Date: 9/20/21

ND - None Detected CELL-Cellulose JC - Joint Compound MIN - Mineral GLASS - Fiberglass <1 = Trace PLAS - Plaster
P - Friable PLM analytical result N - NOB PLM analytical result T - TEM analytical result IN - Inconclusive[1]
G - Gravimetric Matrix Reduction; Sample residue weight <1% of original sample weight, TEM not required. Vermiculite: Vermiculite is reported as an asbestos-containing mineral in accordance with NYSDOH determinations. See NYSDOH guidance, available upon request.

* **Please note**: Due to interference from sample matrix components, results reported via PLM method ELAP 198.1 as negative or Trace (<1%) may be inaccurate and reported as a False Negative. It is recommended that additional analytical techniques such as gravimetric reduction, TEM and others be used to reduce obscuring effects of matrix components yielding more accurate results.

1 "Polarized-light microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can be used to determine if this material can be considered to be non-asbestos containing."

BULK SAMPLE ASBESTOS ANALYTICAL REPORT

LBL JOB # 67321

PLM Methods 198.1, 198.4, 198.6 & EPA 600/M4/82/020

FIELD ID	LBL ID	method	ASBESTOS TYPE	%	OTHER FIBERS	%	MATRIX	%	COLOR / DESCRIPTION
6A	67321-22	T	ND		ND		MIN/VINYL	100	BLACK FLOOR TILE
6B	67321-23	T	ND		ND		MIN/VINYL	100	BLACK FLOOR TILE
7A	67321-24	G	ND		CELLULOSE	50	TAR	50	BLACK FLOORING
7B	67321-25	G	ND		CELLULOSE	50	TAR	50	BLACK FLOORING
8A	67321-26	T	ND		ND		MIN/VINYL	100	RED FLOOR TILE
8B	67321-27	T	ND		ND		MIN/VINYL	100	RED FLOOR TILE
9A	67321-28	T	ND		ND		MIN/VINYL	100	TAN/BLACK FLOOR TILE
9B	67321-29	T	ND		ND		MIN/VINYL	100	TAN/BLACK FLOOR TILE
10A	67321-30	T	ND		ND		MIN/VINYL	100	BLACK/WHITE LINOLEUM
10B	67321-31	T	ND		ND		MIN/VINYL	100	BLACK/WHITE LINOLEUM
11A	67321-32	P	ND		ND		MINERAL	100	PINK CERAMIC FLOOR TILE
11B	67321-33	P	ND		ND		MINERAL	100	PINK CERAMIC FLOOR TILE
12A	67321-34	G	ND		CELLULOSE	50	TAR	50	SILVER PAPER BACKING
12B	67321-35	G	ND		CELLULOSE	50	TAR	50	SILVER PAPER BACKING
13A	67321-36	P	ND		ND		MINERAL	100	GRAY GROUT
13B	67321-37	P	ND		ND		MINERAL	100	GRAY GROUT
14A	67321-38	P	CHRYSOTILE	80	ND		MINERAL	20	WHITE INSULATION
15A	67321-39	P	ND		ND		MINERAL	100	GRAY CAULK/SEALANT
15B	67321-40	P	ND		ND		MINERAL	100	GRAY CAULK/SEALANT
16A	67321-41	G	ND		CELLULOSE	70	TAR	30	WHITE WRAP
16B	67321-42	G	ND		CELLULOSE	70	TAR	30	WHITE WRAP
17A	67321-43	P	ND		ND		RUBBER	100	WHITE RUBBER SEALANT
17B	67321-44	P	ND		ND		RUBBER	100	WHITE RUBBER SEALANT
18A	67321-45	G	ND		CELLULOSE	35	TAR	65	GREEN ROOF SHINGLE
19A	67321-46	N	CHRYSOTILE	18	ND		TAR	82	BLACK ROOFING
20A	67321-47	T	ND		CELLULOSE	35	TAR	65	BLACK/WHITE ROOF SHINGLE
20B	67321-48	T	ND		CELLULOSE	35	TAR	65	BLACK/WHITE ROOF SHINGLE
21A	67321-49	N	CHRYSOTILE	21	ND		TAR	79	GRAY ROOFING CEMENT

Lab Director: Matt Smith Date: 9/20/21

ND - None Detected CELL-Cellulose JC - Joint Compound MIN - Mineral GLASS - Fiberglass <1 = Trace PLAS - Plaster
P - Friable PLM analytical result N - NOB PLM analytical result T - TEM analytical result IN - Inconclusive[1]
G - Gravimetric Matrix Reduction: Sample residue weight <1% of original sample weight, TEM not required. Vermiculite: Vermiculite is reported as an asbestos-containing mineral in accordance with NYSDOH determinations. See NYSDOH guidance, available upon request.

*** Please note**: Due to interference from sample matrix components, results reported via PLM methods EPA 600/M4/82/020 and ELAP 198.1 as negative or Trace (<1%) may be inaccurate and reported as a False Negative It is recommended that additional analytical techniques such as gravimetric reduction, TEM and others be used to reduce obscuring effects of matrix components yielding more accurate results.

1 "Polarized-light microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can be used to determine if this material can be considered to be non-asbestos containing."

BULK SAMPLE ASBESTOS ANALYTICAL REPORT

LBL JOB # 67321

PLM Methods 198.1, 198.4, 198.6

FIELD ID	LBL ID	method	ASBESTOS TYPE	%	OTHER FIBERS	%	MATRIX	%	COLOR / DESCRIPTION
22A	67321-50	T	ND		ND		MIN/BINDER	100	GRAY/WHITE CAULK
22B	67321-51	T	ND		ND		MIN/BINDER	100	GRAY/WHITE CAULK
23A	67321-52	T	ND		ND		MIN/BINDER	100	WHITE CAULK
23B	67321-53	T	ND		ND		MIN/BINDER	100	WHITE CAULK
24A	67321-54	N	CHRYSOTILE	4	ND		MIN/BINDER	96	GRAY GLAZING
25A	67321-55	P	ND		CELLULOSE	80	MINERAL	20	GRAY WRAP
25B	67321-56	P	ND		CELLULOSE	80	MINERAL	20	GRAY WRAP
26A	67321-57	T	ND		ND		MIN/BINDER	100	WHITE MASONRY COATING
26B	67321-58	T	ND		ND		MIN/BINDER	100	WHITE MASONRY COATING
27A	67321-59	G	ND		CELLULOSE	60	TAR	40	BLACK ROLLED-ON ROOFING
27B	67321-60	G	ND		CELLULOSE	60	TAR	40	BLACK ROLLED-ON ROOFING
28A	67321-61	T	ND		ND		MIN/BINDER	100	TAN GLAZING
28B	67321-62	T	ND		ND		MIN/BINDER	100	TAN GLAZING
29A	67321-63	P	ND		ND		MINERAL	100	GRAY STUCCO
29B	67321-64	P	ND		ND		MINERAL	100	GRAY STUCCO
29C	67321-65	P	ND		ND		MINERAL	100	GRAY STUCCO
29D	67321-66	P	ND		ND		MINERAL	100	GRAY STUCCO

Lab Director: Matt Smith Date: 9/20/21

ND - None Detected CELL-Cellulose JC - Joint Compound MIN - Mineral GLASS - Fiberglass <1 = Trace PLAS - Plaster
P - Friable PLM analytical result N - NOB PLM analytical result T - TEM analytical result IN - Inconclusive[1]
G - Gravimetric Matrix Reduction; Sample residue weight <1% of original sample weight, TEM not required. Vermiculite: Vermiculite is reported as an asbestos-containing mineral in accordance with NYSDOH determinations. See NYSDOH guidance, available upon request.

* **Please note**: Due to interference from sample matrix components, results reported via PLM methods EPA 600/M4/82/020 and ELAP 198.1 as negative or Trace (<1%) may be inaccurate and reported as a False Negative. It is recommended that additional analytical techniques such as gravimetric reduction, TEM and others be used to reduce obscuring effects of matrix components yielding more accurate results.

1 "Polarized-light microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can be used to determine if this material can be considered to be non-asbestos containing."

ASBESTOS SAMPLING SURVEY
BULK SAMPLE LOG
AND CHAIN OF CUSTODY

Location: 124 Rt 17K Newburgh, NY 12550
Client: SCANNELL PROPERTIES
Job No.: 2212998
Rates: Std.
Date: 9/16/21 & 9/17/21
Relinquished by: Terry Allen Cert #09-11225
Sampled By: Terry Allen Cert #09-11225
Received by: M Smith
LaBella Lab No.: 67321
Number of Samples:

	Field ID #	Sample Location	Type of Suspect ACM to be Analyzed	Approx. Amount	Condition
1	1A	Living Room	Gray Plaster		
2	1B	Dining Room			
3	1C	Kitchen Area			
4	1D	Bedroom # 1			
5	1E	Bedroom # 3			
6	1F	Bathroom			
7	2A	Living Room	White Plaster		
8	2B	Dining Room	White Plaster		
9	2C	Kitchen			
10	2D	Bedroom #4			
11	2E	Bedroom #3			
12	2F	Bathroom			
13	3A	DEN	Drywall		
14	3B	Foyer Closet			
15	3C	Corridor Closet			
16	3D	Pantry			
17	3E	Bedroom #5			
T 18	4A	Den Area	9x9 Tan F/T		
T 19	4B	" "	" "		
G 20	5A	Den Area	Blk Mastic		
G 21	5B	" "	" "		
T 22	6A	Den	9x9 Blk F/T		
T 23	6B	Kitchen	" "		
G 24	7A	Den	Blk Flooring		
G 25	7B	Kitchen	" "		
T 26	8A	Kitchen	9x9 Red F/T		
T 27	8B				
T 28	9A		9x9 Tan/Blk Streaks		
T 29	9B				
T 30	10A		Blk & white linoleum		
T 31	10B				

ASBESTOS SAMPLING SURVEY
BULK SAMPLE LOG
AND CHAIN OF CUSTODY

Location: 124 Rt 17K Newburgh, NY 12550
Client: SCANNELL PROPERTIES
Job No.: 2212998
Rates: Std.
Date: 9/16 & 9/17/24
Relinquished by: Terry Allen Cert #09-11225
Sampled By: Terry Allen Cert #09-11225
Received by: M Smith
LaBella Lab No.: 67321
Number of Samples:

	Field ID #	Sample Location	Type of Suspect ACM to be Analyzed	Approx. Amount	Condition
P 32	11A	Bathroom	Pink ceramic f/t		
P 33	11B	" "			
G 34	12A	Foyer	Silver Paper Backing		
G 35	12B	Living Room	" "		
P 36	13A	Living Room,	Gray Grout		
P 37	13B	Bathroom	" "		
+P 38 V	14A	Basement Furnace	White insulation		
	14B	" "	" "		
P 39	15A	Basement Pipe	Gray Caulk/Sealant		
P 40	15B	" "	" "		
G 41	16A	Basement +	white wrap		
G 42	16B	" "	" "		
P 43	17A	Living Room	rubber white sealant		
P 44	17B	Kitchen	" "		
+N 45 V	18A	House Roof	Green Shingles		
	18B	Garage Roof	"		
+N 46 V	19A	Roofing Field	Blk Roofing		
	19B	" "	" "		
T 47	20A	House Roof	Blk/white Jacks Shingles		
T 48	20A	Garage Roof	" "		
+N 49 V	21A	Chimney	Roofing Cement		
	21B	" "	" "		

ASBESTOS SAMPLING SURVEY
BULK SAMPLE LOG
AND CHAIN OF CUSTODY

Location: 124 Rt 17K Newburgh, NY 12550
Client: SCANNELL PROPERTIES
Job No.: 2212998
Rates: Std.
Date: 9/16 & 9/17
Relinquished by: Terry Allen Cert #09-11225
Sampled By: Terry Allen Cert #09-11225
Received by: M Smith
LaBella Lab No.: 67321
Number of Samples:

	Field ID #	Sample Location	Type of Suspect ACM to be Analyzed	Approx. Amount	Condition
T 50	22A	Exterior Windows	Gray/White Caulk		
T 51	22B	" "	" "		
T 52	23A		White Caulk		
T 53	23B				
+N 54 V	24A 24B		Gray Glazing "		
P 55	25A	Exterior wire	Gray wrap		
P 56	25B	" "	" "		
T 57	26A	window ledge	white masonry coating		
T 58	26B	" "			
G 59	27A	Gray Garage Roof	Rolled on Roofing (BLK)		
G 60	27B	Garage Roof			
T 61	28A	Garage Windows	Tan Glazing		
T 62	28B	" "	" "		
P 63	29A	Garage	Gray Stucco		
P 64	29B				
P 65	29C				
P 66	29D				

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Labella Associates (1126)
Address: 300 State Street
Rochester, NY 14614-1098

Attn:

Project: Pre-Demolition RBM Inspection
Location: 124 Route 17K, Newburgh, NY
Number: 2212998

Order #: 439873

Matrix Bulk
Received 09/23/21
Reported 09/30/21

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
439873-001	22A					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
Aroclor - 1221	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
Aroclor - 1232	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
Aroclor - 1242	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
Aroclor - 1248	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
Aroclor - 1254	SW846 8082A	**1900**	480	µg/kg	09/25/21	AE
Aroclor - 1260	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
Aroclor - 1262	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
Aroclor - 1268	SW846 8082A	**<481**	480	µg/kg	09/25/21	AE
439873-002	23A					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1221	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1232	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1242	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1248	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1254	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1260	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1262	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
Aroclor - 1268	SW846 8082A	**<470**	469	µg/kg	09/25/21	AE
439873-003	24A					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
Aroclor - 1221	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
Aroclor - 1232	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
Aroclor - 1242	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
Aroclor - 1248	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
Aroclor - 1254	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Labella Associates (1126)
Address: 300 State Street
Rochester, NY 14614-1098

Attn:

Project: Pre-Demolition RBM Inspection
Location: 124 Route 17K, Newburgh, NY
Number: 2212998

Order #: 439873

Matrix Bulk
Received 09/23/21
Reported 09/30/21

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
439873-003	24A					
Aroclor - 1260	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
Aroclor - 1262	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
Aroclor - 1268	SW846 8082A	**<484**	483	µg/kg	09/25/21	AE
439873-004	28A					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1221	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1232	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1242	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1248	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1254	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1260	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1262	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE
Aroclor - 1268	SW846 8082A	**<473**	473	µg/kg	09/25/21	AE

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Labella Associates (1126)
Address: 300 State Street
Rochester, NY 14614-1098

Attn:

Project: Pre-Demolition RBM Inspection
Location: 124 Route 17K, Newburgh, NY
Number: 2212998

Order #: 439873

Matrix Bulk
Received 09/23/21
Reported 09/30/21

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst

439873-09/30/21 08:42 AM

Reviewed By: **Kelly Muncy**
Manager

Surrogate Recoveries

439873-001 - PCB	
DCB	MI
TCMX	MI
439873-002 - PCB	
DCB	71%
TCMX	98%
439873-003 - PCB	
DCB	99%
TCMX	75%
439873-004 - PCB	
DCB	65%
TCMX	96%

State Certifications

Method	Parameter	New York	Virginia
SW846 8082A	Aroclor - 1016	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1221	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1232	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1242	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1248	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1254	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1260	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1262	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1268	ELAP Certified	VELAP Certified

State	Certificate Number
New York	ELAP 63558
Virginia	VELAP 11259

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

SCHNEIDER LABORATORIES, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

R 4

439873

V:\439\439873

thawks 9/23/2021 9:29:15 AM

UPS 1Z153E790356632628

Submitting Co.	Labella Associates DPC	Lab Use-WO #	
300 State Street		Acct #	
Rochester NY 14614		Phone #	585-454-6110
		Fax # & E-mail	Jminer@LaBellaPC.com

Project Name:	Pre-Demolition RBM Inspection
Project Location:	124 Route 17K, Newburgh, New York 12550
Project Number:	2212998
Purchase Order No.:	
TAT Requested	(Business Day) ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒ 10 ☐ Other: ____

Special Instructions [include requests for special reporting or data packages]

Please analyze for PCB

State Of Collection: NY

Analysis Request — **Other/IH Method**

Sample #	Date Sampled	Time Sampled	# containers	composite	grab	Matrix: aqueous	soil / sludge	air	wipe	oil	solid	BTEX 602 ☐ MTBE ☐ Naphthalene ☐	Purgeable Aromatics 8021 ☐	Petrol Hydrocarbons GC 8015M Diesel ☐ 8020M Gas ☐	TPH 418.1 ☐	Corrosivity ☐ Reactivity ☐ Flashpoint, Closed Cup ☐	Volatile Organics 624 ☐ 8260 ☐	Semivolatile Organics 625 ☐ 8270 ☐	PAHs 610 ☐ 8270 ☐ 8310 By HPLC ☐	TCLP Semi-Vols ☐ BNAs ☐ Pest ☐ Herb ☐ VOAs ☐ Full ☐	Pesticides 608 ☐ 8081 ☐ Herbicides 8151 ☐ PCB's 8082 ☒	Other/IH Method
22A	9/16/202		1	X							X										X	
23A	9/16/202		1	X							X										X	
24A	9/16/202		1	X							X										X	
28A	9/16/202		1	X							X										X	

Sampled by
NAME Terry Allen
SIGNATURE
DATE/TIME 9/16/2021

Relinquished to lab by
NAME Terry Allen
SIGNATURE
DATE/TIME 9/20/2021

☐ FX ☐ UPS ☐ USM ☐ HD ☐ DB

WB: _____

Preserved ☐ Yes ☐ No ☐ Ambient temp ☐ Ice °C pH Cl ☐ R ☐ S ☐ X

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

XRF Lead Sampling Summary Table
Pre-Demolition Regulated Building Materials Inspection
124 Route 17K – Newburgh, New York
LaBella Project No. 2212998

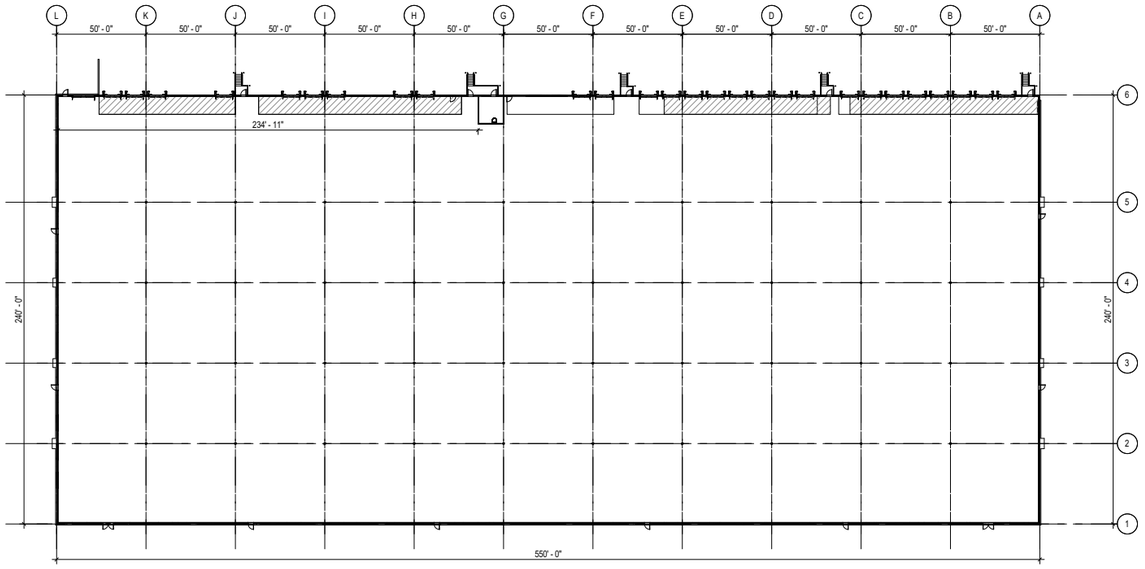
Reading No.	Location (Room)	Wall (A, B, C D) & Structure	Substrate	Color	XRF Result
1-6	Calibration Check	-----	-----	-----	PASS
7	*Living Room*	*A – Window Sill*	*Wood*	*White*	*2.1*
8	*Living Room*	*A – Window Casing*	*Wood*	*White*	*2.6*
9	*Living Room*	*B – Door Frame*	*Wood*	*White*	*4.5*
10	*Foyer*	*B – Door*	*Wood*	*White*	*3.0*
11	Foyer	D – Wall	Plaster	White	0.4
12	Foyer	C – Closet Wall	Drywall	Green	0.2
13	Foyer	B – Closet Wall	Drywall	Green	0.2
14	*Dining Room*	*C – Window Casing*	*Wood*	*Tan*	*2.7*
15	*Dining Room*	*D – Baseboard*	*Wood*	*Tan*	*1.9*
16	Bedroom #1	B – Wall	Plaster	White	0.2
17	Bedroom #1	C – Door Frame	Wood	White	0.8
18	Kitchen	C – Door Frame	Wood	Brown	0.1
19	*Kitchen*	*B – Window Casing*	*Wood*	*White*	*2.8*
20	Kitchen	A – Door Frame	Wood	Brown	0.1
21	*Kitchen*	*D – Pantry Door Frame*	*Wood*	*Yellow*	*1.6*
22	Bathroom	D – Door Frame	Wood	Pink	0.3
23	Bathroom	C – Window Casing	Wood	White	0.1
24	Bathroom	B - Wall	Plaster	White	0.1
25	*Bedroom #3*	*B – Baseboard*	*Wood*	*White*	*2.4*
26	*Bedroom #3*	*C – Window Casing*	*Wood*	*White*	*2.9*
27	*Exterior*	*A – Soffit*	*Wood*	*White*	*3.5*
28	Exterior	A – Window Sill	Concrete	White	0.1
29	*Garage*	*A – Door*	*Wood*	*White*	*1.4*
30	Garage	A – Door Casing	Wood	White	0.1
31	Garage	A - Door	Wood	White	0.0

XRF Lead Sampling Summary Table
Pre-Demolition Regulated Building Materials Inspection
124 Route 17K – Newburgh, New York
LaBella Project No. 2212998

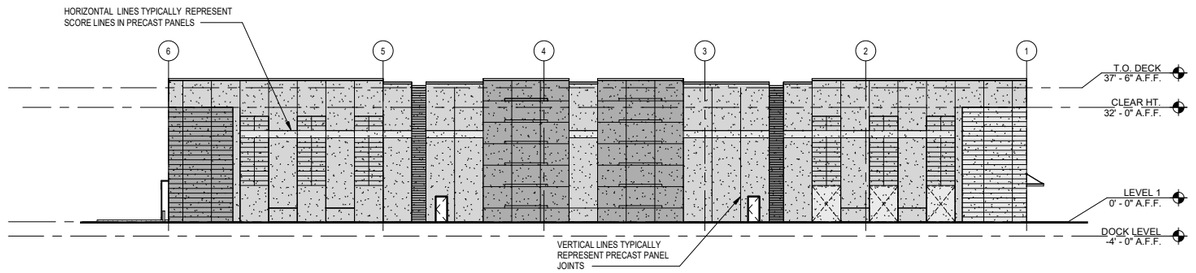
Reading No.	Location (Room)	Wall (A, B, C D) & Structure	Substrate	Color	XRF Result
32-37	Calibration Check	-----	-----	-----	PASS

Appendix E
Licenses and Certifications

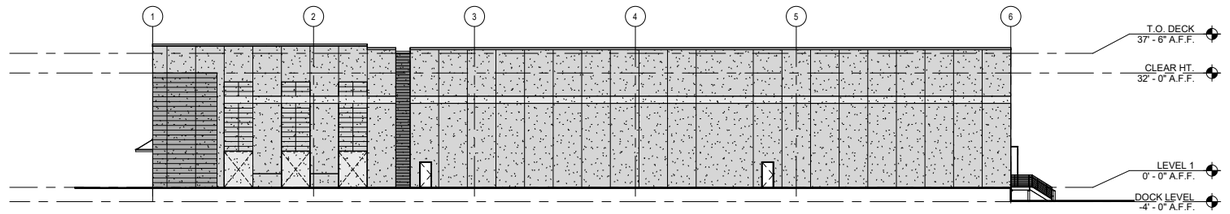
APPENDIX 12



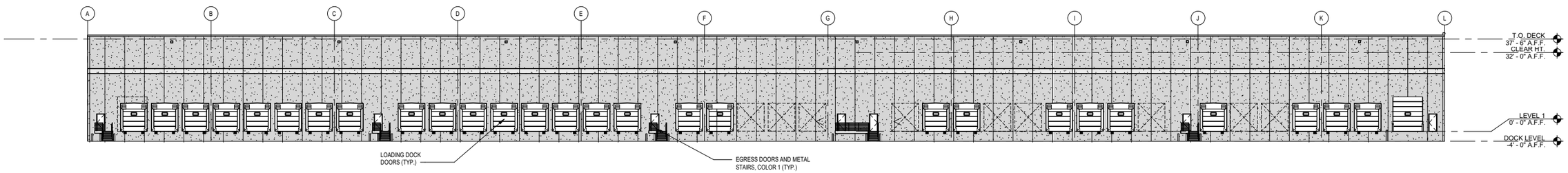
FLOOR PLAN
1" = 40'-0" | 1



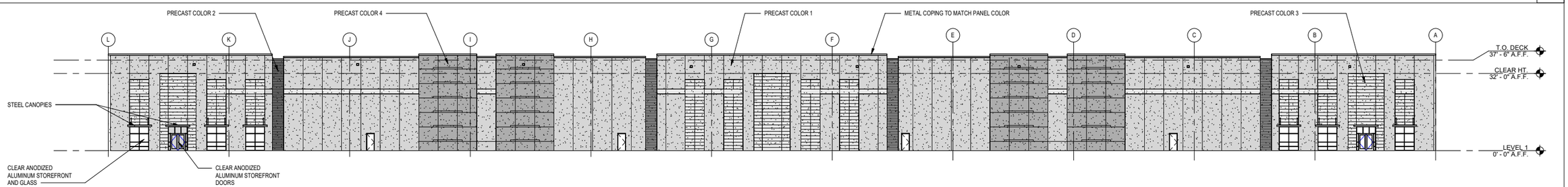
WEST
1" = 20'-0" | 2



EAST ELEVATION
1" = 20'-0" | 3



NORTH ELEVATION B
1" = 20'-0" | 4



SOUTH ELEVATION A
1" = 20'-0" | 5

Newburgh Commerce Center

124 Route 17K, Newburgh, NY 12550

A854

ELEVATIONS & FLOOR PLAN

PROJ. NO: **SA21114**

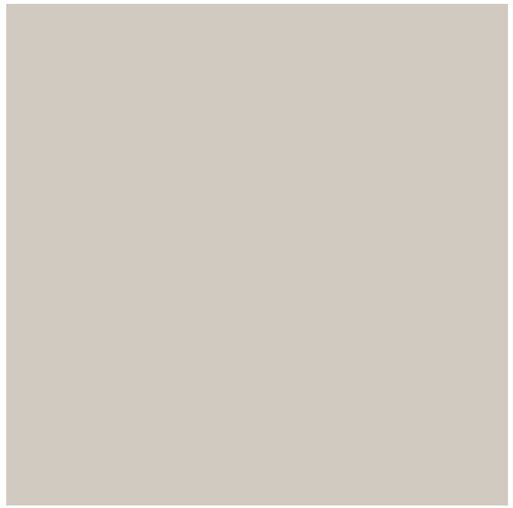
SCALE: **As indicated**

DATE: **11/23/21**

SCANNELL PROPERTIES

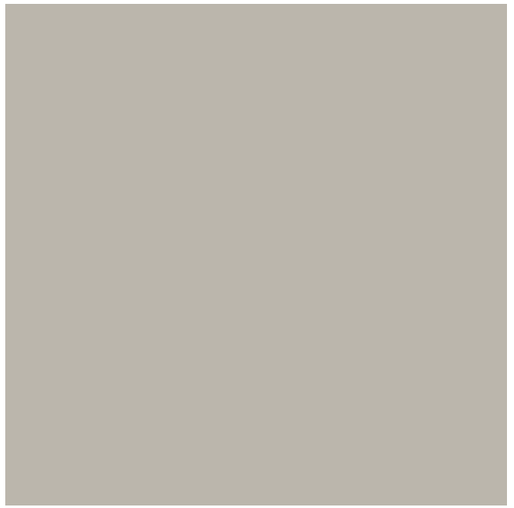
1000 lancaster street
suite 430
baltimore, md 21202

t: 617.848.9511
f: 617.639.0457
www.ci-designinc.com

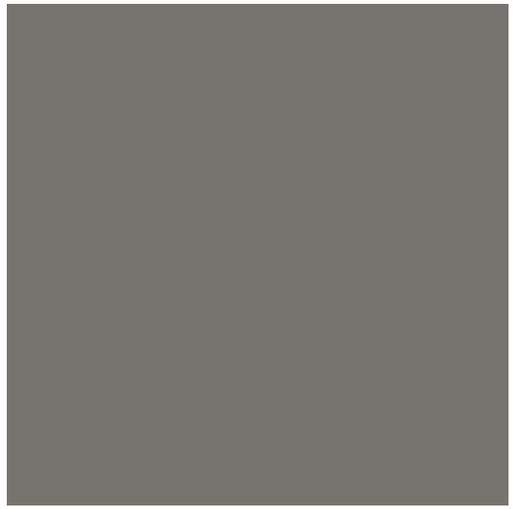


PRECAST COLOR 1
AGREEABLE GRAY
SW7029

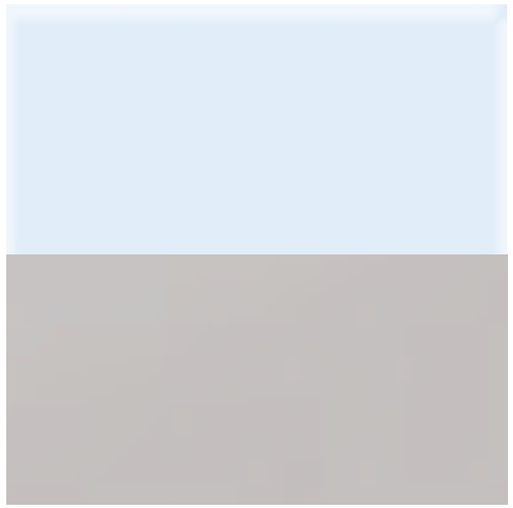
PRECAST COLOR 2
PORPOISE
SW7047



PRECAST COLOR 3
MINDFUL GRAY
SW7016



PRECAST COLOR 4
GAUNTLET GRAY
SW7019



ALUMINUM STOREFRONT
CLEAR ANODIZED
LOW-E GLASS

PREFABRICATED STEEL CANOPY
CLEAR ANODIZED

METAL COPING
COLOR TO MATCH CONCRETE PANELS

Newburgh Commerce Center
124 Route 17K, Newburgh, NY 12550

MATERIALS BOARD

PROJ. NO: **SA21114**
SCALE: N.T.S.
DATE: **11/29/21**

SCANNELL PROPERTIES

1000 lancaster street
suite 430
baltimore, md 21202

t: 617.848.9511
f: 617.639.0457
www.ci-designinc.com

APPENDIX 13

TIME OF PLANTING VIEW FROM 120 ROUTE 17K

TIME OF PLANTING VIEW FROM 122 ROUTE 17K

TIME OF PLANTING VIEW FROM 126 ROUTE 17K

TIME OF PLANTING VIEW FROM 128 ROUTE 17K

TIME OF PLANTING VIEW FROM NYS ROUTE 17K

PROPOSED:
PROJECT SITE
November 22, 2021

Visualization Study - Time of Planting Views

Newburgh, NY

SCANNELL PROPERTIES

YEAR 10 VIEW FROM 120 ROUTE 17K

YEAR 10 VIEW FROM 122 ROUTE 17K

YEAR 10 VIEW FROM 126 ROUTE 17K

YEAR 10 VIEW FROM 128 ROUTE 17K

YEAR 10 VIEW FROM NYS ROUTE 17K

PROPOSED:
PROJECT SITE
November 22, 2021

Visualization Study - Year 10 Planting Views

Newburgh, NY

SCANNELL PROPERTIES

APPENDIX 14

PHASE 1A LITERATURE SEARCH AND SENSITIVITY ASSESSMENT

NEWBURGH COMMERCE CENTER

124 ROUTE 17K

NEWBURGH, ORANGE COUNTY, NEW YORK

PREPARED FOR:

SCANNELL PROPERTIES
294 GROVE LANE EAST, SUITE 140
WAYZATA MN, 55391

HUDSON VALLEY
CULTURAL RESOURCE CONSULTANTS, LTD.
PO BOX 264

OCTOBER 2021

MANAGEMENT SUMMARY

SHPO Project Review Number (if available):

Involved State and Federal Agencies: **DEC**

Phase of Survey: **Phase 1A Literature Search & Sensitivity Assessment**

Location Information:

Location: **124 Route 17K**

Minor Civil Division: **Town of Newburgh**

County: **Orange County**

Survey Area (English & Metric)

Length: **1045'/318.5 m**

Width: **720'/219.5 m**

Depth (when appropriate):

Number of Acres Surveyed: **±13.833 acres (5.58 hectares)**

Number of Square Meters & Feet Excavated (Phase II, Phase III only): **N/A**

Percentage of the Site Excavated (Phase II, Phase III only):

USGS 7.5 Minute Quadrangle Map: **Newburgh, New York 2019**

Results of Architectural Survey

Number of buildings/structures/cemeteries within Project APE: **0**

Number of buildings/structures/cemeteries adjacent to Project APE: **0**

Number of previously determined NR listed or eligible buildings/structures/cemeteries/districts: **0**

Number of identified eligible buildings/structures/cemeteries/districts: **0**

Report Author (s): **Franco Zani, Jr., and Beth Selig, MA, RPA,**

Date of Report: **October 5, 2021**

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I. PHASE 1A LITERATURE SEARCH AND SENSITIVITY ASSESSMENT

A. NEWBURGH COMMERCE CENTER: PROJECT DESCRIPTION

In September of 2021, Hudson Valley Cultural Resource Consultants (HVCRC) was retained by Scannell Properties to complete a Phase 1A Literature Search and Sensitivity Assessment for the proposed Newburgh Commerce Center in Newburgh, Orange County, New York.

The purpose of the Phase 1 Cultural Resources Survey is to determine whether previously identified cultural resources (historic and archeological sites) are located within the boundaries of the proposed project, and to evaluate the potential for previously unidentified cultural resources to be located within the boundaries of the Project Area of Potential Effect (APE). All work was completed in accordance with the *Standards for Cultural Resource Investigations and the Curation of Archeological Collections published by the New York Archeological Council* (NYAC) and recommended for use by New York State Office of Parks, Recreation and Historic Preservation (OPRHP). The report has been prepared according to New York State OPRHP's *Phase 1 Archaeological Report Format Requirements*, established in 2005.

The background research as well as the cultural and environmental overviews were completed by Franco Zani Jr., and Beth Selig, MA, RPA, President and Principal Investigator with HVCRC. A project site visit was conducted by Franco Zani Jr., on September 22, 2021 to observe and photograph existing conditions within the Project APE. The information gathered during the walkover reconnaissance is included in the relevant sections of the report.

The Project APE is located on the northern side of Route 17K in an area that is comprised of by residential and commercial properties. The proposed project includes the construction of a new commercial and industrial center. The Newburgh Commerce Center, will consist of a 127,200 square foot buildings, with parking proposed on the eastern and western sides of the building. Stormwater management basins are proposed in the northeastern and southern portions of the parcel. The residential structure and garage will be removed. The landscape will be graded and leveled to accommodate the building and structure.

The Project APE is primarily overgrown fields, with a residential structure located in the southern portion of the parcel. The driveway for the house is a semi-circle that surrounds the house on three sides. A small garage is located to the northeast of the house. The garage is dilapidated and collapsing. A collapsed hoop house or Quonset hut is located on the northern side of the garage. The landscape within the Project APE is generally level, rising slightly to the west and northwest. The northern portion of the Project APE is primarily overgrown fields divided by tree lines and wooded areas.

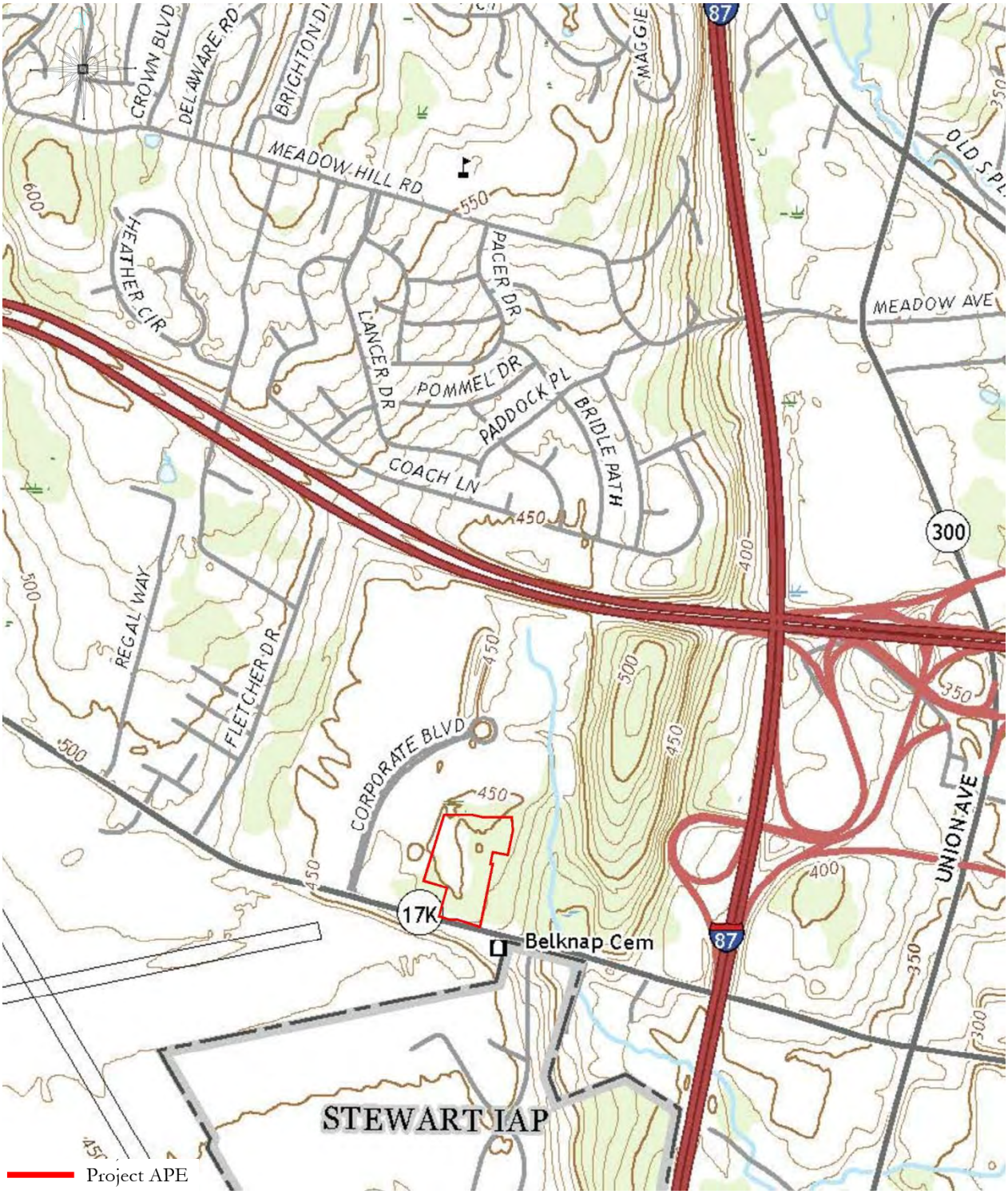

Figure 1: 2019 USGS Topographical Map. Newburgh, NY Quadrangle. 7.5 Minute Series. (Source: USGS.gov.) Scale: 1" =1400'.

Figure 2: 2020 Aerial Image showing the Project APE. Newburgh, NY (Source: Google Earth.) Scale: 1" =550'.

B. Environmental Conditions

The Project APE is a mix of overgrown fields, wooded areas and residential land. The landscape is mostly level terrace, with the elevations of 450' (137.2 m) Above Mean Sea Level (AMSL), sloping downward to 440' (134.1) to the south where the land was cut for the creation of Route 17K.

Ecology

The Project APE lies in a vegetation zone where the Northern Hardwood Forest Zone meets the Appalachian Oak Forest Zone. In the Northern Hardwood Forest Zone, sugar maple, birch, beech and hemlock are the predominant trees in this type of forest (Bailey 1995). In the Appalachian Oak Forest Zone, tall, broad-leaved deciduous trees predominate, particularly Red Oak and White Oak. The wooded areas of the Project APE contain trees with diameters that suggest relatively recent reforestation, probably within the last 30 to 50 years. The vegetation is predominantly deciduous trees.

Geology

The Project APE is located within the Hudson-Mohawk Lowlands, adjacent to the Catskill Mountains Physiographic Province. The Catskills rise considerably higher than the neighboring parts of the upland. Summit elevations exceed 2000' and some peaks are over 4000'. The mountainous character of the Catskills is due to the action of glaciers and streams carving deep valleys in the flat-lying, stratified sandstones and shales. These sedimentary stones are capped in the high areas with resistant conglomerates that are the bedrocks of the Catskills. The topography is controlled by the bedrock with steep valley sides being a normal occurrence. Minor landforms in the valleys are outwash, kames, kame moraines, deltas, alluvial flats and lacustrine plains. Upland deposits are predominantly glacial tills that are stony or contain flagstones. The only extensive lacustrine area is near Gilboa in Schoharie County. Soils on the other minor landforms are mostly water-laid deposits of granular material (Spectra 2004).

Specifically, the Project APE lies in the Northern Glaciated Shale and Slate Valleys. The Northern Glaciated Shale and Slate Valleys contain broad, irregular rolling to hilly valleys underlain by slaty shale and fine-grained sandstone covered by glacial drift. (Bryce et al. 2010). Escarpments of limestone in the east mark the descent into the Hudson Valley.

Drainage

The Project APE is located 1.14 miles (1.83k) to the northwest of Lake Washington. Orange Lake is located 2.5 miles to the northwest. These two ponds are fed by a series of small streams that drain the wetlands and higher elevations in the region.

Soils

Soil surveys provide a general characterization of the types and depths of soils that are found in an area. The characteristics of the soils within the Project APE have an important impact on the potential for the presence of cultural material, since the types of soils present affect the ability of an area to support human populations. The Soil Survey's mapped boundaries are considered approximate, as they generally correspond poorly to the actual boundaries of landforms and soils types within an area. The Natural Resources Conservation Service indicates that the soils within the Project APE are well drained channery silt loams (Table 1).

Figure 3: Aerial Image showing the soil classifications within the Project APE. (Source: Natural Resource Conservation Service). Scale: 1" =165'.

Table 1: Soil Unit Descriptions (Natural Resources Conservation Service)					
Map Unit Symbol	**Map Unit Name**	**Soil Horizons & Texture**	**Slope**	**Drainage**	**Landform**
Ab	Alden silt loam	H1 - 0 to 9 inches: silt loam H2 - 9 to 36 inches: silt loam H3 - 36 to 60 inches: gravelly fine sandy loam	0 to 3 %	Very poorly drained, hydric	Depressions
BnB	Bath-Nassau channery silt loams	H1 - 0 to 9 inches: channery silt loam H2 - 9 to 29 inches: channery silt loam H3 - 29 to 53 inches: very channery silt loam H4 - 53 to 57 inches: unweathered bedrock	3 to 8%	Well drained	Drumlinoid ridges, hills, till plains
		H1 - 0 to 10 inches: channery silt loam H2 - 10 to 19 inches: very channery silt loam H3 - 19 to 23 inches: unweathered bedrock		Somewhat excessively drained	Benches, ridges, till plains
ErA	Erie gravelly silt loam	H1 - 0 to 10 inches: gravelly silt loam H2 - 10 to 18 inches: channery silt loam H3 - 18 to 56 inches: channery silt loam H4 - 56 to 70 inches: channery silt loam	0 to 3 %	Somewhat poorly drained	Drumlinoid ridges, hills, till plains
MdB	Mardin gravelly silt loam	Ap - 0 to 8 inches: gravelly silt loam Bw - 8 to 15 inches: gravelly silt loam E - 15 to 20 inches: gravelly silt loam Bx - 20 to 72 inches: gravelly silt loam	3 to 8%	Moderately well drained	Mountains, hills

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Photo 5: To the north of the residential structure the fields are overgrown with weeds. View to the northwest.

Photo 6: Overgrown wooded areas mark the boundaries of former agricultural fields. View to the northeast.

C. Recorded Archaeological Sites and Surveys

To gather information on the history and prehistory of the Project APE and the surrounding region, HVCRC consulted historical documents and maps available at the Library of Congress, David Rumsey Cartography Associates and the New York Public Library. HVCRC reviewed the combined site files of the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) and the New York State Museum (NYSM) for information regarding previously recorded archeological sites within one mile (1.6 km) of the Project APE. HVCRC also consulted regional Native American sources (e.g. Beauchamp 1900; Parker 1920; Ritchie 1980; Ritchie and Funk 1973) for descriptions of regional archeological sites. In addition, a review of the site files was completed to identify National Register Properties within a one-half mile radius of the Project APE.

Previously Recorded Archaeological Sites

Three archaeological sites have been previously identified within a one mile radius of the Project APE. The sites are summarized in the Table below and will not be impacted by the proposed undertaking.

Table 2: Previously Recorded Archaeological Sites within 1- mile radius

Site Number	Site Name	Distance from Project Area	Time Period	Site Type Materials Recovered
07114.000105	Hurd Farmstead	5280' / 1.6 km	Historic	Hurd House foundation. c. 1865.
07114.000137	Mahood Outbuilding Foundation Site	3960' / 1.2 km	Historic	Early nineteenth century farmstead, no foundation
07114.000156	Belknap Farm Site	2640' / 0.8 km	Historic	Nineteenth century historic foundations

Previously Completed Archaeological Surveys

As part of the research for this report, surveys completed for projects in the general area were consulted. More than six surveys have been completed within a one mile radius of the Project APE. These surveys were completed for both municipal undertakings as well as residential developments and have documented primarily historic sites within the vicinity of the Project APE.

D. Native American Context

During the Paleoindian period, mobile bands of hunter-gatherers occupied what is now New York State. These bands exploited the resources of the landscape by hunting game and gathering plants. Paleoindian sites have been in the upland regions a short distance from the Hudson River (Ritchie and Funk 1976). Frequently these sites are associated with sources of stone, as is the case with a site in Greene County where a quarry-workshop complex has been excavated. More frequently, the sites appear to have been temporary campsites located where it would be possible to watch for game as it moved across the landscape (Ritchie 1980). Ritchie (1980) identified more than ten locations within Orange County where fluted points, the hallmark projectile point of this period, have been recovered. The majority of the Paleoindian period sites identified in the Hudson River Valley appear to have been temporary campsites.

With the lowering of the water table during the Archaic period, subsistence methods and technologies changed in response to climatic warming. This was accompanied by an increase in vegetation density and diversity, changing faunal migrations and a change in sea levels (Sirkin 1977). The Archaic Period was likely a time of incipient sedentism among the inhabitants of the area. Changes in settlement and subsistence patterns that occurred during the Late Archaic period reflect an increased exploitation of coastal and riverine resources (Snow 1980). Ground stone food processing tools are more common, reflecting an increase in processed plant resources in the diet. Projectile points commonly found at Late Archaic sites include narrow stemmed, broad stemmed and side notched types (Snow 1980). The Laurentian Tradition of the Late Archaic is the most represented throughout New York State, and is subdivided into a series of phases: Vergennes, Vosburg, Sylvan Lake, River and Snook Kill. Ground stone tools appear, and steatite bowls are associated with the later part of this time period (Pretola and Freedman 2007).

The Woodland period is distinguished from the Archaic in part, by the use of ceramics. Horticulture, although practiced in other parts of North America at an earlier date, does not appear in the Hudson River Valley until c. 1000 AD (Funk 1976). The soil and moisture requirements for the cultivation of maize, beans, and squash created a marked change in the pattern of land use and the selection of locations for villages (Hart and Brumbach 2005). It was no longer necessary for the entire group to move from place to place following a seasonal round of migration fueled by fluctuating sources of food. Cord marked ceramics became common during the Middle Woodland period, and incised vessels, many with a collar area, are typical of Late Woodland cultures (Lavin et al 1993).

Early histories indicate that the bluffs that punctuate the western banks of the Hudson River held particular importance to the Native Americans of the Hudson River Valley. Danskammer Point, a plateau of several acres is frequently mentioned as the site of Native American rituals, thus earning its Dutch name, the Devil's dancing grounds ("De Duyfel's Dans Kammer"). Woolsey, who published a *History of Marlborough, Ulster County* in 1908, wrote that Danskammer was never a place of residence, but a place where the Tappans, Haverstraws, Esopus, Wappingers and other tribes came from time to time to hold their ceremonies before "starting on expeditions of hunting, fishing, or war, to ascertain whether they would be successful or not" (Woolsey 1908:53). The introduction of small pox by the Dutch reduced the Native Population to less than 1000 by the year 1700 (MacCracken 1956).

In 2010, extensive excavations were completed at the Woodlawn Manor site located near the mouth of the Moodna Creek, five miles to the southeast of the Project APE. This site yielded cultural material dating from the Early Archaic period through the late Woodland Period. In 2016, HVCRC completed excavations at the Lafayette site, located near Plum Point and the mouth of Moodna Creek. Diagnostic material recovered during the investigations dated the occupations at this site to the Late Archaic and Early Woodland.

E. HISTORIC CONTEXT

The following discussion of historic and cartographic research provides information concerning the likelihood of encountering Map Documented Structures (MDS) and other intact historic cultural resources within the boundaries of the Project APE.

Orange County is one of New York's original counties, and was established in 1683 (Ruttenber and Clark 1881). The town of Newburgh is one of the oldest towns in New York. The name "Newburgh" was put forth by Cadwallader Colden, for the Newborough of his native Scotland, and was accepted by the English crown in 1752 (City of Newburgh 2021). The Precinct of Newburgh was established in 1763 and organized as the town

of Newburgh in 1788. The Village of Newburgh was incorporated in 1800 and became the City of Newburgh in 1865.

Several creeks within the Town of Newburgh provided the power for many mills that were established for wool, paper, and grist, as well as a black powder manufacturing complex which operated throughout the nineteenth century. In 1787, Thomas Machin converted a grist mill at Orange Lake into the State's first coin mint. Thick clay deposits on the shores of the Hudson River were exploited to make thousands of bricks daily for the construction markets of urban centers in the nineteenth and twentieth centuries. Further inland, the Town of Newburgh had many farms that produced the food for Newburgh as well as other nearby urban centers such as New York City (Town of Newburgh 2021).

During the Revolutionary War, hundreds of troops were encamped near Newburgh. George Washington established the headquarters of the rebellion at the Hasbrouck House in Newburgh and directed troop movements from there. In 1850, this house was bought by the State and became the first National Historic Site. In addition, towards the end of the war the population of Newburgh expanded as civilians fled from British-controlled New York City (Town of Newburgh 2021).

Newburgh became a major hub of commerce in the early nineteenth century, attracting trade both on the Hudson River and through the toll roads that connected Newburgh to the interior of the country. By the end of the nineteenth century brickyards lined the shores of the Hudson River from Newburgh south to Haverstraw. This industrial boom, combined with the coming of the rail lines, brought about an increase in population to both Newburgh and New Windsor. By the close of the nineteenth century, the landscape became more populated. There was a decline in large wealthy farmsteads and manor houses, and an increase in small residential neighborhoods, whose residents were employed in the various industries within the region (Town of Newburgh 2021).

During the late eighteenth and early nineteenth centuries, the population in the town of New Windsor grew steadily and the economy focused on milling and agriculture. Moodna (formerly Murderer's) Creek played a significant role in the growth of New Windsor. Murderer's Creek got its name the original Dutch title of Martelaer, meaning "difficult to navigate." Records indicate that the Native American name for the creek was Waoraneck. The shores of the Moodna hosted a number of water powered industries, including plaster mills, a distillery, and a tannery, saw mills and a forge and anchor shop (Ruttenber and Clark 1881).

The transportation network that ran through Newburgh attracted many manufacturers and investors to the region. The existing infrastructure for manufacturing led to an expansion of the industry during the Civil War. Many of the factories in Newburgh were repurposed to generate supplies for the war efforts, such as blankets and cannon cartridges. Manufacturing plants expanded further during World War I, as well as the local shipyards. This industrial boom, combined with the coming of the rail lines, brought about an increase in population. By the close of the nineteenth century, the landscape became more populated. There was a decline in large wealthy farmsteads and manor houses, and an increase in small residential neighborhoods, whose residents were employed in the various industries within the region (City of Newburgh 2021).

Winemaking, an economic mainstay for the region, dates back to 1677, when the Huguenots in New Paltz first planted grapes. The first market vineyard in Ulster County was planted in Plattekill by William T. Cornell in 1845. Shortly thereafter Cornell's brother-in-law, Andrew Caywood, settled in Marlborough, where he hybridized grapes to create a variety that could withstand the Hudson Valley winters. As a result of the many orchards and vineyards, fruit culture spread in the Towns of Marlborough, Lloyd, Esopus, Newburgh and other rural towns of Orange County, and thousands of tons of the finest grapes in the world were shipped to the

great cities, especially New York, Boston and Philadelphia (Clearwater 1907). Andrew Caywood's vineyard is now part of Benmarl Vineyard.

Prohibition, which became law in 1919, changed the wine business in the United States. Repealed in 1933, many of the vineyards spent the fourteen years of prohibition reporting that they wines they made were exclusively for the alter and consumption by the monks living in the many monasteries along the Hudson River (Bowen 1938). As a result, the vineyards in the area were operational through the Great Depression and World War II.

By the end of the nineteenth century brickyards lined the shores of the Hudson River from Newburgh south to Haverstraw. This industrial boom, combined with the coming of the rail lines, brought about an increase in population to both Newburgh and New Windsor. By the close of the nineteenth century, the landscape became more populated. There was a decline in large wealthy farmsteads and manor houses, and an increase in small residential neighborhoods, whose residents were employed in the various industries within the region.

CARTOGRAPHIC RESEARCH

HVCRC examined historical maps of Orange County to identify possible structures, previous road alignments and other landscape features or alterations that could affect the likelihood that archeological and/or historic resources could be located within the Project APE. These maps are included in this report, with the boundaries of the Project Area superimposed. Nineteenth century maps frequently lack the accuracy of location and scale present in modern surveys. As a result of this common level of inaccuracy on the historic maps, the location of the Project Area is drafted relative to the roads, structures, and other features as they are drawn, and should be regarded as approximate. The historic maps included in this report depict the sequence of road construction and settlement/development in the vicinity of the Project APE.

Figure 4: 1851 J.C. Sidney. *Atlas of Orange County*. Scale: 1" = 950'. (Source: Historic Map Works).

The 1851 Sidney Map shows a structure owned by R. R. Belknap located outside the boundaries of the Project APE. Directly adjacent to the south is present day NY-17K and a structure owned by H. Ross. Further south is a structure owned by S. Belknap and a burial ground. To the east is another burial ground, and structures owned by W. Patton and V. Seaman. To the west are structures owned by L. Miller and B. Hurd, as well as the toll gate for the Cochecton and Newburgh Turnpike.

Figure 5: 1875 F.W. Beers. *Atlas of the County of Orange.* Scale: 1" =950'. (Source: NY Public Library).

The 1875 F.W. Beers *Atlas of the County of Orange, New York* shows that the Belknap house is now owned by J. Heron. To the east, the burial ground is no longer shown. Structures owned by J.C. Patten and V. Seamon are located further to the east. To the south are structures owned by I.N. Lester and Mrs. Belknap, with the grave yard shown further to the south. To the west is a structure owned by E. Thompson. No structures are located within the boundaries of the Project APE.

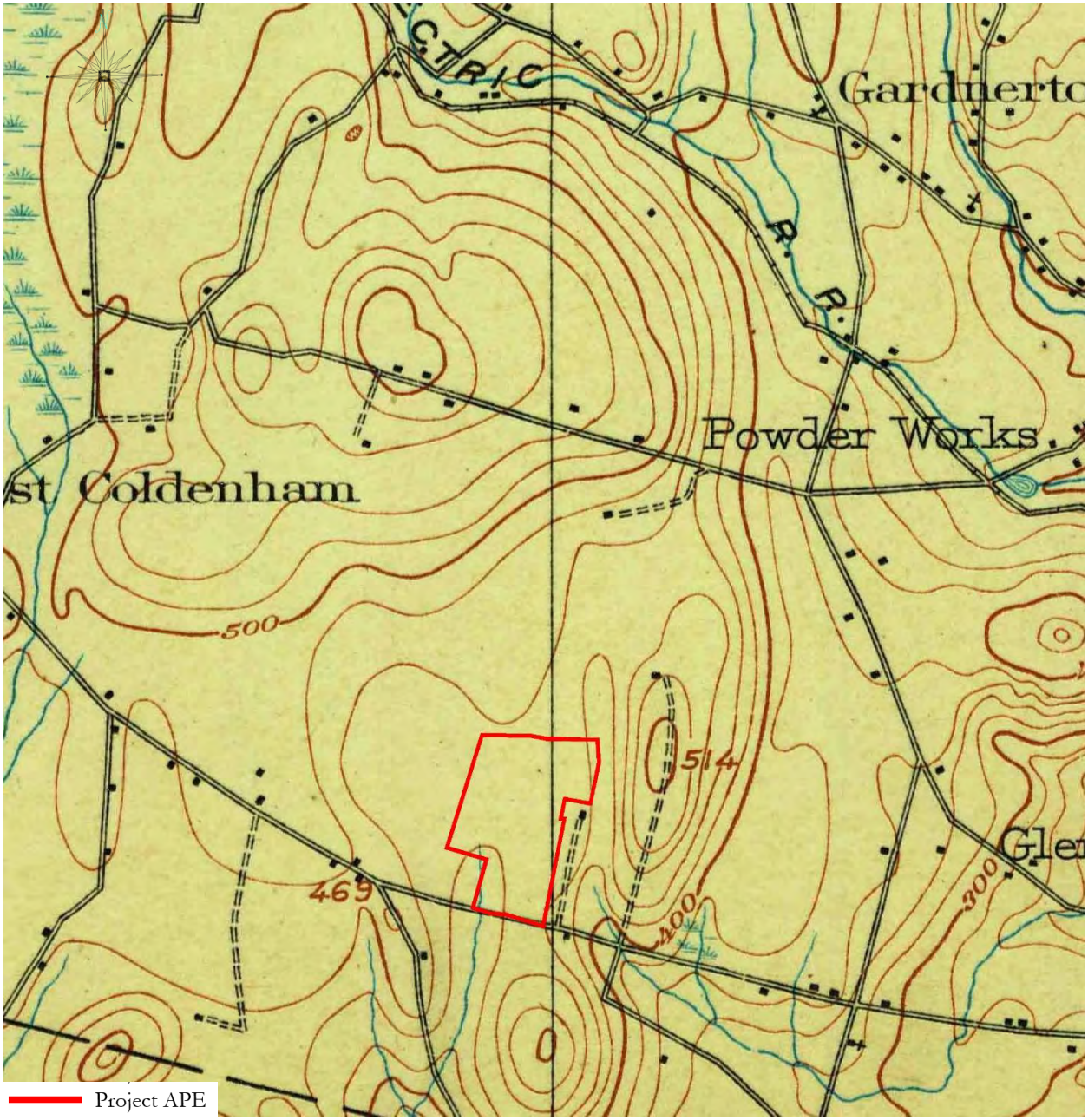

Figure 6: 1903 USGS Topographical Map. Newburgh Quadrangle. 15 Minute Series. (Source: USGS.gov). Scale: 1" =950'.

The USGS topographical maps depict the locations of roads, structures and landscape features, however they do not indicate property landowners. This map indicates that the Project APE is located on the northern side of the Cochecton and Newburgh turnpike in an area that is primarily agricultural.

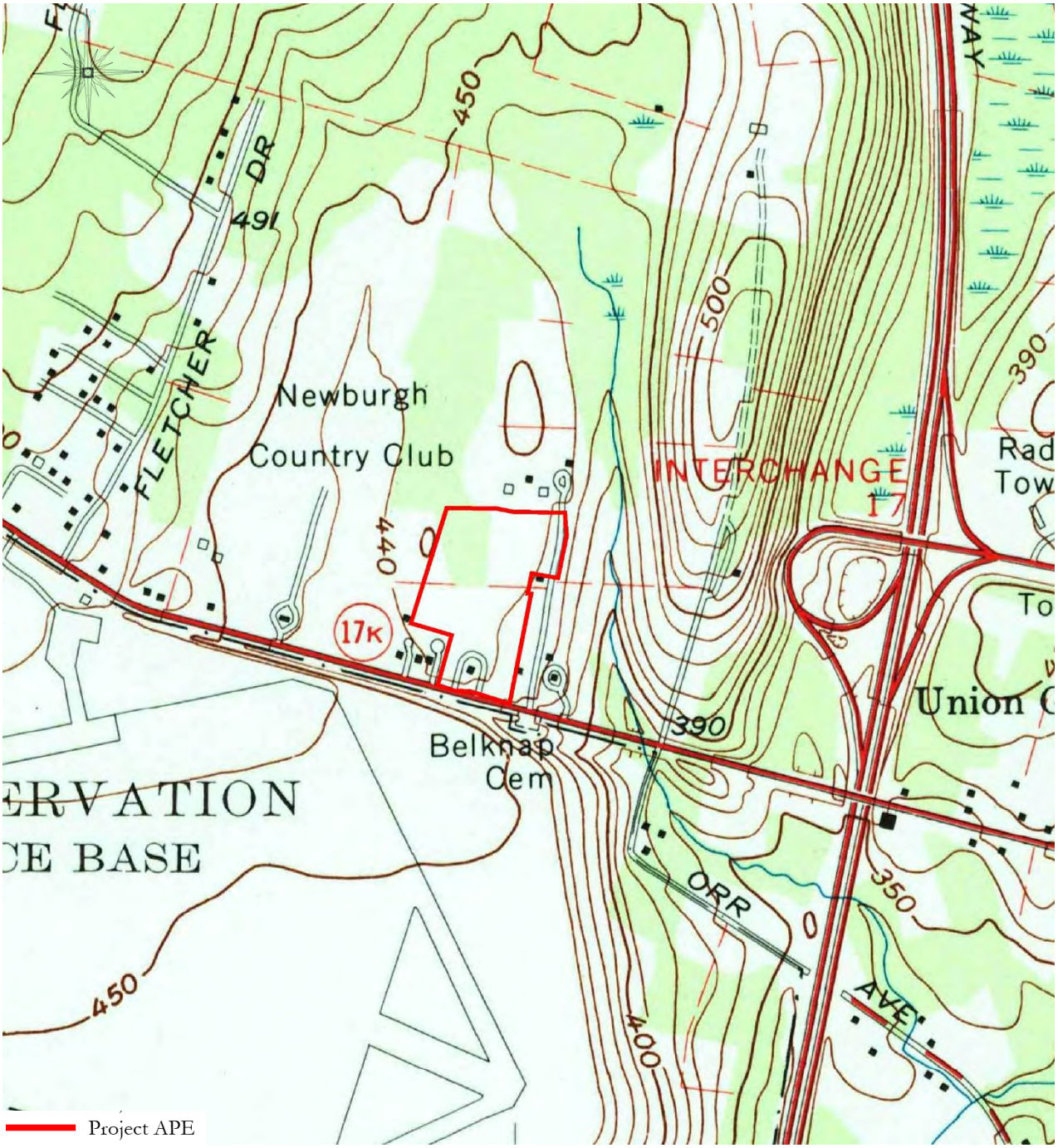

Figure 7: 1957 USGS Topographical Map. Cornwall Quadrangle. 7.5 Minute Series. (Source: USGS.gov). Scale: 1" =875'.

The 1957 USGS topographical map shows a residential structure within the boundaries of the Project APE. This house is surrounded on three sides by a semi-circular driveway. The landscape is generally level and is shown as cleared. The Newburgh Country Club is located to the northwest. The Cochecton Newburgh Turnpike has been expanded and is now Route 17K.

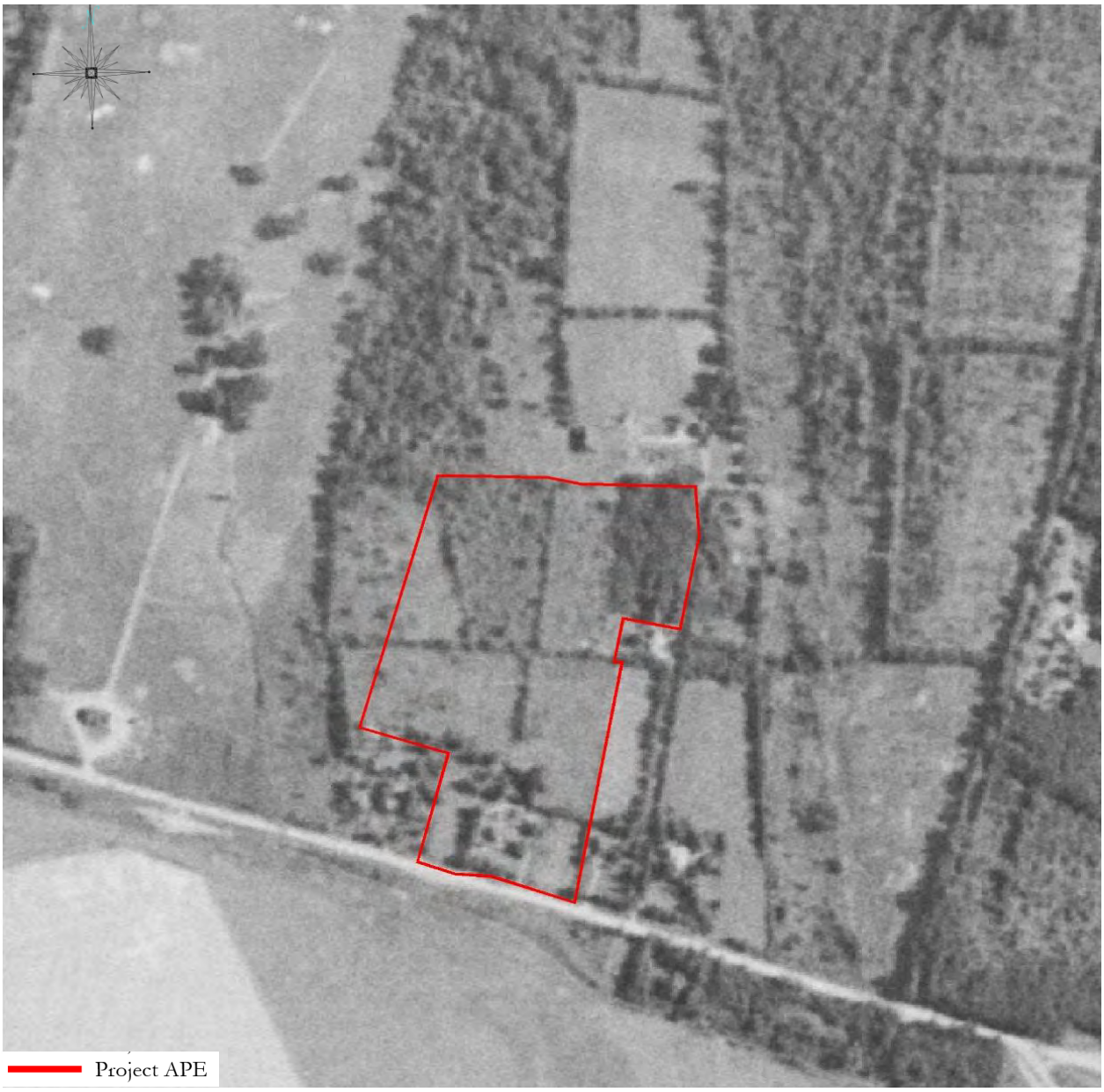

Figure 8: 1958 USGS Aerial Image. New Windsor, NY. (Source: EarthExplorer). Scale: 1" =445'.

The 1958 aerial shows that the Project APE is lightly wooded and the former agricultural fields are still visible. The majority of the Project APE is overgrown, and a residential structure is located in the southern portion of the parcel. To the northwest is the Newburgh Country Club golf course.

Photo 7: The northeastern portion of the Project APE is being utilized by the neighbor further to the north. View to the north.

Photo 8: The northern portion of the project parcel is a mix of grasses, high goldenrod and mature trees. View to the northeast.

Photo 9: The western portion of the APE consist of a gently rising knoll. View to the southwest.

Photo 10: A large pile of cobbles and other large rocks is located in the southwestern corner of the Project APE. View to the north.

F. National Register Eligible/Listed Sites

The National Register Database and OPRHP files were reviewed to identify structures on or in the vicinity of the Project APE that have been listed on the National Register of Historic Places or identified as National Register Eligible. The Belknap stone house is located to the west of the Project APE. This property will not be impacted by the proposed Project.

G. Assessment of Potential Cultural Resources

Precontact Period Sensitivity

Precontact period archaeological sensitivity of an area is based primarily on proximity to previously documented Precontact archeological sites, known Precontact period resources, and physiographic characteristics, such as topography and proximity to freshwater. The banks of the Hudson River and its tributaries were populated by Native Americans making this landscape highly sensitive for precontact cultural resources. The Project Area is located west of the Hudson River and is in an area where significant precontact period archaeological sites have been identified.

Historic Sensitivity

Careful examination of the historic and topographical maps available indicate that the Project APE has been agricultural land for a significant portion of the nineteenth and twentieth centuries. The aerial image show that the Project APE was a residential property for the latter portion of the twentieth century. The Belknap house is located to the northeast of the Project APE as early as the mid-nineteenth century. Given the fact that nineteenth century structures are not located within the Project APE, the historic sensitivity is considered to be moderate.

H. Summary and Recommendations

The environmental conditions present within Newburgh Commerce Center Project APE indicates that the area is sensitive for precontact cultural resources. It is therefore recommended that a Phase 1B Archaeological Field Reconnaissance Survey be undertaken within the boundaries of the Project APE that have been assessed to have the potential to yield cultural resources.

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PHASE 1B ARCHAEOLOGICAL FIELD RECONNAISSANCE SURVEY

NEWBURGH COMMERCE CENTER

124 ROUTE 17K

NEWBURGH, ORANGE COUNTY, NEW YORK

PREPARED FOR:

SCANNELL PROPERTIES
294 GROVE LANE EAST, SUITE 140
WAYZATA MN, 55391

HUDSON VALLEY
CULTURAL RESOURCE CONSULTANTS, LTD.
PO BOX 264

OCTOBER 2021

MANAGEMENT SUMMARY

SHPO Project Review Number (if available): **21PR006690**

Involved State and Federal Agencies: **SEQR, DEC**

Phase of Survey: **Phase 1B Archaeological Field Reconnaissance Survey**

Location Information:

Location Information:

Location: **124 Route 17K**

Minor Civil Division: **Town of Newburgh**

County: **Orange County**

Survey Area (English & Metric)

Length: **1045'/318.5 m**

Width: **720'/219.5 m**

Depth (when appropriate):

Number of Acres Surveyed: **±13.833 acres (5.58 hectares)**

Number of Square Meters & Feet Excavated (Phase II, Phase III only): N/A

Percentage of the Site Excavated (Phase II, Phase III only):

USGS 7.5 Minute Quadrangle Map: **Newburgh, New York 2019**

Archaeological Survey Overview

Number & Interval of Shovel Tests: **40 @ 50' Intervals**

Number & Size of Units: N/A

Width of Plowed Strips: N/A

Surface Survey Transect Interval: N/A

Results of Archaeological Survey

Number & name of precontact sites identified: **No sites identified**

Number & name of historic sites identified: **0**

Number & name of sites recommended for Phase II/Avoidance: N/A

Results of Architectural Survey

Number of buildings/structures/cemeteries within Project APE: **1**

Number of buildings/structures/cemeteries adjacent to Project APE: **0**

Number of previously determined NR listed or eligible buildings/structures/cemeteries/districts: **0**

Number of identified eligible buildings/structures/cemeteries/districts: **0**

Report Author (s): **Beth Selig, MA, RPA,**

Date of Report: **October 23, 2020**

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I. PHASE 1B ARCHAEOLOGICAL FIELD RECONNAISSANCE SURVEY

A. ARCHAEOLOGICAL SURVEY METHODOLOGY

In October of 2021, Hudson Valley Cultural Resource Consultants (HVCRC) was retained by Scannell Properties, to complete a Phase 1B Archaeological Field Reconnaissance Survey for the proposed Newburgh Commerce Center in Newburgh, Orange County, New York. The results of the Phase 1A Literature Search and Sensitivity Assessment, completed in September of 2020 confirmed that the Project APE is located in an area of precontact period activity. Phase 1B investigations took place on October 7-13, 2021 by Franco Zani Jr and Sarah Gilleland, MA, RPA.

The Project APE is located on the northern side of Route 17K in an area that is comprised of by residential and commercial properties. The proposed project includes the construction of a new commercial and industrial center. The Newburgh Commerce Center, will consist of an approximately 130,000 square foot building, with parking proposed on the eastern and western sides of the building. Stormwater management basins are proposed in the northeastern and southern portions of the parcel. The existing residential structure and garage will be removed. The landscape will be graded and leveled to accommodate the new building and associated site development.

The Project APE is primarily overgrown fields, with a residential structure located in the southern portion of the parcel. The driveway for the house is a semi-circle that surrounds the house on three sides. A small garage is located to the northeast of the house. This residential structure is not considered to be eligible for listing in the National Register as determined by OPRHP on March 21, 2018. The garage is dilapidated and collapsing. A collapsed hoop house or Quonset hut is located on the northern side of the garage. The landscape within the Project APE is generally level, rising slightly to the west and northwest. The northern portion of the Project APE is primarily overgrown fields divided by tree lines and wooded areas.

Areas selected for subsurface testing were identified during an intensive walkover inspection which evaluated the landscape to determine areas of prior disturbance, slopes in excess of 12% grade, saturated or wet soils and document evidence of former land usage. Shovel tests were excavated at intervals of 50' (15m) along transects conforming to the land surface and the boundaries of the Project APE. The locations of the tests and disturbed areas were recorded on a large-scale map that shows surveyed borders and the locations of the various structures or features identified (Field Reconnaissance Map).

Shovel tests (STs) approximately 45 cm in diameter, were spaced 50 feet apart and excavated at least 10 cm into sterile subsoil, unless impeded by rocks or other obstructions. This subsurface testing strategy was applied in areas of undisturbed soils and that were well drained and did not contain surface water. All soils excavated from shovel tests were screened through 0.25-inch hardware cloth. Shovel test profiles were recorded on standard field forms which included stratigraphic depths, Munsell soil color, texture and inclusions, disturbances and artifacts (Appendix A). The presence of clearly modern materials, such as plastic fragments, modern bottle glass fragments, or twentieth-century architectural materials were noted on field forms, but HVCRC does not generally collect these materials for analysis or inclusion in the artifact assemblage. If any precontact period or potentially significant historic-period artifacts had been recovered from shovel tests, then these finds would have been bagged, labeled with standard project provenience information. Following completion of the archaeological fieldwork, all recovered materials would be washed, identified, inventoried and re-bagged in labeled clean 4-mil archival quality plastic bags. All artifacts recovered would then be identified and described based on material type and standard descriptive characteristics and included in an artifact inventory.

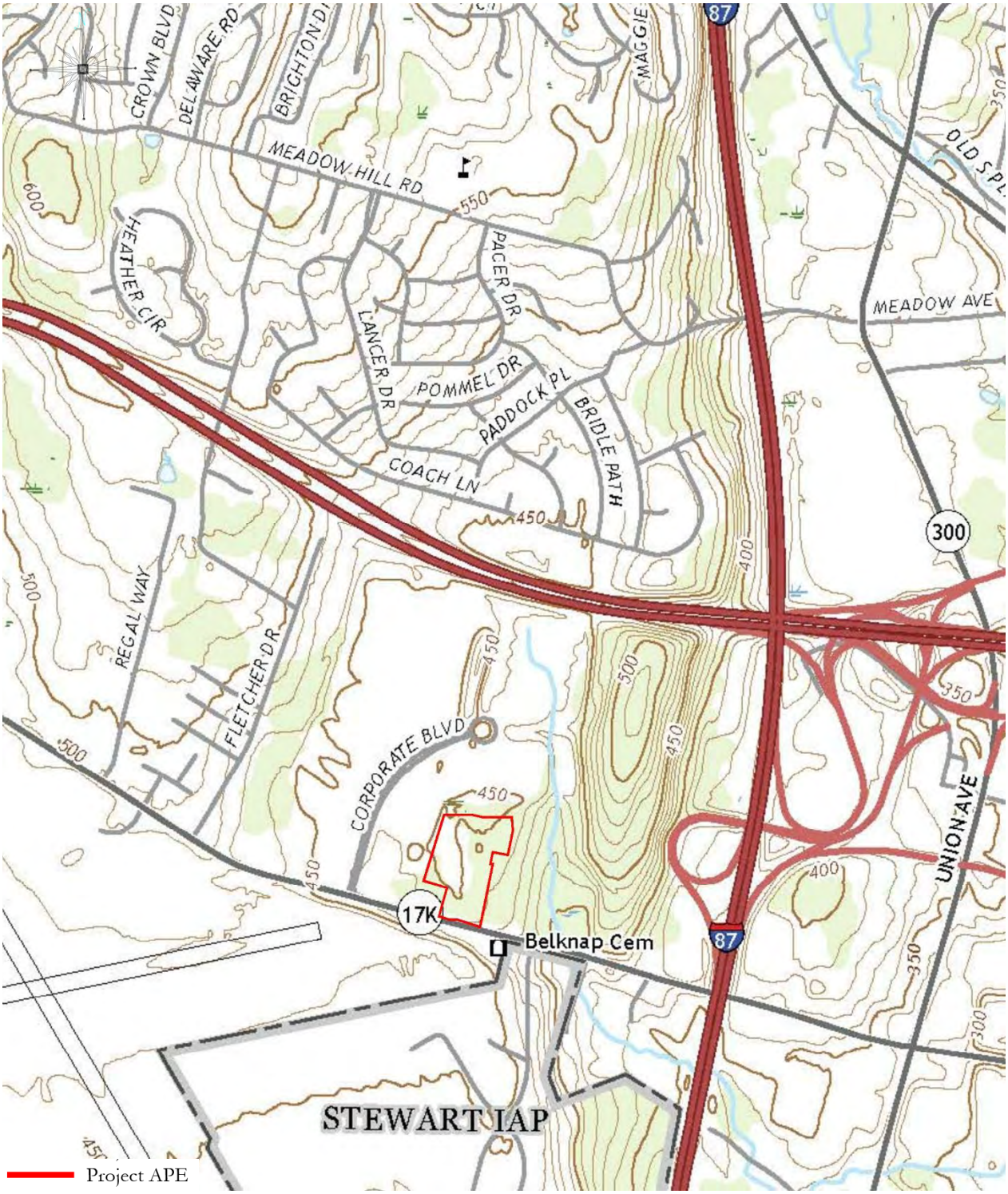


Figure 1: 2019 USGS Topographical Map. Newburgh, NY Quadrangle. 7.5 Minute Series. (Source: USGS.gov.) Scale: 1" =1400'.

Figure 2: 2020 Aerial Image showing the Project APE. Newburgh, NY (Source: Google Earth.) Scale: 1" =550'.

Photo 1: The southern portion of the property is bounded by Route 17K. View to the east.

Photo 2: A residential structure is located in the southern portion of the Project APE. The house is vacant. View to the north.

Photo 3: View to the northeast of the property to the north of the Project APE.

Photo 4: View to the south toward ST 204 on TR 11.

Photo 5: Areas of disturbance in the form of rock and gravel were noted within the APE. View toward ST 108.

Photo 6: The landscape along the eastern boundary has been graded and leveled. View to the north.

B. Archaeological Survey Results

The landscape with the Project APE is generally level. Along the southern boundary the landscape drops sharply to Route 17K. A gas line borders the property along Route 17K. The driveway, which is covered with asphalt, encircles the house that is located in the southern portion of the Project APE. Graded areas were noted in the southwestern portion of the Project APE.

Testing began in the southwestern corner of Project APE, with transects progressing west to east across the APE. The tests progressed south to north along the transects. A total of two hundred and thirty seven (237) shovel tests were planned within the Project APE. Due to the slope, asphalt driveway, and soil disturbance thirty-one (31) shovel tests were not completed. The soils encountered varied across the Project APE consisting primarily of brown loamy sand and brown gravelly silt loam, overlying a light olive brown clay loam with dense gravel and cobbles and yellowish brown gravelly clay loam.

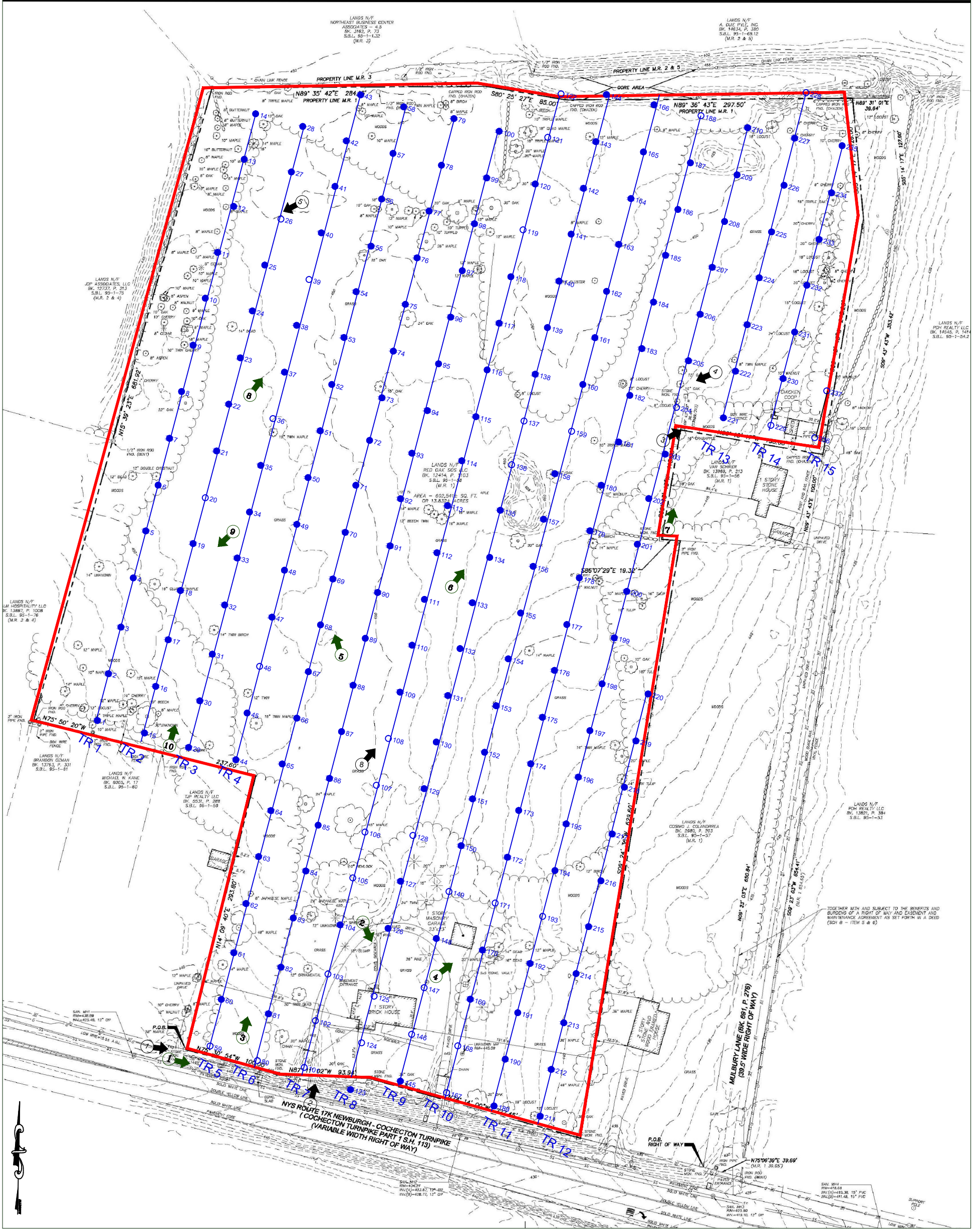
In total two hundred and one (201) shovel tests were completed within the boundaries of the Project APE. No significant cultural material was recovered in any of the completed shovel tests.

C. Conclusions and Recommendations

In October of 2021, Hudson Valley Cultural Resource Consultants completed a walkover and Phase 1B reconnaissance inspection of the Newburgh Commerce Center in Newburgh, Orange County, New York. Based on the results of the survey, no archaeological sites or historic structures are located within the Area of Potential Effect (APE). Therefore, the proposed undertaking will not affect any potentially significant cultural resources. In the opinion of HVCRC that no additional cultural resources investigations are warranted for the proposed Project. These recommendations are subject to concurrence by the New York State Office of Parks, Recreation and Historic Preservation.

Photo 7: View to the southwest toward ST 145.

Photo 8: A gas line is located along the southern boundary of the Project APE. View to the southwest.



HUDSON VALLEY
Cultural Resource Consultants, Ltd.

Figure 3: Newburgh Commerce Center Project
Phase 1B Field Reconnaissance Map
Scale 1" = 100'

0 50 100
(IN FEET)
1 inch = 100 ft.

LEGEND

- ST — Sterile Shovel Test Location
- ST — Planned Shovel Test, Not Excavated
- 1 → Photographic View _ Phase 1B Report
- 1 → Photographic View _ Phase 1A Report
- APE Boundaries

D. BIBLIOGRAPHY

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APPENDIX A: SHOVEL TEST RECORDS

Transect	ST	Level	Depth (in)	Depth (cm)	Munsell	Soil Description	Cultural Material
TR 1	1	1	0-5	0-12	10YR 4/3	Brown silty loam with gravel	Milk glass and freshwater mussel - discarded.
		2	5-7	12-22	2.5Y 5/4	Light olive brown clay loam with gravel	NCM
	2	1	0-8	0-19	10YR 4/3	Brown silty loam with gravel	NCM
		2	8-11	19-28	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	3	1	0-10	0-25	10YR 4/3	Brown silty loam with gravel	NCM
		2	10-14	25-35	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	4	1	0-7	0-17	10YR 4/3	Brown silty loam with gravel	NCM
		2	7-11	17-28	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	5	1	0-6	0-16	10YR 4/3	Brown silty loam with gravel and large cobbles	NCM
		2	6-12	16-30	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	6	1	0-7	0-22	10YR 4/3	Brown silty loam with gravel and large cobbles	NCM
		2	7-13	22-32	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	7	1	0-8	0-20	10YR 4/3	Brown silty loam with gravel and large cobbles	NCM
		2	8-12	20-30	2.5Y 6/4, 7.5YR 5/8	Mottled light brownish gray and strong brown clay loam	NCM
	8	1	0-7	0-22	10YR 4/3	Brown silty loam with gravel and large cobbles	NCM
		2	7-13	22-32	2.5Y 5/3	Light olive brown clay loam	NCM
	9	1	0-11	0-27	10YR 4/3	Brown silty loam with gravel and large cobbles	NCM
		2	11-14	27-35	2.5Y 5/3	Light olive brown clay loam, stopped by large rock	NCM
	10	1	0-7	0-18	10YR 4/3	Brown silt loam with gravel and large cobbles	NCM
		2	7-11	18-28	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	11	1	0-4	0-10	10YR 4/3	Brown silt loam with gravel and large cobbles, stopped by dense tree roots	NCM
	12	1	0-11	0-28	10YR 4/3	Brown silt loam with gravel and large cobbles	NCM
		2	11-13	28-33	2.5Y 5/3	Light olive brown silty clay loam with gravel, stopped by dense tree roots	NCM

	13	1	0-4	0-9	10YR 4/3	Brown silt loam with gravel and large cobbles	NCM
		2	4-6	9-16	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	14	1	0-6	0-15	10YR 3/2	Very dark grayish brown silt loam, stopped by dense rock obstruction	NCM
TR 2	15	1	0-7	0-19	10YR 4/3	Brown silt loam with gravel and cobbles	NCM
		2	7-12	19-30	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	16	1	0-10	0-26	10YR 4/3	Brown silt loam with gravel and cobbles	NCM
		2	10-15	26-39	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	17	1	0-8	0-20	10YR 5/3	Brown silt loam with gravel and large cobbles	NCM
		2	8-12	20-30	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	18	1	0-4	0-10	10YR 4/3	Brown silt loam with gravel and large cobbles	NCM
		2	4-7	10-17	2.5Y 5/3, 7.5YR 5/8	Mottled light olive brown and strong brown clay loam with gravel, terminated at large rock	NCM
	19	1	0-7	0-18	10YR 4/3	Brown silty loam with cobbles and gravel	NCM
		2	7-10	18-25	2.5Y 5/3, 7.5YR 5/8	Mottled light olive brown and strong brown clay loam with gravel, terminated at large rock	NCM
	20					Not Excavated: Dense rock at surface	
	21	1	0-9	0-24	10YR 4/3	Brown silty loam with cobbles and gravel	NCM
		2	9-13	24-34	2.5Y 5/3	Light olive brown clay loam with gravel and large cobbles	NCM
	22	1	0-10	0-26	10YR 4/3	Brown silty loam with cobbles and gravel	NCM
		2	10-14	26-36	2.5Y 5/3	Light olive brown clay loam with gravel and large cobbles	NCM
	23	1	0-5	0-12	7.5YR 5/3	Brown clay loam with gravel and cobbles	NCM
		2	5-9	12-23	7.5YR 4/2	Brown clay	NCM
		3	9-12	23-31	7.5YR 6/3	Light brown clay, stopped by large rock obstruction	NCM
	24	1	0-9	0-24	10YR 4/3	Brown slit loam with gravel and cobbles	NCM
		2	9-13	24-34	2.5Y 5/3	Light olive brown clay loam with cobles and gravel	NCM

	25	1	0-6	0-14	10YR 5/3	Brown clay loam with gravel	NCM
		2	6-11	14-27	10YR 4/3	Brown silty clay loam with dense cobbles	NCM
		3	11-14	27-35	2.5Y 5/3	Light olive brown clay loam with cobles and gravel	NCM
	26					Not Excavated: Dense rock at surface	
	27	1	0-7	0-18	2.5Y 4/4	Olive brown silty clay loam with heavy gravel and cobbles, terminated at large rock.	NCM
	28	1	0-4	0-9	2.5Y 4/4	Olive brown silty clay loam with large cobbles	NCM
		2	4-14	9-34	2.5Y 3/2	Very dark grayish brown silt loam with large cobbles	NCM
		3	14-17	34-44	2.5Y 8/2, 7.5YR 5/8	Mottled pale yellow and strong brown clay loam	NCM
TR 3	29	1	0-6	0-14	10YR 2/1	Black loam	NCM
		2	6-9	14-22	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	30	1	0-8	0-21	10YR 4/3	Brown silt loam with gravel and cobbles	NCM
		2	8-9	21-24	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	31	1	0-7	0-19	10YR 4/3	Brown silt loam with gravel and cobbles	NCM
		2	7-12	19-30	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	32	1	0-8	0-20	10YR 4/3	Brown silty clay loam with cobbles and gravel	NCM
		2	8-11	20-28	2.5Y 5/3	Light olive brown clay loam with gravel, stopped by rock obstruction	NCM
	33	1	0-8	0-21	10YR 4/3	Brown silty clay loam with cobbles and gravel	NCM
		2	8-14	21-36	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	34	1	0-7	0-19	10YR 4/3	Brown silty clay loam with cobbles and gravel	NCM
		2	7-12	19-30	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	35	1	0-6	0-16	10YR 4/3	Brown silty clay loam with cobbles and gravel	NCM
		2	6-8	16-20	2.5Y 5/2	Grayish brown clay loam with gravel	NCM
		3	8-12	20-30	10YR 5/6	Yellowish brown silty clay with gravel	NCM
	36					Not Excavated: Dense rock at surface	

	37	1	0-9	0-24	10YR 4/3	Brown silty clay loam with cobbles and gravel	NCM
		2	9-14	24-36	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	38	1	0-5	0-13	2.5Y 4/4, 2.5Y 5/3	Mottled olive brown and light olive brown clay loam with gravel	NCM
		2	5-14	13-35	10YR 4/2	Dark grayish brown silty clay loam with large cobbles, stopped by rock obstruction	NCM
		3	14-15	35-37	2.5Y 5/3	Light olive brown clay, stopped by water	NCM
	39	1				Not Excavated: Large Tree fall	
	40	1	0-4	0-10	2.5Y 4/4, 2.5Y 5/3	Mottled olive brown and light olive brown clay loam with gravel	NCM
		2	4-9	10-23	10YR 4/2	Dark grayish brown silty clay loam with large cobbles, stopped by rock obstruction	NCM
	41	1	0-5	0-13	2.5Y 4/4	Olive brown silty clay loam with gravel	NCM
		2	5-12	13-30	10YR 4/2	Dark grayish brown silty clay loam with large cobbles, stopped by rock obstruction	NCM
	42	1	0-7	0-17	10YR 2/1	Black silt loam with heavy cobbles, stopped by rock obstruction	NCM
	43	1	0-6	0-15	10YR 3/2	Very dark grayish brown silt loam, stopped by rock obstruction	NCM
TR 4	44	1	0-6	0-16	10YR 4/3	Brown gravelly silt loam with cobbles	Terra cotta, 2 small pearlware fragments - discarded
		2	6-12	16-30	2.5Y 5/4	Light brown gravelly clay loam	NCM
	45	1	0-10	0-25	10YR 4/3	Brown gravelly silt loam with cobbles	NCM
		2	10-15	25-37	2.5Y 5/4	Light brown gravelly clay loam	NCM
	46	1	0-9	0-22	10YR 4/3	Brown gravelly silt loam with cobbles	NCM
		2	9-14	22-35	2.5Y 5/4	Light brown gravelly clay loam	NCM
	47	1	0-7	0-17	10YR 4/3	Brown gravelly silt loam with cobbles	NCM
		2	7-12	17-30	2.5Y 5/4	Light brown gravelly clay loam	NCM
	48	1	0-7	0-19	10YR 4/3	Brown gravelly silt loam with large cobbles	NCM
		2	7-12	19-30	2.5Y 5/4	Light olive brown gravelly clay loam	NCM

TR 4	49	1	0-6	0-16	10YR 4/3, 2.5Y 5/4	Brown gravelly silt loam and light olive brown clay loam	NCM
		2	6-12	16-30	10YR 4/3	Brown gravelly silt loam	NCM
		3	12-16	30-40	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	50	1	0-8	0-20	10YR 4/3	Brown gravelly silt loam	NCM
		2	8-12	20-30	2.5Y 5/4, 10YR 6/2	Mottled light olive brown and light brownish gray gravelly clay loam	NCM
	51	1	0-9	0-24	10YR 4/3	Brown gravelly silt loam, stopped by rock and root obstruction	NCM
	52	1	0-5	0-13	10YR 4/6	Dark yellowish brown silty clay loam with cobbles	NCM
		2	5-10	13-26	10YR 4/2	Dark grayish brown gravelly silty clay	NCM
		3	10-15	26-39	2.5Y 5/4, 10YR 6/2	Mottled light olive brown and light brownish gray gravelly clay loam	NCM
	53	1	0-6	0-16	10YR 4/6	Dark yellowish brown silty clay loam	NCM
		2	6-12	16-30	10YR 4/2	Dark grayish brown gravelly silt loam	NCM
		3	12-17	30-43	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	54	1	0-3	0-8	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	3-10	8-26	10YR 4/2	Dark grayish brown gravelly silt loam	NCM
		3	10-16	26-40	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	55	1	0-4	0-9	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	4-11	9-28	10YR 4/2	Dark grayish brown gravelly silt loam	NCM
		3	11-14	28-35	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	56	1	0-5	0-12	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	5-12	12-30	10YR 4/2	Dark grayish brown gravelly silt loam	NCM
		3	12-16	30-40	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	57	1	0-10	0-25	10YR 3/2	Very dark grayish brown gravelly silt loam with large cobbles	NCM
		2	10-16	25-40	2.5Y 5/3	Light olive brown clay loam	NCM

	58	1	0-7	0-18	10YR 3/2	Very dark grayish brown gravelly silt loam with large cobbles	NCM
		2	7-12	18-30	2.5Y 5/3	Light olive brown clay loam	NCM
TR 5	59					Not Excavated: Buried gas line	
	60	1	0-11	0-29	10YR 4/4	Dark yellowish brown silt loam	NCM
		2	11-17	29-44	10YR 5/6	Yellowish brown gravelly clay loam	NCM
	61	1	0-12	0-30	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	12-17	30-42	10YR 5/6	Yellowish brown gravelly clay loam	NCM
	62	1	0-11	0-27	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	11-16	27-40	10YR 5/6	Yellowish brown gravelly clay loam	NCM
	63	1	0-12	0-31	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	12-17	31-42	10YR 5/6	Yellowish brown gravelly clay loam	NCM
	64	1	0-11	0-29	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	11-16	29-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	65	1	0-5	0-12	10YR 4/2	Dark grayish brown gravelly silt loam	NCM
		2	5-12	12-30	10YR 5/6	Yellowish brown clay loam	NCM
	66	1	0-6	0-15	10YR 3/3	Dark brown silt loam	NCM
		2	6-7	15-19	2.5Y 5/3	Light olive brown clay loam with dense gravel and cobbles	NCM
	67	1	0-8	0-20	10YR 4/3	Brown gravelly silt loam	NCM
		2	8-12	20-30	10YR 5/6	Yellowish brown gravelly clay loam	NCM
	68	1	0-6	0-14	10YR 4/3	Brown silty clay loam with gravel and large cobbles	NCM
		2	6-11	14-27	2.5Y 5/3	Light olive brown clay loam with gravel	NCM
	69	1	0-6	0-16	10YR 4/3	Brown gravelly silt loam	NCM
		2	6-12	16-30	2.5Y 5/4	Light olive brown gravelly clay loam	NCM

TR 5	70	1	0-6	0-15	10YR 4/3	Brown gravelly silt loam	NCM
		2	6-10	15-26	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	71	1	0-7	0-17	10YR 4/3	Brown gravelly silt loam	NCM
		2	7-11	17-29	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	72	1	0-12	0-30	10YR 4/3	Brown gravelly silt loam	NCM
		2	12-16	30-40	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	73	1	0-5	0-12	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	5-9	12-23	10YR 4/2	Dark grayish brown gravelly silt loam with large cobbles, stopped by large rock obstruction at 20cm	NCM
		3	9-14	23-35	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	74	1	0-6	0-16	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	6-12	16-30	10YR 4/2	Dark grayish brown gravelly silt loam with large cobbles, stopped by large rock obstruction at 20cm	NCM
		3	12-16	30-41	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	75	1	0-4	0-11	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	4-9	11-23	10YR 4/2	Dark grayish brown gravelly silt loam with large cobbles, stopped by large rock obstruction at 20cm	NCM
		3	9-14	23-35	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	76	1	0-3	0-8	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	3-8	8-20	10YR 4/2	Dark grayish brown gravelly silt loam with large cobbles, stopped by large rock obstruction	NCM
	77	1	0-4	0-11	2.5Y 4/4	Olive brown silty clay loam	NCM
		2	4-11	11-29	10YR 4/2	Dark grayish brown gravelly silt loam	NCM
		3	11-16	29-40	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	78	1	0-6	0-16	10YR 3/2	Very dark grayish brown gravelly silt loam with large cobbles, stopped by large rock obstruction	NCM
	79	1	0-7	0-18	10YR 3/2	Very dark grayish brown gravelly silt loam with large cobbles	NCM
		2	7-12	18-30	2.5Y 5/3	Light olive brown clay loam	NCM

TR 6	80					Not Excavated: Buried gas line	
	81	1	0-11	0-27	10YR 3/4	Dark yellowish brown silt loam	NCM
	82	1	0-8	0-20	10YR 4/3	Brown silt loam	NCM
		2	8-11	20-28	10YR 5/6	Yellowish brown clay loam with large cobbles, stopped by rock obstruction	NCM
	83	1	0-11	0-29	10YR 4/3	Brown silt loam	NCM
		2	11-16	29-41	10YR 5/6	Yellowish brown clay loam with large cobbles	NCM
	84	1	0-8	0-21	10YR 4/3	Brown silt loam	NCM
		2	8-12	21-31	2.5Y 5/3	Light olive brown clay loam	NCM
	85	1	0-13	0-32	10YR 4/3	Brown silt loam	NCM
		2	13-19	32-47	2.5Y 5/3	Light olive brown clay loam	NCM
	86	1	0-7	0-17	10YR 4/2	Dark grayish brown clay loam with gravel	NCM
		2	7-11	17-27	2.5Y 4/3	Olive brown silty clay loam with gravel	NCM
	87	1	0-10	0-25	10YR 4/3	Brown clay loam with gravel	NCM
		2	10-15	25-37	2.5Y 5/6	Light olive brown silty clay loam with gravel	NCM
	88	1	0-3	0-8	10YR 4/3	Brown clay loam with gravel	NCM
		2	3-7	8-18	2.5Y 5/6	Light olive brown silty clay loam with gravel	NCM
	89	1	0-10	0-26	10YR 4/3	Brown clay loam with gravel and large cobbles	NCM
		2	10-14	26-36	2.5Y 5/6	Light olive brown silty clay loam with gravel	NCM
	90	1	0-8	0-20	10YR 4/3	Brown clay loam with large cobbles and gravel	NCM
		2	8-13	20-32	2.5Y 5/6	Light olive brown silty clay loam with gravel	NCM
	91	1	0-8	0-20	10YR 4/3	Brown clay loam with large cobbles and gravel	NCM
		2	8-12	20-30	2.5Y 5/6	Light olive brown silty clay loam with gravel	NCM
	92	1	0-8	0-21	10YR 4/3	Brown clay loam with large cobbles and gravel	NCM
		2	8-11	21-27	2.5Y 5/6	Light olive brown silty clay loam with gravel, stopped by dense rock obstruction	NCM

TR 6	93	1	0-10	0-25	10YR 3/2	Very dark grayish brown silty clay loam with gravel and large cobbles	NCM
		2	10-15	25-37	7.5YR 5/6, 2.5Y 5/4	Mottled strong brown and light olive brown silty clay loam with gravel	NCM
	94	1	0-11	0-29	10YR 4/3	Brown loam	NCM
		2	11-15	29-39	2.5Y 5/3	Light olive brown silty clay loam	NCM
	95	1	0-7	0-17	2.5Y 5/4, 2.5Y 5/3	Mottled light brown and light brown clay loam	NCM
		2	7-15	17-38	10YR 3/2	Very dark grayish brown loam	NCM
		3	15-16	38-40	10YR 7/2	Light gray clay, stopped by rock and root obstruction	NCM
	96	1	0-6	0-15	2.5Y 5/4, 2.5Y 5/3	Mottled light brown and light brown clay loam	NCM
		2	6-11	15-29	10YR 3/2	Very dark grayish brown loam	NCM
		3	11-16	29-40	10YR 7/2	Light gray clay	NCM
	97	1	0-6	0-14	2.5Y 5/4, 2.5Y 5/3	Mottled light brown and light brown clay loam	NCM
		2	6-11	14-28	10YR 3/2	Very dark grayish brown loam, stopped by dense rock obstruction	NCM
	98	1	0-5	0-12	10YR 3/2	Very dark grayish brown loam	NCM
		2	5-10	12-25	10YR 7/2	Light gray clay	NCM
	99	1	0-7	0-18	10YR 3/2	Very dark grayish brown loam with large cobbles	NCM
		2	7-9	18-23	10YR 4/3	Brown silty clay loam with large cobbles, stopped by dense cobble layer	NCM
	100	1	0-8	0-21	10YR 3/2	Very dark grayish brown loam with large cobbles	NCM
		2	8-12	21-31	10YR 4/3	Brown silty clay loam with large cobbles	NCM
TR 7	101					Not Excavated: Slope at driveway	
	102					Not Excavated: Slope at driveway	
	103					Not Excavated: Driveway	
	104	1	0-4	0-10	10YR 3/2	Very dark grayish brown sand and gravel	NCM
		2	4-6	10-14	10YR 5/3	Brown sand and gravel, stopped by rock obstruction	NCM
	105					Not Excavated: Bedrock	

TR 7	106					Not Excavated: Dense tree roots and bedrock	
	107					Not Excavated: Bedrock	
	108					Not Excavated: Pile of gravel	
	109	1	0-7	0-17	10YR 4/3	Brown clay loam	NCM
		2	7-12	17-30	2.5Y 5/3	Light olive brown	NCM
	110	1	0-9	0-23	10YR 4/3	Brown silt loam	NCM
		2	9-13	23-34	10YR 5/6	Yellowish brown clay loam	NCM
	111	1	0-7	0-17	10YR 4/3	Brown silt loam	NCM
		2	7-11	17-28	10YR 5/6	Yellowish brown clay loam	NCM
	112	1	0-9	0-24	10YR 3/3	Dark brown silt loam	NCM
		2	9-14	24-35	10YR 5/6	Yellowish brown clay loam	NCM
	113	1	0-12	0-31	10YR 4/3	Brown silty clay loam	NCM
		2	12-17	31-42	2.5Y 5/4	Light olive brown silty clay loam	NCM
	114	1	0-10	0-24	10YR 3/2	Very dark grayish brown loam, stopped by rock obstruction	NCM
		2	10-14	24-36	10YR 7/2	Light gray clay	NCM
	115	1	0-11	0-28	10YR 3/2	Very dark grayish brown loam, stopped by rock obstruction	NCM
		2	11-13	28-32	10YR 7/2	Light gray clay, stopped by dense rock	NCM
	116	1	0-9	0-24	10YR 3/2	Very dark grayish brown loam, stopped by rock obstruction	NCM
	117	1	0-10	0-26	10YR 3/3	Dark brown loam, stopped by rock obstruction	NCM
	118	1	0-9	0-24	10YR 3/3	Dark brown loam with gravel and cobbles	NCM
		2	9-10	24-25	10YR 5/4	Yellowish brown silty clay loam with large cobbles	NCM
	119					Not Excavated: Dense tree roots and bedrock	NCM
	120	1	0-9	0-22	10YR 3/2	Very dark grayish brown loam with large cobbles	NCM
		2	9-13	22-34	10YR 5/3	Brown silty clay loam with gravel	NCM

	121					Not Excavated: Rock wall	
	122					Not Excavated: Rock wall	
TR 8	123	1	0-10	0-26	10YR 4/4	Dark yellowish brown gravelly silt loam	Small fragment of whiteware, plushie - discarded
		2	10-13	26-32	2.5Y 5/3	Light olive brown gravelly silt loam	NCM
	124					Not Excavated: House	
	125					Not Excavated: House	
	126	1	0-7	0-17	10YR 4/2, 10YR3/1, 2.5Y 5/4	Dark grayish brown gravelly silt loam, and very dark gray gravelly sand, and light olive brown clay loam	Coal and slag - discarded
		2	7-12	17-30	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	127	1	0-9	0-24	10YR 4/3	Brown gravelly silt loam	NCM
		2	9-15	24-39	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	128					Not Excavated: Metal scrap pile from shed	
	129	1	0-10	0-26	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	10-15	26-39	10YR 5/6	Yellowish brown clay loam	NCM
	130	1	0-11	0-27	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	11-16	27-41	10YR 5/6	Yellowish brown clay loam	NCM
	131	1	0-12	0-30	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	12-16	30-40	10YR 5/6	Yellowish brown clay loam	NCM
	132	1	0-11	0-27	10YR 4/2	Dark grayish brown gravelly silt loam	Wine glass - discarded
		2	11-19	27-49	10YR 5/3	Brown gravelly clay loam with large cobbles, stopped by large cobbles	NCM
	133	1	0-8	0-21	10YR 4/3, 2.5Y 5/4	Mottled brown and light olive brown gravelly silty clay loam	NCM
		2	8-17	21-43	10YR 4/3	Brown gravelly silt loam	NCM
		3	17-24	43-60	2.5Y 5/3	Light olive brown gravelly lay loam	NCM

TR 8	134	1	0-8	0-21	10YR 4/3, 2.5Y 5/4	Mottled brown and light olive brown gravelly silty clay loam	NCM
		2	8-16	21-40	10YR 4/3	Brown gravelly silt loam	NCM
		3	16-20	40-50	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	135	1	0-11	0-27	10YR 4/3	Brown gravelly silt loam	NCM
		2	11-16	27-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	136					Not Excavated: Large cobble and dirt pile, possibly remaining rock wall	
	137					Not Excavated: Large cobble and dirt pile, possibly remaining rock wall	
	138	1	0-7	0-19	10YR 4/3	Brown gravelly silt loam	NCM
		2	7-12	19-31	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	139	1	0-6	0-14	10YR 4/3	Brown gravelly silt loam	NCM
		2	6-11	14-27	2.5Y 5/2, 5YR 4/6	Grayish brown and yellowish red gravelly clay loam	NCM
	140	1	0-9	0-24	10YR 4/3	Brown gravelly silt loam	NCM
		2	9-14	24-35	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	141	1	0-10	0-26	10YR 4/3	Brown gravelly silt loam	NCM
		2	10-14	26-36	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	142	1	0-8	0-21	10YR 4/3	Brown gravelly silt loam	NCM
		2	8-14	21-36	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	143	1	0-7	0-19	10YR 4/6, 2.5Y 5/3	Mottled Dark yellowish brown and light olive brown silty clay loam	NCM
		2	7-9	19-24	10YR 4/4	Dark yellowish brown gravelly clay loam	NCM
		3	9-15	24-37	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	144	1	0-6	0-16	10YR 4/6, 2.5Y 5/3	Mottled Dark yellowish brown and light olive brown silty clay loam, stopped by dense cobbles	NCM
TR 9	145	1	0-13	0-33	10YR 3/3	Dark brown silt loam	NCM
		2	13-15	33-38	10YR 5/6	Yellowish brown clay loam, stopped by tree root	NCM
	146					Not Excavated: Concrete slab	

TR 9	147					Not Excavated: House	
	148	1	0-8	0-20	10YR 3/2	Very dark grayish brown loam	NCM
		2	8-12	20-30	10YR 5/4	Yellowish brown silt loam with gravel	NCM
	149					Not Excavated: Surficial Bedrock	
	150	1	0-11	0-28	10YR 3/3	Dark brown silt loam	NCM
		2	11-15	28-38	2.5Y 5/4	Light olive brown silty clay loam	NCM
	151	1	0-10	0-25	10YR 4/3	Brown silty clay loam	NCM
		2	10-12	25-30	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	152	1	0-96	0-24	10YR 4/4	Dark yellowish brown gravelly silt loam with large cobbles	NCM
		2	9-15	24-39	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	153	1	0-8	0-21	10YR 4/4	Dark yellowish brown gravelly silt loam with large cobbles	NCM
		2	8-13	21-34	2.5Y 5/3	Light olive brown gravelly clay loam with large cobbles	NCM
	154	1	0-11	0-28	10YR 4/4	Dark yellowish brown gravelly silt loam with large cobbles	NCM
		2	11-15	28-39	2.5Y 5/3	Light olive brown gravelly clay loam with large cobbles	NCM
	155	1	0-10	0-26	10YR 4/4	Dark yellowish brown gravelly silt loam with large cobbles	NCM
		2	10-14	26-36	2.5Y 5/3	Light olive brown gravelly clay loam with large cobbles	NCM
	156	1	0-11	0-28	10YR 4/4	Dark yellowish brown gravelly silt loam with large cobbles	NCM
		2	11-16	28-41	2.5Y 5/3	Light olive brown gravelly clay loam with large cobbles	NCM
	157	1	0-6	0-14	10YR 4/3	Brown gravelly silt loam	NCM
		2	6-11	14-27	2.5Y 5/3	Light yellowish brown clay loam	NCM
	158	1	0-7	0-18	10YR 4/3	Brown gravelly silt loam	NCM
		2	7-12	18-30	2.5Y 5/3	Light yellowish brown clay loam	NCM
	159					Not Excavated: Bulldozed rock pile	

TR 9	160	1	0-10	0-25	10YR 4/3	Brown gravelly silt loam	NCM
		2	10-15	25-39	2.5Y 5/3	Light yellowish brown clay loam	NCM
	161	1	0-11	0-27	10YR 4/3	Brown gravelly silt loam	NCM
		2	11-16	27-40	2.5Y 5/3	Light yellowish brown clay loam	NCM
	162	1	0-9	0-24	10YR 4/3	Brown gravelly silt loam	NCM
		2	9-14	24-35	2.5Y 5/3	Light yellowish brown clay loam	NCM
	163	1	0-8	0-20	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	8-12	20-30	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	164	1	0-9	0-23	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	9-14	23-35	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	165	1	0-7	0-18	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	7-12	18-30	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	166	1	0-6	0-14	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	6-11	14-27	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
TR 10	167					Not Excavated: Slope at driveway	
	168					Not Excavated: Slope at driveway	
	169	1	0-12	0-30	10YR 3/4	Dark yellowish brown silt loam	NCM
		2	12-16	30-37	10YR 4/6	Dark yellowish brown silt loam	NCM
	170	1	0-9	0-23	10YR 3/4	Dark yellowish brown silt loam	NCM
	171					Not Excavated: Disturbed-Metal Quonset hut	
	172	1	0-9	0-23	10YR 4/3	Brown clay loam with dense cobbles.	2 hand forged nails, 1 orange stained glass
		2	9-13	23-33	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	173	1	0-11	0-28	10YR 4/3	Brown clay loam with dense cobbles.	NCM
		2	11-15	28-39	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM

TR 10	174	1	0-11	0-29	10YR 4/3	Brown clay loam with dense cobbles.	NCM
		2	11-14	29-36	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	175	1	0-11	0-29	10YR 4/3	Brown clay loam with dense cobbles.	NCM
		2	11-16	29-40	2.5Y 5/3	Light olive brown silty clay loam with gravel	NCM
	176	1	0-7	0-19	10YR 4/3	Brown silty clay loam with large cobbles	NCM
		2	7-10	19-26	2.5Y 5/4	Light olive brown clay loam with gravel	NCM
	177	1	0-11	0-27	10YR 4/3	Brown silty clay loam with large cobbles	NCM
		2	11-15	27-39	2.5Y 5/4	Light olive brown clay loam with gravel	NCM
	178	1	0-9	0-22	10YR 4/3	Brown silty clay loam with large cobbles	NCM
		2	9-11	22-28	2.5Y 6/2	Light brownish gray clay loam with large cobbles, stopped by rock obstruction	NCM
	179	1	0-4	0-10	10YR 4/3	Brown silty clay loam with large cobbles	NCM
		2	4-10	10-25	10YR 5/6	Yellowish brown clay loam with large cobbles	NCM
	180	1	0-8	0-21	10YR 4/3	Brown silty clay loam with large cobbles	NCM
		2	8-13	21-33	10YR 5/6	Yellowish brown clay loam with large cobbles	NCM
	181	1	0-5	0-13	10YR 4/3	Brown silty clay loam	NCM
		2	5-8	13-21	2.5Y 6/2	Light brownish gray clay loam	NCM
		3	8-9	21-24	2.5Y 5/6	Light olive brown clay loam, stopped by rock obstruction	NCM
	182	1	0-8	0-21	2.5Y 5/3	Light olive brown clay loam	NCM
		2	8-12	21-31	2.5Y 5/6	Light olive brown clay loam	NCM
	183	1	0-7	0-19	10YR 4/3	Brown silty clay loam, stopped by tree roots	NCM
	184	1	0-11	0-27	10YR 4/3	Brown silty clay loam	NCM
		2	11-15	27-38	2.5Y 5/3	Light olive brown clay loam	NCM

TR 10	185	1	0-7	0-17	10YR 4/3, 2.5Y 4/3	Mottled brown and olive brown clay loam	NCM
		2	7-9	17-24	10YR 3/2	Very dark grayish brown silty clay loam	NCM
		3	9-14	24-36	2.5Y 5/6	Light olive brown clay loam	NCM
	186	1	0-6	0-14	10YR 4/3	Brown silty clay loam	NCM
		2	6-9	14-23	2.5Y 5/4	Light olive brown clay loam, stopped by rock obstruction	NCM
	187	1	0-10	0-26	10YR 4/3	Brown silty clay loam	NCM
		2	10-15	26-38	2.5Y 5/4	Light olive brown clay loam	NCM
	188					Not Excavated: Slope>15%	
TR 11	189	1	0-8	0-20	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	8-12	20-30	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	190	1	0-15	0-38	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	15-20	38-50	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	191	1	0-12	0-31	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	12-18	31-46	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	192	1	0-11	0-27	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	11-16	27-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	193					Not Excavated: Disturbed, large rock and gravel pile	
	194	1	0-12	0-30	10YR 4/3	Brown gravelly silt loam	NCM
		2	12-16	30-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	195	1	0-5	0-12	10YR 4/2, 2.5Y 5/3	Mottled dark grayish brown and light olive brown gravelly silty clay loam	NCM
		2	5-12	12-30	10YR 4/2	Dark grayish brown silt loam	NCM
		3	12-17	30-43	2.5Y 5/3	Light olive brown gravelly clay loam	NCM

TR 11	196	1	0-4	0-10	10YR 4/2, 2.5Y 5/3	Mottled dark grayish brown and light olive brown gravelly silty clay loam	NCM
		2	4-11	10-29	10YR 4/2	Dark grayish brown silt loam	NCM
		3	11-16	29-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	197	1	0-10	0-26	10YR 4/3	Brown gravelly silt loam	NCM
		2	10-15	26-39	2.5Y 5/3	Gravelly clay loam	NCM
	198	1	0-11	0-29	10YR 4/2	Dark grayish brown gravelly silt loam	NCM
		2	11-16	29-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	199	1	0-14	0-36	2.5Y 5/3	Light olive brown gravelly clay loam, disturbed no topsoil	NCM
	200	1	0-14	0-36	2.5Y 5/3	Light olive brown gravelly clay loam, disturbed no topsoil	NCM
	201	1	0-4	0-10	2.5Y 5/3	Light olive brown gravelly clay loam, disturbed no topsoil	NCM
	202	1	0-10	0-25	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	10-15	25-37	10YR 5/6	Yellowish brown gravelly clay loam	NCM
	203	1	0-9	0-23	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	9-15	23-38	10YR 5/6	Yellowish brown gravelly clay loam	NCM
	204					Not Excavated: Disturbed, large rock and garbage pile 10ft	
	205	1	0-7	0-17	10YR 3/3	Dark brown gravelly silt loam	NCM
		2	7-12	17-30	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	206	1	0-7	0-19	10YR 3/3	Dark brown gravelly silt loam	NCM
		2	7-12	19-30	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	207	1	0-9	0-24	10YR 3/3	Dark brown gravelly silt loam	NCM
		2	9-15	24-37	2.5Y 5/4	Light olive brown gravelly clay loam	NCM
	208	1	0-7	0-19	10YR 4/3	Brown silty clay loam	NCM
		2	7-12	19-30	2.5Y 5/6	Light olive brown clay loam	NCM

	209	1	0-6	0-15	10YR 4/3	Brown silty clay loam	NCM
		2	6-10	15-25	2.5Y 5/4	Light olive brown clay loam	NCM
		3	10-14	25-35	2.5Y 5/6	Light olive brown clay loam	NCM
	210	1	0-6	0-15	10YR 4/3	Brown silty clay loam	NCM
		2	6-11	15-27	2.5Y 5/4	Light olive brown clay loam	NCM
TR 12	211	1	0-9	0-23	10YR 4/4	Dark yellowish brown gravelly silt loam	Ceramic sewer pipe - discarded
		2	9-13	23-34	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	212	1	0-14	0-36	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	14-20	36-50	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	213	1	0-12	0-30	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	12-16	30-41	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	214	1	0-10	0-26	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	10-15	26-38	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	215	1	0-12	0-30	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	12-16	30-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	216	1	0-11	0-27	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	11-15	27-38	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	217	1	0-10	0-26	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	10-15	26-38	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	218	1	0-11	0-27	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	11-15	27-38	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	219	1	0-11	0-29	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	11-16	29-40	2.5Y 5/3	Light olive brown gravelly clay loam	NCM

	220	1	0-9	0-24	10YR 4/4	Dark yellowish brown gravelly silt loam	NCM
		2	9-15	24-39	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
TR 13	221	1	0-7	0-18	10YR 4/3	Brown silty clay loam with large cobbles	NCM
		2	7-11	18-28	2.5Y 5/4	Light olive brown clay loam with gravel	NCM
	222	1	0-6	0-15	10YR 4/2	Dark grayish brown silty clay loam with large cobbles	NCM
		2	6-8	15-21	10YR 4/4	Dark yellowish brown silty clay loam with gravel and cobbles	NCM
		3	8-12	21-31	2.5Y 5/6	Light olive brown clay loam with gravel	NCM
	223	1	0-9	0-24	10YR 4/2	Dark grayish brown silty clay loam with large cobbles	NCM
		2	9-15	24-37	2.5Y 5/6	Light olive brown clay loam with gravel	NCM
	224	1	0-5	0-12	10YR 4/3	Brown silty clay loam with large cobbles, stopped by rock obstruction	NCM
	225	1	0-8	0-20	10YR 4/3	Brown silty clay loam with large cobbles	NCM
		2	8-12	20-30	2.5Y 5/4	Light brown clay loam with gravel	NCM
	226	1	0-4	0-11	10YR 5/3	Brown silt loam with gravel and cobbles	NCM
		2	4-7	11-22	2.5Y 5/6	Light olive brown clay loam with gravel	NCM
	227	1	0-5	0-12	10YR 4/3, 2.5Y 5/6	Brown silty clay loam and light olive brown clay loam with gravel and cobbles	NCM
		2	5-7	12-22	2.5Y 5/6	Light olive brown clay loam with gravel	NCM
	228					Not Excavated: Tree Stump Pile	
TR 14	229					Not Excavated: Tree Stump Pile	
	230	1	0-5	0-12	10YR 4/2, 10YR 5/6	Mottled dark grayish brown and yellowish brown gravelly silty clay loam with large cobbles	NCM
		2	5-11	12-27	10YR 4/2	Dark grayish brown silty clay loam with large cobbles	NCM
		3	11-15	27-39	10YR 5/6	Yellowish brown silty clay loam with large cobbles	NCM
	231	1	0-4	0-11	10YR 4/2, 10YR 5/6	Mottled dark grayish brown and yellowish brown gravelly silty clay loam with large cobbles	NCM
		2	4-11	11-29	10YR 4/2	Dark grayish brown silty clay loam with large cobbles	NCM
		3	11-16	29-40	10YR 5/6	Yellowish brown silty clay loam with large cobbles	NCM

TR 14	232	1	0-10	0-26	10YR 4/2	Dark grayish brown silty clay loam with large cobbles and gravel	NCM
		2	10-12	26-30	10YR 5/6	Yellowish brown clay loam with gravel and cobbles, stopped by large rock obstruction at 30cm	NCM
	233	1	0-9	0-23	10YR 3/3	Dark brown gravelly silty clay loam	NCM
		2	9-13	23-34	2.5Y 5/3	Light olive brown gravelly clay loam	NCM
	234	1	0-7	0-19	10YR 3/3	Dark brown gravelly silty clay loam with large cobbles	NCM
		2	7-9	19-23	2.5Y 5/3	Light olive brown gravelly clay loam with large cobbles, stopped by large rock cluster at 23cm	NCM
	235	1	0-10	0-25	2.5Y 5/3	Light olive brown gravelly clay loam with large cobbles, stopped by large rock cluster at 23cm	NCM
TR 15	236					Not Excavated: graded and leveled	
	237					Not Excavated: graded and leveled	

APPENDIX 15

NEW YORK STATE OF OPPORTUNITY. Parks, Recreation, and Historic Preservation

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

November 02, 2021

Mark Willson
Development Associate
Scannell Properties
294 Grove Lane East
Suite 140
Wayzata, MN 55391

Re: DEC
Newburgh Commerce Center
Town of Newburgh, Orange County, NY
21PR06690

Dear Mark Willson:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6NYCRR Part 617).

OPRHP has reviewed the Phase IB Archaeological Survey Report entitled “Phase IB Archaeological Field Reconnaissance Survey, Newburgh Commerce Center, 124 Route 17K, Newburgh, Orange County, New York” prepared by Hudson Valley Cultural Resource Consultants, LTD (October 2021; 21SR00672). No archaeological sites were identified by the survey. Therefore, it is the opinion of the OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If you have any questions, I can be reached at Jessica.Schreyer@parks.ny.gov.

Sincerely,

Jessica E. Schreyer

Jessica Schreyer
Scientist Archaeology

APPENDIX 16

TRAFFIC IMPACT STUDY

For

Newburgh Commerce Center
124 State Route 17K
Town of Newburgh
Orange County, New York

Prepared For:

Scannell Properties
294 Grove Lane East
Suite 140
Wayzata, MN 55391

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
One North Broadway, Suite 910
White Plains, New York 10601

Daniel D. Disario, P.E., PTOE
New York P.E. License No. 090462-1

Alan W. Lothian

30 November 2021
190071901

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EXECUTIVE SUMMARY

Langan Engineering and Environmental Services has prepared this traffic impact study for a proposed mixed-use development. The site will consist of one 132,000 square-foot (sf) mixed-use building. The development is located in the Town of Newburgh, Orange County, New York.

The site is bounded by industrial land uses on the north, NYS Route 17K on the south, an automobile dealership on the east, and industrial and residential land uses on the west. Access to the site is proposed via one full-movement, stop-controlled access driveway, intersecting NYS Route 17K approximately 460 feet west of the Maguire Way signalized intersection.

The proposed development is located on a property zoned Industrial Business, which allows for operations related to industrial and commercial land uses. The proposed 132,000 sf building does not have a specific tenant, and will serve multiple tenants of varying uses. Accordingly, we prepared trip generation estimates for the proposed development using a mix of appropriate land uses identified by the Institute of Transportation Engineers (ITE), as contained in the publication Trip Generation, 11th Edition. Langan estimates that the mixed-use development will generate approximately 125 trips (101 enter, 24 exit) during the weekday morning peak hour and 120 trips (29 enter, 91 exit) during the weekday evening peak hour.

We determined the directional distribution of the site-generated trips based on an examination of existing and expected travel patterns in the study area. We conducted capacity analyses at the following intersections:

- New York State Route 17K and Corporate Boulevard
- New York State Route 17K and Maguire Way / Kia Dealership
- New York State Route 17K and Orr Avenue / Matrix Driveway
- New York State Route 17K and Site Driveway

Based on our analyses, Langan concludes that the development will not significantly alter traffic operations at the study intersections during peak traffic hours. The site access driveway is designed to include exclusive left-turn lanes which will result in efficient operations during both peak traffic hours, with minimal impact to flow along NYS Route 17K.

INTRODUCTION

Langan Engineering and Environmental Services has prepared this traffic impact study for a proposed mixed-use development. The site will consist of one 132,000 square-foot (sf) mixed-use building. The development is located in the Town of Newburgh, Orange County, New York.

Project Description

The development will consist of one mixed-used building totaling 132,000 sf. The proposed development is located on a property zoned Industrial Business, which allows for operations related to industrial and commercial land uses. The proposed 132,000 sf building does not have a specific tenant, and will serve multiple tenants of varying uses. The site is designated as Section 95, Block 1, Lot 58, according to Newburgh Tax Maps. Figure 1, contained in Appendix A, shows the location of the site.

The development is bounded by industrial land uses on the north, NYS Route 17K on the south, an automobile dealership on the east, and industrial and residential land uses on the west. Access to the site is proposed via one full-movement, stop-controlled access driveway, intersecting NYS Route 17K approximately 460 feet west of the Maguire Way signalized intersection.

The building will be supported by 107 parking spaces.

Study Area

We conducted capacity analyses at the following intersections:

- New York State Route 17K and Corporate Boulevard
- New York State Route 17K and Maguire Way / Kia Dealership
- New York State Route 17K and Orr Avenue / Matrix Driveway
- New York State Route 17K and Site Driveway

An inventory of the physical road conditions is presented in the section "Description of Existing Conditions."

Scope of Study

Langan undertook the following steps to prepare this study in accordance with standard traffic engineering methodologies:

1. Conducted a field examination of the site and surrounding road network to inventory physical and regulatory conditions including the number of lanes, lane assignments, channelization, traffic-control devices, lateral clearances and other factors that limit traffic capacity.
2. Conducted a series of turning movement traffic counts at the study intersection identified in the previous section. We had counts conducted on a typical weekday from 6:00 AM to 9:00 AM and from 3:00 PM to 6:00 PM. We then identified existing weekday morning and evening peak hour traffic volumes based on the traffic count data.
3. Established future 2023 No-Build traffic volumes by applying a growth factor of 1.00 percent per year to the 2021 Existing traffic volumes, which is a conservative factor as compared to the New York State Department of Transportation (NYSDOT) Orange County growth factors, forecasted for NYS Route 17K, which is 0.5% percent per year.
4. Prepared peak hour trip generation estimates for the proposed mixed-use development based on trip generation data published by the Institute of Transportation Engineers (ITE).
5. Compared the trip generation for the mixed-use development to the building occupied by a single permitted industrial use.
6. We determined the directional distribution of the site-generated trips based on an examination of existing and expected travel patterns in the study area.
7. Assigned site-generated trips to the site access roads and surrounding road network based on the likely travel routes motorists will use to travel to and from the site.
8. Established 2023 Build traffic volumes by adding site-generated trips to the 2023 No-Build traffic volumes.
9. Performed intersection capacity analyses for the weekday morning and evening peak hours.

DESCRIPTION OF EXISTING CONDITIONS

This section describes the roads, intersections and traffic volumes in the area of the proposed development located in the town of Newburgh, Orange County, New York.

Roads

NYS Route 17K

NYS Route 17K is classified as a principal arterial and is under NYSDOT jurisdiction. The roadway has a general east-west orientation and provides one travel lane in each direction near the site. The posted speed limit in the immediate study area is 40 mph.

Corporate Boulevard

Corporate Boulevard is classified as a local road. The roadway has a general north-south orientation and provides two travel lanes in each direction. The northbound and southbound travel lanes are separated by a grassy median. The speed limit is not posted.

Maguire Way

Maguire Way is classified as a local road. The roadway has a general north-south orientation and provides two travel lanes in each direction. The northbound and southbound travel lanes are separated by a grassy median. The speed limit is not posted.

Orr Avenue

Orr Avenue is classified as a local road. The roadway has a general north-south orientation and provides one travel lane in each direction. The posted speed limit is 10 mph.

Intersections

New York State Route 17K and Corporate Boulevard

Corporate Way intersects NYS Route 17K to form a T-shaped intersection under signal control. The eastbound NYS Route 17K approach provides one left-turn lane and one thru lane. The westbound NYS Route 17K approach provides one thru lane and one right-turn lane. The southbound Corporate Boulevard approach provides one left-turn lane and one right-turn. The signal operates under three phases with an 85-second cycle length.

New York State Route 17K and Maguire Way / Kia Dealership

Maguire Way and the driveway to a Kia dealership intersect NYS Route 17K to form a four-leg intersection under signal control. The eastbound NYS Route 17K approach provides one left-turn lane, one thru lane, and one right-turn lane. The westbound NYS Route 17K approach provides

one left-turn lane and one shared thru/right-turn lane. The northbound Maguire Way approach provides one shared left-turn/thru lane and one right-turn lane. The southbound Kia dealership approach provides one shared left-turn/thru/right-turn lane. The signal operates under three phases with a 105-second cycle length.

New York State Route 17K and Orr Avenue / Matrix Business Park Driveway

Orr Avenue and the driveway to the Matrix Business Park intersect NYS Route 17K to form a four-leg intersection under signal control. The eastbound NYS Route 17K approach provides one left-turn lane and one shared thru/right-turn lane. The westbound NYS Route 17K approach provides one left-turn lane, one thru lane, and one right-turn lane. The northbound Orr Avenue approach provides one shared left-turn/thru/right-turn lane. The southbound Matrix Business Park driveway approach provides one left-turn lane and one shared thru lane/right-turn lane. The signal operates under three phases with a 105-second cycle length.

Traffic Volumes

We arranged for turning movement traffic counts to be conducted during the morning and evening peak hours on a typical weekday at the study intersections. Specifically, turning movement counts were conducted on Tuesday, October 12, 2021, from 6:00 AM to 9:00 AM, and from 3:00 PM to 6:00 PM. In addition, we conducted Automatic Traffic Recorder (ATR) counts along NYS Route 17K at the proposed driveway location from 1:00 PM on Wednesday October 6, 2021, to 3:00 PM on Wednesday, October 13, 2021.

The traffic counts identify distinct times during the weekday morning and evening hours when traffic experienced its highest levels. According to the traffic count data collected, the weekday morning peak hour occurred from 7:30 AM to 8:30 AM and the weekday evening peak hour occurred from 4:15 PM to 5:15 PM.

We compared the data to 2014 and 2015 data collected for a prior traffic study to validate them. The 2021 counts are representative of typical traffic flow conditions along this section of NYS Route 17K.

Figure 2 illustrates the 2021 existing weekday morning and evening peak-hour traffic volumes. Summaries of the traffic counts are contained in Appendix B.

ESTIMATE OF FUTURE CONDITIONS

This section of the report covers background traffic growth, site-generated trips, trip distribution, and future traffic volumes. We anticipate the project will be complete by the end of 2023. Accordingly, we projected traffic volumes to include existing traffic, new traffic created by background growth to derive the 2023 No-Build traffic volumes. We added the site-generated trips to the 2023 No-Build traffic volumes to derive the 2023 Build traffic volumes.

No-Build Condition

We increased the existing peak hour traffic volumes by a compounded annual growth rate of 1.0 percent, to derive the 2023 No-Build traffic volumes. We applied a conservative factor to the traffic volumes as compared to the growth rate factors, forecasted for NYS Route 17K, of 0.5 percent per year as established by NYSDOT. Therefore, the use of a 1.0 percent per year growth factor provides for a conservative estimate of background traffic. Figure 3 shows the 2023 No-Build traffic volumes.

Site-Generated Trips

The proposed development is located on a property zoned Industrial Business (IB), which allows for operations related to industrial and commercial land uses. The proposed 132,000 sf building does not have a specific tenant, and will serve multiple tenants of varying uses.

The Newburgh Commerce Center would provide flexible leased space for a range of uses allowed by the Zoning Law in the IB zoning district, specifically:

- Research laboratories
- Manufacturing, altering, fabricating or processing products or materials
- Warehouse, storage and transportation facilities, including truck and bus terminals
- Offices for business, research and professional use and banks

Scannell anticipates leasing space in the Commerce Center to one or more tenants for one or more of these permissible uses, consistent with the Zoning Law's allowance of multiple uses on a single lot.

Accordingly, we prepared trip generation estimates for the proposed development evaluating an appropriate mix of permitted uses, utilizing data compiled for Land Use Code 110 (Light Industrial), Land Use Code 140 (Manufacturing), Land Use Code 150 (Warehousing), and Land Use Code 710 (General Office Building) by the Institute of Transportation Engineers (ITE) as contained in the publication Trip Generation, 11th Edition. These land uses most accurately

describe the type of tenants expected to occupy the building, consistent with what is permitted in the IB zoning district. Descriptions of each representative land use from Trip Generation are contained in Appendix C.

Table 1 summarizes the trip generation estimates for the mixed-use development for the weekday morning and evening peak hours.

Table 1 – Mixed-Use Trip Generation Estimates

Use	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
	In	Out	Total	In	Out	Total
Light Industrial (19,800 sf)	16	2	18	3	13	16
Manufacturing (19,800 sf)	29	11	40	14	20	34
Warehouse (66,000 sf)	9	5	14	3	12	15
Office (26,400 sf)	47	6	53	9	46	55
Total (132,000 sf)	**101**	**24**	**125**	**29**	**91**	**120**

Table 2 includes a comparison of trip generation evaluating the difference between the mixed-use development and the building fully occupied by any single permitted industrial land use.

Table 2 – Trip Generation Comparison

Use	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
	In	Out	Total	In	Out	Total
Mixed-Use Building (132,000 sf)						
Total (132,000 sf)	**101**	**24**	**125**	**29**	**91**	**120**
Light Industrial (Land Use Code 110)						
Light Industrial (132,000 sf)	104	16	120	19	87	106
Difference	**+3**	**-8**	**-5**	**-10**	**-4**	**-14**
Manufacturing (Land Use Code 140)						
Manufacturing (132,000 sf)	82	31	113	47	65	112
Difference	**-19**	**+7**	**-12**	**+18**	**-26**	**-8**
Warehousing (Land Use Code 150)						
Warehousing (132,000 sf)	18	10	28	7	23	30
Difference	**-83**	**-14**	**-97**	**-22**	**-68**	**-110**

The mixed-use trip generation yields more conservative peak hour trips compared to the building fully occupied by any single industrial land use. Therefore, we have used the conservative mixed-use trip generation for the future Build analysis in this study.

Although the exact distribution of gross floor area per tenant is unknown, reconfiguring the building to accommodate varying proportions of each land use will yield similar peak hour trips, resulting in an appropriate evaluation of anticipated impacts.

Additionally, ITE provides truck trip generation data for the light industrial, manufacturing, and warehouse land uses. The traffic projections for trucks utilized herein are based on the ITE data for the Peak Hour of the Generator.

Table 3 summarizes the conservative trip generation estimates for passenger vehicles and trucks during the weekday morning and evening peak hours used for the future Build analysis.

Table 3 – Trip Generation Estimates (Passenger Vehicles and Trucks)

Trip Type	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
	In	Out	Total	In	Out	Total
Passenger Vehicles	99	20	119	26	88	114
Trucks	2	4	6	3	3	6
Total	**101**	**24**	**125**	**29**	**91**	**120**

Trip Distribution

We determined the directional distribution of the site-generated trips based on an examination of existing and expected travel patterns in the study area. The directional distribution of site traffic is shown in Table 4.

Table 4 – Trip Distribution

Direction (To/From)	Passenger Vehicles		Trucks	
	Arrival	Departure	Arrival	Departure
NYS Route 17K (East)	40%	60%	50%	50%
NYS Route 17K (West)	60%	40%	50%	50%
Total	**100%**	**100%**	**100%**	**100%**

Figures 4 and 5 show the passenger vehicle and truck arrival and departure distributions for the development, respectively. We applied the site-generated traffic to the adjacent roadway system as per the above distributions. Figures 6 and 7 show the passenger vehicle and truck site-generated trips, respectively. Figure 8 shows the total site-generated trips assigned to the roadway network for the proposed development.

Build Traffic Volumes

We added the total site-generated trips, Figure 8, to the 2023 No-Build traffic volumes, Figure 3, to derive the 2023 Build traffic volumes. Figure 9 illustrates the 2023 Build weekday morning and evening peak hour traffic volumes.

ANALYSIS OF TRAFFIC OPERATIONS

This section describes the capacity analysis we conducted to assess traffic operations for the No-Build and Build conditions. Capacity analysis provides an indication of the adequacy of road facilities to serve traffic demand.

Level of Service Criteria

Level of Service (LOS) is the term used to denote different operating conditions that occur on a given road segment under various traffic volume demands. LOS is a qualitative measure that considers a number of factors including road geometry, speed, travel delay and freedom to maneuver. LOS designations range from A to F and provide an index of operational qualities of a road segment or an intersection. LOS A represents the best operating conditions; LOS F represents the worst.

LOS designations are reported differently for signalized and unsignalized intersections. For signalized intersections, the analysis considers the operation of all traffic entering the intersection. For unsignalized intersections, the analysis considers the operation of all movements that conflict with other movements, such as main-line left turns and traffic exiting a side street. The evaluation criteria used to analyze the study area intersections are based on the Highway Capacity Manual, 6th edition, (HCM), published by the Transportation Research Board and Synchro software.

The HCM defines LOS for signalized intersections as follows:

LOS	Control Delay per Vehicle
A	<10 sec
B	>10 and ≤20 sec
C	>20 and ≤35 sec
D	>35 and ≤55 sec
E	>55 and ≤80 sec
F	>80 sec

The HCM defines LOS for unsignalized intersections as follows:

LOS	Delay Range (sec/veh)
A	≤10 sec
B	>10 and ≤15 sec
C	>15 and ≤25 sec
D	>25 and ≤35 sec
E	>35 and ≤50 sec
F	>50 sec

Capacity Analysis

We conducted capacity analyses for the intersections in the study area and found that the proposed development will not significantly alter operations in the study area during peak hours. Table 5 summarizes the 2023 No-Build and 2023 Build levels of service (LOS) at each relevant study intersection during the weekday morning and evening peak hours. Following are discussions pertaining to each of the intersections analyzed for the development. Note that all capacity analyses worksheets are contained in Appendix E.

Table 5 – Intersection Capacity Analysis Summary

Location	Movement		2023 No-Build Condition		2023 Build Condition	
			AM	PM	AM	PM
Signalized Intersections						
NYS Route 17K and Corporate Boulevard	EB	L	A (2.0)	A (4.1)	A (3.0)	A (4.3)
		T	A (2.7)	A (6.1)	A (4.6)	A (6.2)
	WB	T	A (9.2)	B (17.2)	B (11.3)	B (19.3)
		R	A (3.2)	A (3.7)	A (3.8)	A (3.7)
	SB	L	B (14.9)	C (29.1)	B (17.2)	C (29.0)
		R	A (5.4)	A (5.8)	A (4.9)	A (5.8)
	Overall		**A (4.8)**	**B (12.8)**	**A (6.5)**	**B (14.0)**
NYS Route 17K and Maguire Way / Kia Dealership	EB	L	A (1.4)	A (2.8)	A (1.4)	A (2.8)
		T	A (5.5)	A (7.1)	A (5.5)	A (7.5)
		R	A (0.0)	A (0.0)	A (0.0)	A (0.0)
	WB	L	A (0.9)	A (3.0)	A (1.0)	A (3.0)
		T,R	A (1.3)	A (4.7)	A (1.4)	A (4.8)
	NB	L,T	D (46.0)	D (51.3)	D (46.0)	D (51.3)
		R	A (0.8)	B (12.9)	A (0.8)	B (12.9)
	SB	L,T,R	A (0.2)	A (1.4)	A (0.2)	A (1.4)
	Overall		**A (3.6)**	**A (7.9)**	**A (3.5)**	**A (8.0)**
NYS Route 17K and Orr Avenue / Matrix Driveway	EB	L	A (0.8)	A (1.4)	A (0.8)	A (1.3)
		T,R	A (1.4)	A (4.0)	A (1.4)	A (4.3)
	WB	L	A (1.6)	A (0.0)	A (1.6)	A (0.0)
		T	A (3.9)	A (7.1)	A (4.2)	A (7.3)
		R	A (3.5)	A (4.2)	A (3.5)	A (4.2)
	NB	L,T,R	A (1.0)	A (0.0)	A (1.0)	A (0.0)
	SB	L,T	D (47.1)	D (51.2)	D (47.1)	D (51.2)
		R	A (0.2)	A (0.8)	A (0.2)	A (0.8)
	Overall		**A (2.8)**	**A (6.7)**	**A (3.0)**	**A (6.9)**
Unsignalized Intersection						
NYS Route 17K and Site Driveway	EB	L	-	-	A (8.4)	B (10.0)
	NB	L	-	-	D (26.9)	F (60.8)
		R	-	-	B (11.1)	C (17.7)

*Level of Service (Average vehicle delay [seconds per vehicle])

New York State Route 17K and Corporate Boulevard

This signalized intersection is expected to operate at an overall LOS A during the weekday morning peak hour and an overall LOS B during the weekday evening peak hour under the No-Build condition. Under the Build condition, the intersection is expected to continue to operate at an overall LOS A during the weekday morning peak hour and an overall LOS B during the weekday evening peak hour.

New York State Route 17K and Maguire Way / Kia Dealership

This signalized intersection is expected to operate at an overall LOS A during both the weekday morning and evening peak hours under the No-Build condition. Under the Build condition, the intersection is expected to continue to operate at an overall LOS A during both the weekday morning and evening peak hours.

New York State Route 17K and Orr Avenue / Matrix Business Park Driveway

This signalized intersection is expected to operate at an overall LOS A during both the weekday morning and evening peak hours under the No-Build condition. Under the Build condition, the intersection is expected to continue to operate at an overall LOS A during both the weekday morning and evening peak hours.

New York State Route 17K and Site Driveway

Geometry

The site driveway is proposed to intersect NYS Route 17K to form a T-shaped intersection under stop-control. The eastbound NYS Route 17K approach will provide one exclusive left-turn lane and one thru lane. The westbound NYS Route 17K approach will provide one shared thru/right-turn lane with a shoulder. The southbound site driveway approach will provide one left-turn lane and one right-turn lane under stop control.

Analysis

Under the Build condition, during the weekday morning peak hour, all turning movements at this stop-controlled intersection are expected to operate at LOS D or better. During the weekday evening peak hour, all turning movements at this stop-controlled intersection are expected to operate at LOS C or better, with the exception of the southbound left-turn movement, which is expected to operate at LOS F. The southbound left-turn movement is anticipated to experience a max queue of less than 2 vehicles, which can be accommodated internal to the site without affecting traffic flow along NYS Route 17K.

In addition, the capacity analysis does not take into account the effect of gaps created by the adjacent signals to the east and west of the site. We arranged for gap counts to be conducted on NYS Route 17K at the location of the proposed warehouse development driveway. The gap count data identifies that during the weekday morning and evening peak periods, from 6:00 AM to 9:00 AM and from 4:00 PM to 8:00 PM, there is an average excess in gaps (available two-way gaps) of 398 and 383, respectively, for the left-turn movements from the southbound minor-street approach. The gaps created by the adjacent signals are sufficient to accommodate the anticipated exiting volume from the proposed site driveway.

Left-Turn Lane Warrant Analysis

We performed a left-turn lane warrant analysis for the westbound approach at the proposed site driveway on NYS Route 17K using the AASHTO publication A Policy on Geometric Design of Highways and Streets, 7th edition, left-turn lane guidelines.

AASHTO's guidelines for a three-leg intersection along an urban area arterial suggest a left-turn lane is warranted if opposing volumes and left-turn volumes are as summarized in Table 6. Additionally, Table 6 shows the left-turn volume and opposing volume at the site driveway during the weekday morning and evening peak hours whether the left-turn volume meets the warrant.

Table 6 – Left-Turn Lane Warrant Analysis

AASHTO Table 9-24 & Figure 9-35		NYS Route 17K and Site Driveway			
		AM		PM	
Left-Turn Lane Peak-Hour Volume (veh/hr)	Three-Leg Intersection, Major-Road Volume (veh/h/ln) that Warrants a Left-Turn Lane	Left-Turn Volume	Opposing Volume	Left-Turn Volume	Opposing Volume
5	450	-	-	-	-
10	300	-	-	11	822
15	250	-	-	-	-
20	200	-	-	-	-
25	200	-	-	-	-
30	150	-	-	-	-
35	150	41	421	-	-
40	150	-	-	-	-
45	150	-	-	-	-
50 or More	100	-	-	-	-
Left-Turn Lane Warranted?		YES		YES	

The traffic volumes shown on Figure 9 and in Table 6 meet the warrant for an eastbound left-turn lane for ingress at the proposed site driveway location.

SITE PLAN REVIEW

We reviewed the site plan for the proposed development, particularly site access, on-site circulation, and parking, and concluded the following:

- Access to the proposed mixed-use building will be via one full-movement, stop-controlled driveway along NYS Route 17K. The driveway will provide one left-turn lane and one right-turn lane exiting the site.
- The site has been designed to accommodate all design vehicles (passenger car, trucks, emergency and refuse).
- The development will consist of one mixed-use building totaling 132,000 sf.
- The passenger car parking supply is 107 parking spaces, which exceeds the requirement.
- Parking circulation aisles are 26 feet wide, with parking spaces that are 9 feet wide by 18 feet deep. The proposed dimensions meet parking and circulation aisle requirements for proper circulation and parking maneuvers for a development of this type.
- The truck courts provide trailer parking spaces that are 12 feet wide and 55 feet long. The loading docks are served by circulation aisles that are at least 70 feet wide. These truck court dimensions are consistent with current design standards.

CONCLUSIONS

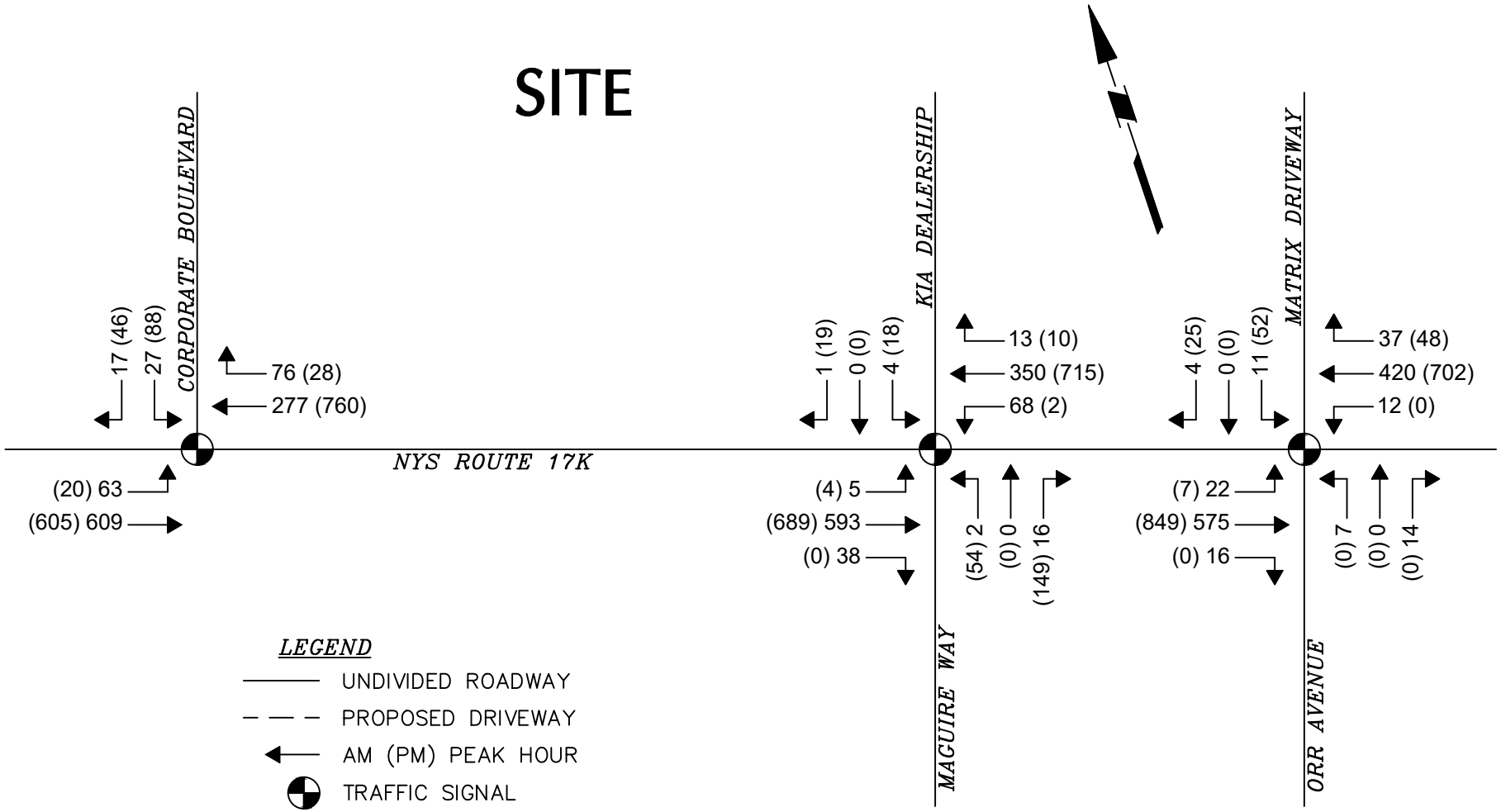
Based on our analyses, Langan concludes that the development will not significantly alter traffic operations at the study intersections during peak traffic hours. The site access driveway is designed to include exclusive left-turn lanes which will result in efficient operations during both peak traffic hours, with minimal impact to flow along NYS Route 17K.

\\langan.com\data\WPW\data9\190071901\Project Data_Discipline\Traffic\Reports\2021-11 TIS\2021-11-30 TIS Newburgh.docx

APPENDIX A
FIGURES

LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. One North Broadway, Suite 910 White Plains, NY 10601 T: 914.323.7400 F: 914.323.7401 www.langan.com	Project **NEWBURGH COMMERCE CENTER** SECTION 95, BLOCK 1, LOT 58 TOWN OF NEWBURGH ORANGE COUNTY NEW YORK	Drawing Title **SITE LOCATION MAP**	Project No. 190071901 Date 11/29/2021 Drawn By JEG Checked By AWL	Drawing No. **FIGURE 1** Sheet 1 of 9

Filename: \\langan.com\data\WPW\data9\190071901\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 1-SITE



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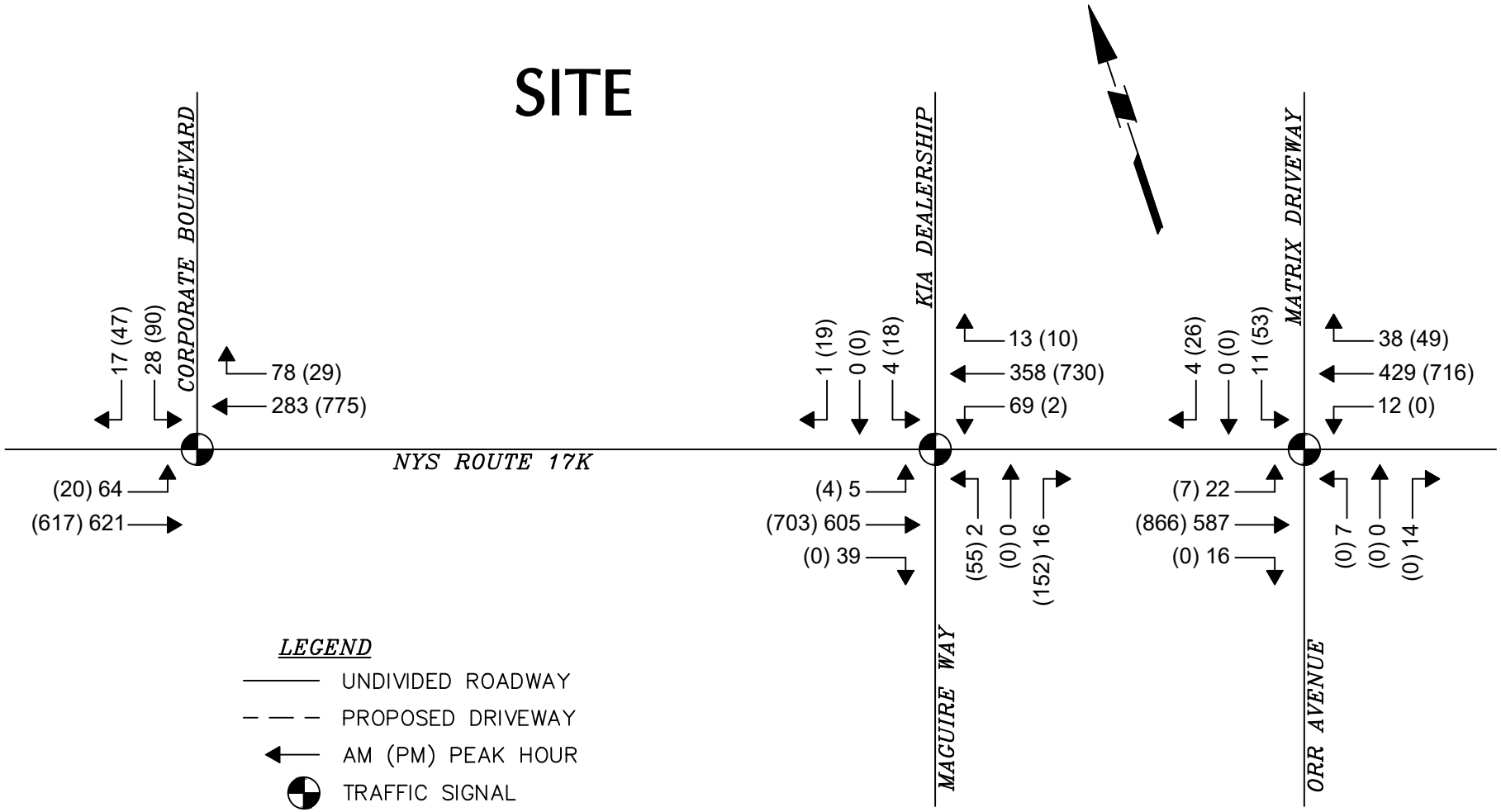
Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
2021 EXISTING TRAFFIC VOLUMES

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 2
Sheet 2 of 9

Filename: \\langan.com\data\WPW\data9\1900719O1\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 2-21EX



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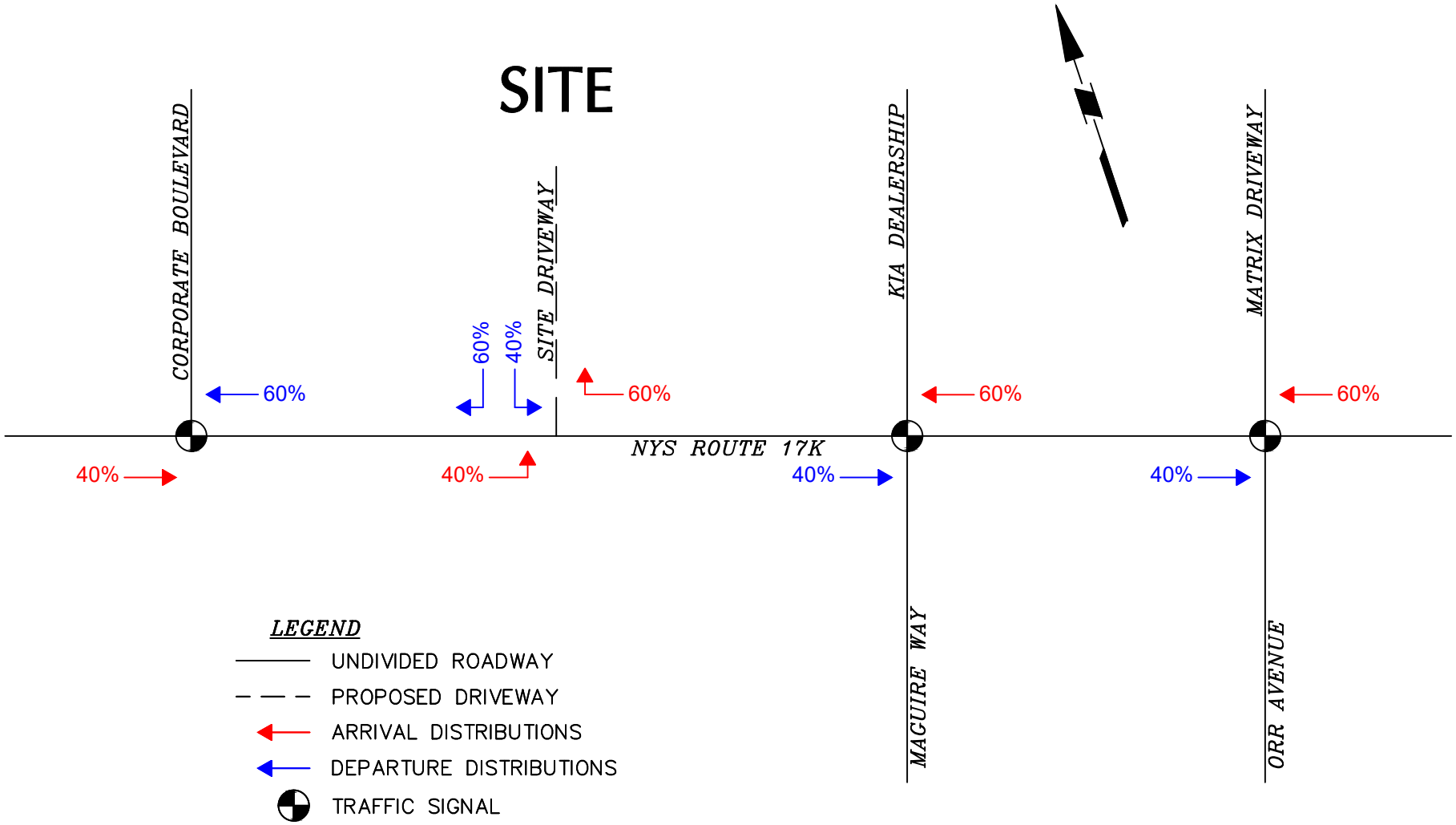
Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
2021 NO-BUILD TRAFFIC VOLUMES

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 3
Sheet 3 of 9

Filename: \\langan.com\data\WPW\data9\1900719O1\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 3-23NB



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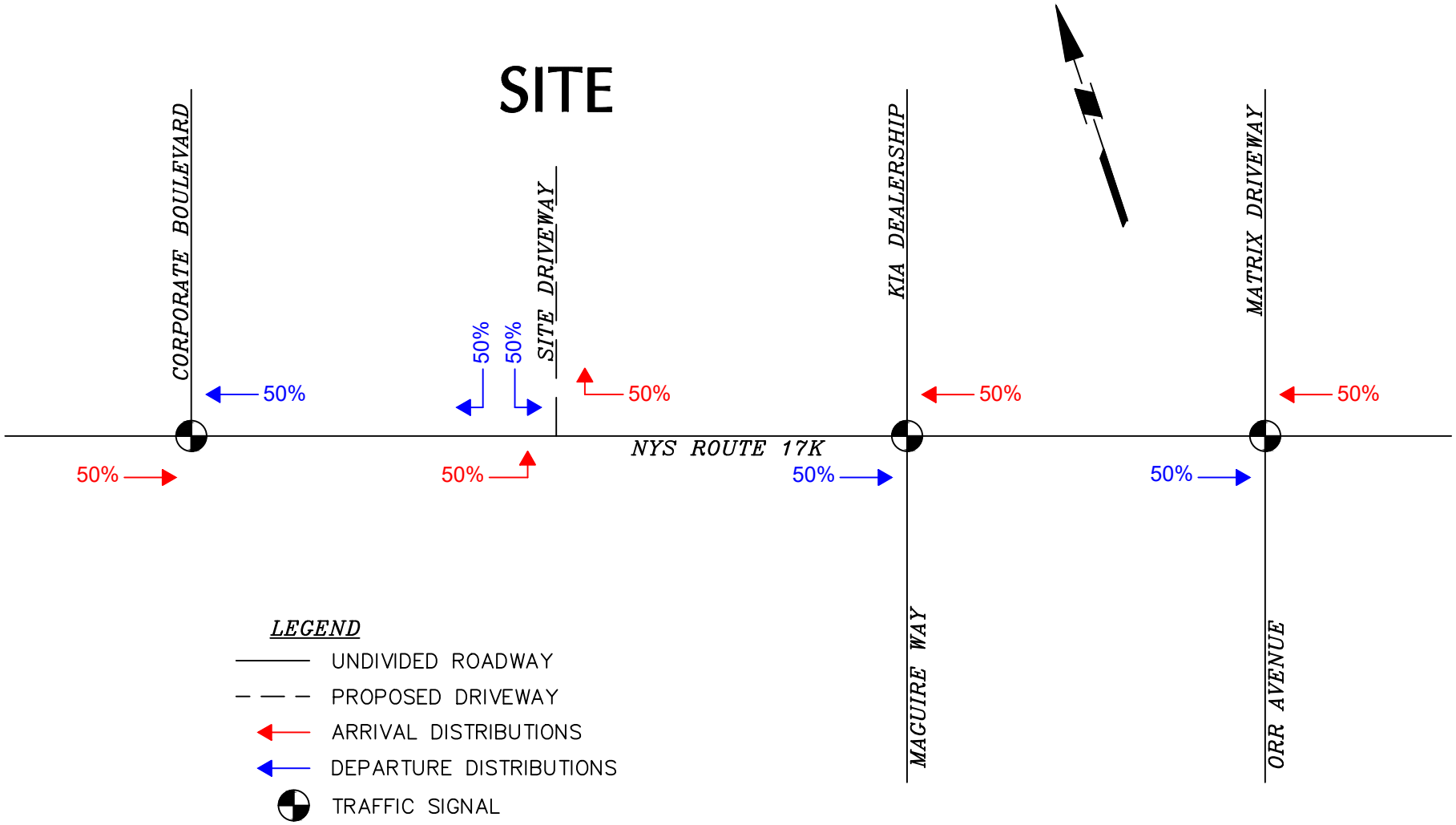
Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
ARRIVAL & DEPARTURE DISTRIBUTIONS PASSENGER VEHICLES

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 4
Sheet 4 of 9

Filename: \\langan.com\data\WPW\data9\190071901\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 4-ADPV



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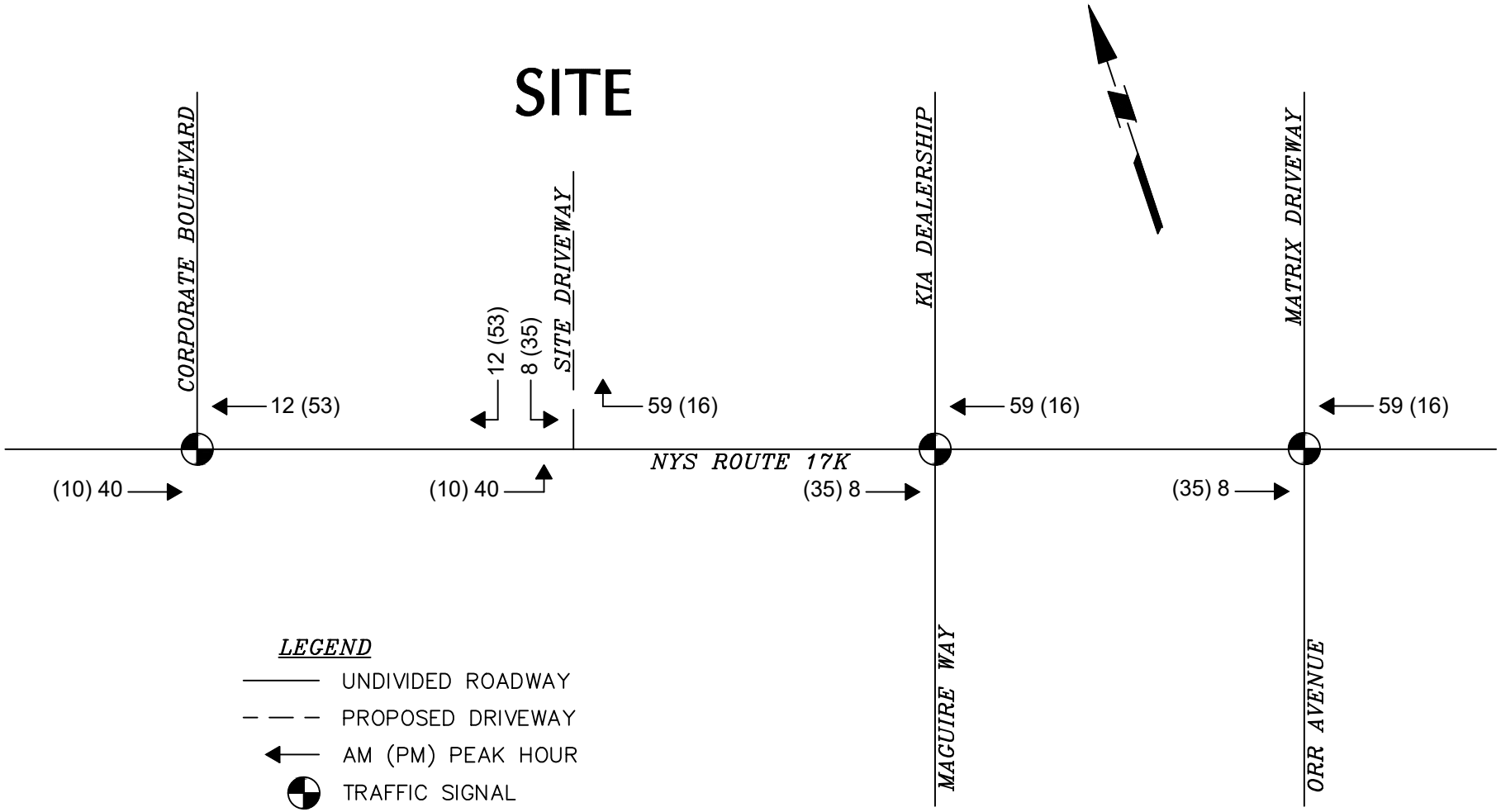
Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
ARRIVAL & DEPARTURE DISTRIBUTIONS TRUCKS

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 5
Sheet 5 of 9

Filename: \\langan.com\data\WPW\data9\190071901\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 5-ADTR



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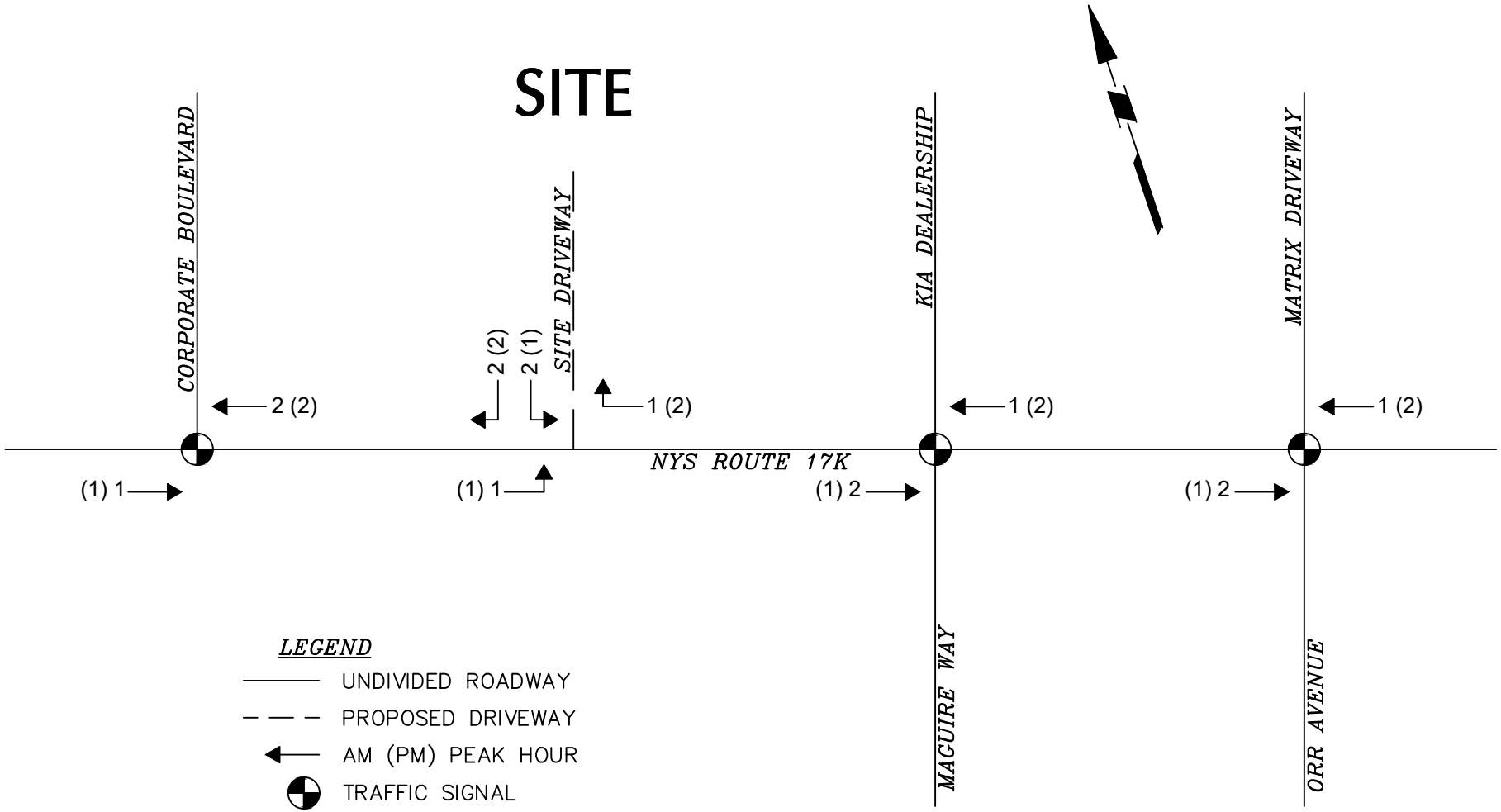
Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
SITE-GENERATED TRIPS PASSENGER VEHICLES

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 6
Sheet 6 of 9

Filename: \\langan.com\data\WPW\data9\190071901\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 6-SGPV



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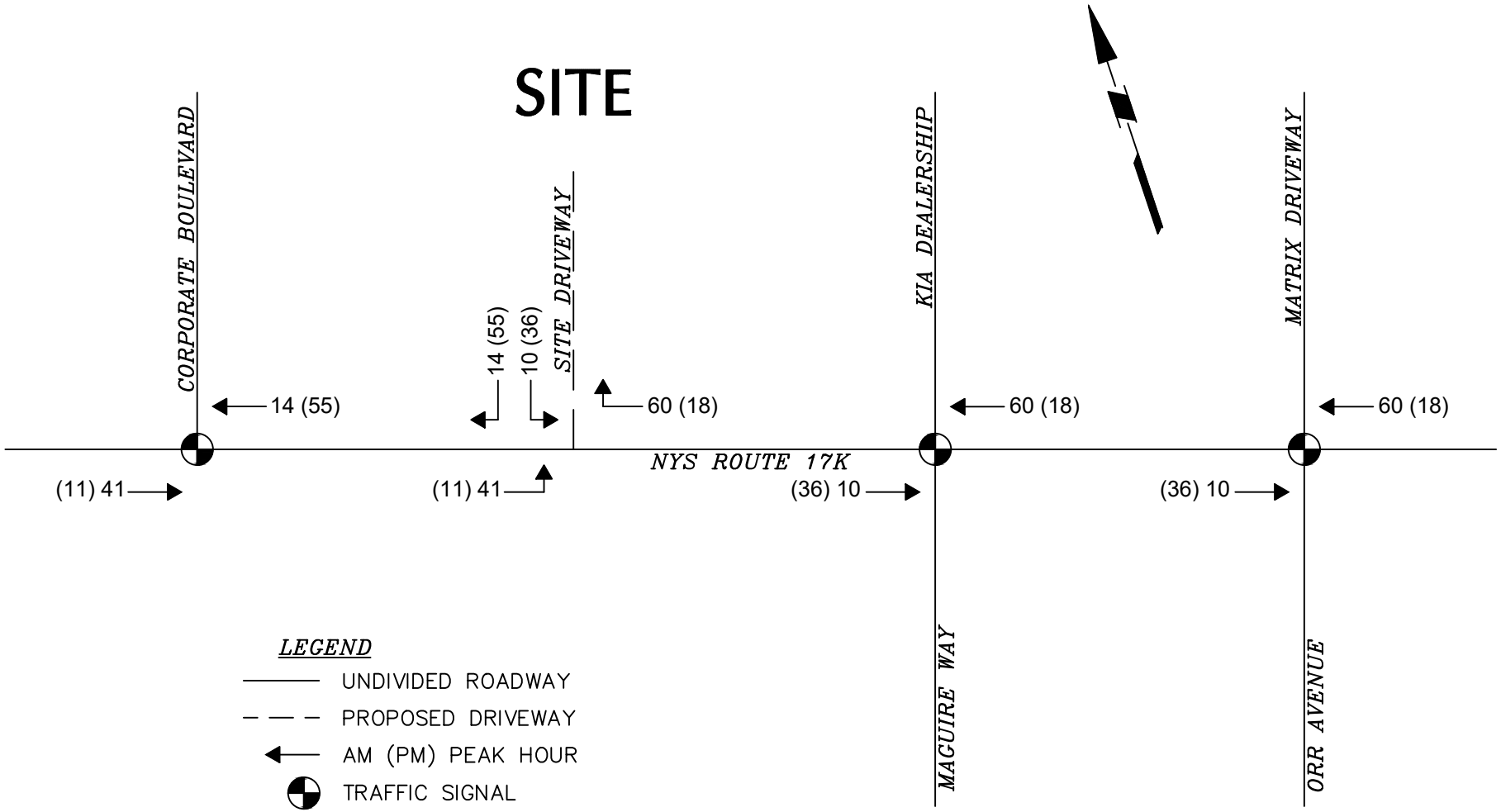
Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
SITE-GENERATED TRIPS TRUCKS

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 7
Sheet 7 of 9

Filename: \\langan.com\data\WPW\data9\190071901\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 7-SGTR



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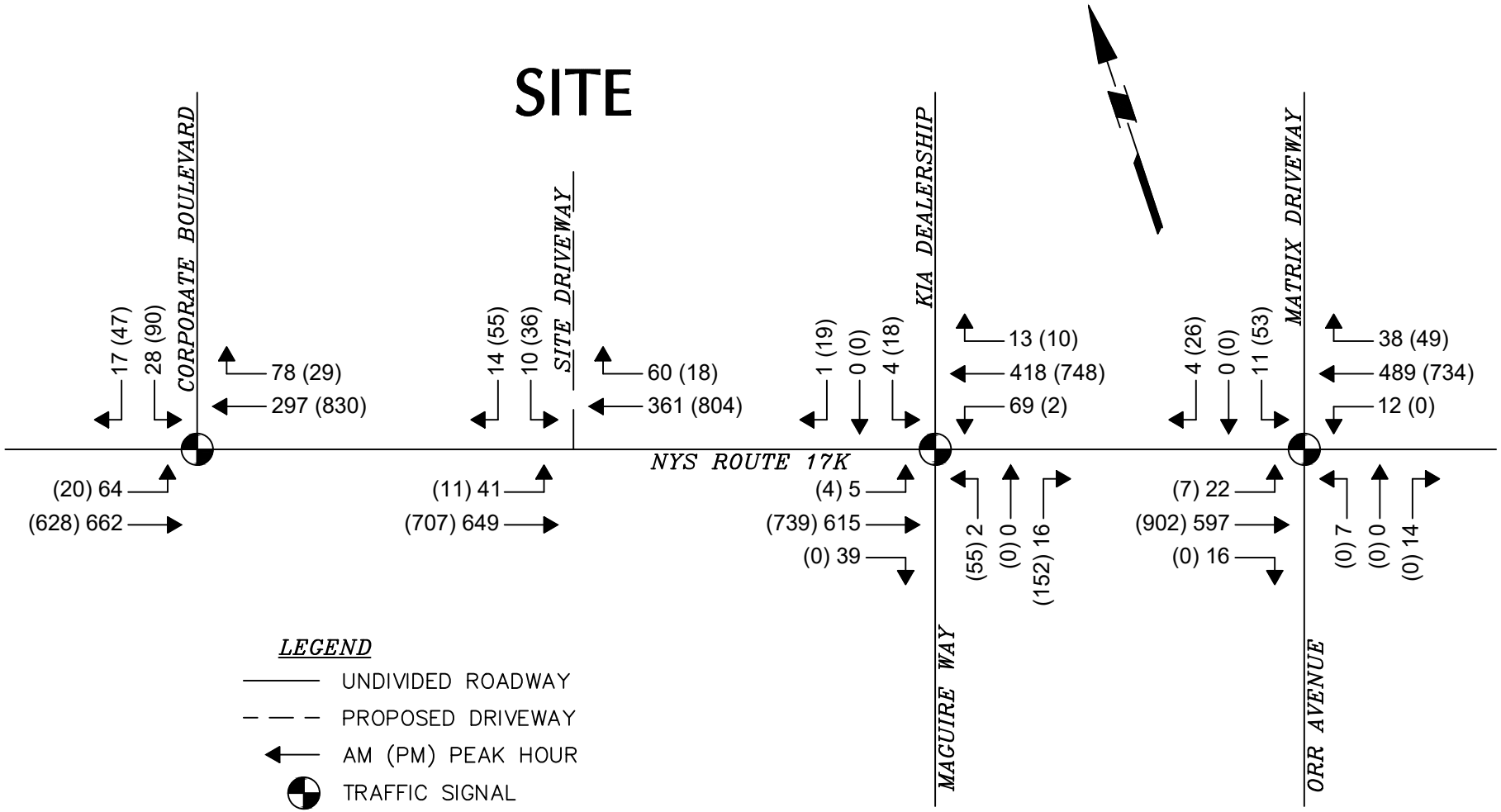
Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
TOTAL SITE-GENERATED TRIPS

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 8
Sheet 8 of 9

Filename: \\langan.com\data\WPW\data9\190071901\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 8-SGTO



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Project
NEWBURGH COMMERCE CENTER
SECTION 95, BLOCK 1, LOT 58
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Drawing Title
2023 BUILD TRAFFIC VOLUMES

Project No. 190071901
Date 11/29/2021
Drawn By JEG
Checked By AWL

Drawing No.
FIGURE 9
Sheet 9 of 9

Filename: \\langan.com\data\WPW\data9\1900719O1\Project Data_Discipline\Traffic\Figures & Tables\2021-11 TIS Figures.dwg Date: 11/29/2021 Time: 15:39 User: jgaskill Style Table: Langan.stb Layout: 9-23BV

APPENDIX B
TRAFFIC COUNTS

TRI-STATE TRAFFIC DATA
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184 Baker Rd
Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

NYS Route 17K & Corporate Blvd
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KCorporate
Site Code : 00000000
Start Date : 10/12/2021
Page No : 1

Groups Printed- Light - Heavy

	DRIVEWAY Southbound			NYS ROUTE 17K Westbound			NYS ROUTE 17K Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
06:00 AM	5	2	7	30	7	37	6	81	87	131
06:15 AM	6	5	11	28	3	31	3	86	89	131
06:30 AM	3	4	7	57	12	69	8	107	115	191
06:45 AM	8	9	17	63	34	97	11	110	121	235
Total	22	20	42	178	56	234	28	384	412	688
07:00 AM	14	6	20	59	17	76	10	121	131	227
07:15 AM	4	5	9	63	11	74	12	135	147	230
07:30 AM	5	3	8	76	25	101	10	170	180	289
07:45 AM	10	3	13	63	10	73	25	183	208	294
Total	33	17	50	261	63	324	57	609	666	1040
08:00 AM	5	6	11	74	18	92	17	124	141	244
08:15 AM	7	5	12	64	23	87	11	129	140	239
08:30 AM	11	7	18	70	12	82	12	155	167	267
08:45 AM	4	5	9	78	12	90	15	171	186	285
Total	27	23	50	286	65	351	55	579	634	1035
*** BREAK ***										
03:00 PM	10	4	14	162	8	170	4	139	143	327
03:15 PM	13	2	15	159	3	162	4	152	156	333
03:30 PM	11	11	22	174	8	182	7	183	190	394
03:45 PM	11	10	21	169	7	176	6	154	160	357
Total	45	27	72	664	26	690	21	628	649	1411
04:00 PM	14	12	26	167	11	178	3	162	165	369
04:15 PM	16	5	21	175	8	183	1	155	156	360
04:30 PM	35	16	51	196	6	202	5	152	157	410
04:45 PM	9	5	14	175	8	183	9	141	150	347
Total	74	38	112	713	33	746	18	610	628	1486

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NYS Route 17K & Corporate Blvd
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KCorporate
Site Code : 00000000
Start Date : 10/12/2021

Groups Printed- Light - Heavy

	DRIVEWAY Southbound			NYS ROUTE 17K Westbound			NYS ROUTE 17K Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
05:00 PM	28	20	48	203	6	209	5	156	161	418
05:15 PM	12	7	19	191	8	199	5	146	151	369
05:30 PM	18	11	29	155	8	163	3	131	134	326
05:45 PM	9	3	12	146	9	155	2	117	119	286
Total	67	41	108	695	31	726	15	550	565	1399
Grand Total	268	166	434	2797	274	3071	194	3360	3554	7059
Apprch %	61.8	38.2		91.1	8.9		5.5	94.5		
Total %	3.8	2.4	6.1	39.6	3.9	43.5	2.7	47.6	50.3	
Light	228	117	345	2673	231	2904	140	3221	3361	6610
% Light	85.1	70.5	79.5	95.6	84.3	94.6	72.2	95.9	94.6	93.6
Heavy	40	49	89	124	43	167	54	139	193	449
% Heavy	14.9	29.5	20.5	4.4	15.7	5.4	27.8	4.1	5.4	6.4

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NYS Route 17K & Corporate Blvd
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KCorporate
Site Code : 00000000
Start Date : 10/12/2021

	DRIVEWAY Southbound			NYS ROUTE 17K Westbound			NYS ROUTE 17K Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	5	3	8	**76**	**25**	**101**	10	170	180	289
07:45 AM	**10**	3	**13**	63	10	73	**25**	**183**	**208**	**294**
08:00 AM	5	**6**	11	74	18	92	17	124	141	244
08:15 AM	7	5	12	64	23	87	11	129	140	239
Total Volume	27	17	44	277	76	353	63	606	669	1066
% App. Total	61.4	38.6		78.5	21.5		9.4	90.6		
PHF	.675	.708	.846	.911	.760	.874	.630	.828	.804	.906
Light	20	6	26	256	67	323	52	578	630	979
% Light	74.1	35.3	59.1	92.4	88.2	91.5	82.5	95.4	94.2	91.8
Heavy	7	11	18	21	9	30	11	28	39	87
% Heavy	25.9	64.7	40.9	7.6	11.8	8.5	17.5	4.6	5.8	8.2
Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:15 PM										
04:15 PM	16	5	21	175	**8**	183	1	155	156	360
04:30 PM	**35**	16	**51**	196	6	202	5	152	157	410
04:45 PM	9	5	14	175	8	183	**9**	141	150	347
05:00 PM	28	**20**	48	**203**	6	**209**	5	**156**	**161**	**418**
Total Volume	88	46	134	749	28	777	20	604	624	1535
% App. Total	65.7	34.3		96.4	3.6		3.2	96.8		
PHF	.629	.575	.657	.922	.875	.929	.556	.968	.969	.918
Light	84	41	125	732	23	755	11	585	596	1476
% Light	95.5	89.1	93.3	97.7	82.1	97.2	55.0	96.9	95.5	96.2
Heavy	4	5	9	17	5	22	9	19	28	59
% Heavy	4.5	10.9	6.7	2.3	17.9	2.8	45.0	3.1	4.5	3.8

TRI-STATE TRAFFIC DATA
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NYS Route 17K & Maguire Way
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KMaguire
Site Code : 00000000
Start Date : 10/12/2021
Page No : 1

Groups Printed- Light - Heavy

	DEALERSHIP DRIVEWAY Southbound				NYS ROUTE 17K Westbound				MAGUIRE WAY Northbound				NYS ROUTE 17K Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	1	0	0	1	22	37	0	59	0	0	1	1	0	71	16	87	148
06:15 AM	0	0	0	0	27	42	0	69	0	0	1	1	0	73	19	92	162
06:30 AM	0	0	0	0	50	63	0	113	1	0	0	1	0	82	28	110	224
06:45 AM	1	0	0	1	60	97	1	158	1	0	4	5	1	84	37	122	286
Total	2	0	0	2	159	239	1	399	2	0	6	8	1	310	100	411	820
07:00 AM	0	0	0	0	40	69	1	110	4	0	7	11	0	107	27	134	255
07:15 AM	1	0	0	1	27	79	1	107	0	0	3	3	0	115	25	140	251
07:30 AM	0	0	0	0	22	94	2	118	1	0	2	3	2	154	16	172	293
07:45 AM	1	0	0	1	16	72	5	93	0	0	3	3	2	179	11	192	289
Total	2	0	0	2	105	314	9	428	5	0	15	20	4	555	79	638	1088
08:00 AM	2	0	0	2	13	96	5	114	1	0	2	3	0	128	2	130	249
08:15 AM	1	0	1	2	17	85	1	103	0	0	9	9	1	124	9	134	248
08:30 AM	1	0	1	2	6	78	7	91	2	0	5	7	1	158	3	162	262
08:45 AM	5	0	1	6	7	93	3	103	0	0	5	5	3	163	2	168	282
Total	9	0	3	12	43	352	16	411	3	0	21	24	5	573	16	594	1041
*** BREAK ***																	
03:00 PM	5	0	4	9	1	150	2	153	8	0	11	19	4	142	1	147	328
03:15 PM	2	0	2	4	1	152	4	157	16	0	20	36	3	162	0	165	362
03:30 PM	1	0	0	1	3	133	1	137	45	0	57	102	0	194	2	196	436
03:45 PM	2	0	3	5	2	164	1	167	13	0	30	43	2	162	0	164	379
Total	10	0	9	19	7	599	8	614	82	0	118	200	9	660	3	672	1505
04:00 PM	2	0	2	4	1	150	2	153	25	0	52	77	1	164	2	167	401
04:15 PM	4	0	6	10	0	174	4	178	12	0	47	59	1	180	0	181	428
04:30 PM	2	0	7	9	1	169	1	171	22	0	50	72	0	186	0	186	438
04:45 PM	2	0	2	4	0	170	3	173	13	0	35	48	1	144	0	145	370
Total	10	0	17	27	2	663	10	675	72	0	184	256	3	674	2	679	1637

TRI-STATE TRAFFIC DATA
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NYS Route 17K & Maguire Way
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KMaguire
Site Code : 00000000
Start Date : 10/12/2021

Groups Printed- Light - Heavy

	DEALERSHIP DRIVEWAY Southbound				NYS ROUTE 17K Westbound				MAGUIRE WAY Northbound				NYS ROUTE 17K Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
05:00 PM	10	0	4	14	1	202	2	205	7	0	17	24	2	178	0	180	423
05:15 PM	7	0	0	7	0	193	4	197	3	0	21	24	0	151	2	153	381
05:30 PM	6	0	2	8	2	168	3	173	3	0	12	15	0	161	0	161	357
05:45 PM	2	0	2	4	2	136	2	140	1	0	6	7	1	134	1	136	287
Total	25	0	8	33	5	699	11	715	14	0	56	70	3	624	3	630	1448
Grand Total	58	0	37	95	321	2866	55	3242	178	0	400	578	25	3396	203	3624	7539
Apprch %	61.1	0	38.9		9.9	88.4	1.7		30.8	0	69.2		0.7	93.7	5.6		
Total %	0.8	0	0.5	1.3	4.3	38	0.7	43	2.4	0	5.3	7.7	0.3	45	2.7	48.1	
Light	57	0	36	93	317	2698	52	3067	175	0	395	570	25	3224	202	3451	7181
% Light	98.3	0	97.3	97.9	98.8	94.1	94.5	94.6	98.3	0	98.8	98.6	100	94.9	99.5	95.2	95.3
Heavy	1	0	1	2	4	168	3	175	3	0	5	8	0	172	1	173	358
% Heavy	1.7	0	2.7	2.1	1.2	5.9	5.5	5.4	1.7	0	1.2	1.4	0	5.1	0.5	4.8	4.7

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NYS Route 17K & Maguire Way
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KMaguire
Site Code : 00000000
Start Date : 10/12/2021

	DEALERSHIP DRIVEWAY Southbound				NYS ROUTE 17K Westbound				MAGUIRE WAY Northbound				NYS ROUTE 17K Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	**22**	94	2	**118**	**1**	0	2	3	**2**	154	**16**	172	**293**
07:45 AM	1	0	0	1	16	72	**5**	93	0	0	3	3	2	**179**	11	**192**	289
08:00 AM	**2**	0	0	**2**	13	**96**	5	114	1	0	2	3	0	128	2	130	249
08:15 AM	1	0	**1**	2	17	85	1	103	0	0	**9**	**9**	1	124	9	134	248
Total Volume	4	0	1	5	68	347	13	428	2	0	16	18	5	585	38	628	1079
% App. Total	80	0	20		15.9	81.1	3		11.1	0	88.9		0.8	93.2	6.1		
PHF	.500	.000	.250	.625	.773	.904	.650	.907	.500	.000	.444	.500	.625	.817	.594	.818	.921
Light	4	0	1	5	66	317	13	396	2	0	15	17	5	552	37	594	1012
% Light	100	0	100	100	97.1	91.4	100	92.5	100	0	93.8	94.4	100	94.4	97.4	94.6	93.8
Heavy	0	0	0	0	2	30	0	32	0	0	1	1	0	33	1	34	67
% Heavy	0	0	0	0	2.9	8.6	0	7.5	0	0	6.3	5.6	0	5.6	2.6	5.4	6.2
Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	4	0	6	10	0	174	**4**	178	12	0	47	59	1	180	0	181	428
04:30 PM	2	0	**7**	9	**1**	169	1	171	**22**	0	**50**	**72**	0	**186**	0	**186**	**438**
04:45 PM	2	0	2	4	0	170	3	173	13	0	35	48	1	144	0	145	370
05:00 PM	**10**	0	4	**14**	1	**202**	2	**205**	7	0	17	24	**2**	178	0	180	423
Total Volume	18	0	19	37	2	715	10	727	54	0	149	203	4	688	0	692	1659
% App. Total	48.6	0	51.4		0.3	98.3	1.4		26.6	0	73.4		0.6	99.4	0		
PHF	.450	.000	.679	.661	.500	.885	.625	.887	.614	.000	.745	.705	.500	.925	.000	.930	.947
Light	18	0	18	36	2	694	9	705	54	0	149	203	4	667	0	671	1615
% Light	100	0	94.7	97.3	100	97.1	90.0	97.0	100	0	100	100	100	96.9	0	97.0	97.3
Heavy	0	0	1	1	0	21	1	22	0	0	0	0	0	21	0	21	44
% Heavy	0	0	5.3	2.7	0	2.9	10.0	3.0	0	0	0	0	0	3.1	0	3.0	2.7

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NYS Route 17K & Orr Avenue
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KOrr
Site Code : 00000000
Start Date : 10/12/2021
Page No : 1

Groups Printed- Light - Heavy

	DRIVEWAY Southbound				NYS ROUTE 17K Westbound				ORR AVENUE Northbound				NYS ROUTE 17K Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	1	0	0	1	0	59	4	63	0	0	0	0	1	71	0	72	136
06:15 AM	1	0	2	3	0	65	4	69	0	0	0	0	0	73	0	73	145
06:30 AM	3	0	0	3	0	119	3	122	0	0	0	0	3	83	0	86	211
06:45 AM	2	0	2	4	0	151	4	155	0	0	0	0	1	107	0	108	267
Total	7	0	4	11	0	394	15	409	0	0	0	0	5	334	0	339	759
07:00 AM	1	0	0	1	0	110	3	113	0	0	0	0	2	113	0	115	229
07:15 AM	1	0	0	1	0	114	2	116	0	0	0	0	2	117	0	119	236
07:30 AM	0	0	2	2	0	115	12	127	1	0	0	1	8	149	3	160	290
07:45 AM	7	0	1	8	2	96	16	114	0	0	1	1	8	167	5	180	303
Total	9	0	3	12	2	435	33	470	1	0	1	2	20	546	8	574	1058
08:00 AM	2	0	0	2	3	106	6	115	5	0	4	9	3	128	4	135	261
08:15 AM	2	0	1	3	7	100	3	110	1	0	9	10	3	131	4	138	261
08:30 AM	18	0	4	22	4	82	1	87	4	0	6	10	1	156	5	162	281
08:45 AM	2	0	1	3	2	90	3	95	4	0	6	10	0	160	7	167	275
Total	24	0	6	30	16	378	13	407	14	0	25	39	7	575	20	602	1078
*** BREAK ***																	
03:00 PM	3	0	2	5	0	152	8	160	3	0	2	5	0	162	0	162	332
03:15 PM	3	0	2	5	0	149	6	155	0	0	0	0	3	183	1	187	347
03:30 PM	10	0	3	13	0	131	8	139	0	0	1	1	6	243	0	249	402
03:45 PM	11	0	2	13	0	169	19	188	0	0	1	1	7	187	0	194	396
Total	27	0	9	36	0	601	41	642	3	0	4	7	16	775	1	792	1477
04:00 PM	8	0	2	10	0	155	6	161	0	0	0	0	3	226	0	229	400
04:15 PM	3	0	3	6	0	164	11	175	0	0	0	0	3	220	0	223	404
04:30 PM	31	0	13	44	0	168	14	182	0	0	0	0	2	235	0	237	463
04:45 PM	9	0	5	14	0	169	17	186	0	0	0	0	1	176	0	177	377
Total	51	0	23	74	0	656	48	704	0	0	0	0	9	857	0	866	1644

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NYS Route 17K & Orr Avenue
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KOrr
Site Code : 00000000
Start Date : 10/12/2021

Groups Printed- Light - Heavy

	DRIVEWAY Southbound				NYS ROUTE 17K Westbound				ORR AVENUE Northbound				NYS ROUTE 17K Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
05:00 PM	9	0	4	13	0	198	6	204	0	0	0	0	1	218	0	219	436
05:15 PM	2	0	1	3	0	198	4	202	0	0	0	0	0	180	0	180	385
05:30 PM	3	0	2	5	0	171	0	171	0	0	0	0	1	164	0	165	341
05:45 PM	3	0	0	3	0	148	2	150	0	0	0	0	1	131	0	132	285
Total	17	0	7	24	0	715	12	727	0	0	0	0	3	693	0	696	1447
Grand Total	135	0	52	187	18	3179	162	3359	18	0	30	48	60	3780	29	3869	7463
Apprch %	72.2	0	27.8		0.5	94.6	4.8		37.5	0	62.5		1.6	97.7	0.7		
Total %	1.8	0	0.7	2.5	0.2	42.6	2.2	45	0.2	0	0.4	0.6	0.8	50.6	0.4	51.8	
Light	129	0	48	177	18	3014	154	3186	18	0	30	48	52	3630	29	3711	7122
% Light	95.6	0	92.3	94.7	100	94.8	95.1	94.8	100	0	100	100	86.7	96	100	95.9	95.4
Heavy	6	0	4	10	0	165	8	173	0	0	0	0	8	150	0	158	341
% Heavy	4.4	0	7.7	5.3	0	5.2	4.9	5.2	0	0	0	0	13.3	4	0	4.1	4.6

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NYS Route 17K & Orr Avenue
Turning Movement Count
Weekday AM & PM Peak Hours
Tuesday, October 12, 2021

File Name : 17KOrr
Site Code : 00000000
Start Date : 10/12/2021

	DRIVEWAY Southbound				NYS ROUTE 17K Westbound				ORR AVENUE Northbound				NYS ROUTE 17K Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	**2**	2	0	**115**	12	**127**	1	0	0	1	**8**	149	3	160	290
07:45 AM	**7**	0	1	**8**	2	96	**16**	114	0	0	1	1	8	**167**	**5**	**180**	**303**
08:00 AM	2	0	0	2	3	106	6	115	**5**	0	4	9	3	128	4	135	261
08:15 AM	2	0	1	3	**7**	100	3	110	1	0	**9**	**10**	3	131	4	138	261
Total Volume	11	0	4	15	12	417	37	466	7	0	14	21	22	575	16	613	1115
% App. Total	73.3	0	26.7		2.6	89.5	7.9		33.3	0	66.7		3.6	93.8	2.6		
PHF	.393	.000	.500	.469	.429	.907	.578	.917	.350	.000	.389	.525	.688	.861	.800	.851	.920
Light	10	0	2	12	12	385	35	432	7	0	14	21	18	544	16	578	1043
% Light	90.9	0	50.0	80.0	100	92.3	94.6	92.7	100	0	100	100	81.8	94.6	100	94.3	93.5
Heavy	1	0	2	3	0	32	2	34	0	0	0	0	4	31	0	35	72
% Heavy	9.1	0	50.0	20.0	0	7.7	5.4	7.3	0	0	0	0	18.2	5.4	0	5.7	6.5
Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	3	0	3	6	0	164	11	175	0	0	0	0	**3**	220	0	223	404
04:30 PM	**31**	0	**13**	**44**	0	168	14	182	0	0	0	0	2	**235**	0	**237**	**463**
04:45 PM	9	0	5	14	0	169	**17**	186	0	0	0	0	1	176	0	177	377
05:00 PM	9	0	4	13	0	**198**	6	**204**	0	0	0	0	1	218	0	219	436
Total Volume	52	0	25	77	0	699	48	747	0	0	0	0	7	849	0	856	1680
% App. Total	67.5	0	32.5		0	93.6	6.4		0	0	0		0.8	99.2	0		
PHF	.419	.000	.481	.438	.000	.883	.706	.915	.000	.000	.000	.000	.583	.903	.000	.903	.907
Light	51	0	24	75	0	676	47	723	0	0	0	0	7	830	0	837	1635
% Light	98.1	0	96.0	97.4	0	96.7	97.9	96.8	0	0	0	0	100	97.8	0	97.8	97.3
Heavy	1	0	1	2	0	23	1	24	0	0	0	0	0	19	0	19	45
% Heavy	1.9	0	4.0	2.6	0	3.3	2.1	3.2	0	0	0	0	0	2.2	0	2.2	2.7

LANGAN

Route 17K & McDonald St
Manual Turning Movement Count
Weekday PM Peak Hours
Friday, 4 April 2014

File Name : 17k & McDonald St PM
Site Code : 00000000
Start Date : 4/4/2014
Page No : 1

Groups Printed- Lights - Buses - Trucks

	Southbound					17K Westbound					McDONALD ST Northbound					17K Eastbound					
Start Time	Left	Thru	Right	U-Turn	App. Total	Left	Thru	Right	U-Turn	App. Total	Left	Thru	Right	U-Turn	App. Total	Left	Thru	Right	U-Turn	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	157	0	0	158	22	0	47	0	69	0	172	0	0	172	399
04:15 PM	0	0	0	0	0	2	178	0	0	180	21	0	61	0	82	0	135	0	0	135	397
04:30 PM	0	0	0	0	0	1	174	0	0	175	15	0	41	0	56	0	197	0	0	197	428
04:45 PM	0	0	0	0	0	1	166	0	0	167	12	0	34	0	46	0	169	0	0	169	382
Total	0	0	0	0	0	5	675	0	0	680	70	0	183	0	253	0	673	0	0	673	1606
05:00 PM	0	0	0	0	0	0	201	0	0	201	6	0	24	1	31	0	179	0	0	179	411
05:15 PM	0	0	0	0	0	1	192	0	0	193	3	0	13	0	16	0	167	0	0	167	376
05:30 PM	0	0	0	0	0	0	160	0	0	160	3	0	18	0	21	0	179	2	0	181	362
05:45 PM	0	0	0	0	0	2	165	0	0	167	3	0	15	0	18	0	157	1	0	158	343
Total	0	0	0	0	0	3	718	0	0	721	15	0	70	1	86	0	682	3	0	685	1492
06:00 PM	0	0	0	0	0	1	184	0	0	185	2	0	4	0	6	0	153	4	0	157	348
06:15 PM	0	0	1	0	1	2	146	1	0	149	0	0	8	0	8	0	137	0	0	137	295
06:30 PM	0	0	0	0	0	1	129	0	0	130	1	0	6	0	7	0	121	0	0	121	258
06:45 PM	0	0	0	0	0	1	124	0	0	125	1	0	2	0	3	0	110	1	0	111	239
Total	0	0	1	0	1	5	583	1	0	589	4	0	20	0	24	0	521	5	0	526	1140
07:00 PM	0	0	0	0	0	4	146	0	0	150	2	0	2	0	4	0	104	1	0	105	259
07:15 PM	0	0	0	0	0	0	122	0	0	122	1	0	4	0	5	0	101	0	0	101	228
07:30 PM	0	0	0	0	0	1	95	0	0	96	1	0	1	0	2	0	105	0	0	105	203
07:45 PM	0	0	0	0	0	1	123	0	0	124	0	0	1	0	1	0	101	0	0	101	226
Total	0	0	0	0	0	6	486	0	0	492	4	0	8	0	12	0	411	1	0	412	916
Grand Total	0	0	1	0	1	19	2462	1	0	2482	93	0	281	1	375	0	2287	9	0	2296	5154
Apprch %	0	0	100	0		0.8	99.2	0	0		24.8	0	74.9	0.3		0	99.6	0.4	0		
Total %	0	0	0	0	0	0.4	47.8	0	0	48.2	1.8	0	5.5	0	7.3	0	44.4	0.2	0	44.5	
Lights	0	0	1	0	1	19	2353	1	0	2373	93	0	281	1	375	0	2222	9	0	2231	4980
% Lights	0	0	100	0	100	100	95.6	100	0	95.6	100	0	100	100	100	0	97.2	100	0	97.2	96.6
Buses	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	13	0	0	13	17
% Buses	0	0	0	0	0	0	0.2	0	0	0.2	0	0	0	0	0	0	0.6	0	0	0.6	0.3
Trucks	0	0	0	0	0	0	105	0	0	105	0	0	0	0	0	0	52	0	0	52	157
% Trucks	0	0	0	0	0	0	4.3	0	0	4.2	0	0	0	0	0	0	2.3	0	0	2.3	3

LANGAN

Route 17K & McDonald St
Manual Turning Movement Count
Weekday PM Peak Hours
Friday, 4 April 2014

File Name : 17k & McDonald St PM
Site Code : 00000000
Start Date : 4/4/2014

	Southbound					17K Westbound					McDONALD ST Northbound					17K Eastbound					
Start Time	Left	Thru	Right	U-Turn	App. Total	Left	Thru	Right	U-Turn	App. Total	Left	Thru	Right	U-Turn	App. Total	Left	Thru	Right	U-Turn	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	0	0	0	0	0	**2**	178	0	0	180	**21**	0	**61**	0	**82**	0	135	0	0	135	397
04:30 PM	0	0	0	0	0	1	174	0	0	175	15	0	41	0	56	0	**197**	0	0	**197**	**428**
04:45 PM	0	0	0	0	0	1	166	0	0	167	12	0	34	0	46	0	169	0	0	169	382
05:00 PM	0	0	0	0	0	0	**201**	0	0	**201**	6	0	24	**1**	31	0	179	0	0	179	411
Total Volume	0	0	0	0	0	4	719	0	0	723	54	0	160	1	215	0	680	0	0	680	1618
% App. Total	0	0	0	0		0.6	99.4	0	0		25.1	0	74.4	0.5		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.500	.894	.000	.000	.899	.643	.000	.656	.250	.655	.000	.863	.000	.000	.863	.945
Lights	0	0	0	0	0	4	683	0	0	687	54	0	160	1	215	0	656	0	0	656	1558
% Lights	0	0	0	0	0	100	95.0	0	0	95.0	100	0	100	100	100	0	96.5	0	0	96.5	96.3
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	7
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	1.0	0.4
Trucks	0	0	0	0	0	0	36	0	0	36	0	0	0	0	0	0	17	0	0	17	53
% Trucks	0	0	0	0	0	0	5.0	0	0	5.0	0	0	0	0	0	0	2.5	0	0	2.5	3.3
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 06:00 PM																					
06:00 PM	0	0	0	0	0	1	**184**	0	0	**185**	**2**	0	4	0	6	0	**153**	**4**	0	**157**	**348**
06:15 PM	0	0	**1**	0	**1**	**2**	146	**1**	0	149	0	0	**8**	0	**8**	0	137	0	0	137	295
06:30 PM	0	0	0	0	0	1	129	0	0	130	1	0	6	0	7	0	121	0	0	121	258
06:45 PM	0	0	0	0	0	1	124	0	0	125	1	0	2	0	3	0	110	1	0	111	239
Total Volume	0	0	1	0	1	5	583	1	0	589	4	0	20	0	24	0	521	5	0	526	1140
% App. Total	0	0	100	0		0.8	99	0.2	0		16.7	0	83.3	0		0	99	1	0		
PHF	.000	.000	.250	.000	.250	.625	.792	.250	.000	.796	.500	.000	.625	.000	.750	.000	.851	.313	.000	.838	.819
Lights	0	0	1	0	1	5	557	1	0	563	4	0	20	0	24	0	512	5	0	517	1105
% Lights	0	0	100	0	100	100	95.5	100	0	95.6	100	0	100	0	100	0	98.3	100	0	98.3	96.9
Buses	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	4
% Buses	0	0	0	0	0	0	0.3	0	0	0.3	0	0	0	0	0	0	0.4	0	0	0.4	0.4
Trucks	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	0	7	0	0	7	31
% Trucks	0	0	0	0	0	0	4.1	0	0	4.1	0	0	0	0	0	0	1.3	0	0	1.3	2.7

LANGAN

Route 17K & Orr Ave
Manual Turning Movement Count
Weekday PM Peak Hours
Friday, 4 April 2014

File Name : 17k & Orr Ave PM
Site Code : 00000000
Start Date : 4/4/2014
Page No : 1

Groups Printed- Lights - Buses - Trucks

	17K Westbound				ORR AVE Northbound				17K Eastbound				
Start Time	Left	Thru	U-Turn	App. Total	Left	Right	U-Turn	App. Total	Thru	Right	U-Turn	App. Total	Int. Total
04:00 PM	1	161	0	162	4	3	0	7	215	0	0	215	384
04:15 PM	0	177	0	177	0	1	0	1	201	1	0	202	380
04:30 PM	0	162	0	162	0	0	0	0	231	1	0	232	394
04:45 PM	1	176	0	177	2	0	0	2	194	1	0	195	374
Total	2	676	0	678	6	4	0	10	841	3	0	844	1532
05:00 PM	0	201	0	201	2	6	0	8	216	0	0	216	425
05:15 PM	0	181	0	181	0	0	0	0	189	0	0	189	370
05:30 PM	0	164	0	164	0	2	0	2	209	1	0	210	376
05:45 PM	0	167	0	167	1	1	0	2	167	2	0	169	338
Total	0	713	0	713	3	9	0	12	781	3	0	784	1509
06:00 PM	1	177	0	178	1	0	0	1	148	0	0	148	327
06:15 PM	0	154	0	154	0	1	0	1	154	0	0	154	309
06:30 PM	2	136	0	138	0	1	0	1	113	2	0	115	254
06:45 PM	0	123	0	123	0	1	0	1	110	0	0	110	234
Total	3	590	0	593	1	3	0	4	525	2	0	527	1124
07:00 PM	0	148	0	148	0	3	0	3	110	0	0	110	261
07:15 PM	0	116	0	116	0	1	0	1	103	1	0	104	221
07:30 PM	0	107	0	107	1	0	0	1	105	0	0	105	213
07:45 PM	0	114	0	114	0	0	0	0	101	0	0	101	215
Total	0	485	0	485	1	4	0	5	419	1	0	420	910
Grand Total	5	2464	0	2469	11	20	0	31	2566	9	0	2575	5075
Apprch %	0.2	99.8	0		35.5	64.5	0		99.7	0.3	0		
Total %	0.1	48.6	0	48.7	0.2	0.4	0	0.6	50.6	0.2	0	50.7	
Lights	5	2352	0	2357	10	20	0	30	2501	8	0	2509	4896
% Lights	100	95.5	0	95.5	90.9	100	0	96.8	97.5	88.9	0	97.4	96.5
Buses	0	4	0	4	0	0	0	0	12	0	0	12	16
% Buses	0	0.2	0	0.2	0	0	0	0	0.5	0	0	0.5	0.3
Trucks	0	108	0	108	1	0	0	1	53	1	0	54	163
% Trucks	0	4.4	0	4.4	9.1	0	0	3.2	2.1	11.1	0	2.1	3.2

LANGAN

Route 17K & Orr Ave
Manual Turning Movement Count
Weekday PM Peak Hours
Friday, 4 April 2014

File Name : 17k & Orr Ave PM
Site Code : 00000000
Start Date : 4/4/2014

	17K Westbound				ORR AVE Northbound				17K Eastbound				
Start Time	Left	Thru	U-Turn	App. Total	Left	Right	U-Turn	App. Total	Thru	Right	U-Turn	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:15 PM													
04:15 PM	0	177	0	177	0	1	0	1	201	**1**	0	202	380
04:30 PM	0	162	0	162	0	0	0	0	**231**	1	0	**232**	394
04:45 PM	**1**	176	0	177	**2**	0	0	2	194	1	0	195	374
05:00 PM	0	**201**	0	**201**	2	**6**	0	**8**	216	0	0	216	**425**
Total Volume	1	716	0	717	4	7	0	11	842	3	0	845	1573
% App. Total	0.1	99.9	0		36.4	63.6	0		99.6	0.4	0		
PHF	.250	.891	.000	.892	.500	.292	.000	.344	.911	.750	.000	.911	.925
Lights	1	679	0	680	4	7	0	11	818	2	0	820	1511
% Lights	100	94.8	0	94.8	100	100	0	100	97.1	66.7	0	97.0	96.1
Buses	0	0	0	0	0	0	0	0	6	0	0	6	6
% Buses	0	0	0	0	0	0	0	0	0.7	0	0	0.7	0.4
Trucks	0	37	0	37	0	0	0	0	18	1	0	19	56
% Trucks	0	5.2	0	5.2	0	0	0	0	2.1	33.3	0	2.2	3.6
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 06:00 PM													
06:00 PM	1	**177**	0	**178**	**1**	0	0	**1**	148	0	0	148	**327**
06:15 PM	0	154	0	154	0	**1**	0	1	**154**	0	0	**154**	309
06:30 PM	**2**	136	0	138	0	1	0	1	113	**2**	0	115	254
06:45 PM	0	123	0	123	0	1	0	1	110	0	0	110	234
Total Volume	3	590	0	593	1	3	0	4	525	2	0	527	1124
% App. Total	0.5	99.5	0		25	75	0		99.6	0.4	0		
PHF	.375	.833	.000	.833	.250	.750	.000	1.00	.852	.250	.000	.856	.859
Lights	3	557	0	560	1	3	0	4	517	2	0	519	1083
% Lights	100	94.4	0	94.4	100	100	0	100	98.5	100	0	98.5	96.4
Buses	0	2	0	2	0	0	0	0	1	0	0	1	3
% Buses	0	0.3	0	0.3	0	0	0	0	0.2	0	0	0.2	0.3
Trucks	0	31	0	31	0	0	0	0	7	0	0	7	38
% Trucks	0	5.3	0	5.2	0	0	0	0	1.3	0	0	1.3	3.4

LANGAN

NY Route 17K & McDonald St
Manual Turning Movement Count
Weekday AM Peak Hour
Tuesday, 30 June 2015

File Name : 17K&McDonaldSt AM 6-30-2015
Site Code : 00000000
Start Date : 6/30/2015
Page No : 1

Groups Printed- Motorcycles - Cars - Light Goods Vehicles - Buses - Unit Trucks - Articulated Trucks

	NY ROUTE 17K Westbound			McDONALD STREET Northbound			NY ROUTE 17K Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
06:00 AM	35	29	64	0	1	1	76	20	96	161
06:15 AM	50	64	114	1	3	4	76	36	112	230
06:30 AM	42	72	114	1	1	2	105	33	138	254
06:45 AM	44	68	112	2	1	3	93	25	118	233
Total	171	233	404	4	6	10	350	114	464	878
07:00 AM	33	57	90	3	7	10	87	27	114	214
07:15 AM	43	81	124	2	7	9	106	38	144	277
07:30 AM	27	117	144	4	6	10	149	10	159	313
07:45 AM	11	92	103	3	13	16	148	6	154	273
Total	114	347	461	12	33	45	490	81	571	1077
08:00 AM	11	94	105	3	7	10	139	2	141	256
08:15 AM	9	93	102	0	9	9	170	8	178	289
08:30 AM	7	102	109	1	7	8	169	2	171	288
08:45 AM	11	99	110	0	7	7	152	1	153	270
Total	38	388	426	4	30	34	630	13	643	1103
Grand Total	323	968	1291	20	69	89	1470	208	1678	3058
Apprch %	25	75		22.5	77.5		87.6	12.4		
Total %	10.6	31.7	42.2	0.7	2.3	2.9	48.1	6.8	54.9	
Motorcycles	5	4	9	0	0	0	4	1	5	14
% Motorcycles	1.5	0.4	0.7	0	0	0	0.3	0.5	0.3	0.5
Cars	264	720	984	15	54	69	1092	165	1257	2310
% Cars	81.7	74.4	76.2	75	78.3	77.5	74.3	79.3	74.9	75.5
Light Goods Vehicles	53	143	196	4	14	18	248	42	290	504
% Light Goods Vehicles	16.4	14.8	15.2	20	20.3	20.2	16.9	20.2	17.3	16.5
Buses	0	2	2	0	0	0	4	0	4	6
% Buses	0	0.2	0.2	0	0	0	0.3	0	0.2	0.2
Single-Unit Trucks	1	55	56	1	1	2	77	0	77	135
% Single-Unit Trucks	0.3	5.7	4.3	5	1.4	2.2	5.2	0	4.6	4.4
Articulated Trucks	0	44	44	0	0	0	45	0	45	89
% Articulated Trucks	0	4.5	3.4	0	0	0	3.1	0	2.7	2.9

LANGAN

NY Route 17K & McDonald St
Manual Turning Movement Count
Weekday AM Peak Hour
Tuesday, 30 June 2015

File Name : 17K&McDonaldSt AM 6-30-2015
Site Code : 00000000
Start Date : 6/30/2015

	NY ROUTE 17K Westbound			McDONALD STREET Northbound			NY ROUTE 17K Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	**27**	**117**	**144**	**4**	6	10	149	**10**	159	**313**
07:45 AM	11	92	103	3	**13**	**16**	148	6	154	273
08:00 AM	11	94	105	3	7	10	139	2	141	256
08:15 AM	9	93	102	0	9	9	**170**	8	**178**	289
Total Volume	58	396	454	10	35	45	606	26	632	1131
% App. Total	12.8	87.2		22.2	77.8		95.9	4.1		
PHF	.537	.846	.788	.625	.673	.703	.891	.650	.888	.903
Motorcycles	0	2	2	0	0	0	3	0	3	5
% Motorcycles	0	0.5	0.4	0	0	0	0.5	0	0.5	0.4
Cars	50	297	347	6	29	35	457	20	477	859
% Cars	86.2	75.0	76.4	60.0	82.9	77.8	75.4	76.9	75.5	76.0
Light Goods Vehicles	7	51	58	3	6	9	102	6	108	175
% Light Goods Vehicles	12.1	12.9	12.8	30.0	17.1	20.0	16.8	23.1	17.1	15.5
Buses	0	2	2	0	0	0	0	0	0	2
% Buses	0	0.5	0.4	0	0	0	0	0	0	0.2
Single-Unit Trucks	1	22	23	1	0	1	25	0	25	49
% Single-Unit Trucks	1.7	5.6	5.1	10.0	0	2.2	4.1	0	4.0	4.3
Articulated Trucks	0	22	22	0	0	0	19	0	19	41
% Articulated Trucks	0	5.6	4.8	0	0	0	3.1	0	3.0	3.6

LANGAN

NY Route 17K & Orr Ave
Manual Turning Movement Count
Weekday AM Peak Hour
Tuesday, 30 June 2015

File Name : 17K&OrrAve AM 6-30-2015
Site Code : 00000000
Start Date : 6/30/2015
Page No : 1

Groups Printed- Motorcycles - Cars - Light Goods Vehicles - Buses - Unit Trucks - Articulated Trucks

	NY ROUTE 17K Westbound			ORR AVENUE Northbound			NY ROUTE 17K Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
06:00 AM	0	61	61	0	0	0	71	1	72	133
06:15 AM	2	110	112	0	0	0	75	4	79	191
06:30 AM	2	114	116	1	0	1	108	2	110	227
06:45 AM	3	112	115	0	2	2	87	3	90	207
Total	7	397	404	1	2	3	341	10	351	758
07:00 AM	2	89	91	1	1	2	99	3	102	195
07:15 AM	3	124	127	2	1	3	105	2	107	237
07:30 AM	6	140	146	3	3	6	151	2	153	305
07:45 AM	5	94	99	3	2	5	161	2	163	267
Total	16	447	463	9	7	16	516	9	525	1004
08:00 AM	9	105	114	1	12	13	136	7	143	270
08:15 AM	12	103	115	1	9	10	162	7	169	294
08:30 AM	6	104	110	3	5	8	181	5	186	304
08:45 AM	8	106	114	6	9	15	155	6	161	290
Total	35	418	453	11	35	46	634	25	659	1158
Grand Total	58	1262	1320	21	44	65	1491	44	1535	2920
Apprch %	4.4	95.6		32.3	67.7		97.1	2.9		
Total %	2	43.2	45.2	0.7	1.5	2.2	51.1	1.5	52.6	
Motorcycles	0	9	9	0	0	0	4	0	4	13
% Motorcycles	0	0.7	0.7	0	0	0	0.3	0	0.3	0.4
Cars	17	956	973	8	18	26	1140	27	1167	2166
% Cars	29.3	75.8	73.7	38.1	40.9	40	76.5	61.4	76	74.2
Light Goods Vehicles	24	201	225	5	12	17	235	9	244	486
% Light Goods Vehicles	41.4	15.9	17	23.8	27.3	26.2	15.8	20.5	15.9	16.6
Buses	0	2	2	0	0	0	4	0	4	6
% Buses	0	0.2	0.2	0	0	0	0.3	0	0.3	0.2
Single-Unit Trucks	17	57	74	4	14	18	72	4	76	168
% Single-Unit Trucks	29.3	4.5	5.6	19	31.8	27.7	4.8	9.1	5	5.8
Articulated Trucks	0	37	37	4	0	4	36	4	40	81
% Articulated Trucks	0	2.9	2.8	19	0	6.2	2.4	9.1	2.6	2.8

LANGAN

NY Route 17K & Orr Ave
Manual Turning Movement Count
Weekday AM Peak Hour
Tuesday, 30 June 2015

File Name : 17K&OrrAve AM 6-30-2015
Site Code : 00000000
Start Date : 6/30/2015

	NY ROUTE 17K Westbound			ORR AVENUE Northbound			NY ROUTE 17K Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	6	**140**	**146**	**3**	3	6	151	2	153	**305**
07:45 AM	5	94	99	3	2	5	161	2	163	267
08:00 AM	9	105	114	1	**12**	**13**	136	**7**	143	270
08:15 AM	**12**	103	115	1	9	10	**162**	7	**169**	294
Total Volume	32	442	474	8	26	34	610	18	628	1136
% App. Total	6.8	93.2		23.5	76.5		97.1	2.9		
PHF	.667	.789	.812	.667	.542	.654	.941	.643	.929	.931
Motorcycles	0	2	2	0	0	0	3	0	3	5
% Motorcycles	0	0.5	0.4	0	0	0	0.5	0	0.5	0.4
Cars	10	333	343	2	13	15	478	11	489	847
% Cars	31.3	75.3	72.4	25.0	50.0	44.1	78.4	61.1	77.9	74.6
Light Goods Vehicles	13	64	77	1	7	8	91	4	95	180
% Light Goods Vehicles	40.6	14.5	16.2	12.5	26.9	23.5	14.9	22.2	15.1	15.8
Buses	0	2	2	0	0	0	0	0	0	2
% Buses	0	0.5	0.4	0	0	0	0	0	0	0.2
Single-Unit Trucks	9	22	31	3	6	9	24	1	25	65
% Single-Unit Trucks	28.1	5.0	6.5	37.5	23.1	26.5	3.9	5.6	4.0	5.7
Articulated Trucks	0	19	19	2	0	2	14	2	16	37
% Articulated Trucks	0	4.3	4.0	25.0	0	5.9	2.3	11.1	2.5	3.3

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

Start	04-Oct-21		Tue		Wed		Thu		Fri		Weekday Average		Sat		Sun	
Time	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	*	*	*	*	*	*	50	58	42	52	46	55	69	67	46	55
01:00	*	*	*	*	*	*	23	31	39	48	31	40	38	38	46	43
02:00	*	*	*	*	*	*	37	44	36	47	36	46	48	30	21	32
03:00	*	*	*	*	*	*	41	43	43	40	42	42	34	30	26	27
04:00	*	*	*	*	*	*	90	56	89	60	90	58	45	31	22	22
05:00	*	*	*	*	*	*	232	115	225	127	228	121	102	50	51	38
06:00	*	*	*	*	*	*	410	239	368	232	389	236	150	99	65	73
07:00	*	*	*	*	*	*	586	370	623	338	604	354	287	183	137	111
08:00	*	*	*	*	*	*	601	409	653	395	627	402	465	291	231	180
09:00	*	*	*	*	*	*	591	386	661	402	626	394	555	360	364	209
10:00	*	*	*	*	*	*	557	412	603	498	580	455	636	446	485	344
11:00	*	*	*	*	*	*	**621**	**520**	**666**	**570**	**644**	**545**	**679**	**538**	**530**	**415**
12:00 PM	*	*	*	*	*	*	**646**	528	**677**	539	**662**	534	**620**	**550**	**587**	411
01:00	*	*	*	*	596	537	589	574	593	609	593	573	526	525	532	487
02:00	*	*	*	*	574	544	558	622	628	596	587	587	551	502	510	**493**
03:00	*	*	*	*	610	637	612	611	641	661	621	636	567	538	535	404
04:00	*	*	*	*	621	**693**	595	643	619	693	612	**676**	531	476	508	443
05:00	*	*	*	*	**632**	630	636	**664**	637	**699**	635	664	545	458	465	354
06:00	*	*	*	*	472	477	478	527	506	539	485	514	448	380	326	326
07:00	*	*	*	*	304	414	352	421	391	430	349	422	277	294	208	240
08:00	*	*	*	*	206	298	222	321	253	328	227	316	182	240	145	171
09:00	*	*	*	*	145	153	174	186	197	262	172	200	152	151	101	124
10:00	*	*	*	*	123	111	138	126	147	206	136	148	118	151	68	82
11:00	*	*	*	*	89	77	71	94	122	112	94	94	90	66	73	54
Total	0	0	0	0	4372	4571	8910	8000	9459	8483	9116	8112	7715	6494	6082	5138
Day	0		0		8943		16910		17942		17228		14209		11220	
AM Peak	-	-	-	-	-	-	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00
Vol.	-	-	-	-	-	-	621	520	666	570	644	545	679	538	530	415
PM Peak	-	-	-	-	17:00	16:00	12:00	17:00	12:00	17:00	12:00	16:00	12:00	12:00	12:00	14:00
Vol.	-	-	-	-	632	693	646	664	677	699	662	676	620	550	587	493

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

Start	11-Oct-21		Tue		Wed		Thu		Fri		Weekday Average		Sat		Sun	
Time	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	33	31	47	39	42	51	*	*	*	*	41	40	*	*	*	*
01:00	22	22	32	36	22	31	*	*	*	*	25	30	*	*	*	*
02:00	17	26	32	40	30	37	*	*	*	*	26	34	*	*	*	*
03:00	35	20	37	43	33	43	*	*	*	*	35	35	*	*	*	*
04:00	68	45	109	56	100	60	*	*	*	*	92	54	*	*	*	*
05:00	120	109	232	122	235	121	*	*	*	*	196	117	*	*	*	*
06:00	225	223	405	234	379	245	*	*	*	*	336	234	*	*	*	*
07:00	421	283	**625**	313	602	362	*	*	*	*	549	319	*	*	*	*
08:00	486	300	600	357	589	394	*	*	*	*	558	350	*	*	*	*
09:00	566	343	608	353	565	308	*	*	*	*	580	335	*	*	*	*
10:00	590	441	592	477	498	402	*	*	*	*	560	440	*	*	*	*
11:00	**603**	**511**	554	**497**	**626**	**459**	*	*	*	*	**594**	**489**	*	*	*	*
12:00 PM	**700**	556	**711**	543	**592**	398	*	*	*	*	**668**	499	*	*	*	*
01:00	609	553	569	510	584	**442**	*	*	*	*	587	502	*	*	*	*
02:00	657	547	565	601	197	174	*	*	*	*	473	441	*	*	*	*
03:00	637	583	584	614	*	*	*	*	*	*	610	598	*	*	*	*
04:00	615	578	578	632	*	*	*	*	*	*	596	605	*	*	*	*
05:00	605	**641**	548	**648**	*	*	*	*	*	*	576	**644**	*	*	*	*
06:00	497	487	476	476	*	*	*	*	*	*	486	482	*	*	*	*
07:00	316	349	369	363	*	*	*	*	*	*	342	356	*	*	*	*
08:00	208	244	207	281	*	*	*	*	*	*	208	262	*	*	*	*
09:00	126	148	139	163	*	*	*	*	*	*	132	156	*	*	*	*
10:00	111	106	97	112	*	*	*	*	*	*	104	109	*	*	*	*
11:00	74	72	87	79	*	*	*	*	*	*	80	76	*	*	*	*
Total	8341	7218	8803	7589	5094	3527	0	0	0	0	8454	7207	0	0	0	0
Day	15559		16392		8621		0		0		15661		0		0	
AM Peak	11:00	11:00	07:00	11:00	11:00	11:00	-	-	-	-	11:00	11:00	-	-	-	-
Vol.	603	511	625	497	626	459	-	-	-	-	594	489	-	-	-	-
PM Peak	12:00	17:00	12:00	17:00	12:00	13:00	-	-	-	-	12:00	17:00	-	-	-	-
Vol.	700	641	711	648	592	442	-	-	-	-	668	644	-	-	-	-

Comb. Total	15559	16392	17564	16910	17942	32889	14209	11220	
ADT	ADT 15,342	AADT 15,342							

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/06/21	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	7	422	100	5	**41**	6	0	**7**	**8**	0	0	0	0	596
14:00	9	399	**109**	6	34	4	1	4	6	**2**	0	0	0	574
15:00	12	451	91	6	30	**11**	**2**	3	4	0	0	0	0	610
16:00	14	**485**	92	3	17	2	0	4	4	0	0	0	0	621
17:00	**21**	473	91	**8**	28	3	1	5	2	0	0	0	0	**632**
18:00	7	342	93	1	21	4	0	0	4	0	0	0	0	472
19:00	1	234	46	3	16	2	0	1	1	0	0	0	0	304
20:00	0	168	31	0	7	0	0	0	0	0	0	0	0	206
21:00	0	126	16	0	2	0	0	1	0	0	0	0	0	145
22:00	0	108	11	0	2	0	0	1	1	0	0	0	0	123
23:00	1	70	14	0	3	1	0	0	0	0	0	0	0	89
Day Total	72	3278	694	32	201	33	4	26	30	2	0	0	0	4372
Percent	1.6%	75.0%	15.9%	0.7%	4.6%	0.8%	0.1%	0.6%	0.7%	0.0%	0.0%	0.0%	0.0%	
AM Peak Vol.														
PM Peak Vol.	17:00 21	16:00 485	14:00 109	17:00 8	13:00 41	15:00 11	15:00 2	13:00 7	13:00 8	14:00 2				17:00 632

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/07/21	0	32	6	0	1	3	0	0	8	0	0	0	0	50
01:00	1	14	3	0	0	2	0	1	2	0	0	0	0	23
02:00	0	24	4	1	1	1	0	2	4	0	0	0	0	37
03:00	0	25	7	2	3	1	0	0	3	0	0	0	0	41
04:00	1	60	16	1	4	2	0	0	6	0	0	0	0	90
05:00	2	165	39	4	15	0	0	1	6	0	0	0	0	232
06:00	2	268	97	4	25	2	0	5	7	0	0	0	0	410
07:00	9	407	112	9	30	4	0	4	**11**	0	0	0	0	586
08:00	**10**	400	**122**	**11**	36	**9**	0	7	6	0	0	0	0	601
09:00	2	398	118	9	**41**	3	**1**	**12**	7	0	0	0	0	591
10:00	6	400	98	1	31	4	0	8	9	0	0	0	0	557
11:00	8	**445**	120	6	26	3	1	7	5	0	0	0	0	**621**
12 PM	11	467	**109**	6	25	**7**	**4**	**8**	8	0	0	0	**1**	**646**
13:00	10	412	101	6	**37**	6	2	4	**10**	**1**	0	0	0	589
14:00	10	395	103	**11**	31	3	0	1	4	0	0	0	0	558
15:00	10	457	88	3	29	5	3	6	10	1	0	0	0	612
16:00	**25**	439	85	2	25	5	1	6	5	1	0	**1**	0	595
17:00	8	**495**	98	4	21	1	2	4	3	0	0	0	0	636
18:00	4	382	68	2	17	2	0	0	3	0	0	0	0	478
19:00	3	263	62	1	15	1	0	3	3	1	0	0	0	352
20:00	2	174	35	2	7	2	0	0	0	0	0	0	0	222
21:00	0	143	24	0	5	0	0	2	0	0	0	0	0	174
22:00	0	110	23	1	1	1	0	0	2	0	0	0	0	138
23:00	1	55	8	0	4	0	0	2	1	0	0	0	0	71
Day Total	125	6430	1546	86	430	67	14	83	123	4	0	1	1	8910
Percent	1.4%	72.2%	17.4%	1.0%	4.8%	0.8%	0.2%	0.9%	1.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	11:00	08:00	08:00	09:00	08:00	09:00	09:00	07:00					11:00
Vol.	10	445	122	11	41	9	1	12	11					621
PM Peak	16:00	17:00	12:00	14:00	13:00	12:00	12:00	12:00	13:00	13:00		16:00	12:00	12:00
Vol.	25	495	109	11	37	7	4	8	10	1		1	1	646

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/08/21	0	34	6	0	0	1	0	0	1	0	0	0	0	42
01:00	0	28	6	0	0	1	0	0	4	0	0	0	0	39
02:00	0	20	6	0	0	0	0	3	6	0	0	**1**	0	36
03:00	0	25	4	1	3	1	0	0	**9**	0	0	0	0	43
04:00	0	66	10	1	5	3	0	0	4	0	0	0	0	89
05:00	2	166	38	3	8	2	0	1	5	0	0	0	0	225
06:00	4	258	72	4	17	3	0	3	7	0	0	0	0	368
07:00	7	417	133	9	37	6	2	7	4	0	0	0	**1**	623
08:00	4	441	**136**	8	39	4	1	11	9	0	0	0	0	653
09:00	4	459	113	9	**49**	5	1	14	7	0	0	0	0	661
10:00	5	397	121	**10**	44	**7**	0	11	8	0	0	0	0	603
11:00	**8**	**470**	120	3	33	3	**6**	**15**	8	0	0	0	0	**666**
12 PM	16	479	**114**	5	**40**	**5**	**5**	4	8	**1**	0	0	0	**677**
13:00	9	419	108	3	40	3	1	4	6	0	0	0	0	593
14:00	11	455	111	8	23	3	0	8	**9**	0	0	0	0	628
15:00	13	474	102	8	28	1	0	**9**	6	0	0	0	0	641
16:00	**21**	467	92	4	22	3	1	3	5	0	0	**1**	0	619
17:00	10	**492**	94	**10**	20	4	2	3	2	0	0	0	0	637
18:00	11	379	95	1	17	1	0	0	2	0	0	0	0	506
19:00	5	313	53	2	14	1	0	2	1	0	0	0	0	391
20:00	7	202	36	1	5	1	0	0	1	0	0	0	0	253
21:00	2	150	35	0	6	1	0	1	1	1	0	0	0	197
22:00	1	123	18	1	3	1	0	0	0	0	0	0	0	147
23:00	2	99	17	0	2	1	0	1	0	0	0	0	0	122
Day Total	142	6833	1640	91	455	61	19	100	113	2	0	2	1	9459
Percent	1.5%	72.2%	17.3%	1.0%	4.8%	0.6%	0.2%	1.1%	1.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	08:00	10:00	09:00	10:00	11:00	11:00	03:00			02:00	07:00	11:00
Vol.	8	470	136	10	49	7	6	15	9			1	1	666
PM Peak	16:00	17:00	12:00	17:00	12:00	12:00	12:00	15:00	14:00	12:00		16:00		12:00
Vol.	21	492	114	10	40	5	5	9	9	1		1		677

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/09/21	0	58	4	1	1	2	0	0	3	0	0	0	0	69
01:00	0	30	5	0	0	0	0	1	2	0	0	0	0	38
02:00	0	30	9	0	0	0	0	1	**8**	0	0	0	0	48
03:00	0	27	2	1	2	0	0	0	2	0	0	0	0	34
04:00	0	26	9	1	2	0	0	1	6	0	0	0	0	45
05:00	0	77	18	1	2	2	0	0	2	0	0	0	0	102
06:00	0	101	35	2	7	**3**	0	0	2	0	0	0	0	150
07:00	2	198	61	0	18	1	0	3	4	0	0	0	0	287
08:00	4	333	91	**5**	23	1	**1**	3	3	**1**	0	0	0	465
09:00	2	405	106	1	**33**	1	1	1	4	0	0	**1**	0	555
10:00	8	463	**125**	0	29	2	0	**4**	5	0	0	0	0	636
11:00	**12**	**502**	125	2	31	1	0	4	1	1	0	0	0	**679**
12 PM	10	**466**	**115**	**3**	20	1	0	1	3	0	**1**	0	0	**620**
13:00	**13**	414	76	2	14	2	0	1	4	0	0	0	0	526
14:00	11	429	80	2	21	**3**	0	0	**5**	0	0	0	0	551
15:00	10	438	88	1	**22**	3	0	3	2	0	0	0	0	567
16:00	4	430	72	3	17	0	0	**4**	1	0	0	0	0	531
17:00	11	429	80	3	16	3	0	2	1	0	0	0	0	545
18:00	2	354	70	1	18	2	0	0	1	0	0	0	0	448
19:00	0	219	44	2	10	0	0	1	1	0	0	0	0	277
20:00	1	153	26	0	2	0	0	0	0	0	0	0	0	182
21:00	1	127	14	0	8	0	0	1	1	0	0	0	0	152
22:00	0	99	12	0	5	1	0	0	1	0	0	0	0	118
23:00	0	73	13	1	1	0	0	0	2	0	0	0	0	90
Day Total	91	5881	1280	32	302	28	2	31	64	2	1	1	0	7715
Percent	1.2%	76.2%	16.6%	0.4%	3.9%	0.4%	0.0%	0.4%	0.8%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	10:00	08:00	09:00	06:00	08:00	10:00	02:00	08:00		09:00		11:00
Vol.	12	502	125	5	33	3	1	4	8	1		1		679
PM Peak	13:00	12:00	12:00	12:00	15:00	14:00		16:00	14:00		12:00			12:00
Vol.	13	466	115	3	22	3		4	5		1			620

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/10/21	0	38	5	**2**	1	0	0	0	0	0	0	0	0	46
01:00	0	36	7	0	2	0	0	1	0	0	0	0	0	46
02:00	0	16	2	0	2	0	0	0	1	0	0	0	0	21
03:00	0	18	5	0	1	0	0	0	2	0	0	0	0	26
04:00	0	16	4	0	0	0	0	**2**	0	0	0	0	0	22
05:00	0	45	4	0	1	0	0	0	1	0	0	0	0	51
06:00	0	41	13	1	8	0	0	0	2	0	0	0	0	65
07:00	1	99	21	1	9	**2**	0	1	3	0	0	0	0	137
08:00	1	187	30	1	10	0	0	0	2	0	0	0	0	231
09:00	0	285	50	1	21	0	0	0	**7**	0	0	0	0	364
10:00	1	374	**90**	0	17	1	0	2	0	0	0	0	0	485
11:00	**4**	**416**	83	1	**24**	1	0	0	1	0	0	0	0	**530**
12 PM	6	**457**	89	3	**28**	0	**1**	0	3	0	0	0	0	**587**
13:00	**8**	405	**97**	1	19	1	0	**1**	0	0	0	0	0	532
14:00	0	409	81	2	16	0	0	0	2	0	0	0	0	510
15:00	2	432	79	1	13	**3**	0	0	**5**	0	0	0	0	535
16:00	4	408	73	1	16	1	1	0	4	0	0	0	0	508
17:00	5	364	73	**4**	17	1	0	0	0	0	0	0	**1**	465
18:00	2	275	35	4	8	0	0	1	1	0	0	0	0	326
19:00	0	165	33	0	9	0	0	0	1	0	0	0	0	208
20:00	1	114	20	0	8	0	0	1	1	0	0	0	0	145
21:00	0	74	20	0	3	2	0	1	1	0	0	0	0	101
22:00	0	57	8	0	3	0	0	0	0	0	0	0	0	68
23:00	0	56	15	0	0	1	0	0	1	0	0	0	0	73
Day Total	35	4787	937	23	236	13	2	10	38	0	0	0	1	6082
Percent	0.6%	78.7%	15.4%	0.4%	3.9%	0.2%	0.0%	0.2%	0.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	10:00	00:00	11:00	07:00		04:00	09:00					11:00
Vol.	4	416	90	2	24	2		2	7					530
PM Peak	13:00	12:00	13:00	17:00	12:00	15:00	12:00	13:00	15:00				17:00	12:00
Vol.	8	457	97	4	28	3	1	1	5				1	587

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/11/21	0	22	7	0	1	0	0	0	3	0	0	0	0	33
01:00	0	15	4	1	0	1	0	0	1	0	0	0	0	22
02:00	0	11	3	0	0	2	0	1	0	0	0	0	0	17
03:00	0	23	5	0	1	1	0	0	5	0	0	0	0	35
04:00	0	51	7	1	5	0	0	0	4	0	0	0	0	68
05:00	0	83	23	1	5	2	0	1	5	0	0	0	0	120
06:00	0	141	54	5	12	6	0	4	3	0	0	0	0	225
07:00	2	260	106	5	33	4	0	5	5	0	**1**	0	0	421
08:00	2	318	104	7	**41**	3	0	**7**	4	0	0	0	0	486
09:00	4	387	105	**12**	40	5	0	7	**6**	0	0	0	0	566
10:00	**8**	**434**	83	10	35	**7**	0	6	6	**1**	0	0	0	590
11:00	7	421	**129**	4	26	6	0	4	6	0	0	0	0	**603**
12 PM	8	**519**	107	**8**	**42**	4	**2**	1	**9**	0	0	0	0	**700**
13:00	7	443	111	6	28	4	0	4	6	0	0	0	0	609
14:00	**10**	493	113	2	26	**5**	0	**6**	2	0	0	0	0	657
15:00	7	483	94	4	32	3	2	6	6	0	0	0	0	637
16:00	8	442	**120**	6	30	1	0	6	2	0	0	0	0	615
17:00	7	477	85	3	28	1	0	2	2	0	0	0	0	605
18:00	5	378	94	1	11	4	1	1	2	0	0	0	0	497
19:00	3	246	55	3	9	0	0	0	0	0	0	0	0	316
20:00	1	166	23	3	13	1	0	1	0	0	0	0	0	208
21:00	0	108	12	0	2	0	0	4	0	0	0	0	0	126
22:00	0	88	13	0	5	2	1	0	2	0	0	0	0	111
23:00	1	56	10	0	5	1	0	0	1	0	0	0	0	74
Day Total	80	6065	1467	82	430	63	6	66	80	1	1	0	0	8341
Percent	1.0%	72.7%	17.6%	1.0%	5.2%	0.8%	0.1%	0.8%	1.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	10:00	11:00	09:00	08:00	10:00		08:00	09:00	10:00	07:00			11:00
Vol.	8	434	129	12	41	7		7	6	1	1			603
PM Peak	14:00	12:00	16:00	12:00	12:00	14:00	12:00	14:00	12:00					12:00
Vol.	10	519	120	8	42	5	2	6	9					700

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/12/21	1	31	8	0	3	1	0	0	3	0	0	0	0	47
01:00	0	24	2	1	1	3	0	0	1	0	0	0	0	32
02:00	0	18	5	1	2	1	0	0	5	0	0	0	0	32
03:00	0	25	4	0	3	0	0	1	4	0	0	0	0	37
04:00	0	81	13	4	1	1	0	0	9	0	0	0	0	109
05:00	3	169	38	3	12	3	0	2	2	0	0	0	0	232
06:00	2	269	87	10	24	3	0	5	4	**1**	0	0	0	405
07:00	7	416	**137**	8	44	**5**	**1**	2	5	0	0	0	0	**625**
08:00	4	**418**	104	**11**	46	5	0	6	6	0	0	0	0	600
09:00	4	406	116	11	**47**	3	1	**8**	**12**	0	0	0	0	608
10:00	7	398	121	8	36	3	0	8	11	0	0	0	0	592
11:00	**8**	393	96	7	34	2	1	7	5	1	0	0	0	554
12 PM	8	**503**	**136**	7	**48**	1	0	4	4	0	0	0	0	**711**
13:00	6	389	113	7	41	2	**2**	2	**7**	0	0	0	0	569
14:00	9	378	120	6	38	3	0	**7**	4	0	0	0	0	565
15:00	**14**	428	73	**9**	44	3	0	7	6	0	0	0	0	584
16:00	14	418	104	5	24	**5**	1	3	2	**1**	0	0	**1**	578
17:00	7	419	89	7	15	0	1	6	4	0	0	0	0	548
18:00	9	360	76	3	22	1	1	3	1	0	0	0	0	476
19:00	2	268	71	4	21	2	0	1	0	0	0	0	0	369
20:00	1	162	28	1	12	1	0	0	2	0	0	0	0	207
21:00	1	100	24	0	7	2	0	3	2	0	0	0	0	139
22:00	0	77	13	0	4	0	0	1	2	0	0	0	0	97
23:00	1	63	12	0	7	2	0	0	2	0	0	0	0	87
Day Total	108	6213	1590	113	536	52	8	76	103	3	0	0	1	8803
Percent	1.2%	70.6%	18.1%	1.3%	6.1%	0.6%	0.1%	0.9%	1.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	08:00	07:00	08:00	09:00	07:00	07:00	09:00	09:00	06:00				07:00
Vol.	8	418	137	11	47	5	1	8	12	1				625
PM Peak	15:00	12:00	12:00	15:00	12:00	16:00	13:00	14:00	13:00	16:00			16:00	12:00
Vol.	14	503	136	9	48	5	2	7	7	1			1	711

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/13/21	0	31	7	0	0	1	0	0	3	0	0	0	0	42
01:00	0	14	4	0	0	2	0	0	1	0	**1**	0	0	22
02:00	0	15	7	0	2	1	0	2	3	0	0	0	0	30
03:00	0	21	4	1	4	0	0	0	3	0	0	0	0	33
04:00	0	68	12	2	5	0	0	0	**13**	0	0	0	0	100
05:00	1	174	28	4	18	1	0	1	8	0	0	0	0	235
06:00	3	237	86	8	26	7	0	3	8	**1**	0	0	0	379
07:00	3	399	113	11	**58**	3	0	**11**	4	0	0	0	0	602
08:00	1	**416**	105	8	45	2	0	9	3	0	0	0	0	589
09:00	6	372	117	**16**	36	6	0	7	5	0	0	0	0	565
10:00	7	318	103	5	49	2	0	5	9	0	0	0	0	498
11:00	**8**	414	**125**	6	52	**8**	0	7	6	0	0	0	0	**626**
12 PM	**15**	384	**122**	6	47	**6**	0	**6**	**6**	0	0	0	0	**592**
13:00	8	**399**	100	**11**	**52**	2	0	5	6	0	0	**1**	0	584
14:00	2	147	35	1	9	0	**1**	0	2	0	0	0	0	197
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Day Total	54	3409	968	79	403	41	1	56	80	1	1	1	0	5094
Percent	1.1%	66.9%	19.0%	1.6%	7.9%	0.8%	0.0%	1.1%	1.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	08:00	11:00	09:00	07:00	11:00		07:00	04:00	06:00	01:00			11:00
Vol.	8	416	125	16	58	8		11	13	1	1			626
PM Peak	12:00	13:00	12:00	13:00	13:00	12:00	14:00	12:00	12:00			13:00		12:00
Vol.	15	399	122	11	52	6	1	6	6			1		592
Grand Total	707	42896	10122	538	2993	358	56	448	631	15	3	5	4	58776
Percent	1.2%	73.0%	17.2%	0.9%	5.1%	0.6%	0.1%	0.8%	1.1%	0.0%	0.0%	0.0%	0.0%	

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/06/21	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	4	395	89	5	29	7	0	3	5	0	0	0	0	537
14:00	**14**	386	90	6	26	6	0	6	**10**	0	0	0	0	544
15:00	8	464	**102**	6	30	**9**	1	**8**	9	0	0	0	0	637
16:00	10	**532**	101	2	**33**	4	**2**	5	4	0	0	0	0	**693**
17:00	12	472	98	**9**	25	7	0	5	1	0	0	**1**	0	630
18:00	7	368	61	3	18	7	1	7	5	0	0	0	0	477
19:00	1	338	53	1	14	0	0	4	2	0	0	0	**1**	414
20:00	2	234	36	6	10	3	0	3	4	0	0	0	0	298
21:00	1	125	22	0	5	0	0	0	0	0	0	0	0	153
22:00	3	86	11	1	2	4	0	0	4	0	0	0	0	111
23:00	3	64	5	0	0	3	0	1	1	0	0	0	0	77
Day Total	65	3464	668	39	192	50	4	42	45	0	0	1	1	4571
Percent	1.4%	75.8%	14.6%	0.9%	4.2%	1.1%	0.1%	0.9%	1.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak Vol.														
PM Peak Vol.	14:00 14	16:00 532	15:00 102	17:00 9	16:00 33	15:00 9	16:00 2	15:00 8	14:00 10			17:00 1	19:00 1	16:00 693

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/07/21	5	42	3	0	1	6	0	0	1	0	0	0	0	58
01:00	1	16	0	1	2	4	0	0	7	0	0	0	0	31
02:00	4	28	1	1	1	4	0	0	5	0	0	0	0	44
03:00	1	33	1	1	1	2	0	1	2	0	**1**	0	0	43
04:00	1	38	7	1	3	3	0	1	2	0	0	0	0	56
05:00	2	90	12	3	1	3	0	0	4	0	0	0	0	115
06:00	2	172	36	5	10	5	1	2	6	0	0	0	0	239
07:00	8	244	69	**10**	15	**11**	0	5	7	**1**	0	0	0	370
08:00	5	283	79	4	23	3	0	4	7	1	0	0	0	409
09:00	5	260	75	3	25	7	0	5	5	0	0	0	**1**	386
10:00	6	270	**95**	5	20	4	**2**	5	5	0	0	0	0	412
11:00	**11**	**353**	93	3	**29**	11	0	**8**	**11**	1	0	0	0	**520**
12 PM	4	384	100	6	17	**8**	**2**	3	4	0	0	0	0	528
13:00	5	425	93	3	26	8	0	8	6	0	0	0	0	574
14:00	6	477	98	**8**	22	3	0	6	2	0	0	0	0	622
15:00	15	438	106	4	29	5	1	6	**7**	0	0	0	0	611
16:00	**19**	462	108	3	**36**	6	1	3	5	0	0	0	0	643
17:00	9	**499**	**111**	5	25	6	0	4	5	0	0	0	0	**664**
18:00	6	413	70	3	16	6	0	**10**	3	0	0	0	0	527
19:00	3	329	56	5	19	3	0	2	3	0	0	**1**	0	421
20:00	3	272	30	3	9	2	0	2	0	0	0	0	0	321
21:00	0	147	27	0	8	0	0	0	4	0	0	0	0	186
22:00	0	107	13	1	3	0	0	0	2	0	0	0	0	126
23:00	4	69	10	0	1	4	0	2	4	0	0	0	0	94
Day Total	125	5851	1293	78	342	114	7	77	107	3	1	1	1	8000
Percent	1.6%	73.1%	16.2%	1.0%	4.3%	1.4%	0.1%	1.0%	1.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	10:00	07:00	11:00	07:00	10:00	11:00	11:00	07:00	03:00		09:00	11:00
Vol.	11	353	95	10	29	11	2	8	11	1	1		1	520
PM Peak	16:00	17:00	17:00	14:00	16:00	12:00	12:00	18:00	15:00			19:00		17:00
Vol.	19	499	111	8	36	8	2	10	7			1		664

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/08/21	3	43	1	0	1	2	0	0	2	0	0	0	0	52
01:00	7	22	2	0	3	9	0	1	4	0	0	0	0	48
02:00	6	28	3	1	1	5	0	0	3	0	0	0	0	47
03:00	1	33	2	0	1	1	0	0	2	0	0	0	0	40
04:00	1	48	4	1	2	2	0	1	1	0	0	0	0	60
05:00	1	96	18	2	2	2	0	1	5	0	0	0	0	127
06:00	4	178	25	7	5	7	0	4	2	0	0	0	0	232
07:00	4	249	48	7	14	8	0	3	5	0	0	0	0	338
08:00	9	263	72	6	24	6	**1**	**6**	**8**	0	0	0	0	395
09:00	**11**	269	71	6	24	**17**	1	2	1	0	0	0	0	402
10:00	9	334	98	**12**	**26**	11	0	3	4	**1**	0	0	0	498
11:00	9	**397**	**117**	6	22	11	0	5	3	0	0	0	0	**570**
12 PM	6	383	93	6	31	6	0	5	**8**	**1**	0	0	0	539
13:00	11	442	106	5	31	8	0	4	2	0	0	0	0	609
14:00	6	435	101	2	**33**	**9**	0	4	6	0	0	0	0	596
15:00	**12**	495	110	**8**	20	5	0	4	7	0	0	0	0	661
16:00	8	512	**121**	8	29	8	**2**	3	2	0	0	0	0	693
17:00	11	**548**	103	4	24	1	0	5	3	0	0	0	0	**699**
18:00	9	411	83	3	19	4	0	**8**	2	0	0	0	0	539
19:00	7	350	49	1	13	6	0	1	3	0	0	0	0	430
20:00	4	262	39	4	9	3	0	4	3	0	0	0	0	328
21:00	5	205	35	1	5	5	0	1	5	0	0	0	0	262
22:00	1	166	25	0	4	4	0	2	4	0	0	0	0	206
23:00	1	92	9	0	2	3	0	0	5	0	0	0	0	112
Day Total	146	6261	1335	90	345	143	4	67	90	2	0	0	0	8483
Percent	1.7%	73.8%	15.7%	1.1%	4.1%	1.7%	0.0%	0.8%	1.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	10:00	09:00	08:00	08:00	08:00	10:00				11:00
Vol.	11	397	117	12	26	17	1	6	8	1				570
PM Peak	15:00	17:00	16:00	15:00	14:00	14:00	16:00	18:00	12:00	12:00				17:00
Vol.	12	548	121	8	33	9	2	8	8	1				699

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/09/21	2	60	3	0	0	1	0	0	1	0	0	0	0	67
01:00	3	21	6	0	0	2	0	1	**5**	0	0	0	0	38
02:00	0	23	3	0	2	0	0	1	1	0	0	0	0	30
03:00	2	22	4	0	0	0	0	0	2	0	0	0	0	30
04:00	0	22	4	1	0	0	0	0	4	0	0	0	0	31
05:00	3	36	6	0	1	2	0	1	0	**1**	0	0	0	50
06:00	3	71	13	1	3	**5**	0	0	3	0	0	0	0	99
07:00	1	133	32	3	7	3	0	1	3	0	0	0	0	183
08:00	3	192	65	**5**	13	5	**1**	**3**	4	0	0	0	0	291
09:00	3	255	83	1	15	2	0	0	1	0	0	0	0	360
10:00	3	347	77	0	15	1	1	2	0	0	0	0	0	446
11:00	**5**	**417**	**88**	2	**19**	2	1	0	4	0	0	0	0	**538**
12 PM	**9**	416	**84**	**2**	**31**	3	0	2	3	0	0	0	0	**550**
13:00	6	408	82	1	18	4	0	2	4	0	0	0	0	525
14:00	3	408	71	1	11	4	**1**	1	2	0	0	0	0	502
15:00	4	**441**	66	2	17	**5**	0	1	2	0	0	0	0	538
16:00	8	379	65	2	15	4	0	1	2	0	0	0	0	476
17:00	5	377	55	0	12	4	0	**3**	2	0	0	0	0	458
18:00	1	318	46	2	6	1	0	1	**5**	0	0	0	0	380
19:00	0	250	36	0	5	0	0	1	2	0	0	0	0	294
20:00	4	200	22	2	7	3	0	0	2	0	0	0	0	240
21:00	1	126	16	0	3	1	0	0	4	0	0	0	0	151
22:00	2	127	15	0	4	1	0	1	1	0	0	0	0	151
23:00	1	58	4	0	1	1	0	0	1	0	0	0	0	66
Day Total	72	5107	946	25	205	54	4	22	58	1	0	0	0	6494
Percent	1.1%	78.6%	14.6%	0.4%	3.2%	0.8%	0.1%	0.3%	0.9%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	11:00	08:00	11:00	06:00	08:00	08:00	01:00	05:00				11:00
Vol.	5	417	88	5	19	5	1	3	5	1				538
PM Peak	12:00	15:00	12:00	12:00	12:00	15:00	14:00	17:00	18:00					12:00
Vol.	9	441	84	2	31	5	1	3	5					550

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/10/21	0	42	9	**2**	1	1	0	0	0	0	0	0	0	55
01:00	0	38	4	0	0	0	0	0	1	0	0	0	0	43
02:00	1	26	2	0	0	1	0	**1**	1	0	0	0	0	32
03:00	1	24	2	0	0	0	0	0	0	0	0	0	0	27
04:00	0	16	3	0	1	0	0	1	1	0	0	0	0	22
05:00	0	35	3	0	0	0	0	0	0	0	0	0	0	38
06:00	0	59	11	0	0	1	0	0	2	0	0	0	0	73
07:00	**2**	84	19	1	3	2	0	0	0	0	0	0	0	111
08:00	1	139	29	2	4	2	0	0	**3**	0	0	0	0	180
09:00	1	161	36	1	8	0	0	0	2	0	0	0	0	209
10:00	1	283	46	1	**12**	0	0	0	1	0	0	0	0	344
11:00	2	**324**	**73**	0	10	**3**	0	1	2	0	0	0	0	**415**
12 PM	4	323	65	0	**14**	1	0	0	4	0	0	0	0	411
13:00	7	381	**83**	1	11	2	0	0	1	**1**	0	0	0	487
14:00	3	**399**	71	**3**	14	2	0	0	1	0	0	0	0	**493**
15:00	**9**	322	54	1	13	3	0	**1**	1	0	0	0	0	404
16:00	3	366	51	1	14	3	0	1	3	1	0	0	0	443
17:00	2	303	42	1	4	0	0	0	2	0	0	0	0	354
18:00	1	284	33	1	5	0	0	0	2	0	0	0	0	326
19:00	2	207	28	1	2	0	0	0	0	0	0	0	0	240
20:00	1	143	15	1	6	**4**	0	0	1	0	0	0	0	171
21:00	1	100	16	0	1	0	0	1	**5**	0	0	0	0	124
22:00	1	70	7	0	1	2	0	0	1	0	0	0	0	82
23:00	3	39	4	1	2	3	0	0	2	0	0	0	0	54
Day Total	46	4168	706	18	126	30	0	6	36	2	0	0	0	5138
Percent	0.9%	81.1%	13.7%	0.4%	2.5%	0.6%	0.0%	0.1%	0.7%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	11:00	11:00	00:00	10:00	11:00		02:00	08:00					11:00
Vol.	2	324	73	2	12	3		1	3					415
PM Peak	15:00	14:00	13:00	14:00	12:00	20:00		15:00	21:00	13:00				14:00
Vol.	9	399	83	3	14	4		1	5	1				493

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/11/21	0	25	4	0	2	0	0	0	0	0	0	0	0	31
01:00	2	14	2	1	0	3	0	0	0	0	0	0	0	22
02:00	1	21	1	0	0	1	0	0	2	0	0	0	0	26
03:00	0	16	2	0	1	0	0	1	0	0	0	0	0	20
04:00	0	31	6	1	3	0	0	0	4	0	0	0	0	45
05:00	2	88	12	1	4	1	0	0	1	0	0	0	0	109
06:00	2	177	28	3	9	1	0	1	2	0	0	0	0	223
07:00	3	217	41	**5**	11	5	0	0	1	0	0	0	0	283
08:00	**7**	204	62	3	12	4	0	5	3	0	0	0	0	300
09:00	2	226	70	3	18	6	**1**	**7**	9	**1**	0	0	0	343
10:00	6	319	68	5	18	**9**	0	4	**11**	0	0	0	**1**	441
11:00	6	**380**	**76**	4	**26**	7	1	6	5	0	0	0	0	**511**
12 PM	6	416	94	3	17	**10**	0	6	3	**1**	0	0	0	556
13:00	**7**	418	85	5	27	6	0	3	2	0	0	0	0	553
14:00	7	426	82	5	16	4	0	5	2	0	0	0	0	547
15:00	7	444	85	3	**33**	5	0	3	3	0	0	0	0	583
16:00	2	435	90	6	25	8	0	6	**6**	0	0	0	0	578
17:00	7	**488**	**98**	**8**	25	4	0	**7**	4	0	0	0	0	**641**
18:00	2	401	61	4	12	3	0	0	4	0	0	0	0	487
19:00	2	274	48	3	11	3	0	6	2	0	0	0	0	349
20:00	3	197	32	3	5	1	0	2	1	0	0	0	0	244
21:00	2	123	19	0	3	1	0	0	0	0	0	0	0	148
22:00	1	89	8	2	1	0	0	1	4	0	0	0	0	106
23:00	3	46	12	0	4	3	0	1	3	0	0	0	0	72
Day Total	80	5475	1086	68	283	85	2	64	72	2	0	0	1	7218
Percent	1.1%	75.9%	15.0%	0.9%	3.9%	1.2%	0.0%	0.9%	1.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	11:00	11:00	07:00	11:00	10:00	09:00	09:00	10:00	09:00			10:00	11:00
Vol.	7	380	76	5	26	9	1	7	11	1			1	511
PM Peak	13:00	17:00	17:00	17:00	15:00	12:00		17:00	16:00	12:00				17:00
Vol.	7	488	98	8	33	10		7	6	1				641

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/12/21	1	27	5	0	1	1	0	0	4	0	0	0	0	39
01:00	2	23	0	0	1	5	0	0	5	0	0	0	0	36
02:00	2	27	2	1	1	3	0	1	3	0	0	0	0	40
03:00	0	32	5	1	2	2	0	0	1	0	0	0	0	43
04:00	2	41	6	2	2	2	0	0	1	0	0	0	0	56
05:00	1	89	20	3	2	2	0	0	5	0	0	0	0	122
06:00	2	171	34	**7**	15	3	0	0	2	0	0	0	0	234
07:00	1	229	51	7	18	4	0	1	2	0	0	0	0	313
08:00	8	247	62	6	22	6	**1**	1	4	0	0	0	0	357
09:00	6	235	76	6	20	5	0	**3**	2	0	0	0	0	353
10:00	7	325	**95**	6	**30**	5	0	2	7	0	0	0	0	477
11:00	**9**	**352**	88	7	24	**8**	0	1	**8**	0	0	0	0	**497**
12 PM	6	400	98	5	21	4	0	2	7	0	0	0	0	543
13:00	5	379	81	4	23	6	0	5	7	0	0	0	0	510
14:00	6	453	97	6	27	3	0	1	**8**	0	0	0	0	601
15:00	**11**	441	**108**	4	32	**11**	0	3	4	0	0	0	0	614
16:00	7	485	90	4	**33**	3	0	**6**	4	0	0	0	0	632
17:00	9	**491**	98	**7**	27	6	**2**	4	3	0	0	**1**	0	**648**
18:00	6	387	58	0	8	3	0	6	8	0	0	0	0	476
19:00	2	295	40	1	14	5	0	3	3	0	0	0	0	363
20:00	3	227	35	3	5	4	0	3	1	0	0	0	0	281
21:00	1	132	22	0	3	0	0	0	5	0	0	0	0	163
22:00	1	87	17	0	4	1	0	0	2	0	0	0	0	112
23:00	6	53	8	0	3	7	0	0	2	0	0	0	0	79
Day Total	104	5628	1196	80	338	99	3	42	98	0	0	1	0	7589
Percent	1.4%	74.2%	15.8%	1.1%	4.5%	1.3%	0.0%	0.6%	1.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	10:00	06:00	10:00	11:00	08:00	09:00	11:00					11:00
Vol.	9	352	95	7	30	8	1	3	8					497
PM Peak	15:00	17:00	15:00	17:00	16:00	15:00	17:00	16:00	14:00			17:00		17:00
Vol.	11	491	108	7	33	11	2	6	8			1		648

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/13/21	4	36	3	0	1	4	**1**	0	2	0	0	0	0	51
01:00	3	16	1	0	1	6	0	0	4	0	0	0	0	31
02:00	3	29	0	0	2	3	0	0	0	0	0	0	0	37
03:00	1	33	3	1	1	3	0	0	1	0	0	0	0	43
04:00	0	43	7	1	1	3	0	0	5	0	0	0	0	60
05:00	2	95	14	2	3	1	0	0	4	0	0	0	0	121
06:00	**6**	175	37	**8**	8	**9**	0	1	1	0	0	0	0	245
07:00	0	263	55	8	**24**	1	0	3	**8**	0	0	0	0	362
08:00	4	289	65	4	21	3	0	4	4	0	0	0	0	394
09:00	1	210	60	3	24	4	0	1	5	0	0	0	0	308
10:00	4	285	74	3	21	5	1	4	5	0	0	0	0	402
11:00	2	**323**	**91**	8	22	3	0	**5**	4	**1**	0	0	0	**459**
12 PM	**6**	290	70	2	20	**3**	0	2	5	0	0	0	0	398
13:00	2	**315**	**81**	**6**	**27**	1	0	**4**	**6**	0	0	0	0	**442**
14:00	1	129	29	0	7	1	0	3	4	0	0	0	0	174
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Day Total	39	2531	590	46	183	50	2	27	58	1	0	0	0	3527
Percent	1.1%	71.8%	16.7%	1.3%	5.2%	1.4%	0.1%	0.8%	1.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak	06:00	11:00	11:00	06:00	07:00	06:00	00:00	11:00	07:00	11:00				11:00
Vol.	6	323	91	8	24	9	1	5	8	1				459
PM Peak	12:00	13:00	13:00	13:00	13:00	12:00		13:00	13:00					13:00
Vol.	6	315	81	6	27	3		4	6					442
Grand Total	677	38485	7820	444	2014	625	26	347	564	11	1	3	3	51020
Percent	1.3%	75.4%	15.3%	0.9%	3.9%	1.2%	0.1%	0.7%	1.1%	0.0%	0.0%	0.0%	0.0%	

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	1 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 80	81 85	86 9999	Total
10/06/21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	46	9	33	109	147	135	87	26	7	0	0	0	0	0	1	600
14:00	41	6	11	59	175	171	70	38	6	0	0	0	0	0	0	577
15:00	86	28	38	82	170	146	55	7	1	0	0	0	0	0	0	613
16:00	72	18	40	106	152	133	84	15	3	0	0	0	0	0	0	623
17:00	83	16	26	51	134	175	102	39	6	3	1	0	0	0	0	636
18:00	19	4	6	36	80	158	112	51	5	4	1	0	0	0	0	476
19:00	12	0	2	10	38	80	87	58	17	1	1	1	0	0	0	307
20:00	8	0	0	5	16	43	68	46	18	4	1	0	0	0	0	209
21:00	2	0	0	1	15	35	46	36	8	3	0	0	0	0	0	146
22:00	2	0	0	3	7	15	35	40	18	3	1	0	0	0	0	124
23:00	0	0	0	1	2	26	27	23	6	3	0	1	0	0	0	89
Total	371	81	156	463	936	1117	773	379	95	21	5	2	0	0	1	4400

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/07/21	1	0	0	4	4	7	14	12	3	4	1	0	0	0	0	50
01:00	1	0	0	0	2	5	4	8	1	2	0	0	0	0	0	23
02:00	0	0	0	1	4	7	11	7	5	2	0	0	0	0	0	37
03:00	0	0	0	2	8	8	11	11	0	0	1	0	0	0	0	41
04:00	1	0	0	3	7	26	22	17	9	4	1	0	0	0	0	90
05:00	4	0	0	4	20	65	69	50	19	2	0	0	0	0	0	233
06:00	17	0	0	23	55	103	129	69	10	6	0	0	0	0	0	412
07:00	27	0	9	21	120	213	134	57	9	0	0	0	0	0	0	590
08:00	26	2	8	44	165	192	126	36	4	0	0	0	0	0	0	603
09:00	31	1	9	44	97	175	172	55	9	1	1	0	0	0	0	595
10:00	29	4	18	36	113	187	116	53	4	1	0	0	0	0	0	561
11:00	60	12	25	94	173	162	86	9	2	1	0	0	0	0	0	624
12 PM	48	14	47	123	146	166	84	19	1	0	0	0	0	0	0	648
13:00	48	5	36	68	172	135	99	23	4	3	0	0	0	0	0	593
14:00	43	0	8	29	103	181	146	43	5	0	1	0	0	0	0	559
15:00	75	27	55	70	117	146	98	26	0	0	1	0	0	0	0	615
16:00	126	31	40	57	123	128	75	15	4	0	0	0	0	0	0	599
17:00	55	4	15	53	143	199	118	42	7	2	0	0	0	0	0	638
18:00	31	2	0	24	98	138	129	52	5	1	0	0	0	0	0	480
19:00	13	0	0	14	55	107	101	44	15	6	0	0	0	0	0	355
20:00	5	1	0	3	20	57	64	48	15	4	4	1	1	0	0	223
21:00	3	0	0	1	8	39	58	42	17	5	1	0	1	0	0	175
22:00	3	0	0	1	8	35	44	32	12	3	1	0	0	0	0	139
23:00	3	0	0	2	3	11	26	17	5	4	1	0	0	0	0	72
Total	650	103	270	721	1764	2492	1936	787	165	51	13	1	2	0	0	8955

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/08/21	1	0	0	0	3	9	11	7	9	2	0	0	0	0	0	42
01:00	1	0	0	0	5	6	11	8	5	3	0	0	0	0	0	39
02:00	0	0	0	3	6	7	6	6	5	2	0	1	0	0	0	36
03:00	1	0	1	5	5	8	12	5	5	1	0	0	0	0	0	43
04:00	0	0	0	0	6	15	20	24	17	4	3	0	0	0	0	89
05:00	3	0	4	3	9	58	67	56	18	7	0	1	0	0	0	226
06:00	14	0	9	16	66	109	92	56	8	1	0	0	0	0	0	371
07:00	37	0	22	68	169	194	101	26	5	1	0	0	0	0	0	623
08:00	30	3	21	74	164	209	108	36	10	0	0	0	0	0	0	655
09:00	37	1	18	88	183	195	97	36	8	1	0	0	0	0	0	664
10:00	47	4	13	50	185	159	102	40	5	0	0	0	0	0	0	605
11:00	96	39	46	84	149	137	80	34	4	0	0	0	0	0	0	669
12 PM	67	30	32	83	175	177	95	19	2	1	0	0	0	0	0	681
13:00	67	3	4	51	127	215	95	22	9	1	0	0	0	0	0	594
14:00	50	11	37	76	135	181	101	31	8	0	0	0	0	0	0	630
15:00	93	34	29	74	166	166	68	13	1	1	0	0	0	0	0	645
16:00	70	10	16	62	140	184	98	36	4	1	0	0	0	0	0	621
17:00	50	6	7	64	134	185	128	55	10	0	0	0	0	0	0	639
18:00	36	1	1	15	104	176	115	54	5	2	0	0	0	0	0	509
19:00	16	0	2	24	58	126	89	60	14	2	1	0	0	0	0	392
20:00	10	0	0	3	23	63	69	61	25	0	1	0	0	0	0	255
21:00	5	0	0	2	27	57	49	37	20	1	1	0	0	0	0	199
22:00	8	0	0	4	11	36	33	31	19	4	2	0	0	0	0	148
23:00	0	0	0	6	12	20	46	25	10	3	0	0	0	0	0	122
Total	739	142	262	855	2062	2692	1693	778	226	38	8	2	0	0	0	9497

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/09/21	2	0	1	1	2	11	25	20	6	1	0	0	0	0	0	69
01:00	2	0	0	1	2	13	10	8	1	0	1	0	0	0	0	38
02:00	0	0	0	0	6	7	10	17	5	2	0	0	0	1	0	48
03:00	0	0	0	0	4	7	9	6	6	1	1	0	0	0	0	34
04:00	0	0	0	3	6	6	9	10	8	3	0	0	0	0	0	45
05:00	1	0	0	0	8	17	34	25	8	6	3	0	0	0	0	102
06:00	3	0	1	2	10	31	58	25	15	2	2	1	0	0	0	150
07:00	7	0	1	6	24	64	101	70	14	2	1	0	0	0	0	290
08:00	19	2	4	28	67	112	131	85	18	0	1	0	0	0	0	467
09:00	24	1	10	30	101	175	131	60	19	5	1	0	0	0	0	557
10:00	29	4	26	44	104	197	151	62	18	1	2	0	0	0	0	638
11:00	36	3	8	33	133	221	160	73	15	1	0	0	0	0	0	683
12 PM	35	0	6	22	131	181	152	83	13	0	0	0	0	0	0	623
13:00	33	0	2	18	78	147	166	79	7	0	0	0	0	0	0	530
14:00	40	1	8	53	110	132	146	52	10	3	0	0	0	0	0	555
15:00	45	0	0	11	80	187	156	68	18	4	0	0	0	0	0	569
16:00	31	0	0	19	95	157	155	67	11	0	0	0	0	0	0	535
17:00	33	1	6	45	90	175	133	49	12	2	1	0	1	0	0	548
18:00	13	0	3	30	79	129	124	52	16	4	0	0	0	0	0	450
19:00	7	0	0	1	19	66	86	72	23	3	2	0	0	0	0	279
20:00	5	0	0	0	10	25	59	60	17	6	0	2	0	0	0	184
21:00	1	0	0	0	11	25	50	37	19	5	3	1	0	0	0	152
22:00	3	0	0	0	5	20	41	34	11	3	1	0	0	0	0	118
23:00	0	0	2	0	3	19	31	25	7	2	0	1	0	0	0	90
Total	369	12	78	347	1178	2124	2128	1139	297	56	19	5	1	1	0	7754

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/10/21	0	0	0	0	3	7	17	10	5	4	0	0	0	0	0	46
01:00	2	0	0	0	2	9	10	11	9	2	1	0	0	0	0	46
02:00	0	0	1	0	2	6	4	6	1	1	0	0	0	0	0	21
03:00	0	0	0	1	3	2	7	10	3	0	0	0	0	0	0	26
04:00	1	0	0	0	2	4	4	6	3	2	0	0	0	0	0	22
05:00	1	0	0	4	4	9	13	8	9	3	0	0	0	0	0	51
06:00	1	1	2	1	2	16	14	17	3	6	0	2	0	0	0	65
07:00	3	0	0	0	11	21	41	44	13	2	1	1	0	0	0	137
08:00	6	0	0	2	14	55	79	62	11	4	0	0	0	0	0	233
09:00	10	2	4	6	40	101	124	61	11	3	2	0	0	0	0	364
10:00	18	0	1	15	50	115	175	95	19	0	0	0	0	0	0	488
11:00	35	1	4	15	58	150	163	81	22	3	1	0	0	0	0	533
12 PM	33	4	6	23	99	216	155	49	5	1	0	0	0	0	0	591
13:00	29	1	1	10	74	177	170	56	15	1	0	0	0	0	0	534
14:00	31	0	3	10	69	154	133	95	13	4	1	0	0	0	0	513
15:00	21	0	2	15	50	139	170	110	27	3	1	0	0	0	0	538
16:00	26	2	1	22	34	102	161	118	38	3	2	0	0	0	0	509
17:00	21	0	0	8	38	118	150	95	31	8	0	0	0	0	0	469
18:00	10	0	1	3	36	73	116	64	21	3	1	0	0	0	0	328
19:00	8	0	0	1	16	29	83	56	13	2	1	0	0	0	0	209
20:00	4	0	0	1	6	18	59	36	14	5	1	1	0	0	0	145
21:00	4	0	0	1	9	24	26	25	9	4	0	0	0	0	0	102
22:00	1	0	0	1	6	12	15	15	13	3	2	0	0	0	0	68
23:00	0	0	0	1	3	12	25	17	12	1	2	0	0	0	0	73
Total	265	11	26	140	631	1569	1914	1147	320	68	16	4	0	0	0	6111

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/11/21	0	0	0	0	1	5	8	13	5	1	0	0	0	0	0	33
01:00	0	0	1	1	0	7	5	3	5	0	0	0	0	0	0	22
02:00	0	0	0	0	1	4	5	4	1	2	0	0	0	0	0	17
03:00	0	0	0	2	4	9	6	7	5	2	0	0	0	0	0	35
04:00	0	0	0	2	4	2	24	20	13	2	1	0	0	0	0	68
05:00	0	0	2	8	8	28	28	27	12	6	1	0	0	0	0	120
06:00	6	0	0	2	15	47	68	60	27	2	0	0	0	0	0	227
07:00	14	0	0	12	56	128	127	61	22	2	0	0	0	0	0	422
08:00	18	2	1	28	76	142	136	70	12	3	0	0	0	0	0	488
09:00	25	4	29	58	104	171	102	57	15	2	1	0	0	0	0	568
10:00	43	3	5	77	134	174	114	38	3	1	0	0	0	0	0	592
11:00	44	14	19	43	117	174	144	39	9	1	0	0	0	0	0	604
12 PM	53	0	3	37	138	256	169	41	5	1	0	0	0	0	0	703
13:00	45	9	10	45	114	198	131	47	11	0	2	0	0	0	0	612
14:00	42	4	14	64	96	218	170	45	6	1	0	0	0	0	0	660
15:00	54	15	25	96	153	165	90	35	5	0	0	0	0	0	0	638
16:00	45	4	13	26	91	197	170	62	8	1	0	0	0	0	0	617
17:00	40	0	3	35	166	189	129	40	6	0	0	0	0	0	0	608
18:00	16	0	0	18	102	158	150	48	4	5	0	0	0	0	0	501
19:00	14	0	0	11	36	83	102	56	11	3	0	0	0	0	0	316
20:00	8	0	0	4	18	47	55	43	31	3	1	0	0	1	0	211
21:00	2	0	1	2	12	19	39	29	17	4	1	0	0	0	0	126
22:00	4	0	1	2	9	14	31	24	19	7	1	0	0	0	0	112
23:00	0	0	0	1	4	8	23	22	11	3	2	0	0	0	0	74
Total	473	55	127	574	1459	2443	2026	891	263	52	10	0	0	1	0	8374

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/12/21	2	0	0	0	5	10	12	14	3	2	0	0	0	0	0	48
01:00	0	0	0	0	3	6	9	6	4	3	0	0	1	0	0	32
02:00	4	0	0	2	3	4	10	5	4	0	0	1	0	0	0	33
03:00	0	0	0	1	3	11	10	7	2	3	0	0	0	0	0	37
04:00	5	0	0	3	15	18	30	28	6	0	4	0	0	0	0	109
05:00	2	0	0	1	25	58	72	53	14	7	0	0	0	0	0	232
06:00	13	0	6	18	86	139	96	40	9	0	0	0	0	0	0	407
07:00	28	0	1	31	112	201	158	76	19	2	0	0	0	0	0	628
08:00	30	4	18	53	156	162	122	42	9	5	2	0	0	0	0	603
09:00	42	11	25	70	136	171	96	45	14	2	0	0	0	0	0	612
10:00	33	2	10	41	106	168	159	60	15	0	0	0	0	0	0	594
11:00	70	8	14	66	116	152	97	32	1	0	0	0	0	0	0	556
12 PM	69	11	37	110	182	174	105	21	3	1	0	0	0	0	0	713
13:00	41	4	7	52	95	168	148	44	7	2	1	0	0	0	0	569
14:00	71	7	15	38	104	184	92	41	13	1	0	0	0	0	0	566
15:00	87	20	23	65	114	146	108	16	6	1	0	0	1	0	0	587
16:00	96	29	19	42	157	144	69	22	3	0	0	0	0	0	0	581
17:00	66	4	4	43	113	175	99	40	6	1	0	0	0	0	0	551
18:00	37	3	10	40	89	125	123	47	4	0	0	0	0	0	0	478
19:00	26	1	11	18	45	90	97	61	18	4	0	0	0	0	0	371
20:00	13	0	0	1	9	46	62	59	12	6	0	1	0	0	0	209
21:00	3	0	0	3	14	19	50	30	14	4	0	2	0	0	0	139
22:00	4	0	0	1	8	16	28	24	11	4	0	2	0	0	0	98
23:00	3	0	0	1	4	16	22	28	11	2	0	0	0	0	1	88
Total	745	104	200	700	1700	2403	1874	841	208	50	7	6	2	0	1	8841

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	1 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 80	81 85	86 9999	Total
10/13/21	2	0	0	1	4	5	14	9	7	0	0	0	0	0	0	42
01:00	0	0	0	0	4	3	4	5	5	0	1	0	0	0	0	22
02:00	0	0	0	1	3	5	7	9	3	2	0	0	0	0	0	30
03:00	0	0	0	0	2	4	5	8	6	8	0	0	0	0	0	33
04:00	1	0	0	2	10	10	25	23	18	6	4	1	0	0	0	100
05:00	11	0	0	2	14	46	83	52	20	6	2	1	0	0	0	237
06:00	22	0	1	14	46	101	115	63	11	5	1	0	0	0	0	379
07:00	40	2	18	48	102	153	168	63	7	2	0	0	0	0	0	603
08:00	64	0	7	44	101	199	118	45	15	0	0	0	0	0	0	593
09:00	56	3	9	50	102	172	113	50	11	1	0	0	0	0	0	567
10:00	77	4	10	39	88	131	109	38	4	0	0	0	0	0	0	500
11:00	73	13	26	82	145	172	91	23	4	1	0	0	0	0	0	630
12 PM	126	33	49	113	137	88	28	18	5	0	0	0	0	0	0	597
13:00	110	2	18	46	145	140	90	34	4	0	0	0	0	0	0	589
14:00	36	1	8	30	44	43	27	9	1	0	0	0	0	0	0	199
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	618	58	146	472	947	1272	997	449	121	31	8	2	0	0	0	5121
Grand Total	4230	566	1265	4272	10677	16112	13341	6411	1695	367	86	22	5	2	2	59053

Stats

15th Percentile :	33 MPH
50th Percentile :	42 MPH
85th Percentile :	49 MPH
95th Percentile :	54 MPH
Mean Speed(Average) :	41 MPH
10 MPH Pace Speed :	41-50 MPH
Number in Pace :	29453
Percent in Pace :	49.9%
Number of Vehicles > 45 MPH :	21931
Percent of Vehicles > 45 MPH :	37.1%

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	1 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 80	81 85	86 9999	Total
10/06/21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	36	2	12	53	150	174	85	24	3	0	0	0	0	0	0	539
14:00	33	0	19	77	197	128	81	9	3	0	0	0	0	0	0	547
15:00	50	9	47	131	201	139	49	11	3	0	0	0	0	0	0	640
16:00	56	5	32	132	215	184	56	14	0	0	0	0	0	0	0	694
17:00	55	4	24	46	219	187	76	15	2	1	1	0	0	0	1	631
18:00	15	0	10	39	116	171	95	30	4	0	0	0	0	0	0	480
19:00	12	1	10	35	90	139	93	31	4	0	0	0	0	0	0	415
20:00	4	0	3	13	61	110	81	21	4	2	0	0	0	0	0	299
21:00	1	0	0	1	21	51	44	25	6	2	1	1	0	0	0	153
22:00	0	0	2	6	21	35	30	15	1	1	0	0	0	0	0	111
23:00	1	0	0	9	19	17	22	7	2	0	0	0	0	0	0	77
Total	263	21	159	542	1310	1335	712	202	32	6	2	1	0	0	1	4586

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/07/21	1	0	3	5	13	9	14	8	5	0	0	0	0	0	0	58
01:00	0	0	0	1	3	9	8	6	3	1	0	0	0	0	0	31
02:00	0	0	3	4	9	15	8	3	1	1	0	0	0	0	0	44
03:00	0	0	1	5	9	11	8	8	1	0	0	0	0	0	0	43
04:00	0	0	2	5	4	24	14	3	3	1	0	0	0	0	0	56
05:00	4	0	0	1	14	37	32	23	4	1	0	0	0	0	0	116
06:00	11	1	0	13	51	60	71	31	4	0	0	0	0	0	0	242
07:00	20	0	9	42	69	107	81	34	8	1	1	1	0	0	0	373
08:00	21	1	5	35	88	140	86	31	4	0	0	0	0	0	0	411
09:00	26	9	3	16	86	130	89	22	7	0	1	0	0	0	0	389
10:00	20	0	3	36	89	127	100	33	7	0	0	0	0	0	0	415
11:00	46	7	15	89	142	153	60	9	1	0	0	0	0	0	0	522
12 PM	43	0	16	63	165	175	48	16	3	0	0	0	0	0	0	529
13:00	46	2	4	62	190	174	69	22	5	1	0	0	0	0	0	575
14:00	30	1	7	64	161	234	102	21	3	0	0	0	1	0	1	625
15:00	51	3	11	97	201	161	75	13	2	0	1	0	0	0	0	615
16:00	87	22	31	103	173	154	56	18	1	0	0	0	0	0	0	645
17:00	36	0	10	46	186	228	127	23	6	2	0	0	0	0	1	665
18:00	22	0	1	60	124	191	101	24	6	0	1	0	0	0	0	530
19:00	7	2	7	37	110	151	72	24	10	2	0	0	0	0	0	422
20:00	5	1	0	8	61	120	91	29	6	1	0	0	0	0	0	322
21:00	6	0	0	13	35	52	53	21	6	0	1	0	0	0	0	187
22:00	1	0	0	1	15	38	45	18	5	2	1	0	0	0	0	126
23:00	0	0	0	7	10	31	29	12	4	0	0	0	0	1	0	94
Total	483	49	131	813	2008	2531	1439	452	105	13	6	1	1	1	2	8035

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/08/21	1	0	0	2	12	11	12	9	4	1	0	0	0	0	0	52
01:00	0	2	0	6	6	16	14	4	0	0	0	0	0	0	0	48
02:00	0	0	0	3	10	12	10	7	2	3	0	0	0	0	0	47
03:00	0	0	0	3	12	17	4	3	1	0	0	0	0	0	0	40
04:00	0	3	0	5	6	20	14	9	3	0	0	0	0	0	0	60
05:00	4	0	0	3	15	45	36	19	5	0	1	0	0	0	0	128
06:00	9	0	2	14	47	72	68	19	3	1	0	0	0	0	0	235
07:00	27	2	9	36	75	99	64	21	6	1	0	0	0	0	0	340
08:00	20	9	12	33	100	130	65	20	7	1	0	0	0	0	0	397
09:00	31	1	15	36	86	128	72	29	6	1	0	0	0	0	0	405
10:00	24	6	27	70	127	146	75	24	1	0	0	0	0	0	0	500
11:00	53	7	30	75	166	159	54	22	5	0	1	0	0	0	0	572
12 PM	47	5	16	64	157	156	78	14	2	0	1	1	0	0	0	541
13:00	38	5	7	76	198	200	78	9	1	0	0	0	0	0	0	612
14:00	35	4	3	71	166	199	94	18	3	3	0	0	0	1	0	597
15:00	63	9	11	95	233	158	71	20	2	2	0	0	0	0	0	664
16:00	49	1	18	65	235	213	94	19	2	0	0	0	1	0	0	697
17:00	35	0	7	72	229	201	124	28	5	1	1	0	0	0	0	703
18:00	30	2	14	59	134	196	74	25	5	0	1	1	0	0	0	541
19:00	12	0	14	51	91	155	77	24	3	2	0	0	0	0	2	431
20:00	8	0	0	15	49	131	90	29	5	1	0	0	0	0	0	328
21:00	5	1	7	10	47	98	64	23	7	0	1	0	0	0	0	263
22:00	1	0	0	6	31	68	66	25	9	0	0	0	0	0	0	206
23:00	0	0	0	3	15	30	36	18	6	2	2	0	0	0	0	112
Total	492	57	192	873	2247	2660	1434	438	93	19	8	2	1	1	2	8519

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/09/21	2	0	0	3	10	15	20	9	4	2	2	0	0	0	0	67
01:00	1	0	0	0	8	10	14	3	2	0	0	0	0	0	0	38
02:00	0	0	0	0	3	11	9	3	3	1	0	0	0	0	0	30
03:00	0	0	0	1	5	6	8	4	5	1	0	0	0	0	0	30
04:00	0	0	0	2	3	5	12	7	0	2	0	0	0	0	0	31
05:00	0	0	3	4	5	18	6	9	4	0	1	0	0	0	0	50
06:00	0	2	5	4	10	25	33	7	9	4	0	0	0	0	0	99
07:00	2	0	2	5	26	62	50	25	7	2	2	0	0	0	0	183
08:00	16	1	14	15	52	88	76	23	3	4	0	0	0	0	0	292
09:00	25	0	8	25	64	121	80	36	3	0	0	0	0	0	0	362
10:00	29	0	4	14	83	144	140	28	6	1	0	0	0	0	0	449
11:00	27	3	12	14	141	191	117	31	4	0	1	0	0	0	0	541
12 PM	25	8	14	31	104	190	128	42	5	2	0	0	0	0	1	550
13:00	24	0	1	44	103	188	127	28	8	1	3	1	0	0	0	528
14:00	22	0	9	15	85	197	129	42	4	2	0	0	0	0	0	505
15:00	26	0	3	33	118	199	114	39	7	1	0	0	0	0	0	540
16:00	31	0	1	33	119	169	84	33	6	1	0	1	0	0	0	478
17:00	23	4	8	19	81	174	111	31	5	1	2	0	0	0	0	459
18:00	13	0	0	6	92	129	104	28	10	0	0	0	0	0	0	382
19:00	5	0	0	4	40	114	89	33	7	2	1	0	0	0	0	295
20:00	4	0	1	1	44	73	80	34	3	0	0	0	0	0	0	240
21:00	1	0	0	1	23	52	49	20	2	2	1	0	0	0	0	151
22:00	3	0	0	0	12	42	59	30	5	0	1	0	0	0	0	152
23:00	0	0	0	1	10	14	25	11	4	1	0	0	0	0	0	66
Total	279	18	85	275	1241	2237	1664	556	116	30	14	2	0	0	1	6518

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/10/21	0	0	0	1	13	16	13	7	1	3	1	0	0	0	0	55
01:00	1	0	0	0	7	5	21	6	3	0	0	0	0	0	0	43
02:00	0	0	0	1	5	8	9	6	3	0	0	0	0	0	0	32
03:00	0	1	0	0	0	8	8	3	5	1	1	0	0	0	0	27
04:00	0	0	0	0	3	7	9	0	1	0	0	1	0	1	0	22
05:00	1	0	0	1	5	13	10	5	3	0	0	0	0	0	0	38
06:00	0	0	0	1	7	15	20	18	9	2	1	0	0	0	0	73
07:00	3	0	0	0	6	33	39	19	6	3	0	3	0	0	0	112
08:00	5	0	0	0	15	35	86	31	7	3	0	0	0	0	0	182
09:00	4	0	0	1	19	60	81	38	8	0	0	0	0	0	0	211
10:00	12	0	0	3	43	121	106	50	10	0	0	0	0	0	0	345
11:00	22	1	1	14	57	147	116	51	9	0	0	0	0	0	0	418
12 PM	22	0	1	6	62	155	117	37	11	2	0	1	0	0	0	414
13:00	24	1	0	23	62	181	154	37	7	0	1	0	0	0	0	490
14:00	13	0	3	26	75	189	146	36	9	0	0	0	0	0	0	497
15:00	9	0	6	20	51	157	117	38	7	1	0	0	0	0	0	406
16:00	23	0	0	14	84	176	111	29	7	1	0	0	0	0	0	445
17:00	16	0	0	3	46	147	91	43	7	1	0	0	0	1	0	355
18:00	8	0	3	2	54	119	105	29	5	3	0	0	1	0	0	329
19:00	5	0	0	5	28	86	82	28	6	1	1	0	0	0	0	242
20:00	2	0	0	5	16	55	48	31	11	3	0	0	0	0	0	171
21:00	3	0	0	0	7	37	47	27	2	1	0	0	0	0	0	124
22:00	1	0	1	1	10	9	32	22	5	0	0	0	1	0	0	82
23:00	0	0	0	1	6	24	12	9	1	1	0	0	0	0	0	54
Total	174	3	15	128	681	1803	1580	600	143	26	5	5	2	2	0	5167

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	21	26	31	36	41	46	51	56	61	66	71	76	81	86	
Time	20	25	30	35	40	45	50	55	60	65	70	75	80	85	9999	Total
10/11/21	0	0	0	0	3	5	13	7	0	3	0	0	0	0	0	31
01:00	1	0	2	1	6	3	4	2	1	0	2	0	0	0	0	22
02:00	0	0	1	0	3	5	10	3	3	1	0	0	0	0	0	26
03:00	1	0	0	0	3	5	4	7	0	0	0	0	0	0	0	20
04:00	0	0	0	2	6	12	14	10	1	0	0	0	0	0	0	45
05:00	0	0	1	0	17	29	31	23	7	1	0	0	0	0	0	109
06:00	4	0	0	8	19	78	72	36	3	2	2	0	0	0	0	224
07:00	10	0	7	4	40	79	91	36	13	2	2	0	0	0	1	285
08:00	11	0	2	10	39	107	94	33	5	0	0	0	0	0	0	301
09:00	20	0	7	31	48	122	83	25	7	1	0	0	0	0	1	345
10:00	21	0	9	29	95	163	93	27	5	1	0	0	1	0	0	444
11:00	31	1	9	38	108	152	128	36	9	1	0	0	0	0	0	513
12 PM	39	1	10	17	125	174	149	35	7	2	0	0	0	0	0	559
13:00	26	3	15	58	111	187	101	39	12	2	0	0	0	0	0	554
14:00	30	0	12	45	120	201	106	25	5	3	1	1	0	0	0	549
15:00	34	0	0	34	143	220	112	32	9	0	0	0	1	0	0	585
16:00	32	2	10	50	141	164	131	35	12	2	0	0	1	0	0	580
17:00	30	4	12	47	175	217	125	25	7	2	0	0	0	0	0	644
18:00	18	0	5	38	98	173	116	31	5	2	0	2	0	0	0	488
19:00	6	0	0	13	60	130	99	32	10	0	0	0	0	0	0	350
20:00	7	0	0	3	33	94	80	20	7	1	0	0	1	0	0	246
21:00	2	0	1	0	11	42	53	32	6	1	0	0	0	0	0	148
22:00	3	0	0	0	14	29	39	18	2	0	1	1	0	0	0	107
23:00	0	0	0	2	11	15	21	15	4	4	0	0	0	0	0	72
Total	326	11	103	430	1429	2406	1769	584	140	31	8	4	4	0	2	7247

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	1 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 80	81 85	86 9999	Total
10/12/21	0	0	2	1	8	13	7	3	4	1	0	0	0	0	0	39
01:00	0	0	1	0	7	10	9	5	3	0	1	0	0	0	0	36
02:00	0	0	1	5	7	11	12	2	1	1	0	0	0	0	0	40
03:00	0	0	0	1	8	13	7	12	1	1	0	0	0	0	0	43
04:00	5	1	2	2	7	13	13	9	5	1	0	0	0	0	0	58
05:00	1	0	2	0	20	37	33	21	7	1	0	0	0	0	0	122
06:00	8	0	1	15	46	95	43	21	2	3	0	1	0	0	0	235
07:00	13	0	4	6	47	101	92	41	7	3	0	0	0	0	0	314
08:00	18	2	7	21	84	103	84	34	5	0	0	0	0	0	0	358
09:00	21	1	8	20	78	114	84	28	2	0	0	0	0	0	0	356
10:00	31	4	8	35	107	178	92	19	3	0	1	0	0	0	0	478
11:00	27	1	9	35	167	154	76	24	6	1	0	0	0	0	0	500
12 PM	35	0	22	60	166	182	58	18	6	0	0	0	0	0	0	547
13:00	15	1	2	26	129	184	119	30	6	0	0	0	0	0	0	512
14:00	35	6	7	75	143	193	109	30	5	2	0	0	0	0	0	605
15:00	43	3	14	84	200	164	81	21	5	1	1	0	0	0	0	617
16:00	51	19	27	67	213	156	76	22	2	0	0	0	0	0	0	633
17:00	37	9	26	98	208	178	81	12	0	1	0	0	0	0	0	650
18:00	26	0	7	43	114	162	95	24	6	2	0	0	0	0	0	479
19:00	13	4	6	29	84	129	72	24	3	1	0	0	0	0	0	365
20:00	6	0	1	14	40	105	76	30	8	1	0	0	0	0	0	281
21:00	4	0	0	5	19	54	51	23	6	2	0	0	0	0	0	164
22:00	4	0	1	2	17	29	31	19	6	1	0	2	0	0	0	112
23:00	4	4	0	4	18	20	16	9	3	1	0	0	0	0	0	79
Total	397	55	158	648	1937	2398	1417	481	102	24	3	3	0	0	0	7623

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPORATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	1 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 80	81 85	86 9999	Total
10/13/21	2	2	0	5	10	15	6	5	5	1	0	0	0	0	0	51
01:00	1	0	2	0	9	6	8	3	2	0	0	0	0	0	0	31
02:00	0	0	0	4	5	9	9	8	0	1	0	1	0	0	0	37
03:00	0	0	0	2	6	13	12	5	5	0	0	0	0	0	0	43
04:00	0	1	0	4	10	17	20	5	1	2	0	0	0	0	0	60
05:00	5	0	0	1	15	38	38	18	4	4	0	0	0	0	0	123
06:00	10	0	2	25	36	63	78	23	9	1	0	0	0	0	0	247
07:00	34	0	2	27	80	108	77	29	6	1	0	0	0	0	0	364
08:00	27	3	3	30	96	112	91	27	8	0	0	0	0	0	0	397
09:00	15	0	11	19	66	110	70	19	1	0	0	0	0	0	0	311
10:00	32	2	10	51	86	137	66	16	2	1	1	0	0	0	0	404
11:00	49	0	2	68	103	149	73	15	2	0	1	0	0	0	0	462
12 PM	72	1	7	56	95	108	43	17	2	0	0	0	0	0	0	401
13:00	65	4	0	28	105	161	67	11	2	1	1	0	0	0	0	445
14:00	34	1	2	23	63	36	14	2	1	0	0	0	0	0	0	176
15:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	349	14	41	343	785	1082	672	203	50	12	3	1	0	0	0	3555
Grand Total	2763	228	884	4052	11638	16452	10687	3516	781	161	49	19	8	4	8	51250

Stats

15th Percentile :	34 MPH
50th Percentile :	41 MPH
85th Percentile :	48 MPH
95th Percentile :	52 MPH
Mean Speed(Average) :	41 MPH
10 MPH Pace Speed :	36-45 MPH
Number in Pace :	28090
Percent in Pace :	54.8%
Number of Vehicles > 45 MPH :	15233
Percent of Vehicles > 45 MPH :	29.7%

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24	25 26	27 999
10/06/21	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	280	116	51	34	24	20	17	13	10	3	4	6	3	19
14:00	267	120	45	30	18	20	15	5	12	11	9	1	6	18
15:00	285	133	50	30	19	26	11	7	7	7	6	6	4	22
16:00	319	115	48	25	29	15	16	11	8	4	3	3	4	23
17:00	299	126	60	27	25	27	16	17	8	2	9	4	4	12
18:00	180	91	51	26	22	16	21	9	10	10	9	7	5	19
19:00	79	54	26	28	8	12	15	9	6	8	3	6	11	42
20:00	44	26	19	13	6	5	7	10	6	7	8	2	3	53
21:00	21	12	7	7	9	7	3	3	6	1	2	11	3	54
22:00	16	13	8	4	6	2	4	6	2	5	7	4	4	43
23:00	8	6	4	2	0	6	1	3	3	2	7	0	2	45
Total	1798	812	369	226	166	156	126	93	78	60	67	50	49	350

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/07/21	3	1	2	1	2	0	1	1	1	3	2	0	0	33
01:00	0	1	0	1	1	0	0	0	0	0	0	0	1	19
02:00	3	1	0	2	0	0	1	1	1	2	0	0	0	26
03:00	3	1	1	1	3	1	0	0	1	0	0	0	0	30
04:00	13	1	4	5	2	3	0	3	5	3	4	2	2	43
05:00	71	28	24	15	7	8	6	6	5	6	3	3	7	44
06:00	158	80	24	21	20	19	15	7	7	7	4	9	2	39
07:00	273	133	41	29	21	11	17	9	8	12	8	3	2	23
08:00	293	117	45	33	28	17	11	5	9	8	6	3	4	24
09:00	269	124	58	26	34	17	19	6	5	3	3	5	2	24
10:00	265	115	33	33	18	14	18	6	9	7	8	7	4	24
11:00	312	125	44	30	18	20	18	15	6	4	4	6	5	17
12 PM	319	131	50	29	30	21	13	12	4	7	4	7	5	16
13:00	298	122	36	25	15	16	10	11	15	10	6	1	4	24
14:00	227	126	52	34	16	22	14	12	12	9	8	3	6	18
15:00	274	150	51	37	18	13	13	12	8	9	6	4	3	17
16:00	297	136	27	26	18	18	13	14	7	5	6	5	2	25
17:00	289	144	53	24	34	21	15	12	14	6	5	2	4	15
18:00	190	94	34	30	24	22	17	4	14	9	9	3	5	25
19:00	114	52	34	19	19	17	16	13	11	5	8	8	4	35
20:00	53	27	14	10	13	11	11	10	9	7	5	6	4	43
21:00	30	21	11	12	6	9	4	6	8	6	3	6	5	48
22:00	23	11	11	7	8	0	4	10	2	2	2	3	2	54
23:00	7	6	1	0	3	2	1	1	2	0	2	2	2	43
Total	3784	1747	650	450	358	282	237	176	163	130	106	88	75	709

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/08/21	3	0	1	1	1	1	0	2	0	1	2	0	1	29
01:00	0	2	0	0	0	2	1	0	0	1	1	1	0	31
02:00	2	1	1	0	0	2	0	1	0	0	1	0	0	28
03:00	3	1	2	1	1	3	1	0	0	1	1	1	1	27
04:00	7	5	2	2	5	4	4	1	1	3	1	4	4	46
05:00	54	42	16	13	8	9	8	10	5	4	5	0	5	47
06:00	124	75	34	16	18	17	7	15	3	8	2	5	8	39
07:00	306	136	44	40	13	10	12	7	11	5	7	5	2	25
08:00	327	147	50	30	16	22	16	5	4	2	6	4	5	21
09:00	348	139	45	27	19	12	16	6	11	3	5	8	1	24
10:00	298	119	53	23	19	14	14	8	6	13	10	4	2	22
11:00	345	131	50	31	23	18	17	5	8	10	7	2	4	18
12 PM	338	143	50	31	22	31	15	10	10	5	5	5	1	15
13:00	287	110	50	35	18	18	16	6	9	9	10	1	2	23
14:00	309	133	46	28	20	22	8	15	4	14	8	6	1	16
15:00	311	144	47	36	16	17	12	9	8	5	8	5	4	23
16:00	303	135	50	22	24	16	12	14	7	4	2	3	4	25
17:00	315	127	47	28	24	21	17	11	11	8	6	3	3	18
18:00	202	114	45	27	24	12	22	10	10	8	4	4	4	23
19:00	134	71	32	26	20	12	19	15	9	5	7	9	0	33
20:00	70	34	17	17	9	15	11	5	11	8	7	3	1	47
21:00	46	21	11	6	11	8	5	5	8	6	9	5	9	49
22:00	20	17	9	10	4	4	4	6	3	3	5	6	3	54
23:00	20	8	9	7	3	3	5	2	2	2	5	1	4	51
Total	4172	1855	711	457	318	293	242	168	141	128	124	85	69	734

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/09/21	5	3	2	1	1	1	1	3	3	2	2	3	1	41
01:00	2	1	0	1	1	1	0	1	0	1	0	0	0	30
02:00	2	0	0	2	2	1	1	1	0	0	1	2	2	34
03:00	3	0	1	1	3	0	0	1	0	1	1	0	0	23
04:00	1	1	2	0	3	2	1	1	0	0	1	2	1	30
05:00	12	5	6	3	5	7	3	4	5	1	3	1	3	44
06:00	19	8	7	10	7	8	2	3	6	12	5	7	4	52
07:00	80	39	32	20	13	14	6	9	11	4	6	5	9	42
08:00	198	75	39	25	24	22	9	19	12	9	6	5	0	24
09:00	267	105	41	28	21	20	13	11	7	5	3	4	3	29
10:00	304	126	55	34	28	24	17	7	6	7	2	4	3	21
11:00	354	131	54	32	25	18	15	13	9	2	5	2	4	19
12 PM	301	139	46	20	20	19	20	9	6	3	10	8	3	19
13:00	246	108	41	28	15	13	10	11	9	5	5	5	5	29
14:00	249	99	49	33	23	17	16	9	9	13	4	8	3	23
15:00	253	103	49	36	23	26	12	12	12	16	5	4	2	16
16:00	198	130	46	30	32	21	14	13	15	3	6	2	4	21
17:00	233	116	47	36	25	20	13	5	6	5	9	6	6	21
18:00	173	88	37	23	19	21	14	13	6	7	3	8	7	31
19:00	69	30	20	20	29	17	13	6	11	6	14	7	5	32
20:00	27	27	12	14	8	8	7	5	8	8	2	3	4	51
21:00	25	15	12	9	5	6	6	5	2	2	7	5	2	51
22:00	18	9	8	6	1	3	6	6	9	3	2	2	2	43
23:00	12	6	3	5	2	2	3	0	8	0	1	1	1	46
Total	3051	1364	609	417	335	291	202	167	160	115	103	94	74	772

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/10/21	0	2	1	1	4	0	0	1	1	2	1	0	0	33
01:00	7	0	1	1	1	1	0	0	1	1	2	1	0	30
02:00	0	1	0	0	0	1	0	0	1	0	0	0	0	18
03:00	2	1	2	1	0	0	1	0	0	0	0	0	0	19
04:00	2	0	1	0	1	0	0	0	0	0	0	0	0	18
05:00	5	3	2	1	1	2	2	2	0	1	1	1	1	29
06:00	2	5	1	2	2	1	2	1	0	3	0	3	0	43
07:00	20	12	7	7	5	5	5	7	7	1	3	7	2	49
08:00	71	24	14	11	10	16	7	8	6	5	6	2	6	47
09:00	140	72	30	25	10	10	9	6	5	9	4	8	1	35
10:00	213	90	37	32	12	24	11	6	14	5	8	4	4	28
11:00	219	109	55	32	22	16	13	10	10	6	6	8	7	20
12 PM	276	119	59	38	13	14	8	13	10	5	1	4	8	23
13:00	228	103	55	27	17	15	23	9	11	7	8	6	5	20
14:00	194	109	56	25	28	16	17	7	10	12	7	5	6	21
15:00	211	106	55	41	30	17	13	10	14	7	4	3	4	23
16:00	195	105	45	35	25	16	17	11	14	10	6	7	2	21
17:00	164	93	46	31	28	22	17	9	9	9	7	4	6	24
18:00	111	47	26	22	19	21	8	4	10	5	3	7	9	36
19:00	40	31	13	12	11	9	7	8	8	9	8	5	2	46
20:00	19	19	10	11	4	3	5	5	4	5	2	4	2	52
21:00	10	7	5	1	4	4	5	3	2	2	2	4	4	49
22:00	3	5	1	1	1	3	1	1	3	2	1	1	1	44
23:00	2	3	4	3	2	1	2	3	2	1	3	3	2	42
Total	2134	1066	526	360	250	217	173	124	142	107	83	87	72	770

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/11/21	2	1	0	0	1	1	1	0	0	0	1	1	1	24
01:00	0	0	1	0	1	0	0	0	0	0	1	0	0	19
02:00	0	0	0	0	0	0	0	0	1	0	0	0	0	16
03:00	1	1	1	2	0	0	1	0	1	0	0	1	4	23
04:00	6	3	3	4	4	2	2	1	0	2	0	1	1	39
05:00	24	15	7	3	2	0	4	5	3	3	1	3	2	48
06:00	48	36	17	13	14	11	7	12	6	7	5	2	1	48
07:00	173	57	26	35	20	16	11	14	11	13	4	8	3	31
08:00	219	94	42	29	12	12	12	7	11	9	4	4	4	29
09:00	291	98	43	28	16	16	9	13	6	9	2	3	3	31
10:00	287	113	46	24	18	23	21	15	15	6	4	1	1	18
11:00	290	113	51	20	25	28	20	10	6	9	10	2	1	19
12 PM	347	149	53	45	27	20	14	11	9	6	5	3	1	13
13:00	280	138	49	19	27	16	18	14	11	12	5	5	2	16
14:00	333	131	53	30	23	18	12	10	10	7	6	5	6	16
15:00	357	101	43	24	20	14	10	14	8	8	4	8	6	21
16:00	287	142	48	22	23	19	13	14	9	7	8	4	2	19
17:00	288	119	44	37	25	20	16	9	4	10	5	4	7	20
18:00	191	113	48	32	20	15	11	12	8	7	9	6	4	25
19:00	100	52	34	16	9	11	12	6	6	3	13	7	5	42
20:00	44	25	20	12	12	13	2	6	9	2	6	5	5	50
21:00	17	10	14	2	8	4	3	6	3	2	1	2	4	50
22:00	12	10	3	4	6	3	4	4	5	4	6	5	1	45
23:00	3	5	2	2	3	3	1	0	3	1	1	2	3	45
Total	3600	1526	648	403	316	265	204	183	145	127	101	82	67	707

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/12/21	3	2	2	3	0	2	0	0	0	0	0	0	1	35
01:00	1	0	2	0	0	0	0	0	0	0	0	0	0	29
02:00	1	1	2	1	0	0	1	0	0	0	0	0	0	27
03:00	0	1	1	0	0	2	0	0	0	2	1	0	1	29
04:00	14	9	6	4	5	4	5	1	4	4	4	0	5	44
05:00	55	38	20	13	9	7	9	5	6	7	7	5	4	47
06:00	143	77	42	23	22	11	8	16	10	9	5	5	4	32
07:00	280	122	62	44	20	22	18	12	9	14	5	4	3	13
08:00	288	125	51	34	19	10	10	8	7	7	7	9	8	20
09:00	281	136	59	28	19	14	16	10	11	5	5	2	3	23
10:00	278	132	43	26	21	13	13	11	10	7	8	8	5	19
11:00	250	118	47	24	25	15	11	8	8	6	9	5	9	21
12 PM	371	152	49	28	27	21	7	14	4	9	8	5	1	17
13:00	268	108	45	29	27	15	11	10	12	5	10	2	1	26
14:00	248	123	47	31	18	17	20	10	13	3	6	4	7	19
15:00	258	131	52	38	20	12	16	10	9	7	3	5	3	23
16:00	272	128	47	17	20	13	12	13	16	6	9	0	4	24
17:00	244	103	59	25	25	20	12	15	6	5	4	9	5	19
18:00	205	99	27	30	20	16	9	13	12	6	6	4	6	25
19:00	139	59	28	26	16	13	11	12	9	7	12	5	6	28
20:00	34	28	19	17	10	9	8	9	7	11	4	5	3	45
21:00	20	4	8	6	7	5	8	3	1	3	7	4	5	58
22:00	9	6	5	4	4	3	3	4	4	1	1	1	1	52
23:00	9	7	2	4	1	2	1	4	2	2	0	1	1	52
Total	3671	1709	725	455	335	246	209	188	160	126	121	83	86	727

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

EB

Start Time	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24	25 26	27 999
10/13/21	2	2	0	0	2	0	0	0	0	0	2	1	2	31
01:00	1	0	1	0	1	0	0	1	0	0	0	0	0	18
02:00	1	1	0	1	0	0	1	0	1	0	0	2	1	22
03:00	2	1	0	1	0	0	0	1	0	0	0	1	0	27
04:00	8	7	7	5	5	2	3	4	0	5	5	2	3	44
05:00	60	42	19	11	10	7	8	9	7	4	7	4	6	43
06:00	135	69	39	20	10	15	10	7	9	6	6	8	7	38
07:00	294	117	46	35	23	12	8	13	3	5	13	5	7	22
08:00	287	119	41	26	22	13	14	15	12	14	2	3	1	24
09:00	258	123	52	31	11	16	12	7	14	5	4	9	4	21
10:00	214	104	49	21	18	16	14	5	7	7	5	4	5	31
11:00	299	133	58	31	27	17	12	12	5	7	4	2	3	20
12 PM	300	127	40	29	18	16	13	6	8	3	3	4	4	26
13:00	286	128	47	21	26	15	11	9	5	8	6	1	1	25
14:00	89	42	14	6	11	3	6	4	5	2	2	5	0	10
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	2236	1015	413	238	184	132	112	93	76	66	59	51	44	402
Grand Total	24446	11094	4651	3006	2262	1882	1505	1192	1065	859	764	620	536	5171

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/06/21	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	251	102	44	35	22	13	10	8	3	4	8	4	1	34
14:00	267	97	51	28	8	16	13	9	7	6	2	14	7	22
15:00	326	131	51	19	24	13	12	14	5	7	7	7	6	18
16:00	372	143	49	23	17	15	16	13	5	7	3	2	3	26
17:00	341	125	59	21	12	6	10	7	3	3	2	6	5	31
18:00	209	92	46	24	18	14	14	4	4	6	9	7	5	28
19:00	165	79	38	19	16	17	8	12	5	7	2	5	4	38
20:00	93	47	27	20	17	13	10	9	7	4	4	4	4	40
21:00	27	19	7	9	6	10	6	4	3	6	7	3	1	45
22:00	18	5	8	4	3	4	4	2	2	2	4	1	1	53
23:00	8	2	3	1	2	4	3	2	0	1	2	3	3	43
Total	2077	842	383	203	145	125	106	84	44	53	50	56	40	378

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/07/21	5	4	1	1	0	2	3	1	2	0	0	2	0	37
01:00	1	0	0	0	0	1	0	0	1	2	0	1	0	25
02:00	5	3	1	2	1	0	1	0	1	3	1	0	0	26
03:00	3	0	0	1	1	1	0	1	0	1	2	0	0	33
04:00	4	0	2	2	1	4	0	2	0	1	0	1	1	38
05:00	17	9	12	4	7	1	8	4	4	2	4	2	4	38
06:00	76	36	15	14	12	11	13	4	2	10	1	3	1	44
07:00	133	59	44	23	10	13	14	7	8	13	4	7	3	35
08:00	164	75	32	23	28	13	8	8	5	10	4	1	5	35
09:00	142	80	45	20	19	9	8	6	8	8	2	2	4	36
10:00	179	67	27	24	20	14	8	12	7	9	4	6	4	34
11:00	236	114	50	16	18	12	12	5	5	5	10	4	6	29
12 PM	231	108	43	26	22	15	15	10	11	5	5	5	5	28
13:00	264	131	43	37	15	17	12	3	6	5	5	5	4	28
14:00	294	154	46	23	18	21	12	5	8	6	4	5	4	25
15:00	305	137	48	14	24	17	10	7	12	8	5	3	7	18
16:00	343	133	50	21	13	14	11	8	7	9	4	6	3	23
17:00	344	143	55	25	18	16	4	11	6	5	3	8	3	24
18:00	231	109	54	28	18	14	11	14	4	4	5	8	7	23
19:00	169	83	35	24	19	15	5	10	6	7	5	7	5	32
20:00	103	51	37	19	19	10	8	4	9	7	8	3	5	39
21:00	33	32	12	10	8	6	3	10	7	7	1	3	3	52
22:00	13	13	14	10	3	2	4	9	3	2	2	3	1	47
23:00	14	6	3	5	2	5	0	4	3	1	1	4	1	45
Total	3309	1547	669	372	296	233	170	145	125	130	80	89	76	794

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/08/21	2	2	1	2	1	1	0	2	0	2	0	0	0	39
01:00	7	3	2	2	2	1	1	0	0	2	0	0	0	28
02:00	6	1	1	1	1	1	0	1	3	1	1	0	0	30
03:00	4	2	0	2	1	1	1	0	2	0	0	0	1	26
04:00	3	6	0	2	3	0	0	0	2	2	0	2	1	39
05:00	21	11	9	9	9	5	4	5	5	4	4	2	2	38
06:00	58	39	23	11	14	10	3	8	3	2	2	6	7	49
07:00	125	60	27	18	13	13	9	9	5	1	5	8	5	42
08:00	158	69	30	19	13	19	10	10	6	6	9	2	9	37
09:00	145	88	28	25	18	13	12	9	14	5	3	9	5	31
10:00	218	100	40	26	17	10	18	8	13	6	7	7	5	25
11:00	273	124	38	23	18	18	13	9	7	4	6	6	7	26
12 PM	242	102	53	27	15	15	13	13	11	9	6	8	7	20
13:00	311	137	38	20	19	10	12	10	8	8	6	7	8	18
14:00	277	119	55	24	24	25	16	8	6	5	10	3	3	22
15:00	326	158	49	23	17	12	14	17	10	2	3	9	1	23
16:00	375	156	57	15	11	23	12	8	4	6	0	3	7	20
17:00	381	136	62	24	18	18	14	6	5	3	1	11	3	21
18:00	240	124	46	23	17	16	9	11	8	4	8	4	7	24
19:00	183	72	36	30	18	13	11	6	10	2	13	0	6	31
20:00	108	55	28	30	11	13	10	8	10	6	4	5	4	36
21:00	78	36	24	18	7	11	11	6	9	5	5	6	4	43
22:00	36	36	16	9	16	7	6	6	5	6	3	5	6	49
23:00	16	11	7	7	5	4	3	2	5	2	2	0	2	46
Total	3593	1647	670	390	288	259	202	162	151	93	98	103	100	763

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/09/21	5	4	4	0	1	1	0	3	1	1	2	2	2	41
01:00	4	1	1	0	0	0	0	1	0	0	1	0	0	30
02:00	0	0	0	2	1	0	0	1	1	0	1	0	0	24
03:00	1	2	0	0	2	0	1	0	0	0	0	1	0	23
04:00	0	1	1	0	1	0	2	0	0	0	1	0	0	25
05:00	5	2	1	2	2	2	1	0	1	2	1	1	3	27
06:00	12	11	4	5	3	3	5	4	1	0	2	1	3	45
07:00	41	17	10	14	8	11	9	10	5	2	4	2	2	48
08:00	101	37	24	16	11	10	6	15	7	5	8	4	3	45
09:00	130	56	33	21	17	12	11	19	9	0	8	4	6	36
10:00	204	74	34	23	15	12	8	13	11	7	6	5	7	30
11:00	253	115	31	21	22	15	13	6	9	9	7	6	4	30
12 PM	261	110	41	29	19	15	13	4	7	5	8	8	4	26
13:00	269	72	48	34	17	13	14	7	6	5	4	3	5	31
14:00	223	98	46	34	23	10	9	6	3	9	4	3	3	34
15:00	257	105	51	23	17	16	9	9	2	6	7	4	7	27
16:00	204	105	42	25	14	22	5	7	4	6	3	3	4	34
17:00	179	105	37	35	15	14	8	9	6	5	5	3	9	29
18:00	127	93	33	22	15	12	11	8	4	5	5	3	3	41
19:00	71	48	28	20	21	15	13	8	11	6	6	2	5	41
20:00	55	41	16	13	7	13	12	9	8	6	2	6	9	43
21:00	22	19	8	7	11	7	5	6	6	6	3	1	1	49
22:00	16	22	15	8	10	4	8	1	4	5	5	5	0	49
23:00	6	2	3	1	2	4	0	0	0	1	2	1	2	42
Total	2446	1140	511	355	254	211	163	146	106	91	95	68	82	850

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/10/21	2	3	0	0	0	1	1	0	1	1	2	1	1	42
01:00	1	2	1	2	0	0	0	2	0	2	0	0	2	31
02:00	2	0	0	1	1	0	0	0	0	1	0	2	0	25
03:00	1	0	1	0	0	0	1	0	0	1	0	0	0	23
04:00	1	0	1	0	0	0	0	0	0	0	0	0	0	20
05:00	1	2	0	2	1	0	2	0	0	1	1	0	0	28
06:00	3	4	1	2	1	1	1	3	6	2	1	2	3	43
07:00	11	7	10	5	4	5	3	4	5	4	2	3	3	46
08:00	27	21	13	14	9	11	8	6	8	7	3	3	6	46
09:00	44	32	13	14	13	13	10	9	3	4	3	4	6	43
10:00	113	59	38	17	15	16	15	8	6	4	4	6	0	44
11:00	157	84	38	25	21	11	10	9	5	7	4	5	3	39
12 PM	168	71	37	26	16	18	10	10	4	2	7	6	2	37
13:00	206	106	52	22	12	14	8	11	9	4	7	4	4	31
14:00	199	112	36	32	23	21	20	10	5	4	4	3	2	26
15:00	157	81	43	23	13	11	9	13	5	4	3	7	6	31
16:00	197	92	28	25	19	15	6	11	7	5	5	1	3	31
17:00	123	69	38	25	13	11	12	7	5	2	5	8	5	32
18:00	104	52	33	20	17	15	10	10	9	10	4	4	4	37
19:00	66	31	26	18	13	8	8	7	6	3	5	6	1	44
20:00	28	21	16	10	9	11	6	6	4	5	2	7	2	44
21:00	19	6	5	5	5	7	5	5	5	2	4	5	3	48
22:00	8	10	3	4	3	3	4	1	2	0	0	2	1	41
23:00	6	3	2	1	3	2	0	2	1	0	0	2	4	28
Total	1644	868	435	293	211	194	149	134	96	75	66	81	61	860

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/11/21	1	1	1	0	1	0	0	0	1	1	1	0	1	23
01:00	2	3	0	0	0	0	1	0	0	0	1	0	0	15
02:00	0	0	1	0	0	0	0	0	1	0	0	0	1	23
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	19
04:00	1	2	0	3	2	0	2	0	2	1	2	0	1	29
05:00	15	2	5	8	6	6	4	3	3	4	1	2	4	46
06:00	49	40	20	14	7	10	7	11	2	3	3	2	6	50
07:00	91	41	25	13	12	15	8	6	12	5	1	6	7	43
08:00	91	60	23	19	15	9	11	6	4	8	6	5	0	44
09:00	108	66	23	23	15	13	13	12	16	7	0	9	5	35
10:00	188	79	39	17	29	16	10	8	7	6	5	4	2	34
11:00	235	101	44	28	14	13	14	8	3	6	4	6	6	31
12 PM	231	141	47	31	21	21	11	10	3	6	5	3	3	26
13:00	252	122	43	20	28	14	15	6	9	5	5	2	7	26
14:00	249	111	46	32	22	16	13	13	5	2	4	7	1	28
15:00	279	134	47	21	15	8	12	12	4	4	9	7	6	27
16:00	275	120	46	26	26	10	12	9	12	6	5	5	2	26
17:00	335	130	49	23	14	20	16	13	3	5	4	9	2	21
18:00	239	80	42	25	16	13	9	8	6	4	7	3	6	30
19:00	117	79	37	20	6	15	9	9	8	3	2	3	2	40
20:00	67	41	27	10	12	5	10	3	7	9	2	4	5	44
21:00	17	17	6	5	12	5	11	8	6	3	4	4	1	49
22:00	11	10	7	4	5	7	3	3	4	4	1	2	2	44
23:00	7	3	5	1	2	2	3	3	2	2	2	0	1	39
Total	2860	1383	583	343	281	218	194	151	120	94	74	83	71	792

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/12/21	1	1	1	1	2	0	2	0	1	0	0	2	0	28
01:00	2	3	1	0	0	0	0	0	0	2	0	1	0	27
02:00	1	3	0	0	0	1	1	2	1	0	1	0	0	30
03:00	1	0	2	0	0	1	0	2	0	0	0	0	0	37
04:00	7	1	2	3	3	0	1	0	2	1	0	0	1	37
05:00	19	5	8	7	8	6	4	7	5	2	4	4	0	43
06:00	65	47	25	6	10	5	6	2	1	6	5	7	4	46
07:00	94	55	30	18	18	15	10	9	9	9	4	2	4	37
08:00	123	68	40	16	12	13	7	12	5	4	9	5	6	38
09:00	124	61	30	22	23	15	6	9	5	4	9	6	6	36
10:00	202	92	41	34	9	18	15	10	5	5	9	5	4	29
11:00	222	97	44	24	18	19	11	5	6	6	6	8	8	26
12 PM	277	105	37	19	11	16	14	5	11	5	9	8	3	27
13:00	222	115	40	25	16	13	13	7	10	8	4	5	6	28
14:00	297	113	57	31	19	18	16	8	7	3	5	5	2	24
15:00	317	128	35	30	19	14	11	15	8	7	5	2	3	23
16:00	325	129	40	21	20	19	19	9	12	7	8	5	3	16
17:00	349	136	44	15	15	13	8	7	14	4	7	10	6	22
18:00	216	97	43	17	20	12	14	2	9	6	5	3	4	31
19:00	124	62	30	19	24	17	11	18	1	8	2	7	5	37
20:00	72	51	29	21	11	11	7	10	6	6	6	2	8	41
21:00	27	25	13	6	11	7	4	8	5	7	6	1	2	42
22:00	13	7	7	5	6	5	3	4	2	2	1	1	4	52
23:00	6	3	2	3	2	1	4	6	4	1	4	2	2	39
Total	3106	1404	601	343	277	239	187	157	129	103	109	91	81	796

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

WB

Start Time	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24	25 26	27 999
10/13/21	9	1	2	1	1	0	2	1	0	1	2	1	1	29
01:00	5	0	0	0	0	0	0	0	1	0	1	0	0	24
02:00	4	1	1	0	1	0	0	0	0	0	0	0	1	29
03:00	1	3	1	0	1	1	2	0	0	3	1	0	0	30
04:00	8	2	1	0	0	1	1	0	1	1	1	3	1	40
05:00	25	12	7	6	6	6	4	3	2	4	3	1	4	40
06:00	63	37	13	17	17	17	10	6	6	11	3	6	4	37
07:00	124	59	33	26	14	11	13	11	13	11	6	7	3	33
08:00	139	68	44	26	23	17	8	10	6	7	5	5	8	31
09:00	103	47	27	26	12	8	10	8	7	2	4	11	5	41
10:00	160	72	31	25	23	13	18	5	7	2	7	3	5	33
11:00	182	91	39	30	13	15	16	11	4	8	7	10	8	28
12 PM	172	58	37	25	20	13	9	6	6	5	7	1	3	39
13:00	173	96	37	25	20	12	11	11	7	6	6	2	7	32
14:00	82	36	8	6	4	6	2	1	6	3	3	2	3	14
15:00	2	0	0	0	0	0	0	0	0	0	0	0	0	1
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1252	583	281	213	155	120	106	73	66	64	56	52	53	481
Grand Total	20287	9414	4133	2512	1907	1599	1277	1052	837	703	628	623	564	5714

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/06/21	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	632	255	96	53	36	18	19	10	6	2	2	3	1	6
14:00	665	240	82	46	16	23	14	7	8	5	3	2	2	11
15:00	771	281	84	32	21	18	13	5	6	6	2	7	4	3
16:00	835	284	88	37	21	9	13	6	2	3	1	3	3	12
17:00	789	268	86	32	30	20	5	10	8	2	2	1	2	12
18:00	502	213	83	47	26	24	13	5	6	9	7	3	6	12
19:00	311	174	68	37	30	23	20	11	8	10	9	3	6	12
20:00	167	112	59	32	24	18	23	13	10	5	11	5	3	26
21:00	66	39	30	22	20	24	11	12	6	7	8	11	3	40
22:00	45	29	16	14	14	11	6	14	10	9	15	5	4	43
23:00	18	20	8	10	10	11	5	3	6	6	7	2	8	52
Total	4801	1915	700	362	248	199	142	96	76	64	67	45	42	229

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/07/21	10	8	4	3	4	6	7	2	5	6	2	2	2	47
01:00	3	2	0	1	5	1	0	1	2	3	1	1	2	32
02:00	7	7	2	6	1	2	2	1	2	9	2	0	1	39
03:00	7	3	2	1	6	4	1	5	2	1	2	3	1	46
04:00	20	9	9	6	7	12	4	6	3	3	7	3	5	52
05:00	94	54	47	27	20	11	12	14	11	5	6	4	5	39
06:00	268	144	64	36	31	30	19	13	9	8	4	5	4	19
07:00	509	207	84	47	30	21	18	13	11	7	5	2	2	7
08:00	554	222	66	67	28	26	11	7	7	3	4	1	4	14
09:00	530	215	88	42	35	20	13	8	5	8	2	2	3	13
10:00	528	212	76	45	34	19	12	12	10	4	5	3	2	14
11:00	674	247	78	51	23	26	10	8	5	2	6	4	1	11
12 PM	689	262	83	44	33	19	15	8	5	5	3	1	3	7
13:00	714	238	80	46	23	18	6	6	9	5	5	1	4	13
14:00	676	278	83	45	28	22	11	9	10	6	5	4	3	4
15:00	763	259	81	38	33	15	9	8	6	1	3	2	2	10
16:00	797	254	61	39	23	16	8	8	6	5	6	2	2	17
17:00	813	283	80	43	29	20	5	7	2	4	4	4	1	8
18:00	540	224	80	60	39	16	13	6	8	2	5	4	2	11
19:00	359	176	71	43	35	20	22	12	5	6	5	2	5	16
20:00	203	96	52	41	32	25	22	20	17	8	6	5	3	15
21:00	89	66	31	31	22	23	12	14	13	10	8	4	5	34
22:00	50	38	38	20	14	2	11	17	8	8	2	7	3	47
23:00	27	16	8	8	14	5	3	8	9	4	6	5	4	49
Total	8924	3520	1268	790	549	379	246	213	170	123	104	71	69	564

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/08/21	6	5	5	4	2	4	4	4	1	2	3	2	0	52
01:00	10	5	3	2	2	4	5	3	2	5	1	1	0	44
02:00	8	2	3	1	1	4	2	4	7	2	3	0	1	45
03:00	9	3	4	5	4	3	3	2	2	5	0	2	2	39
04:00	14	12	7	9	11	8	7	5	2	7	6	7	6	48
05:00	94	63	40	23	15	22	14	17	13	5	8	1	3	36
06:00	235	135	65	29	29	29	12	16	7	6	6	6	8	23
07:00	497	228	81	52	24	19	14	8	6	5	4	4	4	17
08:00	589	242	78	41	21	22	14	8	6	3	5	3	5	15
09:00	613	235	72	51	24	19	14	8	9	4	4	0	7	9
10:00	615	270	77	51	20	13	19	7	10	8	1	5	2	7
11:00	772	255	80	47	34	15	10	4	9	6	4	0	0	5
12 PM	739	253	89	43	30	25	12	8	6	6	0	3	1	7
13:00	728	266	76	46	26	15	10	15	8	2	3	1	2	8
14:00	746	261	84	46	30	16	13	10	5	1	2	3	1	9
15:00	817	282	71	45	20	17	12	9	8	6	5	4	1	12
16:00	837	301	77	24	21	21	9	7	3	2	1	2	3	10
17:00	893	234	78	48	18	21	12	7	7	3	6	4	2	9
18:00	580	238	88	49	19	18	17	6	12	8	7	0	1	7
19:00	399	176	64	56	36	25	18	11	10	5	7	5	3	8
20:00	223	119	57	44	25	26	21	8	16	5	5	9	5	20
21:00	157	76	46	31	28	28	19	13	12	6	7	9	7	23
22:00	81	67	41	15	25	16	20	17	10	9	4	7	8	34
23:00	44	32	26	14	17	10	6	6	8	7	5	3	7	49
Total	9706	3760	1312	776	482	400	287	203	179	118	97	81	79	536

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/09/21	16	11	7	5	4	5	6	8	6	5	4	4	5	50
01:00	6	6	4	2	3	4	1	1	0	2	3	1	1	42
02:00	3	0	2	5	6	3	3	3	2	0	3	2	4	42
03:00	2	4	0	3	5	1	0	2	0	2	5	1	1	38
04:00	3	4	1	5	4	2	4	3	0	1	1	3	3	42
05:00	23	13	11	9	7	7	6	4	6	6	3	2	5	50
06:00	43	28	23	23	14	15	13	13	9	10	3	7	3	45
07:00	153	84	52	37	24	30	15	15	13	6	7	4	4	29
08:00	361	157	71	35	34	24	15	22	8	7	7	5	1	12
09:00	495	196	75	48	27	20	12	15	5	4	5	0	3	14
10:00	620	225	77	54	39	20	13	7	6	4	5	2	7	8
11:00	761	253	75	36	35	11	15	7	10	5	3	2	2	9
12 PM	691	276	71	34	29	24	11	4	7	4	4	4	5	9
13:00	624	190	89	49	24	16	15	11	12	8	6	2	5	7
14:00	591	234	89	51	29	17	11	6	7	9	2	3	2	9
15:00	657	211	96	50	24	25	9	12	8	5	2	0	1	9
16:00	547	240	72	43	33	27	11	9	7	4	4	1	2	13
17:00	549	228	76	53	34	23	11	7	9	4	4	2	1	6
18:00	383	208	81	37	33	20	17	13	5	9	4	1	7	14
19:00	194	112	73	40	54	31	12	7	11	10	7	2	2	19
20:00	114	79	51	34	23	22	14	16	9	13	5	11	6	27
21:00	66	47	22	27	24	14	12	12	16	8	8	7	6	34
22:00	51	44	30	19	18	15	9	11	10	7	5	4	4	43
23:00	19	9	12	6	9	11	5	3	12	5	2	5	5	53
Total	6972	2859	1160	705	536	387	240	211	178	138	102	75	85	624

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/10/21	5	7	4	4	3	3	3	2	7	3	7	2	1	50
01:00	10	6	5	5	3	2	3	3	1	4	3	1	1	42
02:00	2	1	0	1	3	2	0	0	1	3	0	1	1	38
03:00	3	2	4	4	0	0	1	0	2	1	0	1	0	35
04:00	3	0	3	2	1	0	0	0	0	0	0	0	0	35
05:00	8	11	5	2	6	3	2	0	0	2	1	4	0	45
06:00	10	14	8	4	4	8	7	4	7	6	3	5	2	56
07:00	48	34	21	19	10	19	15	7	8	6	9	5	4	44
08:00	127	72	46	25	22	26	16	12	6	15	7	5	5	31
09:00	226	132	51	39	24	12	15	19	10	14	1	5	3	24
10:00	415	155	89	51	29	30	16	10	7	3	5	6	2	15
11:00	482	221	97	47	30	19	13	14	5	4	2	6	1	10
12 PM	545	218	90	51	28	18	15	10	6	3	1	4	3	13
13:00	560	226	89	47	26	27	13	12	3	5	1	1	3	11
14:00	534	232	87	52	35	17	19	5	11	7	2	3	1	5
15:00	461	232	94	50	36	23	8	11	7	8	3	3	2	6
16:00	507	206	85	39	33	23	15	5	9	9	6	5	2	10
17:00	394	176	79	54	37	22	21	5	12	4	3	0	5	12
18:00	264	132	77	40	40	25	13	14	12	11	9	4	5	11
19:00	140	80	45	41	33	19	11	12	7	11	7	9	5	31
20:00	70	48	35	28	21	15	10	14	12	11	7	6	6	33
21:00	35	28	11	19	12	16	13	16	6	8	4	6	7	45
22:00	16	20	6	8	6	8	8	4	5	1	2	3	2	61
23:00	11	12	10	5	4	7	5	5	5	3	4	6	3	47
Total	4876	2265	1041	637	446	344	242	184	149	142	87	91	64	710

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/11/21	2	4	3	1	4	2	2	0	1	3	3	2	1	36
01:00	3	3	2	1	1	1	1	0	1	0	2	0	1	28
02:00	0	0	1	0	0	0	0	0	2	0	1	0	1	38
03:00	2	2	2	3	2	1	0	1	1	0	2	1	2	36
04:00	9	7	7	7	9	3	8	5	2	3	3	4	3	43
05:00	49	29	16	14	18	13	7	6	8	8	3	7	5	46
06:00	130	94	55	27	29	16	14	17	12	8	9	5	6	29
07:00	312	136	71	52	35	25	11	14	15	11	4	5	7	9
08:00	374	177	68	51	35	17	18	10	7	5	3	6	3	15
09:00	486	199	69	38	32	18	18	16	11	4	2	4	2	14
10:00	557	241	86	42	27	24	17	12	12	5	3	2	1	7
11:00	642	249	87	40	35	19	14	8	5	4	4	1	1	8
12 PM	764	300	73	45	21	22	13	6	3	2	2	2	1	8
13:00	682	263	81	41	31	18	17	7	11	7	1	2	0	5
14:00	749	248	69	38	34	18	16	10	6	6	1	2	2	10
15:00	764	245	74	44	29	15	12	8	7	4	4	4	3	10
16:00	707	275	77	51	27	21	5	9	6	6	2	2	2	7
17:00	763	257	90	51	21	21	15	6	7	4	3	3	4	7
18:00	538	203	95	53	28	14	16	10	12	4	3	2	4	7
19:00	279	158	72	33	26	25	17	7	10	5	9	3	4	18
20:00	157	80	58	28	24	17	11	10	12	11	5	5	7	32
21:00	46	38	24	16	22	20	17	12	10	6	5	6	9	43
22:00	34	26	20	9	14	13	9	6	9	8	8	7	4	52
23:00	13	12	10	4	8	9	10	4	10	1	6	2	5	52
Total	8062	3246	1210	689	512	352	268	184	180	115	88	77	78	560

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start	1	3	5	7	9	11	13	15	17	19	21	23	25	27
Time	2	4	6	8	10	12	14	16	18	20	22	24	26	999
10/12/21	8	3	3	4	3	3	3	3	4	2	0	3	3	45
01:00	8	5	6	2	2	0	2	1	1	0	2	2	1	36
02:00	6	4	3	5	2	0	2	2	2	1	2	1	0	43
03:00	6	1	5	0	0	5	1	3	1	3	3	1	3	48
04:00	26	12	8	11	15	8	8	4	5	6	4	2	6	52
05:00	107	50	36	29	30	12	15	5	6	7	12	5	3	37
06:00	254	152	66	40	30	16	16	21	12	8	3	4	3	17
07:00	489	200	89	51	37	28	13	12	6	6	2	1	2	6
08:00	510	218	81	44	23	14	12	17	9	9	7	3	3	11
09:00	507	239	72	51	27	18	12	11	5	2	6	3	1	14
10:00	618	225	80	50	31	24	12	10	6	3	2	2	1	8
11:00	583	237	85	50	24	22	11	13	9	1	6	4	1	10
12 PM	784	269	70	44	23	20	7	10	7	6	7	3	3	7
13:00	604	233	92	45	29	21	16	7	4	5	9	4	3	9
14:00	683	253	91	52	16	20	13	8	12	2	4	4	2	11
15:00	744	257	69	42	24	17	14	10	7	2	2	1	2	13
16:00	714	284	87	32	24	18	8	11	13	6	7	2	1	7
17:00	757	234	81	39	28	12	11	8	5	3	5	4	3	11
18:00	524	215	79	30	25	15	18	9	8	7	6	4	4	13
19:00	340	150	71	46	25	29	18	13	6	8	5	2	3	20
20:00	147	103	62	41	26	20	19	15	4	16	5	5	5	22
21:00	68	46	21	21	28	18	11	12	7	9	13	7	3	39
22:00	27	28	17	18	7	15	10	7	12	4	4	5	9	47
23:00	20	23	6	10	8	9	9	13	7	5	2	3	3	49
Total	8534	3441	1280	757	487	364	261	225	158	121	118	75	68	575

Tri-State Traffic Data Inc.

184 Baker Rd
Caotesville PA 19320

Road Name: 17K
Segment: 1010' E OF CORPROATE BLVD
Ctr#: 35247

GPS: 41.507542, -74.083573

COMBINED

Start Time	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24	25 26	27 999
10/13/21	12	7	5	2	5	0	2	3	1	2	4	5	4	41
01:00	5	0	4	0	1	1	0	1	2	0	3	0	4	32
02:00	5	3	1	4	2	1	2	4	2	2	1	1	2	37
03:00	3	5	2	1	3	2	2	4	0	5	2	1	1	45
04:00	19	13	15	11	4	9	10	4	6	4	8	5	2	50
05:00	103	68	46	17	16	9	13	12	10	6	8	4	6	42
06:00	264	131	60	35	26	28	13	9	14	6	9	3	4	24
07:00	522	202	85	50	27	16	13	14	7	7	9	4	3	8
08:00	539	208	86	43	31	28	17	13	3	7	4	2	1	8
09:00	431	200	91	46	25	19	16	10	8	5	5	7	3	12
10:00	472	205	80	35	35	18	15	5	9	3	6	4	2	15
11:00	612	242	86	51	35	19	11	8	5	3	4	2	2	12
12 PM	582	211	59	45	18	15	18	7	5	3	2	2	7	24
13:00	579	245	75	34	31	13	9	7	6	3	5	6	2	19
14:00	200	106	22	12	8	6	1	1	3	2	2	2	1	9
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	4348	1846	717	386	267	184	142	102	81	58	72	48	44	381
Grand Total	56223	22852	8688	5102	3527	2609	1828	1418	1171	879	735	563	529	4179

APPENDIX C
ITE LAND USE DESCRIPTIONS

Land Use: 110
General Light Industrial

Description

A light industrial facility is a free-standing facility devoted to a single use. The facility has an emphasis on activities other than manufacturing and typically has minimal office space. Typical light industrial activities include printing, material testing, and assembly of data processing equipment. Industrial park (Land Use 130) and manufacturing (Land Use 140) are related uses.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The sites were surveyed in the 1980s, the 2000s, and the 2010s in Colorado, Connecticut, Indiana, New Jersey, New York, Oregon, Pennsylvania, and Texas.

Source Numbers

106, 157, 174, 177, 179, 184, 191, 251, 253, 286, 300, 611, 874, 875, 912

Land Use: 140
Manufacturing

Description

A manufacturing facility is an area where the primary activity is the conversion of raw materials or parts into finished products. Size and type of activity may vary substantially from one facility to another. In addition to the actual production of goods, a manufacturing facility typically has an office and may provide space for warehouse, research, and associated functions. General light industrial (Land Use 110) and industrial park (Land Use 130) are related uses.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Minnesota, Missouri, New Jersey, New York, Oregon, Pennsylvania, South Dakota, Texas, Vermont, Washington, and West Virginia.

Source Numbers

177, 179, 184, 241, 357, 384, 418, 443, 583, 598, 611, 728, 747, 875, 879, 940, 969, 1067, 1068, 1082

Land Use: 150
Warehousing

Description

A warehouse is primarily devoted to the storage of materials, but it may also include office and maintenance areas. High-cube transload and short-term storage warehouse (Land Use 154), high-cube fulfillment center warehouse (Land Use 155), high-cube parcel hub warehouse (Land Use 156), and high-cube cold storage warehouse (Land Use 157) are related uses.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in California, Connecticut, Minnesota, New Jersey, New York, Ohio, Oregon, Pennsylvania, and Texas.

Source Numbers

184, 331, 406, 411, 443, 579, 583, 596, 598, 611, 619, 642, 752, 869, 875, 876, 914, 940, 1050

Land Use: 710
General Office Building

Description

A general office building is a location where affairs of businesses, commercial or industrial organizations, or professional persons or firms are conducted. An office building houses multiple tenants that can include, as examples, professional services, insurance companies, investment brokers, a banking institution, a restaurant, or other service retailers. A general office building with a gross floor area of 10,000 square feet or less is classified as a small office building (Land Use 712). Corporate headquarters building (Land Use 714), single tenant office building (Land Use 715), medical-dental office building (Land Use 720), office park (Land Use 750), research and development center (Land Use 760), and business park (Land Use 770) are additional related uses.

Additional Data

If two or more general office buildings are in close physical proximity (within a close walk) and function as a unit (perhaps with a shared parking facility and common or complementary tenants), the total gross floor area or employment of the paired office buildings can be used for calculating the site trip generation. If the individual buildings are isolated or not functionally related to one another, trip generation should be calculated for each building separately.

For study sites with reported gross floor area and employees, an average employee density of 3.3 employees per 1,000 square feet GFA (or roughly 300 square feet per employee) has been consistent through the 1980s, 1990s, and 2000s. No sites counted in the 2010s reported both GFA and employees.

The average building occupancy varies considerably within the studies for which occupancy data were provided. The reported occupied gross floor area was 88 percent for general urban/suburban sites and 96 percent for the center city core and dense multi-use urban sites.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The average numbers of person trips per vehicle trip at the eight center city core sites at which both person trip and vehicle trip data were collected are as follows:

- 2.8 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 2.9 during Weekday, AM Peak Hour of Generator
- 2.9 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 3.0 during Weekday, PM Peak Hour of Generator

The average numbers of person trips per vehicle trip at the 18 dense multi-use urban sites at which both person trip and vehicle trip data were collected are as follows:

- 1.5 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.5 during Weekday, AM Peak Hour of Generator
- 1.5 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 1.5 during Weekday, PM Peak Hour of Generator

The average numbers of person trips per vehicle trip at the 23 general urban/suburban sites at which both person trip and vehicle trip data were collected are as follows:

- 1.3 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.3 during Weekday, AM Peak Hour of Generator
- 1.3 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 1.4 during Weekday, PM Peak Hour of Generator

The sites were surveyed in the 1980s, the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, Colorado, Connecticut, Georgia, Illinois, Indiana, Kansas, Kentucky, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, New Hampshire, New Jersey, New York, Ontario (CAN)Pennsylvania, Texas, Utah, Virginia, and Washington.

Source Numbers

161, 175, 183, 184, 185, 207, 212, 217, 247, 253, 257, 260, 262, 273, 279, 297, 298, 300, 301, 302, 303, 304, 321, 322, 323, 324, 327, 404, 407, 408, 419, 423, 562, 734, 850, 859, 862, 867, 869, 883, 884, 890, 891, 904, 940, 944, 946, 964, 965, 972, 1009, 1030, 1058, 1061

APPENDIX D
TIMING DIRECTIVES

TE-26X

STATE OF NEW YORK - DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING & SAFETY DIVISION
TRAFFIC CONTROL SPECIFICATIONS

Study :
Contract :
PIN:
File : 33.33.17K

O148PS — SIGNAL NO(S)

ORANGE — COUNTY

INTERSECTION ROUTE 17K AT NORTHEAST BUSINESS CENTER

☐ CITY ☐ VILLAGE ☒ TOWN OF NEWBURGH

Department Order filed _____ as Section 2033.33 Subdivision (ee)

Prior specifications hereby superseded ☒ None ☐ _____

Purpose : INSTALLATION OF TRAFFIC SIGNAL O148PS UNDER HWP# 8-95-0632.

These specifications will be effective upon the ☒ Installation ☐ Modification of the necessary traffic control device(s) reguired by and conforming to the State Manual of Uniform Traffic Control Devices

I. This Signal shall

A. Operate in accordance with the Table of Operations and / of Change intervals as shown on page(s) 2 as a :

- ☐ Pretimed Signal
- ☐ Semi-traffic actuated signal
- ☒ Full-traffic actuated signal
- ☐ Pedestrian actuated signal
- ☐ Other _____

updated 03/06
Shop copy

FINAL COPY

B.
- ☒ Display vehicular indications
- ☐ Display pedestrian indications
- ☒ Be equipped with vehicle detectors
- ☐ Be equipped with Pedestrian pushbuttons

as shown in the ☒ schematic ☐ scaled drawing on page 3

2070
Dec 2012

C. Be equipped with ☐ pre-emption ☐ interconnection and / or coordination which are described as follows

5/29/96 — Date
Wm. D. FITZPATRICK — Signature
RTE — Title

cc:
- (2) ☒ Main Office
- (1) ☒ Region 8 Traffic Engineer
- (1) ☒ P. TELISKA, RES. 8-4
- (3) ☒ F. HAALCK

Installation Date May 29, 1996

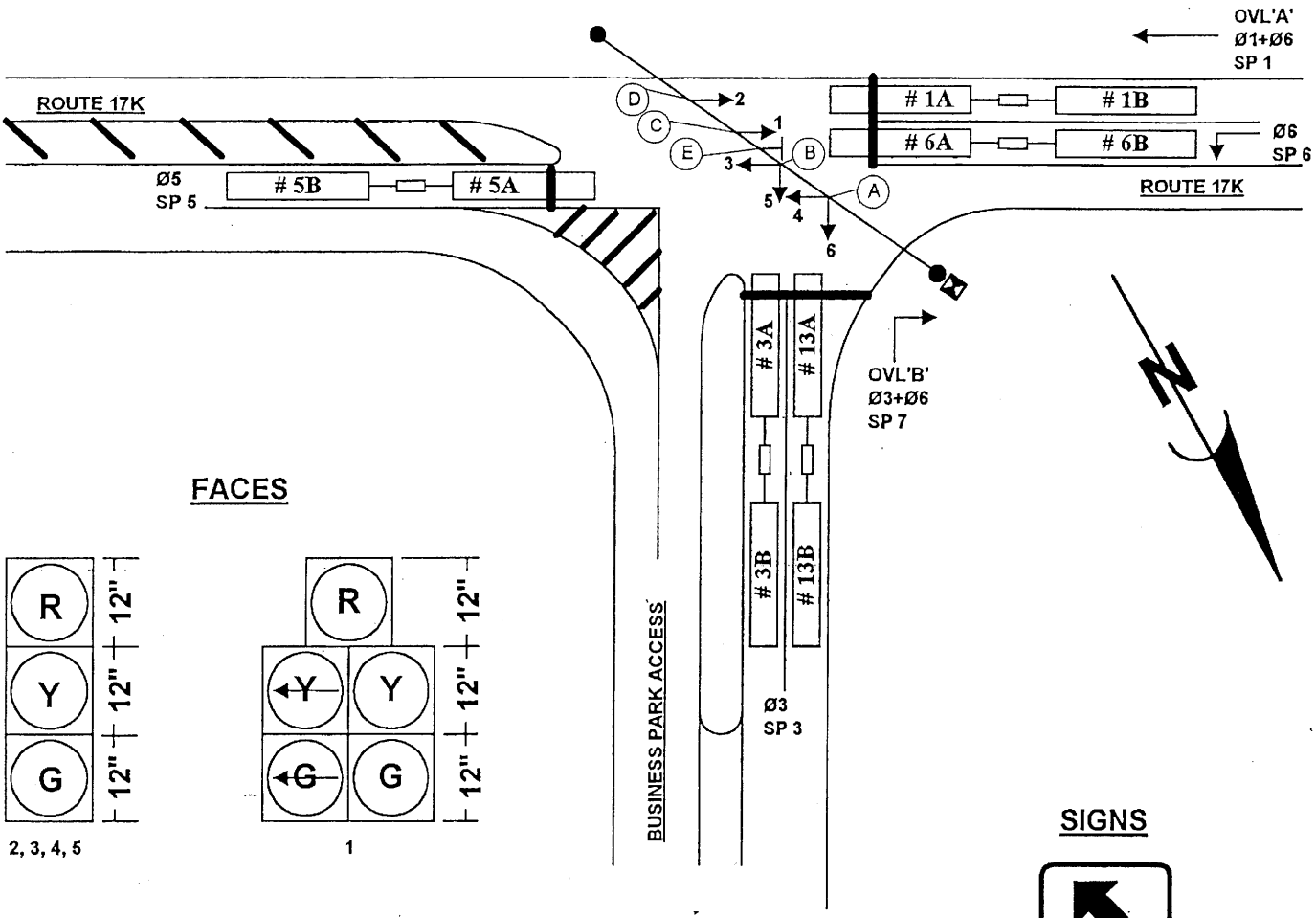
Modification Date _____

STATE OF NEW YORK - DEPARTMENT OF TRANSPORTATION
TRAFFIC AND SAFETY DIVISION
TRAFFIC CONTROL SIGNAL SPECIFICATIONS (CONTINUED)

STUDY:
CONTRACT:
PIN:
FILE: 33.33.17K

O148PS (SIGNAL NO(S)) | ORANGE (COUNTY) | _____ (DATE) | PAGE 3 OF 20 PAGES

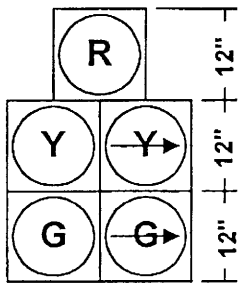
HWP 8-95-0632



FACES

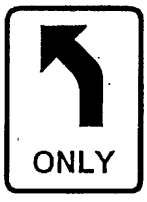
2, 3, 4, 5

1



6

SIGNS



E

3148

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green	10		6		10	3		
Gap, Ext	2		2		3	2		
Max 1	40		30		40	15		
Max 2								
Yel Clearance	5		5		5	5		
Red Clearance	1		1		1	1		
Walk								
Ped Clearance								
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable	ON		ON		ON	ON		
Min Recall	ON				ON			
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1					13					25					37				
2					14					26					38				
3					15					27					39				
4					16					28					40				
5					17					29					41				
6					18					30					42				
7					19					31					43				
8					20					32					44				
9					21					33					45				
10					22					34					46				
11					23					35					47				
12					24					36					48				

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor									13	Coor								
2	Coor									14	Coor								
3	Coor									15	Coor								
4	Coor									16	Coor								
5	Coor									17	Coor								
6	Coor									18	Coor								
7	Coor									19	Coor								
8	Coor									20	Coor								
9	Coor									21	Coor								
10	Coor									22	Coor								
11	Coor									23	Coor								
12	Coor									24	Coor								

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Enable
1	1	Green	ON
2	1	Red	OFF
3	1	Red	ON
4	1	Red	OFF
5	2	Green	ON
6	2	Red	ON
7	2	Red	OFF
8	2	Red	OFF

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	Float
Closed Loop	ON
Stop-in-Walk	OFF
Auto Reset	ON
Expand Splt	OFF
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH OVER
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	Red
Start Flash(s)	0
Start AllRed(s)	0
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	0
Feature Profile	0
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

Overlap 1-16 Program Parms & Parm+ [1.5.2.1] [1.5.2.2]

Overlap Conflict Lock: OFF | Overlap Lock Inhibit: OFF | Parent Ph Clearance: OFF | Extra Included Ph: ON

	Included Ø	1	6						Type	NORMAL		Included Ø								Type	NORMAL
1	Modifier Ø								Grn		9	Modifier Ø								Grn	
	Conflict Ø								Yel	5		Conflict Ø								Yel	3.5
A	Conflict Olap								Red	1	I	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	
	Included Ø	6	3						Type	NORMAL		Included Ø								Type	NORMAL
2	Modifier Ø								Grn		10	Modifier Ø								Grn	
	Conflict Ø								Yel	5		Conflict Ø								Yel	3.5
B	Conflict Olap								Red	1	J	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	
	Included Ø								Type	NORMAL		Included Ø								Type	NORMAL
3	Modifier Ø								Grn		11	Modifier Ø								Grn	
	Conflict Ø								Yel	3.5		Conflict Ø								Yel	3.5
C	Conflict Olap								Red	1.5	K	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	
	Included Ø								Type	NORMAL		Included Ø								Type	NORMAL
4	Modifier Ø								Grn		12	Modifier Ø								Grn	
	Conflict Ø								Yel	3.5		Conflict Ø								Yel	3.5
D	Conflict Olap								Red	1.5	L	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	
	Included Ø								Type	NORMAL		Included Ø								Type	NORMAL
5	Modifier Ø								Grn		13	Modifier Ø								Grn	
	Conflict Ø								Yel	3.5		Conflict Ø								Yel	3.5
E	Conflict Olap								Red	1.5	M	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	
	Included Ø								Type	NORMAL		Included Ø								Type	NORMAL
6	Modifier Ø								Grn		14	Modifier Ø								Grn	
	Conflict Ø								Yel	3.5		Conflict Ø								Yel	3.5
F	Conflict Olap								Red	1.5	N	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	
	Included Ø								Type	NORMAL		Included Ø								Type	NORMAL
7	Modifier Ø								Grn		15	Modifier Ø								Grn	
	Conflict Ø								Yel	3.5		Conflict Ø								Yel	3.5
G	Conflict Olap								Red	1.5	O	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	
	Included Ø								Type	NORMAL		Included Ø								Type	NORMAL
8	Modifier Ø								Grn		16	Modifier Ø								Grn	
	Conflict Ø								Yel	3.5		Conflict Ø								Yel	3.5
H	Conflict Olap								Red	1.5	P	Conflict Olap								Red	1.5
	Conflict Ped								LG			Conflict Ped								LG	

Channel Settings [1.8.1]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Phase / Olap #	1		3		5	6	2				3													
Channel Type	OLP	VEH	VEH	VEH	VEH	VEH	OLP	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	YEL	Red	Red	Red	YEL	DRK	DRK	Red	Red	Red	Red	Red	Red	Red	Red	Red	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Alt Hz																								

Channel+ Settings [1.8.4]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Flash Red+																								
Flash Yellow+																								
Flash Green+																								
Flash Inh Red+																								
Olap Ovrd																								

Coord Transition, CoorPhs [2.5]

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	RetHld	Float	Min Veh Perm	Min Ped Perm
1	12	22							EndGRN				
2	12	22							EndGRN				
3	12	22							EndGRN				
4	12	22							EndGRN				
5	12	22							EndGRN				
6	12	22							EndGRN				
7	12	22							EndGRN				
8	12	22							EndGRN				
9	12	22							EndGRN				
10	12	22							EndGRN				
11	12	22							EndGRN				
12	12	22							EndGRN				
13	12	22							EndGRN				
14	12	22							EndGRN				
15	12	22							EndGRN				
16	12	22							EndGRN				
17	12	22							EndGRN				
18	12	22							EndGRN				
19	12	22							EndGRN				
20	12	22							EndGRN				
21	12	22							EndGRN				
22	12	22							EndGRN				
23	12	22							EndGRN				
24	12	22							EndGRN				
25									BegGRN				
26									BegGRN				
27									BegGRN				
28									BegGRN				
29									BegGRN				
30									BegGRN				
31									BegGRN				
32									BegGRN				
33									BegGRN				
34									BegGRN				
35									BegGRN				
36									BegGRN				
37									BegGRN				
38									BegGRN				
39									BegGRN				
40									BegGRN				
41									BegGRN				
42									BegGRN				
43									BegGRN				
44									BegGRN				
45									BegGRN				
46									BegGRN				
47									BegGRN				
48									BegGRN				

Channel Params[1.8.3]

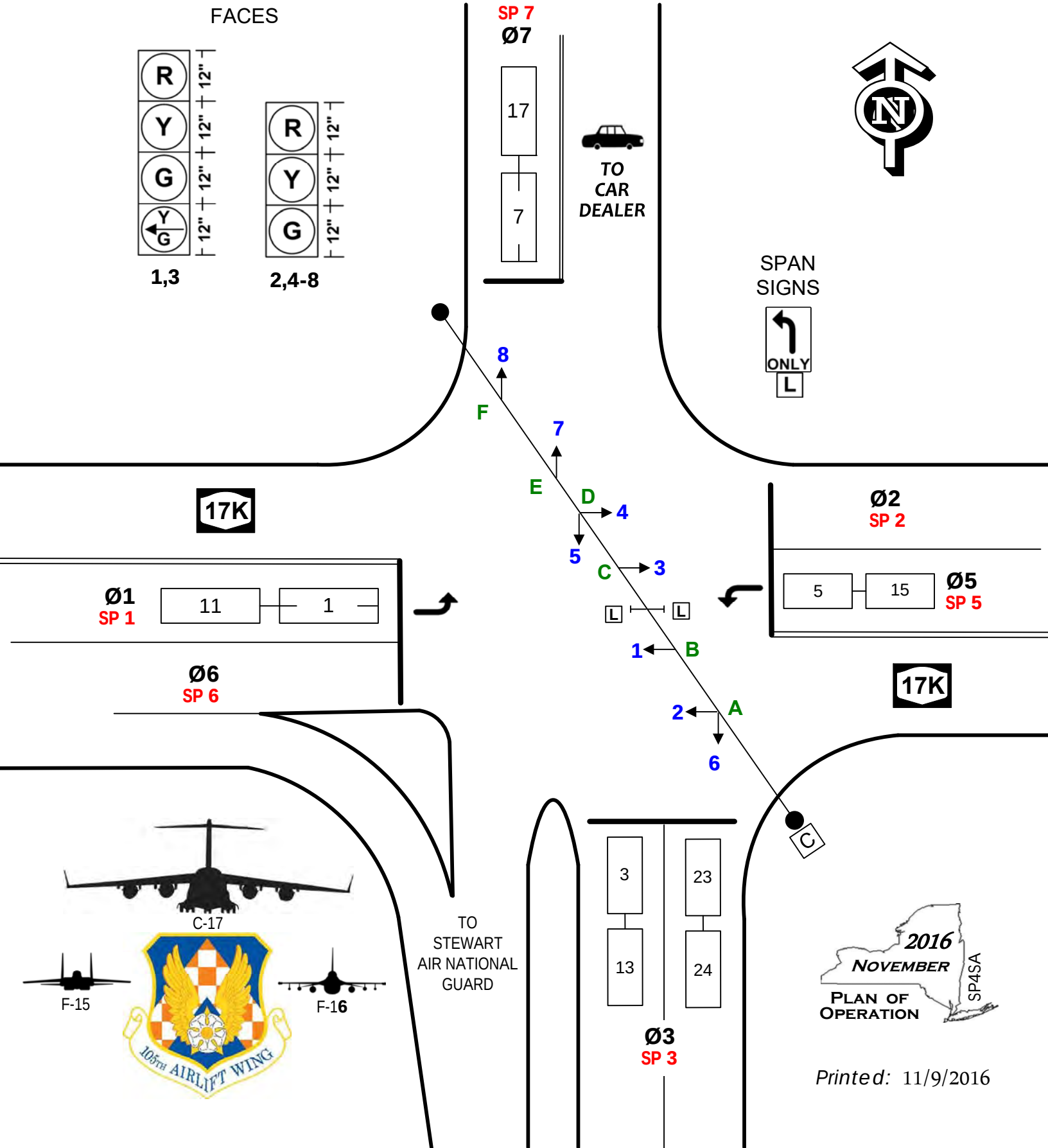
C1 IO Mode	User	Single BIU Map	SINGLE	Invert Rail Input	OFF

O-199PS
Signal #

STATE OF NEW YORK - DEPARTMENT OF TRANSPORTATION
TRAFFIC AND SAFETY DIVISION

Town of NEWBURGH

Signal: **O-199PS**
D/HWP: 08-2016-51002
PIN:
File: 33.33-17K



Printed: 11/9/2016

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green	3	10	5		3	10	5	
Gap, Ext	2		2		2		2	
Max 1	15	40	25		15	40	25	
Max 2								
Yel Clearance	5	5	5		5	5	5	
Red Clearance	2	2	2		2	2	2	
Walk								
Ped Clearance								
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]	1	2	3	4	5	6	7	8
Enable	ON	ON	ON		ON	ON	ON	
Min Recall								
Max Recall		ON				ON		
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON				ON		
Enable Simul Gap								
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	105	0	1	1	13					25					37				
2	105	0	2	1	14					26					38				
3					15					27					39				
4					16					28					40				
5					17					29					41				
6					18					30					42				
7					19					31					43				
8					20					32					44				
9					21					33					45				
10					22					34					46				
11					23					35					47				
12					24					36					48				

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor	15	50	40	0	15	50	40	0	13	Coor								
	2	NON	Max	NON	NON	NON	Max	NON	NON										
2	Coor	15	40	50	0	15	40	50	0	14	Coor								
	2	NON	Max	NON	NON	NON	Max	NON	NON										
3	Coor	0	0	0	0	0	0	0	0	15	Coor								
4	Coor									16	Coor								
5	Coor									17	Coor								
6	Coor									18	Coor								
7	Coor									19	Coor								
8	Coor									20	Coor								
9	Coor									21	Coor								
10	Coor									22	Coor								
11	Coor									23	Coor								
12	Coor									24	Coor								

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6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

3199

Ring/Startup [1.1.4]

Phs	Ring	Start	Enable
1	1	Red	ON
2	1	Green	ON
3	1	Red	ON
4	1	Red	OFF
5	2	Red	ON
6	2	Green	ON
7	2	Red	ON
8	2	Red	OFF

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	Float
Closed Loop	ON
Stop-in-Walk	OFF
Auto Reset	ON
Expand Splt	OFF
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH OVER
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	ON
Start Flash(s)	0
Start AllRed(s)	0
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	0
Feature Profile	0
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

NOTES:

1. ALL WORK IS TO BE DONE ACCORDING TO THE LATEST "NYSDOT STANDARD SPECIFICATIONS", REGION 8 SIGNAL DETAILS SHEETS, AND STANDARD STRUCTURE SHEETS. THE REGION 8 SIGNAL DETAILS SHEETS ARE TO BE PART OF THE SIGNAL PLAN.
2. SIGNAL HEAD ROADWAY CLEARANCE SHALL BE 15'-6" TO 17'-0".
3. ALL MATERIALS INCORPORATED IN THE SIGNAL INSTALLATION SHALL CONFORM TO THE CURRENT NYSDOT REQUIREMENTS AS PER NOTE 1 ABOVE. CONFORMANCE SHALL BE MET BY NYSDOT APPROVAL OF THE FOLLOWING SUBMISSIONS BY THE PERMITTEE/CONTRACTOR.
   - 3.1. TRAFFIC SIGNAL POLES AND PEOESTRIAN POLES: MANUFACTURER'S SHOP DRAWINGS AND CALCULATIONS MUST BE SUBMITTED TO NYSDOT FOR EACH SIGNAL POLE. THE SHOP DRAWINGS AND CALCULATIONS MUST BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
   - 3.2. TRAFFIC SIGNAL HEADS (SECTIONS) & BRACKET ASSEMBLIES, PEDESTRIAN HEADS AND BRACKET ASSEMBLIES, CONCRETE PULLBOXES, CAST ALUMINUM JUNCTION BOXES, AND OVERHEAD SIGN ASSEMBLIES: MANUFACTURER CATALOG CUTS MUST BE SUBMITTED TO THE STATE AS WELL AS MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH "NYSDOT STANDARD SPECIFICATIONS".
   - 3.3. TRAFFIC SIGNAL CONDUIT, CABLE, WIRE: MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO NYSDOT.
   - 3.4. TRAFFIC SIGNAL LOOP EMBEDDING SEALER: ONLY THOSE PRODUCTS INCLUDED ON THE LATEST NYSDOT MATERIALS BUREAU "APPROVED LIST" SHALL BE USED.
4. THE SIGNAL INSTALLATION CONTRACTOR SHALL CONTACT NYSDOT REGION 8 TRAFFIC ENGINEERING & SAFETY PRIOR TO PERFORMING ANY WORK. A MEETING SHALL TAKE PLACE AS DETERMINED NECESSARY BY NYSDOT OR AT THE REQUEST OF THE CONTRACTOR.
5. NYSDOT SHALL BE NOTIFIED PRIOR TO THE INSTALLATION OF ANY VEHICLE DETECTOR LOOPS. FAILURE TO DO SO MAY RESULT IN THE REJECTION OF LOOPS SO INSTALLED.
6. THE PERMITTEE/CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL LOCAL PERMITS REQUIRED.
7. PAVEMENT MARKINGS, IF REQUIRED, SHALL BE IN ACCORDANCE TO THE CURRENT NYSDOT PRACTICE FOR THE SIGNAL LOCATION.
8. THE PERMITTEE IS RESPONSIBLE TO RESTORE ANY DISTURBED AREAS TO THEIR ORIGINAL CONDITION AS PER THE APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS.
9. SIGNAL POLE FOOTINGS (FOUNDATIONS) SHALL BE INSTALLED AS PER STANDARD SHEET 680-01. PARTICULAR NOTE SHOULD BE MADE OF THE "METHODS FOR PLACING FOOTINGS" AS THEY RELATE TO APPROVED METHODS OF BACKFILL. IF ROCK IS ENCOUNTERED, NYSDOT TRAFFIC ENGINEERING & SAFETY SHOULD BE NOTIFIED. NYSDOT SOILS SHALL THEN BE NOTIFIED FOR THE PROPER METHOD OF INSTALLATION.
10. NYSDOT WILL PROVIDE TABLE OF SWITCH PACKS AND TABLE OF INPUT WIRING TO THE PERMITTEE (CONTRACTOR). IT IS THE PERMITTEE'S (CONTRACTOR'S) RESPONSIBILITY TO NOTIFY NYSDOT WHEN THESE ARE NEEDED.
11. LOOP DETECTORS ARE TO BE WIRED IN PARALLEL IN THE CABINET.
12. ELECTRICAL CABLE SPLICES: ALL CABLE SPLICES MADE IN CABLE RUNS TO BE LOCATED BELOW GROUND WILL BE ACCOMPLISHED USING METHOD #32 (TWO COMPONENT ELECTRICAL INSULATING RESIN REJACKETING MATERIAL) AS DESCRIBED IN SECTION 680.3.16 OF THE STANDARDS SPECIFICATIONS.
13. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. PULLBOXES:
   - 14.1. UNLESS OTHERWISE SHOWN ON THE PLANS ALL PULLBOXES SHALL BE INSTALLED OUTSIDE OF THE PAVEMENT OR SHOULDER AREA.
   - 14.2. THE FINISHED GROUND SURFACE ON THE BACK SLOPE IN THE VICINITY OF THE PULLBOX SHALL BE ADJUSTED SO THAT NO FILL SHALL BE SPILLED ON THE TOP OF THE BOX AND THE MAXIMUM DISTANCE FROM THE TOP OF THE FINISHED GROUND AT THE BOX SHALL NOT EXCEED 4 INCHES. ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PULLBOX.
15. THE CONTRACTOR SHALL REFERENCE NYSDOT STANDARO SHEETS 680-01, 680-02, 680-04, 680-05, 680-06, 680-07, 680-10, 680-11, 680-12, 680-14 AND 680-17 FOR THIS INSTALLATION.
16. TRAFFIC SIGNAL CONTROL IS TO BE MAINTAINED UNTIL THE NEW SIGNAL IS IN OPERATION AND ACCEPTED BY THE STATE, UNDER ITEM 619.1613 MAINTAIN TRAFFIC SIGNAL EQUIPMENT.
17. THE CLEARANCES BETWEEN ANY SIGNAL EQUIPMENT AND UTILITY LINES SHALL BE 10' FOR PRIMARY, 2' FOR SECONDARY AND 1' FOR ALL OTHERS. SEE SHEET KT107-0101 FOR UTILITY RELOCATIONS.
18. IF SOFT CLAY OR ORGANIC DEPOSITS ARE ENCOUNTERED DURING THE FOOTING AUGERING/DIGGING OPERATION, OR IF AUGERING/DIGGING IS UNDERTAKEN IN AREAS HAVING A HIGH WATER TABLE, THE CONTRACTOR SHALL CONSULT THE ENGINEER-IN-CHARGE.
19. CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES (OVERHEAO AND UNDERGROUND) ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AND PROVIDE THOSE AGENCIES 72 HOURS NOTIFICATION. CONTRACTOR SHALL BE AWARE THAT OTHER UTILITIES (OVERHEAD AND/OR UNDERGROUND) NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE/SHE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICES.
20. PHASE 2 & 6 TO BE SET ON MIN. RECALL GREEN.
21. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL COORDINATE HIS WORK WITH UTILITY COMPANIES SO AS TO RESOLVE ANY POTENTIAL CONFLICTS.
22. FOR SIGNAL COORDINATION PURPOSES, CONTRACTOR TO PROVIDE BLUETREE MODEMS FOR EXISTING SIGNAL NUMBER 0-199 AND PROPOSED SIGNAL NUMBER 0-268. IF REQUIRED BY NYSDOT, AN ADDITIONAL MODEM IS TO BE PROVIDED TO PROPOSED SIGNAL AT CROSSROAD COURT.
23. THE PERMITTEE IS RESPONSIBLE FOR ELECTRIC SERVICE TO THE SIGNAL INCLUDING PAYMENT OF ENERGY CHARGES.
   - 23.1. NYSDOT WILL PROVIDE A SAMPLE POWER REQUEST. CALL THE TRAFFIC SIGNAL UNIT @845-437-3375 FOR A SAMPLE POWER REQUEST FORM AND ANY OTHER QUESTIONS REGARDING THIS.
   - 23.2. THE PERMITTEE OR THE ELECTRICAL CONTRACTOR RESPONSIBLE SHALL SUBMIT THE POWER REQUEST FOR APPROVAL TO NYSDOT TRAFFIC SIGNAL UNIT, ATTN: TRAFFIC SIGNAL ENGINEER, 4 BURNETT BLVD, POUGHKEEPSIE, NY 12603.
   - 23.3. NYSDOT MAY RETURN CORRECTIONS AND WILL ULTIMATELY SEND THE APPROVED POWER REQUEST TO PERMITTEE.
   - 23.4. THE PERMITTEE THAN SUBMITS THE APPROVED POWER REQUEST TO THE UTILITY COMPANY. PERMITTEE NEEDS TO COPY THE NYSOOT TRAFFIC SIGNAL ENGINEER ON THIS. THE TRAFFIC SIGNAL WILL NOT BE TURNED ON WITHOUT THE CONFIRMATION THAT THE POWER REQUEST WAS SUBMITTED AS PER THE APPROVED DETAILS.
24. CONTRACTOR TO SUPPLY AND INSTALL CELLULAR MODEM, ANTENNA AND POWER SUPPLY IN ACCORDANCE WITH THE NYSDOT APPROVED PRODUCT LIST FOR BROADBAND CONNECTIVITY. CATALOG CUTS TO BE PROVIDED TO NYSDOT FOR APPROVAL.

TABLE OF CLEARANCES

FROM \ TO	G	R ◄G	G ◄G	R ►G	G ►G	R
G	G	R/►Y	G/►Y	R/►G	G/►G	R
R ◄G	Y	R/►Y	Y/►G	X	X	R
	R	R	R/►G	X	X	R
G ◄G	G	X	X	X	X	R
	G	X	X	X	X	R
R ►G	Y	X	X	X	Y/►G	R
	R	X	X	X	R/►G	R
G ►G	G	X	X	R/►G	X	R
	G	X	X	R/►G	X	R
R	Y	R/►Y	Y/►R	R/►G	Y/►R	R
	R	R	R	R	R	R

TABLE OF OPERATION

FACE PHASE	1	2	3	4	5	6	7	8	9	PED1 ø4	PED2 ø6
ø1	R	R	R ◄G	R	R	R	R ►G	R	R	D.W.	D.W.
ø5	R ◄G	R	R	R	R	R	R ►G	R	R	D.W.	D.W.
ø1+ø5	R ◄G	R	R ◄G	R	R	R	R ►G	R	R	D.W.	D.W.
ø2	G	G	R	R	R	R	R	R	R	D.W.	WALK
ø6	R	R	G	G	G	R	R	R	R	D.W.	WALK
ø2+ø6	G	G	G	G	G	R	R	R	R	D.W.	WALK
ø4	R	R	R	R	R ►G	G	G	R	R	D.W	D.W
ø8	R	R	R	R	R	R	R	G	G	WALK	D.W
ø4+ø8	R	R	R	R	R	G	G	G	G	WALK	D.W
OVL1	R	R	R	R	R ►G	R	R	R	R	D.W	D.W
OVL2	R	R	R	R	R	R	R ►G	R	R	D.W.	D.W
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK

SIGNAL PLAN ITEM LIST

ITEM NO.	DESCRIPTION
206.03	CONDUIT EXCAVATION AND BACKFILL
655.8202011	ELECTRICAL SERVICE ENTRANCE
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION
680.510501	PULLBOX-RECTANGULAR, 26" x 18" REINFORCED CONCRETE
680.520104	CONDUIT, METAL STEEL, ZINC COATED, 1 ¼" DIA.
680.520106	CONDUIT, METAL STEEL, ZINC COATED, 2" DIA.
680.520203	TRAFFIC SIGNAL CONDUIT, FLEXIBLE, LIQUID TIGHT STEEL 1" DIA.
680.54	INDUCTANCE LOOP INSTALLATION
680.600826	TRAF. SIG. POLE-SPAN WIRE 8,000 LB, 25 FEET
680.600830	TRAF. SIG. POLE-SPAN WIRE 8,000 LB, 30 FEET
680.6812	TRAFFIC SIGNAL POLE - BRACKET MOUNT, 12'
680.7002	DUAL SIGNAL SPAN WIRE ASSEMBLY - WITH UPPER TETHER WIRE
680.71	SHIELDED LEAD-IN CABLE
680.72	INDUCTANCE LOOP WIRES
680.730514	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG.
680.731014	SIGNAL CABLE, 10 CONDUCTOR, 14 AWG.
680.731514	SIGNAL CABLE, 15 CONDUCTOR, 14 AWG.
680.731914	SIGNAL CABLE, 19 CONDUCTOR, 14 AWG.
680.80324515	FURNISH AND INSTALL MICROCOMPUTER (TYPE 2070) COMPLETE WITH CABINET
680.810101	TRAFFIC SIGNAL MODULE, RED BALL LED 12"
680.810103	TRAFFIC SIGNAL MODULE, YELLOW BALL LED 12"
680.810104	TRAFFIC SIGNAL MODULE, YELLOW ARROW LED 12"
680.810105	TRAFFIC SIGNAL MODULE, GREEN BALL LED 12"
680.810106	TRAFFIC SIGNAL MODULE, GREEN ARROW LED 12"
680.810107	TRAFFIC SIGNAL SECTION, TYPE I 12"
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY
680.8112	TRAFFIC SIGNAL BRACKET ASSEMBLY - 2 WAY
680.813103	PEDESTRIAN SIGNAL SECTION- TYPE I, 12"
680.813105	PEDESTRIAN SIGNAL MODULE- BI-MODAL HAND/MAN SYMBOL, 12"
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY
680.81500010	PEDESTRIAN BI-MODAL MAN/HAND COUNTDOWN TIMER MODULE
680.81990008	TRAFFIC SIGNAL BACKPLATE WITH YELLOW REFLECTIVE TAPE
680.8201	OVERHEAD SIGN ASSEMBLY, TYPE A
680.82300010	ADA COMPLIANT PEDESTRIAN PUSHBUTTON WITH LATCHING LED INDICATION
680.94997008	FURNISH AND INSTALL ELECTRICAL DISCONNECT GENERATOR TRANSFER SWITCH
680.95020615	SERVICE CABLE, 2 CONDUCTOR, 6 AWG.
SPECIAL	DIGI INTERNATIONAL WR44-L500-CE1-SF TRANSPORT WR44-LTE MULTI-CARRIER (40/30/20), 4ETH, RS 232, POWER CABLE, ANTENNAS, SEE NOTE 24

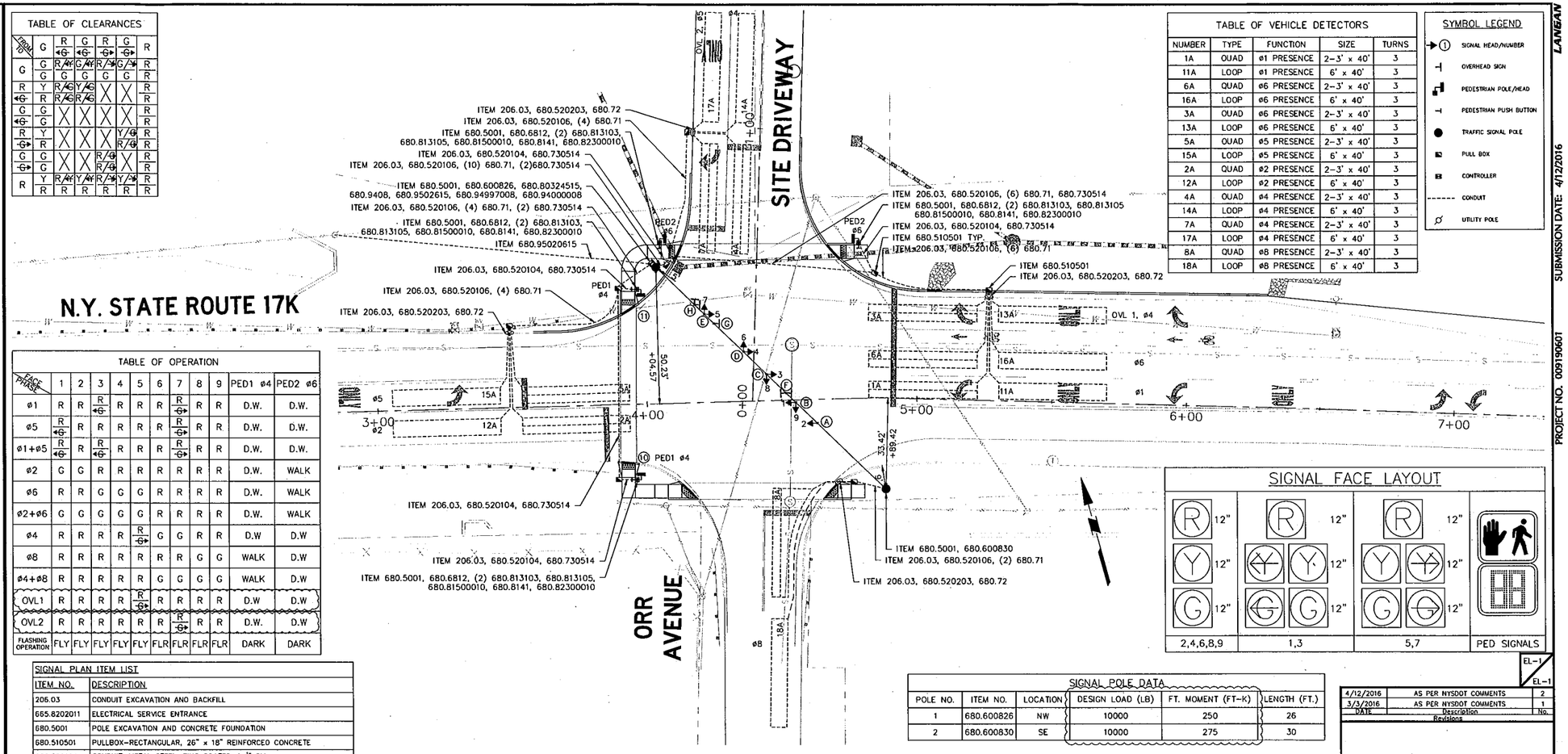


TABLE OF VEHICLE DETECTORS

NUMBER	TYPE	FUNCTION	SIZE	TURNS
1A	QUAD	ø1 PRESENCE	2-3' x 40'	3
11A	LOOP	ø1 PRESENCE	6' x 40'	3
6A	QUAD	ø6 PRESENCE	2-3' x 40'	3
16A	LOOP	ø6 PRESENCE	6' x 40'	3
3A	QUAD	ø5 PRESENCE	2-3' x 40'	3
13A	LOOP	ø5 PRESENCE	6' x 40'	3
5A	QUAD	ø5 PRESENCE	2-3' x 40'	3
15A	LOOP	ø5 PRESENCE	6' x 40'	3
2A	QUAD	ø2 PRESENCE	2-3' x 40'	3
12A	LOOP	ø2 PRESENCE	6' x 40'	3
4A	QUAD	ø4 PRESENCE	2-3' x 40'	3
14A	LOOP	ø4 PRESENCE	6' x 40'	3
7A	QUAD	ø4 PRESENCE	2-3' x 40'	3
17A	LOOP	ø4 PRESENCE	6' x 40'	3
8A	QUAD	ø8 PRESENCE	2-3' x 40'	3
18A	LOOP	ø8 PRESENCE	6' x 40'	3

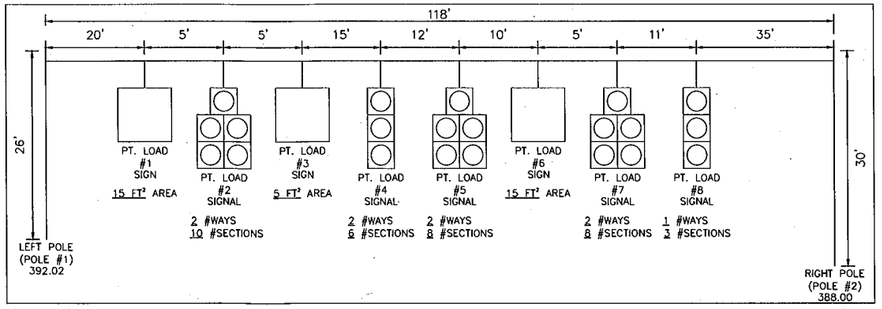
SYMBOL LEGEND

- SIGNAL HEAD/NUMBER
- OVERHEAD SIGN
- PEDESTRIAN POLE/HEAD
- PEDESTRIAN PUSH BUTTON
- TRAFFIC SIGNAL POLE
- PULL BOX
- CONTROLLER
- CONDUIT
- UTILITY POLE

SIGNAL FACE LAYOUT

SIGNAL POLE DATA

POLE NO.	ITEM NO.	LOCATION	DESIGN LOAD (LB)	FT. MOMENT (FT-K)	LENGTH (FT.)
1	680.600826	NW	10000	250	26
2	680.600830	SE	10000	275	30



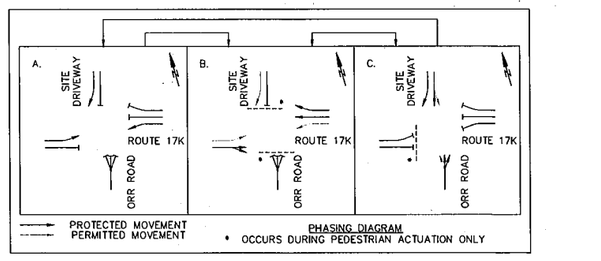
NO.	SIGN TEXT	MUTCD NO.	ITEM
F	ONLY	R3-5L 30" x 36"	680.8201
G	NO TURN ON RED	R10-11 24" x 30"	680.8201
H	ONLY	R3-5R 30" x 36"	680.8201

TABLE OF SIGNAL HEADS AND CABLE

HEAD	ITEMS	CABLE	ITEM
A	680.8111, 680.810101, 680.810103, 680.810105, (3)680.810107, 680.81990008	14-10C-A-X/X	680.731014
B	680.8112, (2)680.810101, (2)680.810103, 680.810104 (2)680.810105, 680.810106, (8)680.810107, (2)680.81990008	14-15C-B-X/X	680.731514
C	680.8112, (2)680.810101, (2)680.810103, 680.810104 (2)680.810105, 680.810106, (8)680.810107, (2)680.81990008	14-15C-C-X/X	680.731514
D	680.8112, (2)680.810101, (2)680.810103, (2)680.810105, (6)680.810107, (2)680.81990008	14-15C-D-X/X	680.731514
E	680.8112, (2)680.810101, (2)680.810103, (2)680.810104, (2)680.810105, (2)680.810106, (10)680.810107, (2)680.81990008	14-19C-E-X/X	680.731914

OVERHEAD SIGNS

F	NYSDOT MUTCD SIGN NO. R3-5L	(2)680.8201
G	NYSDOT MUTCD SIGN NO. R10-11	680.8201
H	NYSDOT MUTCD SIGN NO. R3-5R	(2)680.8201



4/12/2016	AS PER NYSDOT COMMENTS	2
3/3/2016	AS PER NYSDOT COMMENTS	1
DATE	Description Revisions	No.

4/12/16

NAME KARL A. PEHNKE DATE

PROFESSIONAL ENGINEER NY Lic. No. 066801

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. d.b.a. Langan Engineering, Environmental, Surveying and Landscape Architecture, G.P.C. Langan Engineering and Environmental Services, Inc. Langan CT, Inc. Langan Stamford LLC Collectively known as Langan

Project

MATRIX BUSINESS PARK AT NEWBURGH

SECTION # 95, BLOCK # 1, LOT # 79

TOWN OF NEWBURGH

ORANGE COUNTY NEW YORK

Drawing Title

TRAFFIC SIGNAL PLAN: ROUTE 17K & ORR AVENUE/SITE DRIVEWAY O-268

Project No. 009190601	Drawing No.
Date 4/12/2016	KT701 0101
Scale 1"=20'	
Drn. By ME	
Chkd. By KAP	Sheet 21 of 78

EL-1

EL-1

LANGAN

SUBMISSION DATE: 4/12/2016

PROJECT NO. 009190601

Filename: \langan.com\data\EP\data\009190601\cadd data - 9190601\sheetfiles\Traffic\009190601-KT701-0101.dwg Date: 4/12/2016 Time: 10:15 User: mericson Style Table: Langan.stb Layout: EL-1

3268

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green	3	10		5	3	10		5
Gap, Ext	2	3		2	2	3		2
Max 1	15	45		20	15	45		20
Max 2								
Yel Clearance	5	5	3.5	5	5	5	3.5	5
Red Clearance	2	2	1.5	2	2	2	1.5	2
Walk				7		7		
Ped Clearance				20		17		
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable	ON	ON		ON	ON	ON		ON
Min Recall		ON				ON		
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay				7		7		

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	105	10	1	1	13					25					37				
2	105	10	2	1	14					26					38				
3					15					27					39				
4					16					28					40				
5					17					29					41				
6					18					30					42				
7					19					31					43				
8					20					32					44				
9					21					33					45				
10					22					34					46				
11					23					35					47				
12					24					36					48				

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor									13	Coor								
	2																		
2	Coor									14	Coor								
	2																		
3	Coor									15	Coor								
4	Coor									16	Coor								
5	Coor									17	Coor								
6	Coor									18	Coor								
7	Coor									19	Coor								
8	Coor									20	Coor								
9	Coor									21	Coor								
10	Coor									22	Coor								
11	Coor									23	Coor								
12	Coor									24	Coor								

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Enable
1	1	Red	ON
2	1	Green	ON
3	1	Red	OFF
4	1	Red	ON
5	2	Red	ON
6	2	Green	ON
7	2	Red	OFF
8	2	Red	ON

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	Float
Closed Loop	ON
Stop-in-Walk	OFF
Auto Reset	ON
Expand Splt	OFF
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

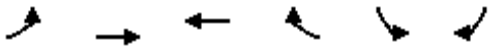
Auto Flash [1.4.1]

Auto Flash	PH OVER
Flash Yel	45
Flash Red	20

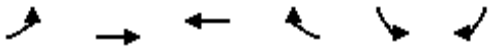
Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	ON
Start Flash(s)	0
Start AllRed(s)	0
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	0
Feature Profile	0
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

APPENDIX E
CAPACITY ANALYSIS PRINTOUTS



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	64	621	283	78	28	17
Future Volume (vph)	64	621	283	78	28	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	270			330	0	0
Storage Lanes	1			1	1	1
Taper Length (ft)	150				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1530	1810	1759	1442	1433	979
Flt Permitted	0.422				0.950	
Satd. Flow (perm)	679	1810	1759	1442	1433	979
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				86		19
Link Speed (mph)		40	40		25	
Link Distance (ft)		786	790		693	
Travel Time (s)		13.4	13.5		18.9	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	18%	5%	8%	12%	26%	65%
Adj. Flow (vph)	70	682	311	86	31	19
Shared Lane Traffic (%)						
Lane Group Flow (vph)	70	682	311	86	31	19
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(ft)		12	12		22	
Link Offset(ft)		0	0		0	
Crosswalk Width(ft)		30	30		30	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15			9	15	9
Number of Detectors	1	2	2	1	1	1
Detector Template	Left	Thru	Thru	Right	Left	Right
Leading Detector (ft)	20	100	100	20	20	20
Trailing Detector (ft)	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	6	20	20	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94	94			
Detector 2 Size(ft)		6	6			
Detector 2 Type		Cl+Ex	Cl+Ex			
Detector 2 Channel						
Detector 2 Extend (s)		0.0	0.0			
Turn Type	pm+pt	NA	NA	Perm	Prot	pm+ov
Protected Phases	6	1	5		3	6

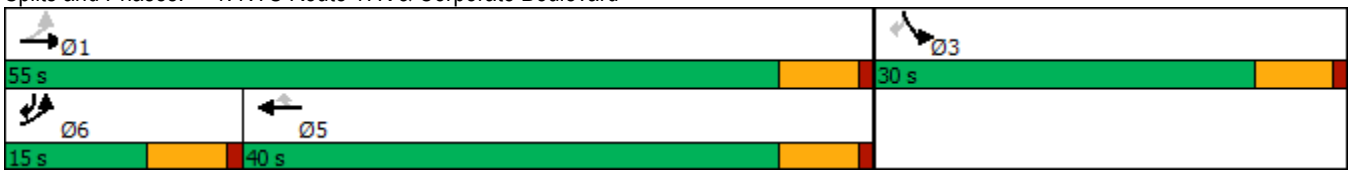


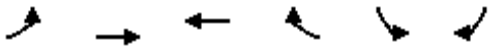
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Permitted Phases	1			5		3
Detector Phase	6	1	5	5	3	6
Switch Phase						
Minimum Initial (s)	3.0	10.0	10.0	10.0	6.0	3.0
Minimum Split (s)	9.0	16.0	16.0	16.0	12.0	9.0
Total Split (s)	15.0	55.0	40.0	40.0	30.0	15.0
Total Split (%)	17.6%	64.7%	47.1%	47.1%	35.3%	17.6%
Maximum Green (s)	9.0	49.0	34.0	34.0	24.0	9.0
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag	Lead		Lag	Lag		Lead
Lead-Lag Optimize?	Yes		Yes	Yes		Yes
Vehicle Extension (s)	2.0	2.0	3.0	3.0	2.0	2.0
Recall Mode	None	Min	None	None	None	None
Act Effct Green (s)	23.6	28.7	14.5	14.5	8.2	11.6
Actuated g/C Ratio	0.76	0.93	0.47	0.47	0.27	0.38
v/c Ratio	0.09	0.41	0.38	0.12	0.08	0.05
Control Delay	2.0	2.7	9.2	3.2	14.9	5.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	2.0	2.7	9.2	3.2	14.9	5.4
LOS	A	A	A	A	B	A
Approach Delay		2.7	7.9		11.3	
Approach LOS		A	A		B	
90th %ile Green (s)	8.0	33.3	19.3	19.3	7.7	8.0
90th %ile Term Code	Gap	Hold	Gap	Gap	Gap	Gap
70th %ile Green (s)	6.6	27.2	14.6	14.6	0.0	6.6
70th %ile Term Code	Gap	Hold	Gap	Gap	Skip	Gap
50th %ile Green (s)	5.5	21.5	10.0	10.0	0.0	5.5
50th %ile Term Code	Gap	Hold	Min	Min	Skip	Gap
30th %ile Green (s)	0.0	16.0	10.0	10.0	0.0	0.0
30th %ile Term Code	Dwell	Dwell	Min	Min	Skip	Dwell
10th %ile Green (s)	0.0	12.7	0.0	0.0	0.0	0.0
10th %ile Term Code	Dwell	Dwell	Skip	Skip	Skip	Dwell
Stops (vph)	12	111	160	15	25	7
Fuel Used(gal)	0	5	4	1	0	0
CO Emissions (g/hr)	34	332	299	56	24	10
NOx Emissions (g/hr)	7	65	58	11	5	2
VOC Emissions (g/hr)	8	77	69	13	6	2
Dilemma Vehicles (#)	0	16	43	0	0	0
Queue Length 50th (ft)	0	0	28	0	3	0
Queue Length 95th (ft)	16	170	128	21	27	9
Internal Link Dist (ft)		706	710		613	
Turn Bay Length (ft)	270			330		
Base Capacity (vph)	847	1789	1639	1350	1184	440
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0

Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Reduced v/c Ratio	0.08	0.38	0.19	0.06	0.03	0.04

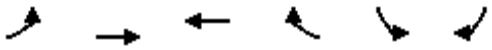
Intersection Summary			
Area Type:	Other		
Cycle Length: 85			
Actuated Cycle Length: 30.9			
Natural Cycle: 40			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.41			
Intersection Signal Delay: 4.8		Intersection LOS: A	
Intersection Capacity Utilization 46.0%		ICU Level of Service A	
Analysis Period (min) 15			
90th %ile Actuated Cycle: 53			
70th %ile Actuated Cycle: 33.2			
50th %ile Actuated Cycle: 27.5			
30th %ile Actuated Cycle: 22			
10th %ile Actuated Cycle: 18.7			

Splits and Phases: 1: NYS Route 17K & Corporate Boulevard

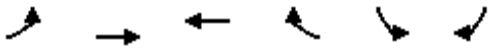




Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	20	617	775	29	90	47
Future Volume (vph)	20	617	775	29	90	47
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	270			330	0	0
Storage Lanes	1			1	1	1
Taper Length (ft)	150				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1245	1845	1863	1369	1719	1455
Flt Permitted	0.152				0.950	
Satd. Flow (perm)	199	1845	1863	1369	1719	1455
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				32		51
Link Speed (mph)		40	40		25	
Link Distance (ft)		786	790		693	
Travel Time (s)		13.4	13.5		18.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	45%	3%	2%	18%	5%	11%
Adj. Flow (vph)	22	671	842	32	98	51
Shared Lane Traffic (%)						
Lane Group Flow (vph)	22	671	842	32	98	51
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(ft)		12	12		22	
Link Offset(ft)		0	0		0	
Crosswalk Width(ft)		30	30		30	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15			9	15	9
Number of Detectors	1	2	2	1	1	1
Detector Template	Left	Thru	Thru	Right	Left	Right
Leading Detector (ft)	20	100	100	20	20	20
Trailing Detector (ft)	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	6	20	20	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94	94			
Detector 2 Size(ft)		6	6			
Detector 2 Type		Cl+Ex	Cl+Ex			
Detector 2 Channel						
Detector 2 Extend (s)		0.0	0.0			
Turn Type	pm+pt	NA	NA	Perm	Prot	pm+ov
Protected Phases	6	1	5		3	6



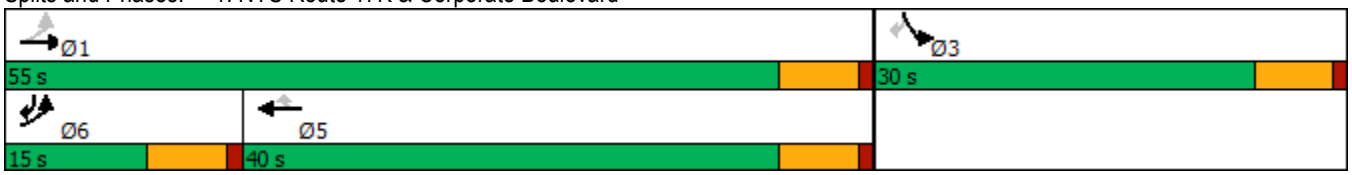
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Permitted Phases	1			5		3
Detector Phase	6	1	5	5	3	6
Switch Phase						
Minimum Initial (s)	3.0	10.0	10.0	10.0	6.0	3.0
Minimum Split (s)	9.0	16.0	16.0	16.0	12.0	9.0
Total Split (s)	15.0	55.0	40.0	40.0	30.0	15.0
Total Split (%)	17.6%	64.7%	47.1%	47.1%	35.3%	17.6%
Maximum Green (s)	9.0	49.0	34.0	34.0	24.0	9.0
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag	Lead		Lag	Lag		Lead
Lead-Lag Optimize?	Yes		Yes	Yes		Yes
Vehicle Extension (s)	2.0	2.0	3.0	3.0	2.0	2.0
Recall Mode	None	Min	None	None	None	None
Act Effct Green (s)	42.8	44.3	38.1	38.1	9.4	17.6
Actuated g/C Ratio	0.72	0.75	0.64	0.64	0.16	0.30
v/c Ratio	0.08	0.49	0.70	0.04	0.36	0.11
Control Delay	4.1	6.1	17.2	3.7	29.1	5.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	4.1	6.1	17.2	3.7	29.1	5.8
LOS	A	A	B	A	C	A
Approach Delay		6.0	16.7		21.1	
Approach LOS		A	B		C	
90th %ile Green (s)	6.5	46.5	34.0	34.0	11.6	6.5
90th %ile Term Code	Gap	Hold	Max	Max	Gap	Gap
70th %ile Green (s)	5.8	45.8	34.0	34.0	9.4	5.8
70th %ile Term Code	Gap	Hold	Max	Max	Gap	Gap
50th %ile Green (s)	5.3	45.3	34.0	34.0	8.1	5.3
50th %ile Term Code	Gap	Hold	Max	Max	Gap	Gap
30th %ile Green (s)	0.0	34.0	34.0	34.0	6.7	0.0
30th %ile Term Code	Skip	Hold	Max	Max	Gap	Skip
10th %ile Green (s)	0.0	34.0	34.0	34.0	0.0	0.0
10th %ile Term Code	Skip	Hold	Max	Max	Skip	Skip
Stops (vph)	6	246	494	6	76	10
Fuel Used(gal)	0	6	14	0	1	0
CO Emissions (g/hr)	13	452	946	21	95	26
NOx Emissions (g/hr)	2	88	184	4	18	5
VOC Emissions (g/hr)	3	105	219	5	22	6
Dilemma Vehicles (#)	0	41	51	0	0	0
Queue Length 50th (ft)	2	96	261	0	36	0
Queue Length 95th (ft)	8	194	#552	12	78	20
Internal Link Dist (ft)		706	710		613	
Turn Bay Length (ft)	270			330		
Base Capacity (vph)	329	1538	1199	892	760	562
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0

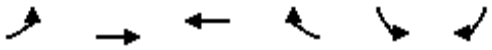


Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Reduced v/c Ratio	0.07	0.44	0.70	0.04	0.13	0.09

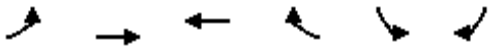
Intersection Summary			
Area Type:	Other		
Cycle Length: 85			
Actuated Cycle Length: 59.1			
Natural Cycle: 60			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.70			
Intersection Signal Delay: 12.8		Intersection LOS: B	
Intersection Capacity Utilization 54.1%		ICU Level of Service A	
Analysis Period (min) 15			
90th %ile Actuated Cycle: 70.1			
70th %ile Actuated Cycle: 67.2			
50th %ile Actuated Cycle: 65.4			
30th %ile Actuated Cycle: 52.7			
10th %ile Actuated Cycle: 40			
# 95th percentile volume exceeds capacity, queue may be longer.			
Queue shown is maximum after two cycles.			

Splits and Phases: 1: NYS Route 17K & Corporate Boulevard

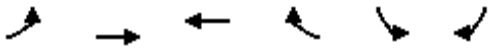




Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	64	662	297	78	28	17
Future Volume (vph)	64	662	297	78	28	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	270			330	0	0
Storage Lanes	1			1	1	1
Taper Length (ft)	150				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1530	1810	1759	1442	1433	979
Flt Permitted	0.419				0.950	
Satd. Flow (perm)	675	1810	1759	1442	1433	979
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				86		19
Link Speed (mph)		40	40		25	
Link Distance (ft)		786	790		693	
Travel Time (s)		13.4	13.5		18.9	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	18%	5%	8%	12%	26%	65%
Adj. Flow (vph)	70	727	326	86	31	19
Shared Lane Traffic (%)						
Lane Group Flow (vph)	70	727	326	86	31	19
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(ft)		12	12		22	
Link Offset(ft)		0	0		0	
Crosswalk Width(ft)		30	30		30	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15			9	15	9
Number of Detectors	1	2	2	1	1	1
Detector Template	Left	Thru	Thru	Right	Left	Right
Leading Detector (ft)	20	100	100	20	20	20
Trailing Detector (ft)	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	6	20	20	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94	94			
Detector 2 Size(ft)		6	6			
Detector 2 Type		Cl+Ex	Cl+Ex			
Detector 2 Channel						
Detector 2 Extend (s)		0.0	0.0			
Turn Type	pm+pt	NA	NA	Perm	Prot	pm+ov
Protected Phases	6	1	5		3	6



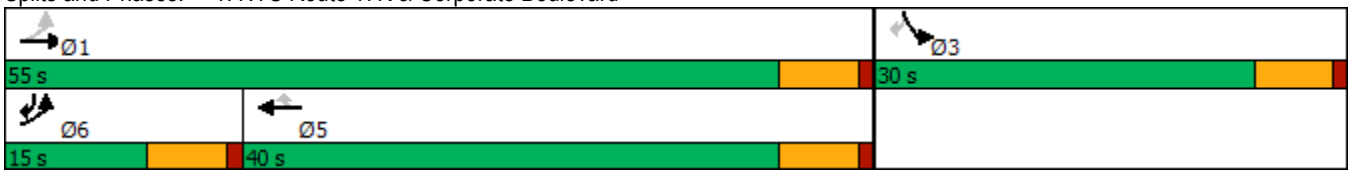
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Permitted Phases	1			5		3
Detector Phase	6	1	5	5	3	6
Switch Phase						
Minimum Initial (s)	3.0	10.0	10.0	10.0	6.0	3.0
Minimum Split (s)	9.0	16.0	16.0	16.0	12.0	9.0
Total Split (s)	15.0	55.0	40.0	40.0	30.0	15.0
Total Split (%)	17.6%	64.7%	47.1%	47.1%	35.3%	17.6%
Maximum Green (s)	9.0	49.0	34.0	34.0	24.0	9.0
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag	Lead		Lag	Lag		Lead
Lead-Lag Optimize?	Yes		Yes	Yes		Yes
Vehicle Extension (s)	2.0	2.0	3.0	3.0	2.0	2.0
Recall Mode	None	Min	None	None	None	None
Act Effct Green (s)	24.0	28.6	15.2	15.2	8.7	13.7
Actuated g/C Ratio	0.72	0.85	0.45	0.45	0.26	0.41
v/c Ratio	0.09	0.47	0.41	0.12	0.08	0.05
Control Delay	3.0	4.6	11.3	3.8	17.2	4.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	3.0	4.6	11.3	3.8	17.2	4.9
LOS	A	A	B	A	B	A
Approach Delay		4.5	9.7		12.5	
Approach LOS		A	A		B	
90th %ile Green (s)	8.1	34.2	20.1	20.1	8.1	8.1
90th %ile Term Code	Gap	Hold	Gap	Gap	Gap	Gap
70th %ile Green (s)	6.7	27.8	15.1	15.1	6.3	6.7
70th %ile Term Code	Gap	Hold	Gap	Gap	Gap	Gap
50th %ile Green (s)	5.6	21.7	10.1	10.1	0.0	5.6
50th %ile Term Code	Gap	Hold	Gap	Gap	Skip	Gap
30th %ile Green (s)	0.0	15.7	10.0	10.0	0.0	0.0
30th %ile Term Code	Dwell	Dwell	Min	Min	Skip	Dwell
10th %ile Green (s)	0.0	11.8	0.0	0.0	0.0	0.0
10th %ile Term Code	Dwell	Dwell	Skip	Skip	Skip	Dwell
Stops (vph)	16	216	180	15	25	6
Fuel Used(gal)	1	6	5	1	0	0
CO Emissions (g/hr)	38	439	331	56	25	10
NOx Emissions (g/hr)	7	85	64	11	5	2
VOC Emissions (g/hr)	9	102	77	13	6	2
Dilemma Vehicles (#)	0	33	42	0	0	0
Queue Length 50th (ft)	0	0	30	0	3	0
Queue Length 95th (ft)	17	195	136	21	28	9
Internal Link Dist (ft)		706	710		613	
Turn Bay Length (ft)	270			330		
Base Capacity (vph)	802	1781	1549	1280	1119	477
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0

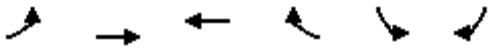


Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Reduced v/c Ratio	0.09	0.41	0.21	0.07	0.03	0.04

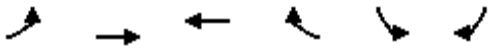
Intersection Summary			
Area Type:	Other		
Cycle Length: 85			
Actuated Cycle Length: 33.5			
Natural Cycle: 40			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.47			
Intersection Signal Delay: 6.5		Intersection LOS: A	
Intersection Capacity Utilization 48.2%		ICU Level of Service A	
Analysis Period (min) 15			
90th %ile Actuated Cycle: 54.3			
70th %ile Actuated Cycle: 46.1			
50th %ile Actuated Cycle: 27.7			
30th %ile Actuated Cycle: 21.7			
10th %ile Actuated Cycle: 17.8			

Splits and Phases: 1: NYS Route 17K & Corporate Boulevard





Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	20	628	830	29	90	47
Future Volume (vph)	20	628	830	29	90	47
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	270			330	0	0
Storage Lanes	1			1	1	1
Taper Length (ft)	150				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1245	1845	1863	1369	1719	1455
Flt Permitted	0.117				0.950	
Satd. Flow (perm)	153	1845	1863	1369	1719	1455
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				32		51
Link Speed (mph)		40	40		25	
Link Distance (ft)		786	790		693	
Travel Time (s)		13.4	13.5		18.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	45%	3%	2%	18%	5%	11%
Adj. Flow (vph)	22	683	902	32	98	51
Shared Lane Traffic (%)						
Lane Group Flow (vph)	22	683	902	32	98	51
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(ft)		12	12		22	
Link Offset(ft)		0	0		0	
Crosswalk Width(ft)		30	30		30	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15			9	15	9
Number of Detectors	1	2	2	1	1	1
Detector Template	Left	Thru	Thru	Right	Left	Right
Leading Detector (ft)	20	100	100	20	20	20
Trailing Detector (ft)	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	6	20	20	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94	94			
Detector 2 Size(ft)		6	6			
Detector 2 Type		Cl+Ex	Cl+Ex			
Detector 2 Channel						
Detector 2 Extend (s)		0.0	0.0			
Turn Type	pm+pt	NA	NA	Perm	Prot	pm+ov
Protected Phases	6	1	5		3	6

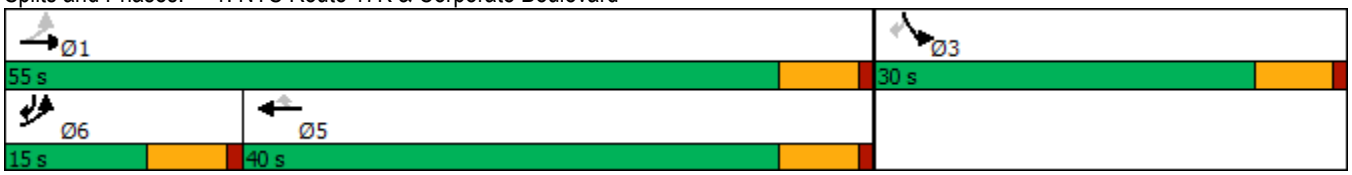


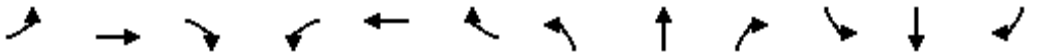
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Permitted Phases	1			5		3
Detector Phase	6	1	5	5	3	6
Switch Phase						
Minimum Initial (s)	3.0	10.0	10.0	10.0	6.0	3.0
Minimum Split (s)	9.0	16.0	16.0	16.0	12.0	9.0
Total Split (s)	15.0	55.0	40.0	40.0	30.0	15.0
Total Split (%)	17.6%	64.7%	47.1%	47.1%	35.3%	17.6%
Maximum Green (s)	9.0	49.0	34.0	34.0	24.0	9.0
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag	Lead		Lag	Lag		Lead
Lead-Lag Optimize?	Yes		Yes	Yes		Yes
Vehicle Extension (s)	2.0	2.0	3.0	3.0	2.0	2.0
Recall Mode	None	Min	None	None	None	None
Act Effct Green (s)	42.8	44.3	38.1	38.1	9.4	17.6
Actuated g/C Ratio	0.72	0.75	0.64	0.64	0.16	0.30
v/c Ratio	0.10	0.49	0.75	0.04	0.36	0.11
Control Delay	4.3	6.2	19.3	3.7	29.0	5.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	4.3	6.2	19.3	3.7	29.0	5.8
LOS	A	A	B	A	C	A
Approach Delay		6.1	18.8		21.1	
Approach LOS		A	B		C	
90th %ile Green (s)	6.4	46.4	34.0	34.0	11.6	6.4
90th %ile Term Code	Gap	Hold	Max	Max	Gap	Gap
70th %ile Green (s)	5.8	45.8	34.0	34.0	9.4	5.8
70th %ile Term Code	Gap	Hold	Max	Max	Gap	Gap
50th %ile Green (s)	5.3	45.3	34.0	34.0	8.1	5.3
50th %ile Term Code	Gap	Hold	Max	Max	Gap	Gap
30th %ile Green (s)	0.0	34.0	34.0	34.0	6.7	0.0
30th %ile Term Code	Skip	Hold	Max	Max	Gap	Skip
10th %ile Green (s)	0.0	34.0	34.0	34.0	0.0	0.0
10th %ile Term Code	Skip	Hold	Max	Max	Skip	Skip
Stops (vph)	6	254	525	6	76	10
Fuel Used(gal)	0	7	15	0	1	0
CO Emissions (g/hr)	13	464	1035	21	95	26
NOx Emissions (g/hr)	2	90	201	4	18	5
VOC Emissions (g/hr)	3	108	240	5	22	6
Dilemma Vehicles (#)	0	42	53	0	0	0
Queue Length 50th (ft)	2	99	297	0	36	0
Queue Length 95th (ft)	8	200	#609	12	78	20
Internal Link Dist (ft)		706	710		613	
Turn Bay Length (ft)	270			330		
Base Capacity (vph)	303	1539	1200	893	760	562
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0

Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Reduced v/c Ratio	0.07	0.44	0.75	0.04	0.13	0.09

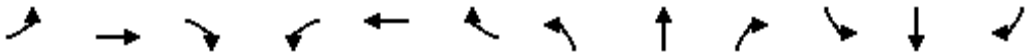
Intersection Summary			
Area Type:	Other		
Cycle Length: 85			
Actuated Cycle Length: 59.1			
Natural Cycle: 60			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.75			
Intersection Signal Delay: 14.0		Intersection LOS: B	
Intersection Capacity Utilization 57.0%		ICU Level of Service B	
Analysis Period (min) 15			
90th %ile Actuated Cycle: 70			
70th %ile Actuated Cycle: 67.2			
50th %ile Actuated Cycle: 65.4			
30th %ile Actuated Cycle: 52.7			
10th %ile Actuated Cycle: 40			
# 95th percentile volume exceeds capacity, queue may be longer.			
Queue shown is maximum after two cycles.			

Splits and Phases: 1: NYS Route 17K & Corporate Boulevard





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	605	39	69	358	13	2	0	16	4	0	1
Future Volume (vph)	5	605	39	69	358	13	2	0	16	4	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		375	175		0	0		0	0		0
Storage Lanes	1		1	1		0	0		1	0		0
Taper Length (ft)	80			50			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.995				0.850		0.973	
Flt Protected	0.950			0.950				0.950			0.962	
Satd. Flow (prot)	1805	1792	1568	1752	1739	0	0	1805	1524	0	1778	0
Flt Permitted	0.525			0.351				0.976			0.878	
Satd. Flow (perm)	998	1792	1568	647	1739	0	0	1854	1524	0	1623	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			187		2				114		114	
Link Speed (mph)		40			40			25			25	
Link Distance (ft)		527			480			402			393	
Travel Time (s)		9.0			8.2			11.0			10.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	6%	3%	3%	9%	0%	0%	0%	6%	0%	0%	0%
Adj. Flow (vph)	5	658	42	75	389	14	2	0	17	4	0	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	5	658	42	75	403	0	0	2	17	0	5	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2	1	1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6	20	20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA	Free	pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			3			7	

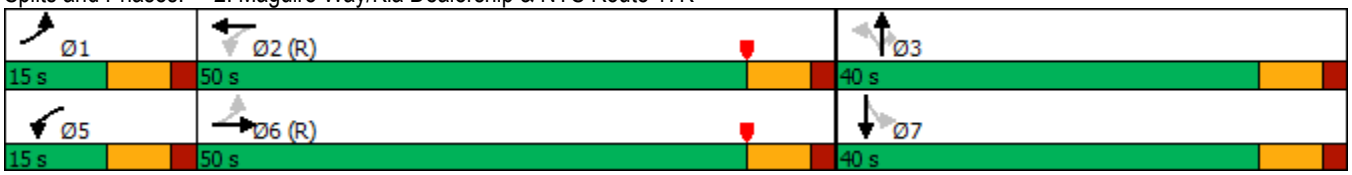


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	6		Free	2			3		3	7		
Detector Phase	1	6		5	2		3	3	3	7	7	
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	10.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	10.0	15.0		10.0	17.0		12.0	12.0	12.0	12.0	12.0	
Total Split (s)	15.0	50.0		15.0	50.0		40.0	40.0	40.0	40.0	40.0	
Total Split (%)	14.3%	47.6%		14.3%	47.6%		38.1%	38.1%	38.1%	38.1%	38.1%	
Maximum Green (s)	8.0	43.0		8.0	43.0		33.0	33.0	33.0	33.0	33.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0	5.0	5.0	5.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0			-2.0	-2.0		-2.0	
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0	5.0		5.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Max		None	C-Max		None	None	None	None	None	
Act Effct Green (s)	90.7	86.4	105.0	94.4	95.8			7.1	7.1		7.1	
Actuated g/C Ratio	0.86	0.82	1.00	0.90	0.91			0.07	0.07		0.07	
v/c Ratio	0.01	0.45	0.03	0.11	0.25			0.02	0.08		0.02	
Control Delay	1.4	5.5	0.0	0.9	1.3			46.0	0.8		0.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0			0.0	0.0		0.0	
Total Delay	1.4	5.5	0.0	0.9	1.3			46.0	0.8		0.2	
LOS	A	A	A	A	A			D	A		A	
Approach Delay		5.1			1.2			5.5			0.2	
Approach LOS		A			A			A			A	
90th %ile Green (s)	4.7	72.6		6.0	73.9		5.4	5.4	5.4	5.4	5.4	
90th %ile Term Code	Gap	Coord		Gap	Coord		Gap	Gap	Gap	Hold	Hold	
70th %ile Green (s)	0.0	73.5		5.5	86.0		5.0	5.0	5.0	5.0	5.0	
70th %ile Term Code	Skip	Coord		Gap	Coord		Min	Min	Min	Hold	Hold	
50th %ile Green (s)	0.0	86.5		4.5	98.0		0.0	0.0	0.0	0.0	0.0	
50th %ile Term Code	Skip	Coord		Gap	Coord		Skip	Skip	Skip	Skip	Skip	
30th %ile Green (s)	0.0	86.5		4.5	98.0		0.0	0.0	0.0	0.0	0.0	
30th %ile Term Code	Skip	Coord		Gap	Coord		Skip	Skip	Skip	Skip	Skip	
10th %ile Green (s)	0.0	98.0		0.0	98.0		0.0	0.0	0.0	0.0	0.0	
10th %ile Term Code	Skip	Coord		Skip	Coord		Skip	Skip	Skip	Skip	Skip	
Stops (vph)	1	181	0	4	14			3	0		0	
Fuel Used(gal)	0	5	0	0	1			0	0		0	
CO Emissions (g/hr)	2	323	10	19	101			3	4		1	
NOx Emissions (g/hr)	0	63	2	4	20			1	1		0	
VOC Emissions (g/hr)	0	75	2	4	23			1	1		0	
Dilemma Vehicles (#)	0	25	0	0	6			0	0		0	
Queue Length 50th (ft)	0	76	0	0	0			1	0		0	
Queue Length 95th (ft)	2	254	0	12	52			9	0		0	
Internal Link Dist (ft)		447			400			322			313	
Turn Bay Length (ft)	100		375	175								
Base Capacity (vph)	964	1475	1568	689	1586			618	584		617	
Starvation Cap Reductn	0	0	0	0	79			0	0		0	
Spillback Cap Reductn	0	0	0	0	0			0	0		0	
Storage Cap Reductn	0	0	0	0	0			0	0		0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.01	0.45	0.03	0.11	0.27			0.00	0.03		0.01	

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow, Master Intersection			
Natural Cycle: 55			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.45			
Intersection Signal Delay: 3.6		Intersection LOS: A	
Intersection Capacity Utilization 52.7%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 2: Maguire Way/Kia Dealership & NYS Route 17K



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	703	0	2	730	10	55	0	152	18	0	19
Future Volume (vph)	4	703	0	2	730	10	55	0	152	18	0	19
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		375	175		0	0		0	0		0
Storage Lanes	1		1	1		0	0		1	0		0
Taper Length (ft)	80			50			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.998				0.850		0.931	
Flt Protected	0.950			0.950				0.950			0.976	
Satd. Flow (prot)	1805	1845	1900	1805	1839	0	0	1805	1615	0	1683	0
Flt Permitted	0.288			0.308				0.732			0.816	
Satd. Flow (perm)	547	1845	1900	585	1839	0	0	1391	1615	0	1407	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					1				160		114	
Link Speed (mph)		40			40			25			25	
Link Distance (ft)		527			480			402			393	
Travel Time (s)		9.0			8.2			11.0			10.7	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	3%	0%	0%	3%	10%	0%	0%	0%	0%	0%	5%
Adj. Flow (vph)	4	740	0	2	768	11	58	0	160	19	0	20
Shared Lane Traffic (%)												
Lane Group Flow (vph)	4	740	0	2	779	0	0	58	160	0	39	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2	1	1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6	20	20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA	Free	pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			3			7	

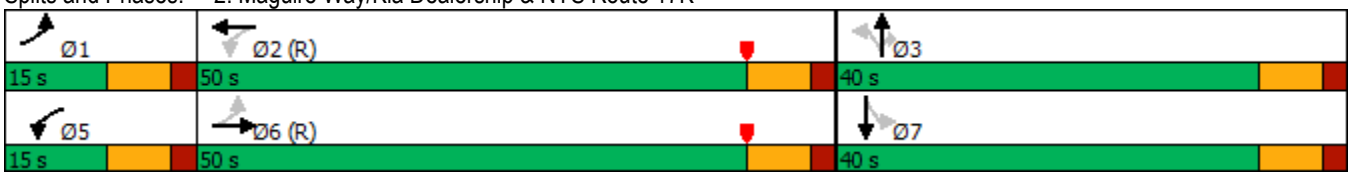
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	6		Free	2			3		3	7		
Detector Phase	1	6		5	2		3	3	3	7	7	
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	10.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	10.0	15.0		10.0	17.0		12.0	12.0	12.0	12.0	12.0	
Total Split (s)	15.0	50.0		15.0	50.0		40.0	40.0	40.0	40.0	40.0	
Total Split (%)	14.3%	47.6%		14.3%	47.6%		38.1%	38.1%	38.1%	38.1%	38.1%	
Maximum Green (s)	8.0	43.0		8.0	43.0		33.0	33.0	33.0	33.0	33.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0	5.0	5.0	5.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0			-2.0	-2.0		-2.0	
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0	5.0		5.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Max		None	C-Max		None	None	None	None	None	
Act Effct Green (s)	83.1	81.8		83.1	81.8			10.9	10.9		10.9	
Actuated g/C Ratio	0.79	0.78		0.79	0.78			0.10	0.10		0.10	
v/c Ratio	0.01	0.51		0.00	0.54			0.40	0.51		0.16	
Control Delay	2.8	7.1		3.0	4.7			51.3	12.9		1.4	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	2.8	7.1		3.0	4.7			51.3	12.9		1.4	
LOS	A	A		A	A			D	B		A	
Approach Delay		7.1			4.7			23.1			1.4	
Approach LOS		A			A			C			A	
90th %ile Green (s)	4.7	66.3		4.6	66.2		13.1	13.1	13.1	13.1	13.1	
90th %ile Term Code	Gap	Coord		Gap	Coord		Gap	Gap	Gap	Hold	Hold	
70th %ile Green (s)	0.0	80.5		0.0	80.5		10.5	10.5	10.5	10.5	10.5	
70th %ile Term Code	Skip	Coord		Skip	Coord		Gap	Gap	Gap	Hold	Hold	
50th %ile Green (s)	0.0	82.2		0.0	82.2		8.8	8.8	8.8	8.8	8.8	
50th %ile Term Code	Skip	Coord		Skip	Coord		Gap	Gap	Gap	Hold	Hold	
30th %ile Green (s)	0.0	83.9		0.0	83.9		7.1	7.1	7.1	7.1	7.1	
30th %ile Term Code	Skip	Coord		Skip	Coord		Gap	Gap	Gap	Hold	Hold	
10th %ile Green (s)	0.0	86.0		0.0	86.0		5.0	5.0	5.0	5.0	5.0	
10th %ile Term Code	Skip	Coord		Skip	Coord		Min	Min	Min	Hold	Hold	
Stops (vph)	1	259		0	133			50	24		0	
Fuel Used(gal)	0	6		0	4			1	1		0	
CO Emissions (g/hr)	2	424		1	309			67	71		9	
NOx Emissions (g/hr)	0	83		0	60			13	14		2	
VOC Emissions (g/hr)	0	98		0	72			15	16		2	
Dilemma Vehicles (#)	0	33		0	35			0	0		0	
Queue Length 50th (ft)	1	127		0	99			37	0		0	
Queue Length 95th (ft)	3	377		m0	124			75	58		0	
Internal Link Dist (ft)		447			400			322			313	
Turn Bay Length (ft)	100			175								
Base Capacity (vph)	556	1437		582	1432			463	645		545	
Starvation Cap Reductn	0	0		0	25			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	

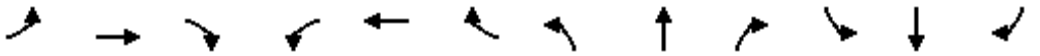
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.01	0.51		0.00	0.55			0.13	0.25		0.07	

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow, Master Intersection			
Natural Cycle: 60			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.54			
Intersection Signal Delay: 7.9		Intersection LOS: A	
Intersection Capacity Utilization 63.1%		ICU Level of Service B	
Analysis Period (min) 15			

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Maguire Way/Kia Dealership & NYS Route 17K





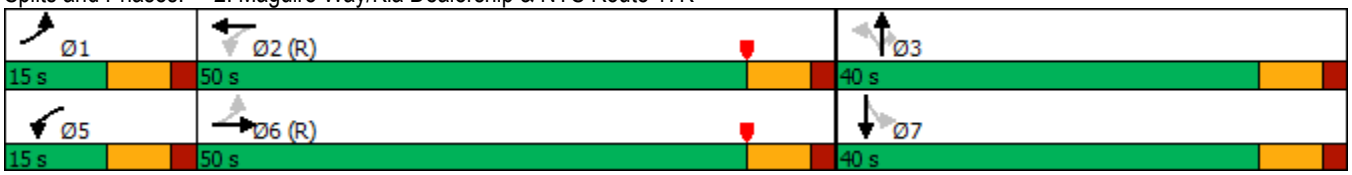
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	615	39	69	418	13	2	0	16	4	0	1
Future Volume (vph)	5	615	39	69	418	13	2	0	16	4	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		375	175		0	0		0	0		0
Storage Lanes	1		1	1		0	0		1	0		0
Taper Length (ft)	80			50			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.996				0.850		0.973	
Flt Protected	0.950			0.950				0.950			0.962	
Satd. Flow (prot)	1805	1792	1568	1752	1756	0	0	1805	1524	0	1778	0
Flt Permitted	0.495			0.346				0.976			0.878	
Satd. Flow (perm)	940	1792	1568	638	1756	0	0	1854	1524	0	1623	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			187		2				114		114	
Link Speed (mph)		40			40			25			25	
Link Distance (ft)		527			480			402			393	
Travel Time (s)		9.0			8.2			11.0			10.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	6%	3%	3%	8%	0%	0%	0%	6%	0%	0%	0%
Adj. Flow (vph)	5	668	42	75	454	14	2	0	17	4	0	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	5	668	42	75	468	0	0	2	17	0	5	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2	1	1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6	20	20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA	Free	pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			3			7	

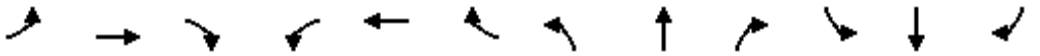
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	6		Free	2			3		3	7		
Detector Phase	1	6		5	2		3	3	3	7	7	
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	10.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	10.0	15.0		10.0	17.0		12.0	12.0	12.0	12.0	12.0	
Total Split (s)	15.0	50.0		15.0	50.0		40.0	40.0	40.0	40.0	40.0	
Total Split (%)	14.3%	47.6%		14.3%	47.6%		38.1%	38.1%	38.1%	38.1%	38.1%	
Maximum Green (s)	8.0	43.0		8.0	43.0		33.0	33.0	33.0	33.0	33.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0	5.0	5.0	5.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0			-2.0	-2.0		-2.0	
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0	5.0		5.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Max		None	C-Max		None	None	None	None	None	
Act Effct Green (s)	90.7	86.4	105.0	94.4	95.8			7.1	7.1		7.1	
Actuated g/C Ratio	0.86	0.82	1.00	0.90	0.91			0.07	0.07		0.07	
v/c Ratio	0.01	0.45	0.03	0.12	0.29			0.02	0.08		0.02	
Control Delay	1.4	5.5	0.0	1.0	1.4			46.0	0.8		0.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0			0.0	0.0		0.0	
Total Delay	1.4	5.5	0.0	1.0	1.4			46.0	0.8		0.2	
LOS	A	A	A	A	A			D	A		A	
Approach Delay		5.2			1.3			5.5			0.2	
Approach LOS		A			A			A			A	
90th %ile Green (s)	4.7	72.6		6.0	73.9		5.4	5.4	5.4	5.4	5.4	
90th %ile Term Code	Gap	Coord		Gap	Coord		Gap	Gap	Gap	Hold	Hold	
70th %ile Green (s)	0.0	73.5		5.5	86.0		5.0	5.0	5.0	5.0	5.0	
70th %ile Term Code	Skip	Coord		Gap	Coord		Min	Min	Min	Hold	Hold	
50th %ile Green (s)	0.0	86.5		4.5	98.0		0.0	0.0	0.0	0.0	0.0	
50th %ile Term Code	Skip	Coord		Gap	Coord		Skip	Skip	Skip	Skip	Skip	
30th %ile Green (s)	0.0	86.5		4.5	98.0		0.0	0.0	0.0	0.0	0.0	
30th %ile Term Code	Skip	Coord		Gap	Coord		Skip	Skip	Skip	Skip	Skip	
10th %ile Green (s)	0.0	98.0		0.0	98.0		0.0	0.0	0.0	0.0	0.0	
10th %ile Term Code	Skip	Coord		Skip	Coord		Skip	Skip	Skip	Skip	Skip	
Stops (vph)	1	187	0	4	17			3	0		0	
Fuel Used(gal)	0	5	0	0	2			0	0		0	
CO Emissions (g/hr)	2	331	10	19	118			3	4		1	
NOx Emissions (g/hr)	0	64	2	4	23			1	1		0	
VOC Emissions (g/hr)	0	77	2	4	27			1	1		0	
Dilemma Vehicles (#)	0	25	0	0	8			0	0		0	
Queue Length 50th (ft)	0	78	0	0	0			1	0		0	
Queue Length 95th (ft)	2	260	0	12	63			9	0		0	
Internal Link Dist (ft)		447			400			322			313	
Turn Bay Length (ft)	100		375	175								
Base Capacity (vph)	918	1475	1568	681	1602			618	584		617	
Starvation Cap Reductn	0	0	0	0	56			0	0		0	
Spillback Cap Reductn	0	0	0	0	0			0	0		0	
Storage Cap Reductn	0	0	0	0	0			0	0		0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.01	0.45	0.03	0.11	0.30			0.00	0.03		0.01	

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow, Master Intersection			
Natural Cycle: 55			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.45			
Intersection Signal Delay: 3.5		Intersection LOS: A	
Intersection Capacity Utilization 53.2%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 2: Maguire Way/Kia Dealership & NYS Route 17K





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	739	0	2	748	10	55	0	152	18	0	19
Future Volume (vph)	4	739	0	2	748	10	55	0	152	18	0	19
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		375	175		0	0		0	0		0
Storage Lanes	1		1	1		0	0		1	0		0
Taper Length (ft)	80			50			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.998				0.850		0.931	
Flt Protected	0.950			0.950				0.950			0.976	
Satd. Flow (prot)	1805	1845	1900	1805	1839	0	0	1805	1615	0	1683	0
Flt Permitted	0.278			0.289				0.732			0.816	
Satd. Flow (perm)	528	1845	1900	549	1839	0	0	1391	1615	0	1407	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					1				160		114	
Link Speed (mph)		40			40			25			25	
Link Distance (ft)		527			480			402			393	
Travel Time (s)		9.0			8.2			11.0			10.7	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	3%	0%	0%	3%	10%	0%	0%	0%	0%	0%	5%
Adj. Flow (vph)	4	778	0	2	787	11	58	0	160	19	0	20
Shared Lane Traffic (%)												
Lane Group Flow (vph)	4	778	0	2	798	0	0	58	160	0	39	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2	1	1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6	20	20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA	Free	pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			3			7	

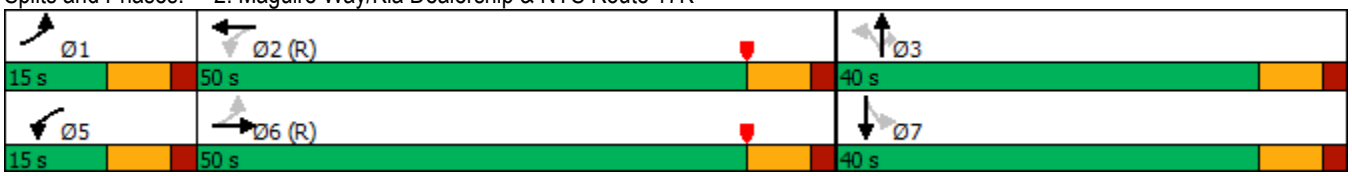
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	6		Free	2			3		3	7		
Detector Phase	1	6		5	2		3	3	3	7	7	
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	10.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	10.0	15.0		10.0	17.0		12.0	12.0	12.0	12.0	12.0	
Total Split (s)	15.0	50.0		15.0	50.0		40.0	40.0	40.0	40.0	40.0	
Total Split (%)	14.3%	47.6%		14.3%	47.6%		38.1%	38.1%	38.1%	38.1%	38.1%	
Maximum Green (s)	8.0	43.0		8.0	43.0		33.0	33.0	33.0	33.0	33.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0	5.0	5.0	5.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0			-2.0	-2.0		-2.0	
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0	5.0		5.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Max		None	C-Max		None	None	None	None	None	
Act Effct Green (s)	83.1	81.8		83.1	81.8			10.9	10.9		10.9	
Actuated g/C Ratio	0.79	0.78		0.79	0.78			0.10	0.10		0.10	
v/c Ratio	0.01	0.54		0.00	0.56			0.40	0.51		0.16	
Control Delay	2.8	7.5		3.0	4.8			51.3	12.9		1.4	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	2.8	7.5		3.0	4.8			51.3	12.9		1.4	
LOS	A	A		A	A			D	B		A	
Approach Delay		7.4			4.8			23.1			1.4	
Approach LOS		A			A			C			A	
90th %ile Green (s)	4.7	66.3		4.6	66.2		13.1	13.1	13.1	13.1	13.1	
90th %ile Term Code	Gap	Coord		Gap	Coord		Gap	Gap	Gap	Hold	Hold	
70th %ile Green (s)	0.0	80.5		0.0	80.5		10.5	10.5	10.5	10.5	10.5	
70th %ile Term Code	Skip	Coord		Skip	Coord		Gap	Gap	Gap	Hold	Hold	
50th %ile Green (s)	0.0	82.2		0.0	82.2		8.8	8.8	8.8	8.8	8.8	
50th %ile Term Code	Skip	Coord		Skip	Coord		Gap	Gap	Gap	Hold	Hold	
30th %ile Green (s)	0.0	83.9		0.0	83.9		7.1	7.1	7.1	7.1	7.1	
30th %ile Term Code	Skip	Coord		Skip	Coord		Gap	Gap	Gap	Hold	Hold	
10th %ile Green (s)	0.0	86.0		0.0	86.0		5.0	5.0	5.0	5.0	5.0	
10th %ile Term Code	Skip	Coord		Skip	Coord		Min	Min	Min	Hold	Hold	
Stops (vph)	1	285		0	137			50	24		0	
Fuel Used(gal)	0	7		0	5			1	1		0	
CO Emissions (g/hr)	2	459		1	318			67	71		9	
NOx Emissions (g/hr)	0	89		0	62			13	14		2	
VOC Emissions (g/hr)	0	106		0	74			15	16		2	
Dilemma Vehicles (#)	0	35		0	36			0	0		0	
Queue Length 50th (ft)	1	139		0	102			37	0		0	
Queue Length 95th (ft)	3	411		m0	127			75	58		0	
Internal Link Dist (ft)		447			400			322			313	
Turn Bay Length (ft)	100			175								
Base Capacity (vph)	543	1437		557	1432			463	645		545	
Starvation Cap Reductn	0	0		0	25			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	

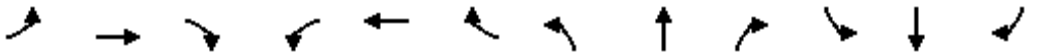
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.01	0.54		0.00	0.57			0.13	0.25		0.07	

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow, Master Intersection			
Natural Cycle: 60			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.56			
Intersection Signal Delay: 8.0		Intersection LOS: A	
Intersection Capacity Utilization 65.0%		ICU Level of Service C	
Analysis Period (min) 15			

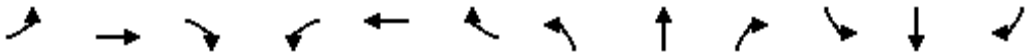
m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Maguire Way/Kia Dealership & NYS Route 17K





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	587	16	12	429	38	7	0	14	11	0	4
Future Volume (vph)	22	587	16	12	429	38	7	0	14	11	0	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	175		0	200		125	0		0	0		150
Storage Lanes	1		0	1		1	0		0	0		1
Taper Length (ft)	50			0			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.996				0.850		0.912				0.850
Flt Protected	0.950			0.950				0.983			0.950	
Satd. Flow (prot)	1530	1805	0	1805	1759	1538	0	1703	0	0	1656	1077
Flt Permitted	0.469			0.380				0.880			0.833	
Satd. Flow (perm)	755	1805	0	722	1759	1538	0	1525	0	0	1452	1077
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)		2						114				114
Link Speed (mph)		40			40			10			25	
Link Distance (ft)		480			849			511			517	
Travel Time (s)		8.2			14.5			34.8			14.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	18%	5%	0%	0%	8%	5%	0%	0%	0%	9%	0%	50%
Adj. Flow (vph)	24	638	17	13	466	41	8	0	15	12	0	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	24	655	0	13	466	41	0	23	0	0	12	4
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		20			20			20			35	
Two way Left Turn Lane					Yes							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA		pm+pt	NA	Perm	Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			8			4	



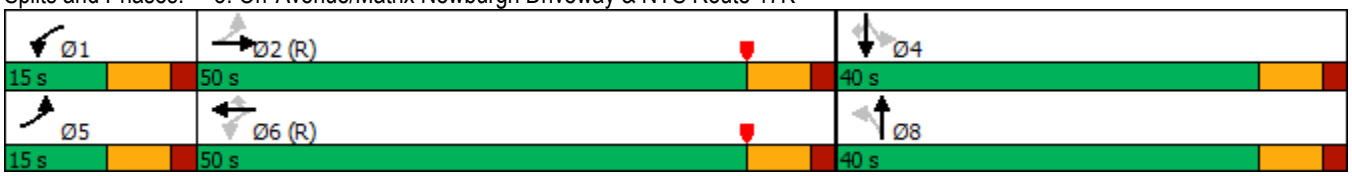
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	2			6		6	8			4		4
Detector Phase	5	2		1	6	6	8	8		4	4	4
Switch Phase												
Minimum Initial (s)	3.0	10.0		3.0	10.0	10.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	10.0	17.0		10.0	17.0	17.0	12.0	12.0		12.0	12.0	12.0
Total Split (s)	15.0	50.0		15.0	50.0	50.0	40.0	40.0		40.0	40.0	40.0
Total Split (%)	14.3%	47.6%		14.3%	47.6%	47.6%	38.1%	38.1%		38.1%	38.1%	38.1%
Maximum Green (s)	8.0	43.0		8.0	43.0	43.0	33.0	33.0		33.0	33.0	33.0
Yellow Time (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0	-2.0		-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0	5.0		5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes						
Vehicle Extension (s)	2.0	3.0		2.0	3.0	3.0	2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min	C-Min	None	None		None	None	None
Act Effct Green (s)	93.5	95.1		92.3	92.6	92.6		7.8			7.8	7.8
Actuated g/C Ratio	0.89	0.91		0.88	0.88	0.88		0.07			0.07	0.07
v/c Ratio	0.03	0.40		0.02	0.30	0.03		0.11			0.11	0.02
Control Delay	0.8	1.4		1.6	3.9	3.5		1.0			47.1	0.2
Queue Delay	0.0	0.0		0.0	0.0	0.0		0.0			0.0	0.0
Total Delay	0.8	1.4		1.6	3.9	3.5		1.0			47.1	0.2
LOS	A	A		A	A	A		A			D	A
Approach Delay		1.4			3.8			1.0			35.4	
Approach LOS		A			A			A			D	
90th %ile Green (s)	5.3	71.6		4.9	71.2	71.2	7.5	7.5		7.5	7.5	7.5
90th %ile Term Code	Gap	Coord		Gap	Coord	Coord	Hold	Hold		Gap	Gap	Gap
70th %ile Green (s)	4.9	84.7		0.0	72.8	72.8	6.3	6.3		6.3	6.3	6.3
70th %ile Term Code	Gap	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
50th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
50th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
30th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
30th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
10th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
10th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
Stops (vph)	1	27		3	87	7		0			12	0
Fuel Used(gal)	0	2		0	4	0		0			0	0
CO Emissions (g/hr)	6	168		7	256	22		9			14	1
NOx Emissions (g/hr)	1	33		1	50	4		2			3	0
VOC Emissions (g/hr)	1	39		2	59	5		2			3	0
Dilemma Vehicles (#)	0	14		0	10	0		0			0	0
Queue Length 50th (ft)	1	0		0	0	0		0			8	0
Queue Length 95th (ft)	m1	20		4	166	18		0			26	0
Internal Link Dist (ft)		400			769			431			437	
Turn Bay Length (ft)	175			200		125						150
Base Capacity (vph)	749	1634		746	1551	1356		584			484	435
Starvation Cap Reductn	0	8		0	0	0		0			0	0
Spillback Cap Reductn	0	0		0	0	0		0			0	0
Storage Cap Reductn	0	0		0	0	0		0			0	0

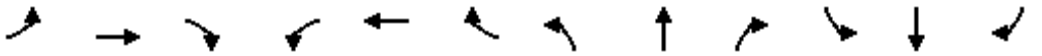
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.03	0.40		0.02	0.30	0.03		0.04			0.02	0.01

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 10 (10%), Referenced to phase 2:EBTL and 6:WBTL, Start of Yellow			
Natural Cycle: 55			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.40			
Intersection Signal Delay: 2.8		Intersection LOS: A	
Intersection Capacity Utilization 47.9%		ICU Level of Service A	
Analysis Period (min) 15			

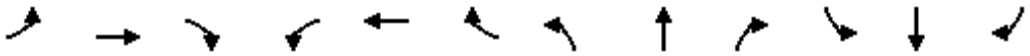
m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 3: Orr Avenue/Matrix Newburgh Driveway & NYS Route 17K





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	7	866	0	0	716	49	0	0	0	53	0	26
Future Volume (vph)	7	866	0	0	716	49	0	0	0	53	0	26
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	175		0	200		125	0		0	0		150
Storage Lanes	1		0	1		1	0		0	0		1
Taper Length (ft)	50			0			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected	0.950										0.950	
Satd. Flow (prot)	1805	1863	0	1900	1845	1583	0	1900	0	0	1770	1553
Flt Permitted	0.271										0.757	
Satd. Flow (perm)	515	1863	0	1900	1845	1583	0	1900	0	0	1410	1553
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)												114
Link Speed (mph)		40			40			10			25	
Link Distance (ft)		480			849			511			517	
Travel Time (s)		8.2			14.5			34.8			14.1	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	0%	2%	0%	0%	3%	2%	0%	0%	0%	2%	0%	4%
Adj. Flow (vph)	8	952	0	0	787	54	0	0	0	58	0	29
Shared Lane Traffic (%)												
Lane Group Flow (vph)	8	952	0	0	787	54	0	0	0	0	58	29
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		20			20			20			35	
Two way Left Turn Lane					Yes							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA		pm+pt	NA	Perm				Perm	NA	Perm
Protected Phases	5	2		1	6			8			4	



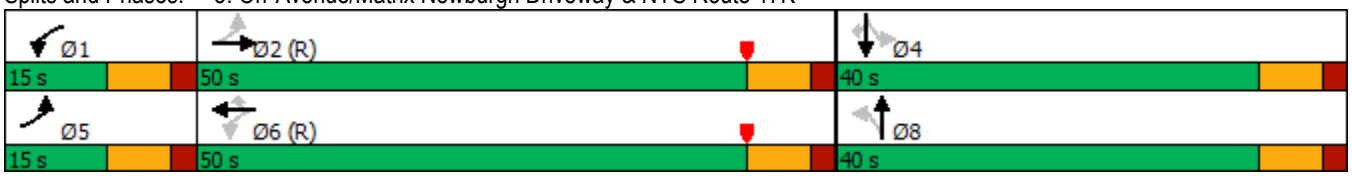
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	2			6		6	8			4		4
Detector Phase	5	2		1	6	6	8	8		4	4	4
Switch Phase												
Minimum Initial (s)	3.0	10.0		3.0	10.0	10.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	10.0	17.0		10.0	17.0	17.0	12.0	12.0		12.0	12.0	12.0
Total Split (s)	15.0	50.0		15.0	50.0	50.0	40.0	40.0		40.0	40.0	40.0
Total Split (%)	14.3%	47.6%		14.3%	47.6%	47.6%	38.1%	38.1%		38.1%	38.1%	38.1%
Maximum Green (s)	8.0	43.0		8.0	43.0	43.0	33.0	33.0		33.0	33.0	33.0
Yellow Time (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0	-2.0		-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0	5.0		5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes						
Vehicle Extension (s)	2.0	3.0		2.0	3.0	3.0	2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min	C-Min	None	None		None	None	None
Act Effct Green (s)	86.6	87.6			85.2	85.2					10.8	10.8
Actuated g/C Ratio	0.82	0.83			0.81	0.81					0.10	0.10
v/c Ratio	0.02	0.61			0.53	0.04					0.40	0.11
Control Delay	1.4	4.0			7.1	4.2					51.2	0.8
Queue Delay	0.0	0.0			0.0	0.0					0.0	0.0
Total Delay	1.4	4.0			7.1	4.2					51.2	0.8
LOS	A	A			A	A					D	A
Approach Delay		4.0			6.9						34.4	
Approach LOS		A			A						C	
90th %ile Green (s)	4.9	78.0		0.0	66.1	66.1	13.0	13.0		13.0	13.0	13.0
90th %ile Term Code	Gap	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
70th %ile Green (s)	0.0	80.5		0.0	80.5	80.5	10.5	10.5		10.5	10.5	10.5
70th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
50th %ile Green (s)	0.0	82.3		0.0	82.3	82.3	8.7	8.7		8.7	8.7	8.7
50th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
30th %ile Green (s)	0.0	84.0		0.0	84.0	84.0	7.0	7.0		7.0	7.0	7.0
30th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
10th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
10th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
Stops (vph)	1	224			258	13					48	0
Fuel Used(gal)	0	6			8	0					1	0
CO Emissions (g/hr)	2	400			538	32					68	8
NOx Emissions (g/hr)	0	78			105	6					13	2
VOC Emissions (g/hr)	1	93			125	7					16	2
Dilemma Vehicles (#)	0	8			29	0					0	0
Queue Length 50th (ft)	0	26			140	6					37	0
Queue Length 95th (ft)	m1	84			422	26					75	0
Internal Link Dist (ft)		400			769			431			437	
Turn Bay Length (ft)	175					125						150
Base Capacity (vph)	547	1553			1496	1284					470	593
Starvation Cap Reductn	0	28			0	0					0	0
Spillback Cap Reductn	0	0			0	0					0	0
Storage Cap Reductn	0	0			0	0					0	0

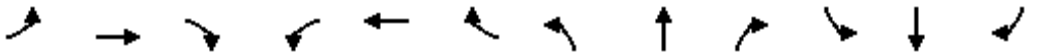
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.01	0.62			0.53	0.04					0.12	0.05

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 10 (10%), Referenced to phase 2:EBTL and 6:WBTL, Start of Yellow			
Natural Cycle: 60			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.61			
Intersection Signal Delay: 6.7		Intersection LOS: A	
Intersection Capacity Utilization 58.1%		ICU Level of Service B	
Analysis Period (min) 15			

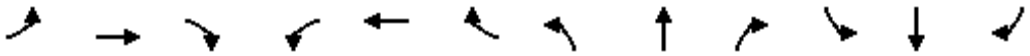
m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 3: Orr Avenue/Matrix Newburgh Driveway & NYS Route 17K





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	597	16	12	489	38	7	0	14	11	0	4
Future Volume (vph)	22	597	16	12	489	38	7	0	14	11	0	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	175		0	200		125	0		0	0		150
Storage Lanes	1		0	1		1	0		0	0		1
Taper Length (ft)	50			0			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.996				0.850		0.912				0.850
Flt Protected	0.950			0.950				0.983			0.950	
Satd. Flow (prot)	1530	1804	0	1805	1776	1538	0	1703	0	0	1656	1077
Flt Permitted	0.432			0.374				0.880			0.833	
Satd. Flow (perm)	696	1804	0	711	1776	1538	0	1525	0	0	1452	1077
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)		2						114				114
Link Speed (mph)		40			40			10			25	
Link Distance (ft)		480			849			511			517	
Travel Time (s)		8.2			14.5			34.8			14.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	18%	5%	0%	0%	7%	5%	0%	0%	0%	9%	0%	50%
Adj. Flow (vph)	24	649	17	13	532	41	8	0	15	12	0	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	24	666	0	13	532	41	0	23	0	0	12	4
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		20			20			20			35	
Two way Left Turn Lane					Yes							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA		pm+pt	NA	Perm	Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			8			4	



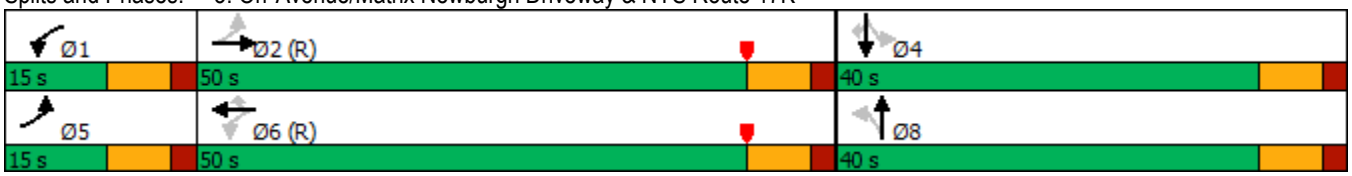
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	2			6		6	8			4		4
Detector Phase	5	2		1	6	6	8	8		4	4	4
Switch Phase												
Minimum Initial (s)	3.0	10.0		3.0	10.0	10.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	10.0	17.0		10.0	17.0	17.0	12.0	12.0		12.0	12.0	12.0
Total Split (s)	15.0	50.0		15.0	50.0	50.0	40.0	40.0		40.0	40.0	40.0
Total Split (%)	14.3%	47.6%		14.3%	47.6%	47.6%	38.1%	38.1%		38.1%	38.1%	38.1%
Maximum Green (s)	8.0	43.0		8.0	43.0	43.0	33.0	33.0		33.0	33.0	33.0
Yellow Time (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0	-2.0		-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0	5.0		5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes						
Vehicle Extension (s)	2.0	3.0		2.0	3.0	3.0	2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min	C-Min	None	None		None	None	None
Act Effct Green (s)	93.5	95.1		92.3	92.6	92.6		7.8			7.8	7.8
Actuated g/C Ratio	0.89	0.91		0.88	0.88	0.88		0.07			0.07	0.07
v/c Ratio	0.04	0.41		0.02	0.34	0.03		0.11			0.11	0.02
Control Delay	0.8	1.4		1.6	4.2	3.5		1.0			47.1	0.2
Queue Delay	0.0	0.0		0.0	0.0	0.0		0.0			0.0	0.0
Total Delay	0.8	1.4		1.6	4.2	3.5		1.0			47.1	0.2
LOS	A	A		A	A	A		A			D	A
Approach Delay		1.3			4.1			1.0			35.4	
Approach LOS		A			A			A			D	
90th %ile Green (s)	5.3	71.6		4.9	71.2	71.2	7.5	7.5		7.5	7.5	7.5
90th %ile Term Code	Gap	Coord		Gap	Coord	Coord	Hold	Hold		Gap	Gap	Gap
70th %ile Green (s)	4.9	84.7		0.0	72.8	72.8	6.3	6.3		6.3	6.3	6.3
70th %ile Term Code	Gap	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
50th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
50th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
30th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
30th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
10th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
10th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
Stops (vph)	1	31		3	102	7		0			12	0
Fuel Used(gal)	0	2		0	4	0		0			0	0
CO Emissions (g/hr)	6	173		7	296	22		9			14	1
NOx Emissions (g/hr)	1	34		1	58	4		2			3	0
VOC Emissions (g/hr)	1	40		2	69	5		2			3	0
Dilemma Vehicles (#)	0	12		0	12	0		0			0	0
Queue Length 50th (ft)	1	0		0	0	0		0			8	0
Queue Length 95th (ft)	m1	14		4	197	18		0			26	0
Internal Link Dist (ft)		400			769			431			437	
Turn Bay Length (ft)	175			200		125						150
Base Capacity (vph)	703	1633		738	1566	1356		584			484	435
Starvation Cap Reductn	0	8		0	0	0		0			0	0
Spillback Cap Reductn	0	0		0	0	0		0			0	0
Storage Cap Reductn	0	0		0	0	0		0			0	0

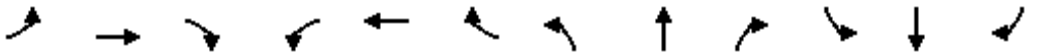
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.03	0.41		0.02	0.34	0.03		0.04			0.02	0.01

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 10 (10%), Referenced to phase 2:EBTL and 6:WBTL, Start of Yellow			
Natural Cycle: 55			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.41			
Intersection Signal Delay: 3.0		Intersection LOS: A	
Intersection Capacity Utilization 48.4%		ICU Level of Service A	
Analysis Period (min) 15			

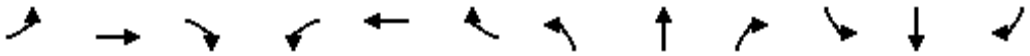
m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 3: Orr Avenue/Matrix Newburgh Driveway & NYS Route 17K





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	7	902	0	0	734	49	0	0	0	53	0	26
Future Volume (vph)	7	902	0	0	734	49	0	0	0	53	0	26
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	175		0	200		125	0		0	0		150
Storage Lanes	1		0	1		1	0		0	0		1
Taper Length (ft)	50			0			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected	0.950										0.950	
Satd. Flow (prot)	1805	1863	0	1900	1845	1583	0	1900	0	0	1770	1553
Flt Permitted	0.262										0.757	
Satd. Flow (perm)	498	1863	0	1900	1845	1583	0	1900	0	0	1410	1553
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)												114
Link Speed (mph)		40			40			10			25	
Link Distance (ft)		480			849			511			517	
Travel Time (s)		8.2			14.5			34.8			14.1	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	0%	2%	0%	0%	3%	2%	0%	0%	0%	2%	0%	4%
Adj. Flow (vph)	8	991	0	0	807	54	0	0	0	58	0	29
Shared Lane Traffic (%)												
Lane Group Flow (vph)	8	991	0	0	807	54	0	0	0	0	58	29
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		20			20			20			35	
Two way Left Turn Lane					Yes							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA		pm+pt	NA	Perm				Perm	NA	Perm
Protected Phases	5	2		1	6			8			4	



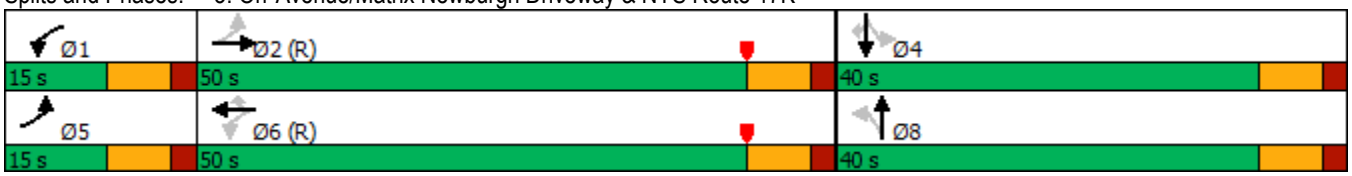
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Permitted Phases	2			6		6	8			4		4
Detector Phase	5	2		1	6	6	8	8		4	4	4
Switch Phase												
Minimum Initial (s)	3.0	10.0		3.0	10.0	10.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	10.0	17.0		10.0	17.0	17.0	12.0	12.0		12.0	12.0	12.0
Total Split (s)	15.0	50.0		15.0	50.0	50.0	40.0	40.0		40.0	40.0	40.0
Total Split (%)	14.3%	47.6%		14.3%	47.6%	47.6%	38.1%	38.1%		38.1%	38.1%	38.1%
Maximum Green (s)	8.0	43.0		8.0	43.0	43.0	33.0	33.0		33.0	33.0	33.0
Yellow Time (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0	-2.0		-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0	5.0		5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes						
Vehicle Extension (s)	2.0	3.0		2.0	3.0	3.0	2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min	C-Min	None	None		None	None	None
Act Effct Green (s)	86.6	87.6			85.2	85.2					10.8	10.8
Actuated g/C Ratio	0.82	0.83			0.81	0.81					0.10	0.10
v/c Ratio	0.02	0.64			0.54	0.04					0.40	0.11
Control Delay	1.3	4.2			7.3	4.2					51.2	0.8
Queue Delay	0.0	0.0			0.0	0.0					0.0	0.0
Total Delay	1.3	4.3			7.3	4.2					51.2	0.8
LOS	A	A			A	A					D	A
Approach Delay		4.2			7.1						34.4	
Approach LOS		A			A						C	
90th %ile Green (s)	4.9	78.0		0.0	66.1	66.1	13.0	13.0		13.0	13.0	13.0
90th %ile Term Code	Gap	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
70th %ile Green (s)	0.0	80.5		0.0	80.5	80.5	10.5	10.5		10.5	10.5	10.5
70th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
50th %ile Green (s)	0.0	82.3		0.0	82.3	82.3	8.7	8.7		8.7	8.7	8.7
50th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
30th %ile Green (s)	0.0	84.0		0.0	84.0	84.0	7.0	7.0		7.0	7.0	7.0
30th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Hold	Hold		Gap	Gap	Gap
10th %ile Green (s)	0.0	98.0		0.0	98.0	98.0	0.0	0.0		0.0	0.0	0.0
10th %ile Term Code	Skip	Coord		Skip	Coord	Coord	Skip	Skip		Skip	Skip	Skip
Stops (vph)	1	243			271	13					48	0
Fuel Used(gal)	0	6			8	0					1	0
CO Emissions (g/hr)	2	426			558	32					68	8
NOx Emissions (g/hr)	0	83			109	6					13	2
VOC Emissions (g/hr)	1	99			129	7					16	2
Dilemma Vehicles (#)	0	8			30	0					0	0
Queue Length 50th (ft)	0	26			147	6					37	0
Queue Length 95th (ft)	m1	84			442	26					75	0
Internal Link Dist (ft)		400			769			431			437	
Turn Bay Length (ft)	175					125						150
Base Capacity (vph)	534	1553			1496	1284					470	593
Starvation Cap Reductn	0	28			0	0					0	0
Spillback Cap Reductn	0	0			0	0					0	0
Storage Cap Reductn	0	0			0	0					0	0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Reduced v/c Ratio	0.01	0.65			0.54	0.04					0.12	0.05

Intersection Summary			
Area Type:	Other		
Cycle Length: 105			
Actuated Cycle Length: 105			
Offset: 10 (10%), Referenced to phase 2:EBTL and 6:WBTL, Start of Yellow			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.64			
Intersection Signal Delay: 6.9		Intersection LOS: A	
Intersection Capacity Utilization 60.0%		ICU Level of Service B	
Analysis Period (min) 15			

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 3: Orr Avenue/Matrix Newburgh Driveway & NYS Route 17K



Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	41	649	361	60	10	14
Future Vol, veh/h	41	649	361	60	10	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	175	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	5	8	2	20	14
Mvmt Flow	45	705	392	65	11	15

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	457	0	-	0	1220	425
Stage 1	-	-	-	-	425	-
Stage 2	-	-	-	-	795	-
Critical Hdwy	4.12	-	-	-	6.6	6.34
Critical Hdwy Stg 1	-	-	-	-	5.6	-
Critical Hdwy Stg 2	-	-	-	-	5.6	-
Follow-up Hdwy	2.218	-	-	-	3.68	3.426
Pot Cap-1 Maneuver	1104	-	-	-	183	604
Stage 1	-	-	-	-	623	-
Stage 2	-	-	-	-	415	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1104	-	-	-	175	604
Mov Cap-2 Maneuver	-	-	-	-	175	-
Stage 1	-	-	-	-	597	-
Stage 2	-	-	-	-	415	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	17.7
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1104	-	-	-	175	604
HCM Lane V/C Ratio	0.04	-	-	-	0.062	0.025
HCM Control Delay (s)	8.4	-	-	-	26.9	11.1
HCM Lane LOS	A	-	-	-	D	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2	0.1

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	11	707	804	18	36	55
Future Vol, veh/h	11	707	804	18	36	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	175	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	9	3	3	11	3	4
Mvmt Flow	12	768	874	20	39	60

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	894	0	-	0	1676	884
Stage 1	-	-	-	-	884	-
Stage 2	-	-	-	-	792	-
Critical Hdwy	4.19	-	-	-	6.43	6.24
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	2.281	-	-	-	3.527	3.336
Pot Cap-1 Maneuver	730	-	-	-	104	342
Stage 1	-	-	-	-	402	-
Stage 2	-	-	-	-	444	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	730	-	-	-	102	342
Mov Cap-2 Maneuver	-	-	-	-	102	-
Stage 1	-	-	-	-	396	-
Stage 2	-	-	-	-	444	-

Approach	EB	WB	SB
HCM Control Delay, s	0.2	0	34.8
HCM LOS			D

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	730	-	-	-	102	342
HCM Lane V/C Ratio	0.016	-	-	-	0.384	0.175
HCM Control Delay (s)	10	-	-	-	60.8	17.7
HCM Lane LOS	B	-	-	-	F	C
HCM 95th %tile Q(veh)	0.1	-	-	-	1.6	0.6

APPENDIX 17

February 4, 2022

Mr. Mark Willson
Scannell Properties
294 Grove Lane East, Suite 140
Wayzata, MN 55391

Cell: 612.600.4134
e-Mail: markw@scannellproperties.com

Subject: Acoustical Study
Proposed Commercial/Industrial Development
Newburgh, NY

Dear Mr. Willson,

At your request, we have completed an acoustical study of the proposed Commercial/Industrial Development on a vacant parcel at 124 Route 17K, Newburgh, New York. Presently, the facility awaits a tenant, but may be used for manufacturing, processing of goods, warehousing, or used as a laboratory, truck terminal, offices, or some combination of these. Figure 1 shows the approximate location of the proposed development. The nearest existing residences are approximately 300 feet south of the proposed building. The closest residence to the west is 1500 feet away. Traffic on I-84, I-87, and activities at Stewart International Airport south of Route 17K are the dominate sources of sound in the area.

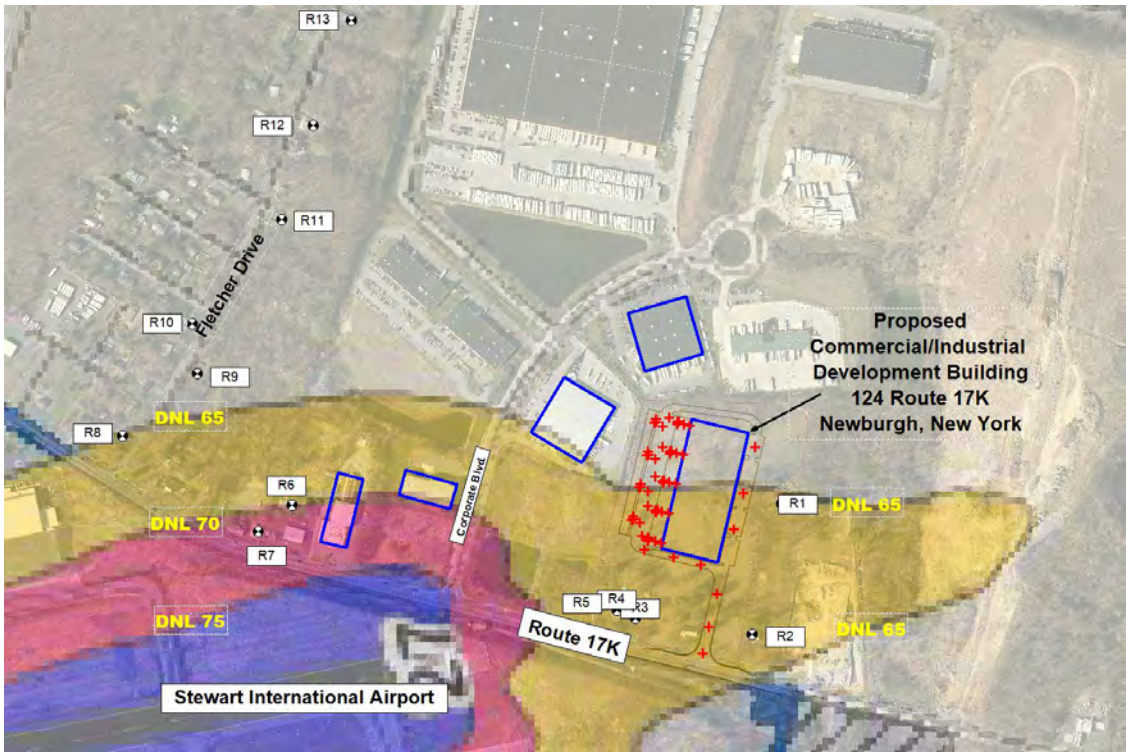


Figure 1. Proposed Commercial/Industrial Development
Newburgh, New York

Trucks may deliver to and from the development 24-hours per day. The development building is expected to have forklift conveyance for receiving, stocking, and forwarding shipment items by incoming and outgoing long-haul trucking, and may have manufacturing equipment. Building doors will typically be closed for security reasons minimizing sound transmitted to the community. Rooftop equipment will largely be for heating and ventilation only and located toward the center of the building. Any sound produced by rooftop equipment would be screened from nearby residences by roof edge shielding.

Major sources of on-site noise are trucks entering and leaving the property, over-the-road trucks dropping and removing trailers, and trailers being maneuvered by a switcher tractor. Also, among the primary noise sources studied are sound produced by back-up alarms and trailer disconnect impacts.

Noise Code Review

State of New York

New York State Department of Environment Conservation (NYSDEC) has developed a program policy document entitled "Assessing and Mitigating Noise Impacts" (DEP-00-1 dated 10-06-2000) (NYSDEC policy)[1], which serves as the state-wide guidance on evaluating noise impact. The policy is:

> *"…not a fixed rule; it does not create any enforceable right by any party using the Program Policy Memorandum"…. [It] "is designed to provide guidance and clarify program issues for Division staff to ensure compliance with statutory and regulatory requirements."*

As the NYSDEC policy does not set a fixed limit, it can be viewed as a design goal for sound produced by the proposed Commercial/Industrial Development. The NYSDEC policy design goal is defined as a margin over which the existing ambient sound level should not be exceeded to minimize the chance of community annoyance. Defining a noise goal in this fashion reflects the reality that a community's perception of intrusive sound is largely based on how it compares with sound in the existing environment prior to or in the absence of the project being considered.

Specifically, the NYSDEC policy recommends that:

> *In non-industrial settings the SPL should probably not exceed ambient noise by more than 6 dB(A) at the receptor. An increase of 6 dB(A) may cause complaints. There may be occasions where an increase in SPLs of greater than 6 dB(A) might be acceptable. The addition of any noise source, in a non-industrial setting, should not raise the ambient noise level above a maximum of 65 dB(A).*

The "ambient" sound level as used in the NYSDEC policy is usually interpreted as the A-weighted energy average sound level (L_{Aeq}). The ambient energy average sound level (L_{Aeq}) at nearest residences south of the project site, dominated by Steward International Airport aircraft operations, ranges between 60 and 65 dBA. Hence, the NYSDEC policy guideline is that proposed Development sound not exceed a range of 66 to 71 dBA, i.e., not exceed the existing level produced by aircraft operations by more than 6 dBA.

[1] https://www.dec.ny.gov/docs/permits_ej_operations_pdf/noise2000.pdf

Town of Newburgh, New York

Town of Newburgh Administrative Legislation Part II §125 Noise and Illumination Control Law[2] is intended to "*...to safeguard the right of its residents within the privacy of their residences to be free from intrusive unwanted sounds and lights*."

§125-5 maximum sound level; measurement standards.

A. Except for noise emanating from the operation of motor vehicles on public highways and private roads, the permissible intensity of noise for the foregoing between the hours from 8:00 a.m. to 10:00 p.m. and from 10:00 p.m. to 8:00 a.m., respectively, whether such noise is intermittent, impulsive, sporadic, or continuous, is as follows. The maximum sound-pressure level [A-scale reading of standard calibrated sound meter, instrument calibration frequency of 100 (sic) cycles per second (Hertz)]:

   (1) In the RR, AR, R-1, R-2 and R-3 Zoning Districts of the Town as shown on the most current Zoning Map on file at the Town Clerk's office:

      (a) From 8:00 a.m. to 10:00 p.m.: 65 decibels.

      (b) From 10:00 p.m. to 8:00 a.m.: 56 decibels.

   (2) In the B, IB and I Zoning Districts of the Town as shown on the most current Zoning Map on file at the Town Clerk's office:

      (a) From 8:00 a.m. to 10:00 p.m.: 80 decibels.

      (b) From 10:00 p.m. to 8:00 a.m.: 70 decibels.

§125-6 Noise from motor vehicles states: "*When operated on other property* [other than public roads]*, motor vehicles must conform to the standards set forth in § 125-5*."

Note that all residences likely to be impacted by sound produced by on-site activities are in the Interchange Business (IB) zone where day/night limits are 80/70 dBA, considerably higher than permitted in residential zones.

[2] https://ecode360.com/9611054

Zoning

A portion of the Town of Newburgh zoning map[3] is shown in Figure 2. The proposed site is within an Interchange Business zoning district. Article I Supplementary Regulations Applicable to All Districts 185-12(A) requires that "*Noise from a use or activity on a site as measured at the boundaries of the lot where such use is situated shall not exceed in intensity, occurrences and duration the noise of street traffic at adjoining streets according to the hour of the day and the day of the week*."

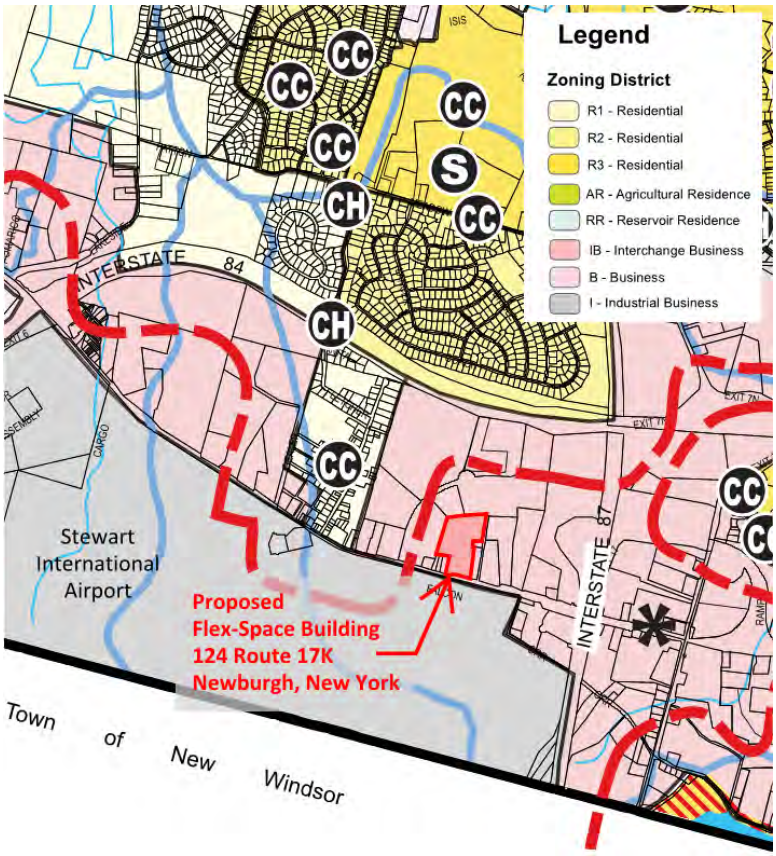


Figure 2. Town of Newburgh, New York zoning map
Proposed Commercial/Industrial Development, Newburgh, NY

Summary of Applicable Code Limits

The NYSDEC policy guideline is that proposed Development sound not exceed a range of 66 to 71 dBA, i.e., not exceed the existing level produced by aircraft operations by more than 6 dBA.

The Town of Newburgh limits sound at residences in an IB zone to day/night limits of 80/70 dBA. The Town defines day and night as 8:00 AM to 10:00 PM and from 10:00 PM to 8:00 AM.

[3] https://www.townofnewburgh.org/uppages/MORATORIUM%20ZONING%20MAP.PDF

Ambient Sound Levels

Analogous Location Measurements

In accordance with guidance provided by the NYSDEC program policy document, existing ambient sound levels were obtained for a nearby site in the northeast quadrant of the I-84 and I-87 intersection, equidistant from the interstate intersection as the proposed Commercial/Industrial Development. Data were measured by Ostergaard Acoustical Associates (OAA) and presented in their report[4] for a similar develop proposed for the analogously located site. Figure 1 of the OAA report, reproduced here as Figure 3 of this report, shows six locations. The average of sound levels measured by OAA at the four locations furthest from I-84 have been deemed approximately the same as that at the proposed Commercial/Industrial Development site and at nearest residences, in the absence of, or with negligible nighttime aircraft operations. The data measured by OAA is presented in Table 1.

From Table 1, the average of the lowest daily energy average sound levels at the analogous OAA locations 1-4 is 44 dBA. The corresponding NYSDEC program policy recommended limit for proposed Development sound, in the absence of aircraft activity at night, is an energy average sound level of 50 dBA.

Figure 1 — Google Earth image showing the proposed logistics center site and vicinity in the Town of Newburgh, NY. The site property line is approximately outlined in red. Ambient sound survey Locations also shown.

Figure 3. Figure excerpted from Ostergaard Acoustical Associates Report[5]

[4] Evaluation of Site Sound Emissions, Matrix Logistics Center at Newburgh, Revision 1 prepared by John T. Baldassano, Jr., Ostergaard Acoustical Associates, OAA File 4401A, 14 May 2021

[5] Ibid.

Location	Lowest L_{Aeq}			
	1	2	3	4
4/6/2021		46	47	
4/7/2021		42	46	
4/8/2021		42	46	
4/9/2021		39	43	
4/10/2021		38	41	
4/11/2021		42	41	
4/12/2021		41	40	
5/6/2021	46	47		43
5/7/2021	44	44		45
5/8/2021	41	41		44
5/9/2021	46	46		45
5/10/2021	48	48		45
5/11/2021	52	52		48
Highest		52		
Average		44		
Lowest		38		

Table 1. Energy average sound levels measured by Ostergaard Acoustical Associates

Aircraft Sound Levels

The Federal Aviation Administration (FAA) does not have jurisdiction over the project site, nor does it set aircraft noise exposure limits in the community. The FAA requires airports to determine contours of yearly day-night average sound level (YDNL) produced by aircraft operations. The day-night average sound level (DNL) is the 24-hour energy average sound level (i.e., the L_{Aeq}) where a 10-dB "penalty" is applied to sound occurring at night between 10:00 PM and 7:00 AM. The 10-dB penalty accounts for the increased sensitivity of a community to sound occurring at night. Airport noise contours are generally presented in 5-dB increments beginning with an YDNL of 65 dB. The SWF DNL contours in the vicinity of the site are overlaid with a Google Earth image in Figures 1, 5a, 5b and 6.

Note that there is no policy relationship between the FAA and NYSDEC. Residences nearest the proposed Commercial/Industrial Development fall into the YDNL range of aircraft noise of 65-70 dB. Assuming SWF aircraft activities are uniform hour-to-hour day and night, then the YDNL contours correspond to energy average sound levels of 59-64 dBA, corresponding to a range of NYSDEC guideline limit of 65-70 dBA.

If, instead, aircraft are predominantly a daytime occurrence, then the nighttime energy average sound level would then be approximately 44 dBA, leading to a lower NYSDEC design goal for on-site project sound transmitted to nearest neighbors of 50 dBA.

	NYSDEC L_{Aeq} (dBA)	Town of Newburgh L_{Amax} (dBA)
Residential Day	65*	80**
Residential Night	50***	70**

Notes:
* NYSDEC limit based on an aircraft YDNL of 65 dB.
**Permitted residential use in an IB zone.
***Presumes negligible nighttime airport use. Limit based on an ambient nighttime sound level (L_{Aeq}) of 44 dBA from OAA report.

Table 2. Summary of NYSDEC and Town of Newburgh limits
Proposed Commercial/Industrial Development, Newburgh, NY

Computer Modeling of Project Sound

Sound produced by equipment and activities of the proposed Commercial/Industrial Development have been estimated using a computer model of sound propagation from facility sources to representative study locations. The following is general information on the computer modeling technique used, as well as specific information for modeling project sound levels at nearby study locations.

Modeling of facility sound was completed using Cadna/A (Datakustik GmbH, Version 2021 MR 2, 32-bit). Cadna/A is a computer program that implements the sound propagation loss algorithms of ISO 9613-1 and ISO 9613-2 to estimate source sound levels at community receptor locations. In calculating sound levels at receptor locations, the Cadna model accounts for reductions in facility sound pressure levels associated with propagation distance, shielding by intervening structures and topography, and absorption of sound by the atmosphere and porous surfaces.

The Cadna model requires sound power levels for all sources modeled. Sound power level quantifies the amount of sound energy produced by a source and is expressed in decibels referenced to 1 picoWatt (pW or 10^{-12} watts). The distinction between "sound power" and "sound pressure" is as follows:

> *Sound power* is analogous to the power rating in watts of a light bulb.
>
> *Sound pressure* is analogous to the light intensity (perceived as brightness) at a given distance from a light bulb.

The shorter the distance from the bulb, the greater the light intensity or perceived brightness at a particular location. Conversely, the longer the distance from the bulb, the less the light intensity or perceived brightness at a particular location. Note that the bulb's power rating does not change with viewing distance from the bulb; however, the light intensity and apparent brightness do. Similarly, the sound power of a source does not change with distance from the source, but the sound pressure does.

Sound power level is determined from calibrated measurements of sound pressure combined with measurement distance and other conditions influencing sound propagation. Sound power levels for common commercial/industrial facility equipment and activities have been determined through sound

measurements made at a similar facility. The facility sound events discussed in this report have been selected for analysis as they are among the loudest sources expected. The sound power spectra used in computer modeling are provided in Table 3.

Name	Octave band center frequencies (Hz)									
	31.5	63	125	250	500	1000	2000	4000	8000	A-wt
Auto Pass-by 15 mph	42	68	73	74	78	80	78	73	66	84
Backup Alarm Tonal	54	68	78	79	89	107	91	86	77	107
Conveyor System Noise	93	91	90	87	88	88	86	82	78	93
Drop Frame	112	117	116	112	113	107	103	98	91	113
Truck Accelerating	117	127	121	110	104	106	105	105	108	114
Trailer Disconnect	105	110	113	115	111	112	106	99	93	115
Truck High Idle	100	104	102	103	103	99	97	92	85	105
Truck Pass-by	107	104	110	109	107	105	101	98	94	110

Table 3. Sound power spectra of facility sources [dB re: 1 pW]
Proposed Commercial/Industrial Development, Newburgh, NY

Reference Sound Pressure Levels

When sound propagates over hard, flat ground, the sound pressure level at 50 feet is typically 32 dB lower numerically than the sound power level. This relationship is known as divergence, and does not include other propagation losses such as screening by barriers, reflection and absorption, atmospheric effects, etc. The 50-foot sound pressure levels for sources in this study are presented in Figure 4. The octave band sound power levels used in computer modeling that correspond to the 50-foot A-weighted sound pressure levels in Figure 4 are from Table 3. Facility source characteristics—continuous, tonal, and impulsive—are identified in the insert legend of Figure 4 for each source type.

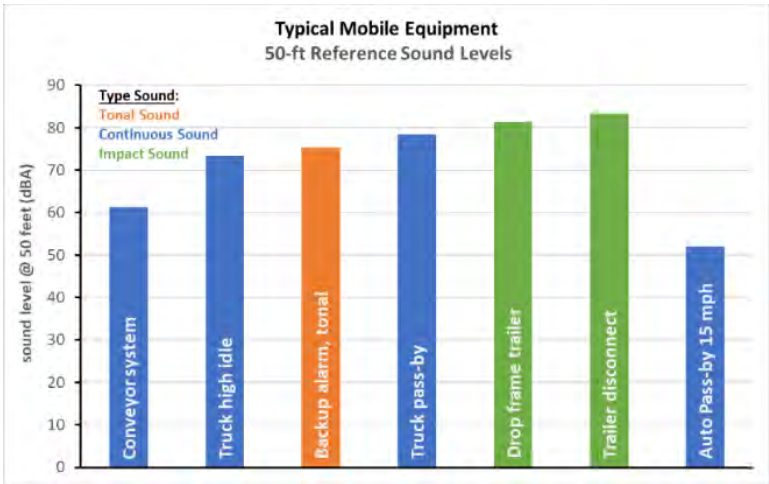


Figure 4. Reference source sound pressure levels at 50 feet
Proposed Commercial/Industrial Development, Newburgh, NY

Project Source and Community Receptor Locations

The modeling of receptor sound levels requires that the location of sources, receptors, and attenuating elements be defined. For this analysis, the source locations selected are those likely closest to residential receptors to develop a "worst-case" evaluation of the project's possible acoustic impact.

Figure 5a shows thirteen receptor locations R1-R13 used in facility computer modeling. Figure 5b shows eighteen facility sound source groups SL1-SL18 used in computer modeling. A source group is the location of one or more specific sources. For example, a source group may have a trailer disconnect, back-up alarm, and tractor acceleration, all occurring at about the same physical location on-site.

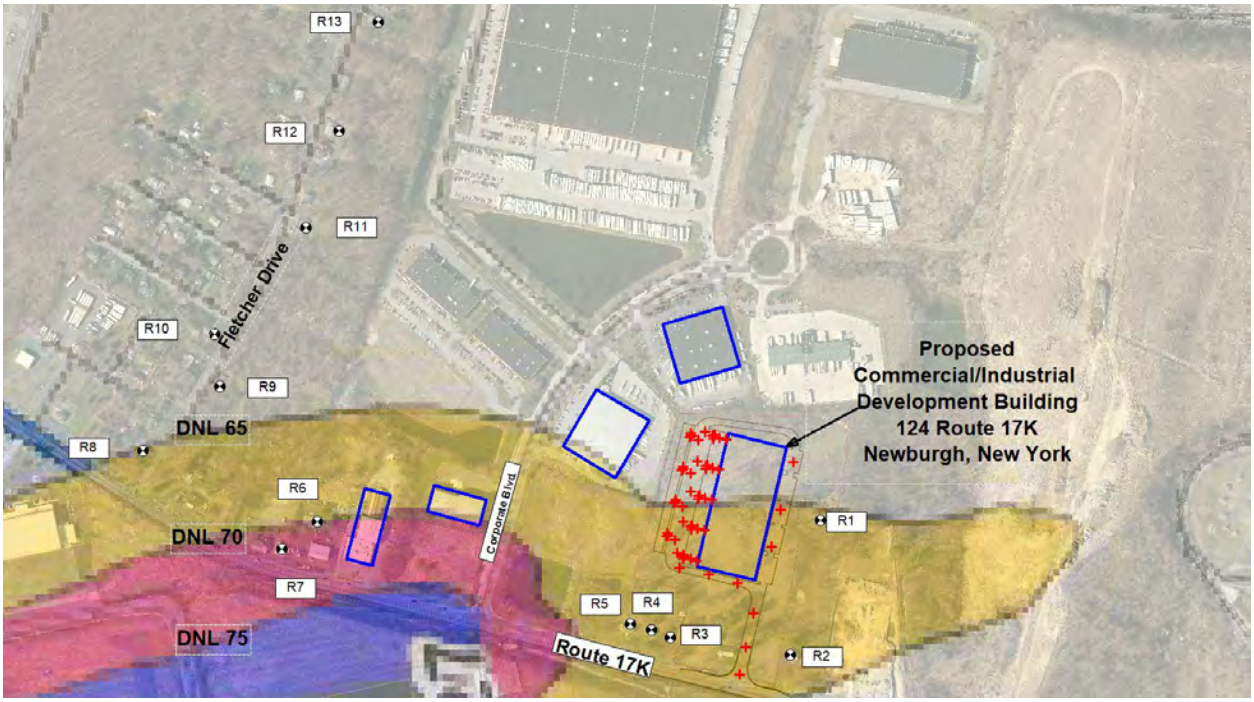


Figure 5a. Google Earth image showing representative receptor locations R1-R13 used in computer modeling and Stewart International Airport day-night average sound level (DNL) contours
Proposed Commercial/Industrial Development, Newburgh, NY

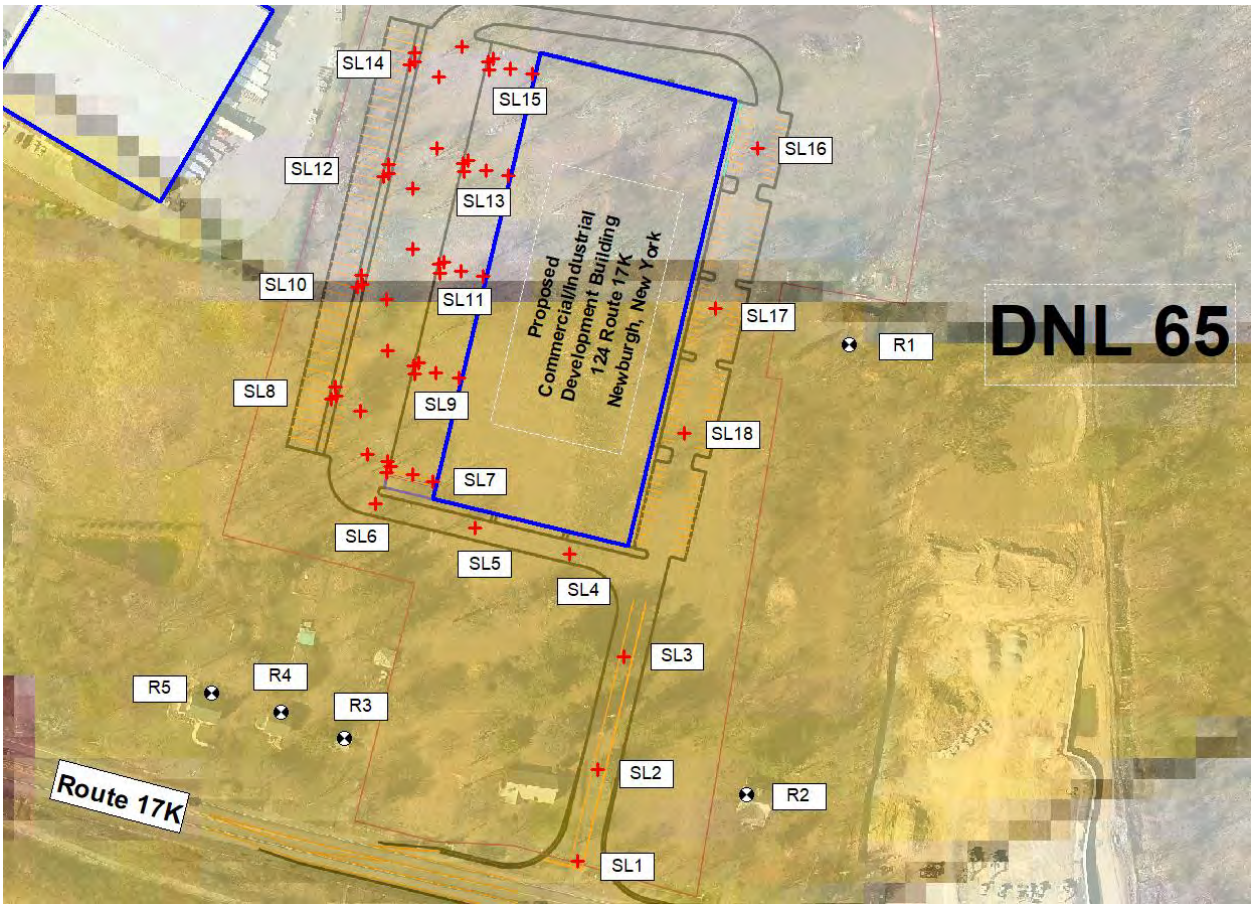


Figure 5b. Google Earth image showing representative sound source locations (SL1-SL18) used in computer modeling, and Stewart International Airport 65-dB DNL contour Proposed Commercial/Industrial Development, Newburgh, NY

Additional Computer Model Parameters

The primary sources of Project sound are trucks and trailer activity. The elevation above grade of emitting components of sound sources varies; a typical truck source elevation of 5 to 8 feet has been used for modeling in this study. Back-up alarms have been modeled at 3 feet above finished pavement.

As sound propagates through the environment, it may encounter boundaries which reflect or absorb some fraction of the incident sound. In our computer model, we have assumed that buildings, sound barrier walls, and the Project trucking yard and remote parking are all acoustically reflective, except where specifically noted. To account for multiple reflectors, two orders of reflection have been included in computer modeling.

Based on our field observations of the site, we have assigned a Ground Attenuation Coefficient (G) of 1.0 (sound absorbing surface) for ground conditions outside of the Project site and a G of 0.0 (sound reflecting surface) on the proposed Project site, in accordance with the ISO standard. Topography of the

surrounding area has been obtained from the United States Geological Survey (USGS) and included in computer modeling.

Residential receptors in the vicinity of the project site include one- and two-story structures. A receptor elevation of 7 feet above grade has been used in estimating sound levels at single-story receptors, and an elevation of 17 feet has been used for two-story receptors.

Analysis of Computer Modeling Results

No Sound Controls

Table 4 presents estimated maximum sound levels at residential receptor locations R1-R13. Sound levels presented in Table 4 are the highest for each on-site source type at each study location. These have been computed without sound mitigation measures such as barrier walls or acoustic enclosures. Note that all sound transmitted to residences in the Interchange Business zone conform to the Town of Newburgh Administrative Legislation limit of 80 dBA and 70 dBA during the day and at night.

Source	Newburgh Day/Night Limits	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13
Auto pass-by 15 mph	—	41	32	7	6	5	0	0	0	0	0	0	0	0
Backup Alarm Tonal	80/70	32	46	52	58	57	39	41	40	42	41	43	42	41
Conveyor	80/70	15	18	40	43	42	23	26	24	26	25	26	26	25
Drop Frame	80/70	36	51	61	63	61	45	47	46	48	47	48	48	47
Trailer Disconnect	80/70	41	57	63	64	64	47	49	48	49	49	50	50	49
Truck Accelerating*	80/70	52	66	61	60	56	39	41	38	37	36	36	35	34
Truck High Idle	80/70	29	46	51	55	53	36	38	38	39	39	40	39	38
Truck Pass-by	80/70	54	64	60	61	59	41	44	41	43	42	43	43	41

Note: All estimated levels comply with Town of Newburgh Part II §125 nighttime noise limits.
* Sound level produced as trucks enter onto a public road, Route 17K. Exceeds Federal Highway Administration (FHWA) levels used in Traffic Noise Model (TNM) 3.0 used for highway sound analysis.

Table 4. Estimated sound levels at residential study locations R1-R13, applicable Town of Newburgh IB zone day/night limits: no sound controls Proposed Commercial/Industrial Development, Newburgh, NY

Note from Table 4 that none of the estimated sound levels exceed the Town of Newburgh IB zone day/night limits.

Estimating energy average sound level requires tenant traffic information. The proposed project does not presently have a tenant with this type of information. However, for typically busy facilities with both day and night activities, energy average sound levels at nearby residences are typically 15 dBA less than the highest sound levels reached at residences. The highest facility sound level is estimated to be 64 dBA (excluding sound produced by trucks entering/existing Route 17K that cannot be screened by barriers without hampering safe view of oncoming traffic). The corresponding energy average sound level would be 49 dBA at nearest residences, below the NYSDEC Program Policy guideline of 50 dBA.

Sound Control Barriers

Nevertheless, two barriers as shown in Figure 5 are recommended for consideration. Barrier heights referenced to nearest finished pavement and lengths are as follows:

- West Barrier 13' tall x 415' long
- East Barrier 11' tall x 325' long

Estimated sound levels at R1-R13 with the barriers constructed are shown in Table 5.

Source	Newburgh Day/Night Limits	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13
Auto pass-by 15 mph	—	41	32	6	5	4	0	0	0	0	0	0	0	0
Backup Alarm Tonal	80/70	32	42	44	49	48	38	39	40	42	41	43	42	41
Conveyor	80/70	15	12	34	37	36	23	26	24	26	25	26	26	25
Drop Frame	80/70	36	39	54	57	56	45	46	46	48	47	48	48	47
Trailer Disconnect	80/70	41	52	54	56	57	47	48	48	49	49	50	50	49
Truck Accelerating	80/70	50	66	61	59	56	39	41	38	37	36	36	35	34
Truck High Idle	80/70	29	41	43	47	46	36	37	38	39	39	40	39	38
Truck Pass-by	80/70	53	58	58	57	54	41	42	41	43	42	43	43	41

Note: All estimated levels comply with Town of Newburgh Part II §125 nighttime noise limits.
* Sound level produced as trucks enter onto a public road, Route 17K. Exceeds Federal Highway Administration (FHWA) levels used in Traffic Noise Model (TNM) 3.0 used for highway sound analysis.

Table 5. Estimated sound levels at residential study locations R1-R13, applicable Town of Newburgh IB zone day/night limits: with sound control barriers (Figure 6) Proposed Commercial/Industrial Development, Newburgh, NY

None of the entries in Tables 4 and 5 exceed applicable Town limits for sound at residences in an IB zone. Note that sound power levels produced by the on-site sources modeled are variable. To be protective of the community, the highest expected levels to occur have been used. Hence, source sound levels reported in Tables 4 and 5 are higher than expected to regularly occur.

Barriers screening source sound have decreased the maximum sound level to 57 dBA (excluding sound produced by trucks entering/exiting Route 17K). This level corresponds to an energy average sound level of 42 dBA, well within the NYSDEC guideline of 50 dBA.

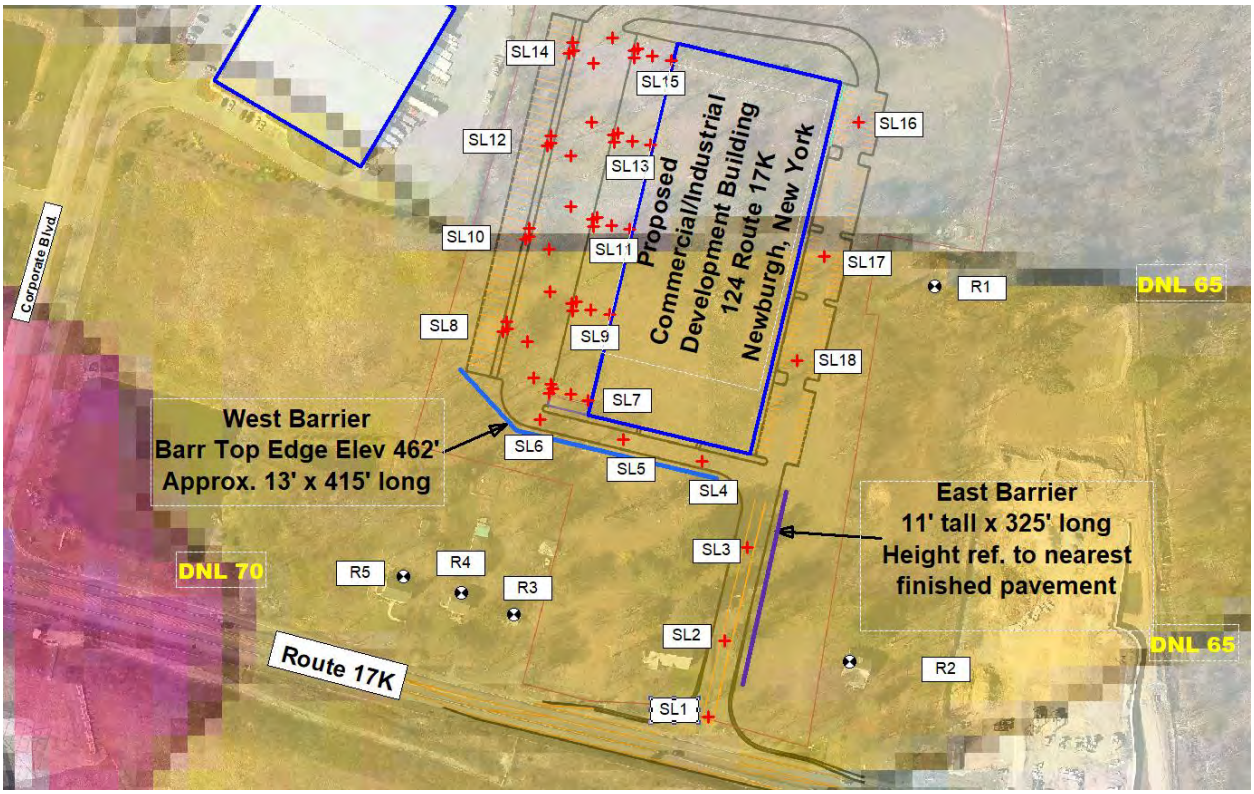


Figure 6. Recommended West and East sound barrier wall
Proposed Commercial/Industrial Development, Newburgh, NY

Summary of Limits and Guidelines

The following is a summary of the limits and guidelines referenced in this report of sound expected to be produced by on-site activities and equipment of the proposed Commercial/Industrial Development at 124 Route 17K, Town of Newburgh, New York.

NYSDEC

The State of New York Department of Environmental Conservation recommends that a new facility not increase the ambient noise level from what exists by more than 6 dBA, and in any zone not raise the ambient noise level to more than 65 dBA. The ambient sound level is quantified by the NYSDEC Program Guide using the energy average sound level (L_{Aeq}). The existing ambient has been estimated to be 44 dBA without Stewart International Airport aircraft sound, leading to an NYSDEC recommended guideline for Project on-site sound transmitted to nearby residences of 50 dBA. However, with Stewart International Airport activity, the applicable NYSDEC guideline would be an L_{Aeq} of 65 dBA. With the barriers recommended, the proposed Commercial/Industrial Development energy average sound level (L_{Aeq}) at nearest residences will not exceed 42 dBA.

Town of Newburgh, New York

All the nearby residences are within the Interchange Business (IB) zone with Part II §125 day/night limits of 80/70 dBA. Sound produced by the proposed Commercial/Industrial Development comply with these limits, even without barriers constructed.

Conclusion

Cavanaugh Tocci has completed an environmental sound study of the proposed Commercial/Industrial Development on a vacant parcel at 124 Route 17K, Newburgh, New York. The project site and nearest residences are in the Newburg Interchange Business zone. Barrier concepts have been developed to reduce project sound transmitted to nearest residences to within the Town of Newburgh nighttime sound level limit of 70 dBA. In addition, project sound with comply with guidance provided by the New York State Department of Environmental Protection Program Policy document on noise.

The sound attenuating walls proposed along the front of the parcel will provide a benefit by screening R2 to R5 from on-site source sound, reducing sound at these locations by 1-12 dBA, depending on source type and receptor location, and averaging 5 dBA. The average 5-dBA barrier attenuation would be perceived as a moderate reduction in perceived loudness; the 12-dBA reduction would be perceived as more than a halving of perceived loudness.

We conclude that recommended walls to screen sound produced by the proposed Commercial/Industrial Development will '*…safeguard the right of its residents within the privacy of their residences to be free from intrusive unwanted sounds...*" as intended by the Town of Newburgh, New York Part II §125 regulations.

* * *

If we can provide any further information, please do not hesitate to contact us. Thank you.

Sincerely,
CAVANAUGH TOCCI

Gregory C. Tocci, *Sr. Principal Consultant*

21272 Scannell Com-Ind Dvlpmt Newburgh NY 4a.Docx

APPENDIX 18

SITE PLAN REVIEW NARRATIVE
for the
NEWBURGH COMMERCE CENTER PROJECT
in the Town of Newburgh, New York

November 30, 2021

INTRODUCTION

Scannell Properties, LLC ("Scannell"), has applied to the Town of Newburgh Planning Board ("Planning Board") for approval to develop lands located at 124 Route 17K in the Town of Newburgh (Tax ID: 95-1-58) (the "Property") with a new 132,000 square foot commercial building to be known as Newburgh Commerce Center (the "Project"). Site plan review by the Planning Board is required for the Project pursuant to Article IX of the Town of Newburgh Zoning Law ("Zoning Law").

The Property contains approximately 13.8± acres of land and is located in the Town's Interchange Business ("IB") zoning district. The Newburgh Commerce Center would provide flexible leased space for a range of uses allowed by the Zoning Law in the IB zoning district, specifically:

- Research laboratories
- Manufacturing, altering, fabricating or processing products or materials
- Warehouse, storage and transportation facilities, including truck and bus terminals
- Offices for business, research and professional use and banks

[*See,* Zoning Code § 185; Attachment 13, Schedule 8]

PROJECT DESCRIPTION

Scannell anticipates leasing space in the commerce center to one or more tenants for one or more of these permissible uses consistent with the Zoning Law's allowance of multiple uses on a single lot pursuant to Zoning Law § 185-6(F). In addition to the commercial building, Scannell proposes to undertake other site improvements on the Property including stormwater controls, utility lines (water, sewer, electric, gas, etc.), car parking spaces, trailer/truck storage spaces, loading docks, dark-sky compliant lighting and landscaping. Based on the range of potential uses proposed, it is contemplated that the Project would be subject to certain operational parameters (i.e., sewer/water flows, parking, etc.) established by the Planning Board as part of the SEQRA and site plan approval process.

PROJECT COMPLIANCE WITH SITE PLAN REVIEW STANDARDS

As discussed in detail in the SEQRA Expanded Environmental Assessment Form Narrative ("EAF Narrative"), the Project has been designed to conform with the Town of Newburgh's Zoning Law and standards for site plan review as set forth in Zoning Law Article IX (Specifically, Zoning Law §§ 185-57(H) and 185-57(I)) as follows:

Standard: Consideration of "the public health, safety and general welfare and the comfort and convenience of the public in general and of the residents of the immediate neighborhood in particular."

Project compliance: The Project will advance the community goals for the Interchange Business zoning district and the Zoning Law, as well as those of the Town of Newburgh Comprehensive Plan and the Orange County Economic Development Strategy and Comprehensive Plan. As set forth in the *Fiscal Benefits* section of the EAF Narrative, the Project will substantially contribute to the general welfare of the community through the creation of a significant number of new jobs, including higher wage jobs, one-time administrative revenues paid to the Town and recurring local property tax revenues for the Town, County and public school district. The EAF Narrative and its appendices further detail how the Project will effectively minimize all relevant potential environmental impacts to the community and neighboring property owners, including from stormwater, traffic, noise and light, with no impacts on local roads and only limited use of community water, sewer and other municipal services. As designed, the Project will meet or exceed all applicable local and state requirements.

Standard: "That all proposed structures, equipment or material shall be readily accessible for fire and police protection."

Project compliance: The Project is designed to comply with all relevant requirements of the Zoning Law and the NYS Uniform Fire Prevention and Building Code with respect to the accessibility of fire and police protection services to the Property and Project elements.

Standard: "That the proposed use shall be of such location, size and character that, in general, it will be in harmony with the appropriate and orderly development of the district in which it is proposed to be situated and will not be detrimental to the orderly development of adjacent properties in accordance with the zoning classifications of such properties."

Project compliance: As discussed in detail in the EAF Narrative, the Project's layout and design are intended to ensure that the Project is an attribute to the Town of Newburgh and has the minimum possible impacts on the community and will contribute to the "orderly development" of the Interchange Business zoning district as contemplated for the uses allow by the Zoning Law.

The Property is perfectly situated along NYS Route 17K and close to the intersections of I-84, I-87 and Route 300 to significantly advance the Town's economic growth goals for the Interstate Business ("IB") zoning district with minimal impact to the Town, the neighborhood or the environment. Access to and from the Project would be from state roads, avoiding local impacts. The Project would be built in a growing commercial and industrial area that already includes a dozen existing warehouses and commercial buildings located adjacent or close to the Property.

To substantially limit any impacts from the Project, the Project's proposed building and associated parking and loading areas are located as far away from NYS Route 17K and existing residential uses as possible. *See*, Site Plans, Appendix 4. As proposed, the building will be 381' feet from NYS Route 17K and situated adjacent or close to similar commercial and/or industrial uses. This is many times further away than required for most buildings occupied by allowed uses in the IB zoning district, substantially reducing the potential for visual impacts from NYS Route 17K or neighboring properties. To further minimize impacts, Scannell proposes to use diverse earth-tone colors, together with a building design that breaks up the massing of the structure and is more architecturally similar to an office building, that will make the building more visually appealing when viewed in this location set back from Route 17K. *See*, Preliminary Floor Plan and Elevations, Appendix 12, and Preliminary Architectural Visualization Renderings, Appendix 13.

Furthermore, the proposed landscaping plan for the Project (*See*, Site Plans) exceeds what is required by the Zoning Law and would maximize the screening of the Project and minimize its visual impacts, both from NYS Route 17K and from neighboring residential uses. The Preliminary Architectural Visualization Renderings and Site Plans demonstrate how the siting distance from NYS Route 17K, proposed earth-toned colored and architecturally diverse building, along with enhanced landscaping, will minimize any adverse visual impacts and be attractive to prospective commercial and industrial tenants as well as the public.

As discussed in the *Consistency with Community Plans* and *Consistency with Community Character* sections of the EAF Narrative, the Project will further the Town's community planning goals as stated in the Zoning Law since the Project is located in the Interchange Business zoning district where all of the uses proposed by Scannell are all allowable and preferred based on the Town's planning goals and the Zoning Law. As proposed and designed, the Project will attract other commercial development to the IB zoning district, thus promoting "orderly development" of the zoning district consistent with the Zoning Law.

Through its layout, building design and landscaping, the Project will enhance the value of immediately surrounding properties for commercial development purposes involving similar, substantial financial investments, supporting the Town's goals for the "future growth and development of the Town of Newburgh." *See,* Zoning Law § 185-2(a). Development of the Project will thus provide a substantial catalyst to encourage the commercial development of surrounding properties based on the appropriate uses designated by the Town for its IB zoning district. In so doing, the Project also supports the Zoning Law's goal of "bringing about the gradual conformity of the uses and land" (*See,* Zoning Law § 185-2(c)) in the IB zoning district, where the existing single-family dwellings are permitted but where new residential development is generally prohibited and commercial development is preferred.

Standard: "Additional standards applicable to any use located in or directly adjacent to a residential district."

Project compliance: It is respectfully submitted that this standard does not apply to the Project as the Property is located in the Interchange Business zoning district and is not adjacent to a residential district.

Standard: "Proposed traffic accessways shall be: (a) Adequate but not excessive in number; (b) Adequate in width, grade, alignment and visibility; (c) Not located near street corners or other places of public assembly; and (d) In conformity with other similar safety considerations that the Planning Board may deem relevant."

Project compliance: As detailed in the Site Plans (*See,* Appendix 4) and *Impact on Transportation* section of the EAF Narrative, the Project will have one full-movement, stop-controlled access driveway onto NYS Route 17K designed to conform with Zoning Law and NYS Department of Transportation ("NYSDOT") requirements. The Traffic Impact Study ("TIS") provided in Appendix 16 of the EAF Narrative will be submitted to NYSDOT for review.

Where the Project driveway will intersect NYS Route 17K, the posted speed limit is 40 miles per hour. The driveway will be approximately 460 feet west of the Maguire Way signalized intersection and 1200 feet east of the Corporate Boulevard signalized intersection on Route 17K. No other public roads intersect NYS Route 17K between the two signalized intersections, so traffic flow is already well-controlled.

The eastbound NYS Route 17K approach to the Project driveway will provide one exclusive left-turn lane and one thru lane. The westbound NYS Route 17K approach will provide one shared thru/right turn lane with a shoulder. The southbound Project driveway approach to Route 17K will provide one left-turn lane and one right-turn lane under stop control. These mitigation measures will contribute to the minimization of traffic impacts involving vehicles entering and leaving the Property.

Based on conservatively estimated traffic volumes that could be generated by the Project, the TIS concluded that safe traffic flow will occur entering and leaving the Project driveway from NYS Route 17K and will not significantly impact existing and/or proposed traffic flows at the following intersections:

- NYS Route 17K and Corporate Boulevard;
- NYS Route 17K and Maguire Way / Kia Dealership;
- NYS Route 17K and Orr Avenue / Matrix Driveway; and
- NYS 17K and the Project's driveway.

The TIS's conclusions that the Project will have only limited traffic impacts are partly due to the occurrence of sufficient gaps in traffic along NYS Route 17K and excellent sight lines available from the proposed driveway. See, TIS. In particular, the TIS analyzed the gaps in traffic created by the signalized intersections to the east (Maguire Way) and west (Corporate Boulevard) of the Project's driveway on NYS Route 17K. This analysis demonstrated that during peak traffic periods the gaps in traffic on NYS Route 17K at the Project driveway created by the two signals would ensure safe and timely traffic movement entering and exiting the Property in all directions.

Standard: "Adequate off-street parking and loading spaces shall be provided to prevent parking in public streets of vehicles of any person connected with or visiting the use. The interior circulation system shall be adequate to provide safe accessibility to all off-street parking spaces."

Project compliance: The Project is designed to comply with all Zoning Law requirements pertaining to off-street parking and will ensure that no parking will occur off-site. The Project layout includes a driveway and circulation system around a building that is set back 381' from NYS Route 17K, precluding the likelihood of any off-site parking even it was allowed on the state highway.

Standard: "The site shall be well drained and shall have such grades and soil as to make it suitable for the purpose intended."

Project compliance: The EAF Narrative discussion regarding *Impact on Land* and the Geotechnical Report provided as Appendix 7 describe existing conditions on the Property and how the Project will be constructed in accordance with recommendations set forth in the Geotechnical Report. Generally, the Property is flat and primarily undeveloped, sloping from the North towards NYS Route 17K. Given the relatively flat topography of the Site, construction will entail typical regrading and earthwork in order to maintain positive drainage away from the building and create level building, parking and loading areas. Most earthwork will involve the excavation for subsurface features including building foundations, stormwater management systems, and placement of fill to level building and parking areas. Some limited excavation of primarily weathered bedrock may occur. Following excavation for these features, backfilling and fill operations will bring the development area to the desired grade. There are no wetlands located on the Property.

Standard: "Storm runoff shall be controlled in such a manner that no person, property or facilities are vulnerable to injury or damage by the discharge of stormwater or its effects. Wherever possible, runoff shall be controlled on the land surface by the use of broad, gentle swales. The site plan shall provide for retention basins sufficient to maintain discharge from the site at the predevelopment rate, as calculated by the Soil Cover Complex Method outlined in Technical Release 55 (TR 55) of the United States Department of Agriculture, Soil Conservation Service. Erosion shall be strictly controlled by adequate grading, energy dissipators and ground cover. Silt basins or barriers shall be constructed where necessary to control siltation in downstream water bodies. Whenever possible, drainage shall be piped through or diverted around construction areas to minimize erosion and transport of sediment during construction."

Project compliance: The Project's compliance with this standard is detailed in the EAF Narrative discussion regarding *Impact on Surface Water* and supported by the Project's Site Plans (*See,* Appendix 4) and Stormwater Pollution Prevention Plan ("SWPPP") (*See,* Appendix 5). For stormwater control, the Project will install a modern stormwater management system on the Property to control stormwater runoff and water quality prior to discharging offsite. During and after construction of the Project, stormwater will be managed, treated and discharged in accordance with the requirements set forth in NYSDEC State Pollution Discharge Elimination System general stormwater permit and the Project's SWPPP. *See*, Site Plans and the SWPPP, Appendices 4 and 5. The Project's Site Plans and SWPPP are designed to comply with all applicable NYSDEC requirements for managing stormwater during and after construction. The stormwater management system is designed to provide water quality treatment and includes appropriate measures to control

the rate of stormwater runoff to less than pre-development rates for a full range of storm events from the 1-year storm to the 100-year storm.

During Project construction, erosion and sediment control, soil stabilization, dewatering and pollution prevention measures will be installed, implemented and maintained on the Property as set forth in the SWPPP to minimize the discharge of erosion of sediment and prevent a violation of the State's water quality standards. Post-construction stormwater management practices for the Project as set forth in the SWPPP are designed to conform to applicable requirements in the NYSDEC general stormwater permit and the standards provided by the New York State Stormwater Management Design Manual ("Design Manual") (dated January 2015). Specifically, post-construction, the Project's stormwater management system will collect stormwater run-off from the Property through a series of catch basins and pipes and convey the water to the proposed stormwater management area depicted on the Site Plans. Sediments and other contaminants in the run-off will be treated as described in the SWPPP to ensure the stormwater discharges meet applicable water quality standards and have minimal impacts on the downstream water courses. Stormwater management facilities, including bioretention areas and open detention basins, will primarily be located along the southern portion of the Site, as depicted on the Site Plans. As required by the NYSDEC stormwater regulations, the peak rate of run-off from the Property will be the same or less than peak rate of run-off under the existing conditions.

Standard: "All playgrounds, parking and service areas shall be reasonably screened at all seasons of the year from the view of the adjacent residential lots and streets, and the general landscaping of the site shall be in character with that generally prevailing in the neighborhood. Existing trees over 12 inches in diameter shall be preserved to the maximum extent possible."

Project compliance: The Project will provide enhanced new landscaping that exceeds the requirements of the Zoning Law, while at the same time preserving existing vegetation to the maximum extent possible. As detailed in the EAF Narrative discussion regarding *Impacts on Aesthetic Resources* and the Site Plans and Preliminary Architectural Visualization Renderings provided as Appendices 4 and 13, respectively, the proposed landscaping plan for the Project (See, Site Plans) exceeds what is required by the Zoning Law and would maximize the year-round screening of the Project, including parking and loading areas, and minimize the Project's visual impacts, both from NYS Route 17K and from neighboring residential uses.

Standard: "The character and appearance of any proposed use, building or outdoor sign shall be in general harmony with the character and appearance of the Town of Newburgh and shall not adversely affect the general welfare of the inhabitants of the Town of Newburgh."

Project compliance: The EAF Narrative discussion regarding *Impacts on Aesthetic Resources* and the Site Plans and Preliminary Architectural Visualization Renderings provided as Appendices 4 and 13, respectively, also demonstrate how the Project will be in harmony with the "general character and appearance" of the Town of Newburgh. The compliance of the Project with this standard is addressed through a site plan, building design and landscaping plan that are respective of the existing community character and intended to be an attribute to the Town of Newburgh. The Project's proposed building and associated parking and loading areas are located as far away

from NYS Route 17K and existing residential uses as possible. *See*, Site Plans, Appendix 4. As proposed, the building will be 381' feet from NYS Route 17K. This is many times further away than required for most buildings occupied by allowed uses in the Interchange Business zoning district, substantially reducing the potential for impacts to the community. To further minimize impacts, Scannell proposes to use diverse earth-tone colors, together with a building design that breaks up the massing of the structure, that will make the building more visually appealing when viewed in this location set back from Route 17K. *See*, Preliminary Floor Plan and Elevations, Appendix 12 and Preliminary Architectural Visualization Renderings, Appendix 13. Scannell's building design is purposefully intended to serve a wide range of uses and to be more architecturally similar to an office building. As discussed above, the proposed landscaping plan for the Project (*See*, Site Plans, Appendix 4) will further support the general harmony of the Project's character and appearance with the Town of Newburgh and provide a use and building that will be attractive to prospective commercial and industrial tenants as well as to the public. Finally, no signage for the Project is proposed.

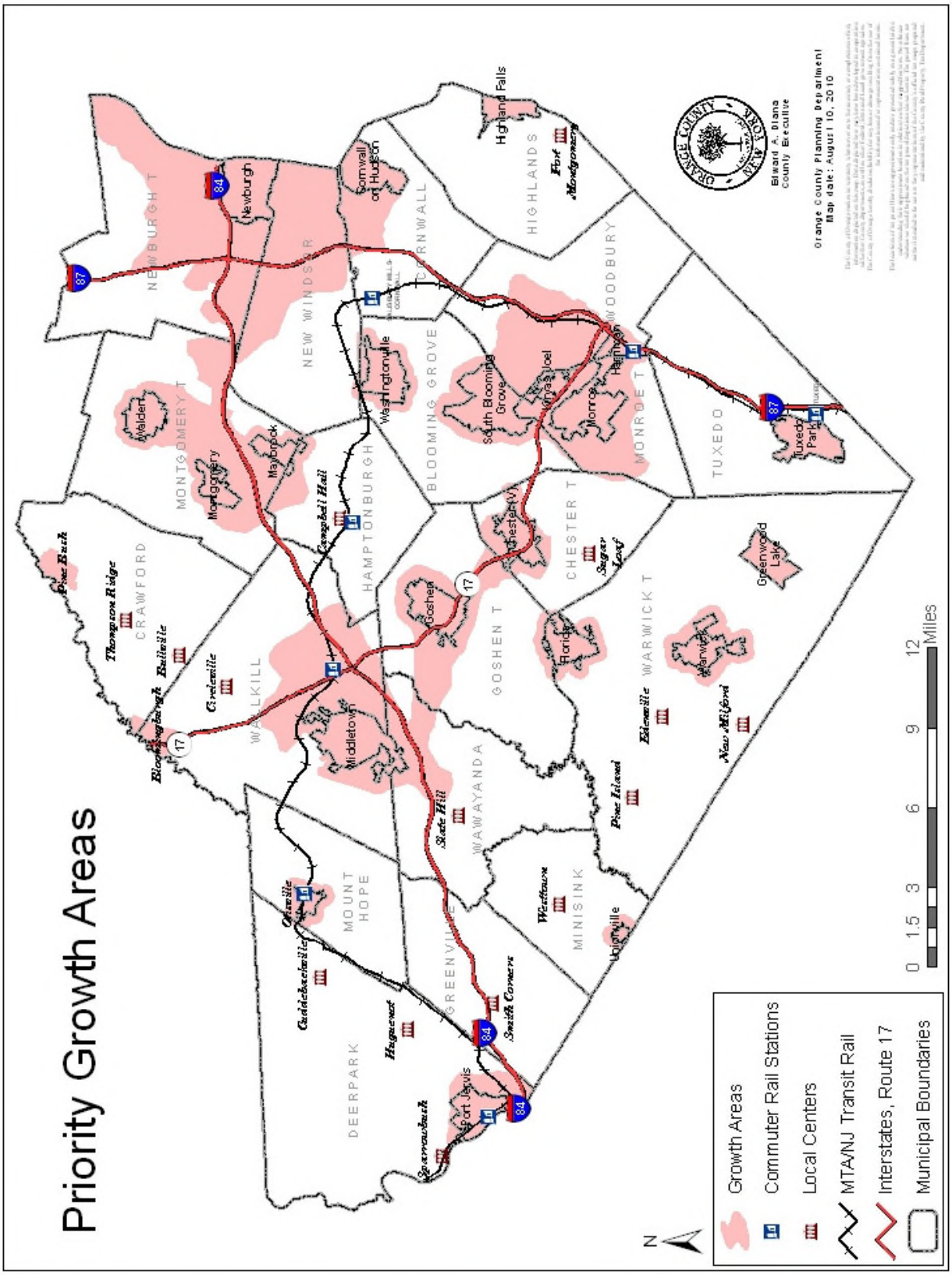
Standard: "Open space in residential developments. The site development plan shall make provisions for open space and recreational facilities. Existing drainage courses, water bodies and scenic features shall be preserved in residential developments to the maximum extent possible. Greenbelts and pedestrian ways shall be preserved or provided wherever appropriate."

Project compliance: It is respectfully submitted that this site plan review standard does not apply to the Project since no residential development is proposed. As designed, however, the Project is intended to provide enhanced new landscaping and to preserve existing vegetation to the maximum extent possible. Of the 13.8± acres comprising the Property, the Project will only create 7.2± acres of new impervious area, leaving a substantial portion of the Property as vegetated and/or open space associated with stormwater management facilities including detention ponds.

Standard: The site and structures shall comply with the requirements and standards of the "Americans with Disabilities Act," 42 U.S.C. § 12101 et seq., and any regulations promulgated thereunder. Where, however, this chapter or other applicable laws, codes, rules or regulations impose stricter requirements for accommodation for the disabled, those stricter standards shall apply.

Project compliance: The Project, including parking, walkways and the building, will comply with all applicable requirements and standards of the Zoning Law and the "Americans with Disabilities Act," 42 U.S.C. § 12101 et seq., and any regulations promulgated thereunder.

APPENDIX 19


Priority Growth Areas
Growth Areas
Commuter Rail Stations
Local Centers
MTA/NJ Transit Rail
Interstates, Route 17
Municipal Boundaries
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Miles
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Orange County Planning Department
Map date: August 10, 2010
Edward A. Diana
County Executive
NEWBURGH
MONTGOMERY
CRAWFORD
WALLKILL
NEW WINDSOR
HAMPTONBURGH
CORNWALL
BLOOMING GROVE
HIGHLANDS
WOODBURY
MONROE
TUXEDO
CHESTER
GOSHEN
WARWICK
WAWAYANDA
MINISINK
GREENVILLE
MOUNT HOPE
DEERPARK
Newburgh
Cornwall on Hudson
Highland Falls
Fort Montgomery
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Maybrook
Campbell Hall
Washingtonville
South Blooming Grove
Monroe
Harriman
Tuxedo Park
Pine Bush
Thompson Ridge
Bellville
Circleville
Middletown
Goshen
Chester
Sugar Loaf
Florida
Greenwood Lake
Harvard
Edenville
New Milford
Pine Island
Slate Hill
Westtown
Otisville
Guddebacherville
Huguenot
Port Jervis
Summitville
Unionville
Barryville
Smith Corners

C. Economic Development Strategy

Background and Issues

The economy of Orange County must be understood within the context of international, national and regional trends. In this post industrial era marked by the internet and vastly declining communication costs, growth will be driven by services and industries and individuals will be increasingly mobile.

While familiar economic issues such as "operating costs" or the "cost of living" will continue to be important, a premium will accrue to locations which can provide: (1) an educated workforce, (2) a well developed transportation and communications infrastructure, and (3) a high 'quality of life,' which encompasses issues such as the preservation of open space and the natural environment, the quality and diversity of the housing stock, and the level of cultural and recreational institutions.

Located at the fringe of the New York metropolitan region business community, Orange County faces the same economic challenge faced throughout the region: adapting to rapid technological change in a shrinking global economy driven by communication and technological advances. The County's overall low-density, dispersed development pattern was built on an array of roadways and rail lines that distributed workers and products throughout the County and the region. New technologies have created a new network which could potentially further support the existing dispersed pattern of development.

Orange County's location between city and country presents unique opportunities and challenges. Over the next twenty years one of the key challenges facing the County will be to strike an appropriate balance between leveraging its proximity to New York City and preserving its unique character.

Strategies and Priorities

1. Maximize the position of the County as a gateway to the urbanized metropolitan region as well as to the region's more rural countryside to its north and west. 2. Build on the County's traditional strengths in commerce and distribution.

3. Support linkages between regional economic centers that capitalize on the unique strengths of each center.

Overall Goal

Strengthen the economy in Orange County by attracting and supporting businesses that will enhance the County's economic base and provide jobs, tax revenues, and an orderly and sustainable land use pattern that accommodates the best of the County's old economy while providing the attributes necessary to build the new economy.

4. Build on the physical infrastructure of the County - its land, location in the region, utilities, transportation system, and waterways to enhance existing and attract new businesses.

5. Encourage the regionalization of utilities like sewer and water.

6. Encourage the links between the County's environmental and agricultural heritage and the promotion of sustainable agricultural and economic development.

Recommended Actions

• Utilize the county's land resources appropriate for economic development to provide strategically located sites for new businesses. Keep an updated inventory of countywide sites in approved business parks that are available for differing types of development. Continue to encourage organizations such as the Orange County Partnership and the Orange County Industrial Development Agency to expand the inventory of land that is pre-approved for development through utilization of programs such as Build Now New York.

• Preserve existing County owned reservoir land with appropriate interim uses treating these lands as a land banked resource available to meet potential future water needs that will support business and housing growth.

• Provide for a range of types of office and business parks.

• Encourage municipalities to create a land bank of wetland areas to be used to trade for wetland areas on sites which are well suited for business development.

• Establish wetland banks which can be utilized for wetland mitigation when business development impacts existing wetlands.

• Work with the Federal Highway Administration to keep existing entrances and exits to Route 17/I 86.

• Support an enhanced and well maintained interstate, State and County roadway system as the underpinning of the County's transportation systems.

• Anticipate and develop plans for growth corridors in proximity to Stewart Airport. Encourage cooperation between the Towns of New Windsor, Newburgh and Montgomery for coordinated corridor plans for Routes 207, 300, 9W and 17K which are likely to experience spin off development as a result of Stewart Airport growth.

• Recognize the County's unique position relative to the metropolitan area and plan for added economic development and housing pressures in and around the main access points to the County from the east and the south.

• Enhance the County's distribution advantages by supporting the freight rail services through the County provided by large carriers such as CSX on the West Shore Line and the Norfolk Southern on the Port Jervis Line. Balance the needs of increased passenger service with freight trackage usage and identify

potential locations of rail and surface transportation conflicts which could be caused by long freight trains of increasing frequency.

• Maximize and support the potential of Stewart Airport as a unique economic development opportunity in the County.

• Promote Stewart Airport as an alternative regional transportation hub to the other three metro area regional air traffic centers.

- Develop Stewart as the regional center for low cost carriers for both domestic and international travel.
- - Build on the adjacency of a Foreign Trade Zone, World Trade Center, inventory of adjacent land and good road and rail access to New York City and the Hudson Valley to make Stewart a hub for domestic and international cargo operations.

• Support rail alternatives that will connect the County and Stewart Airport more efficiently with New York City and Westchester County. This includes consideration of a Tappan Zee Bridge rail alternative and extension of the Graham rail line to Stewart Airport.

• Capitalize on the pass through traffic to Sullivan and Ulster Counties currently existing and likely to expand as a result of tourism initiatives in those counties.

• Encourage continued and new transportation links such as the bus between Woodbury Common and the Galleria Mall.

• Support the transportation advantages of the Hudson River both as a potential deep water port, commuter ferry resource and cross-Hudson tourism generator while ensuring that waterfront uses are clean, non-polluting and preferably water dependent and are compatible with municipal waterfront revitalization efforts.

• Through the County Tourism Office consider linking individual historic and cultural attractions located in different sections of the County to strengthen the regions in which they are located.

• Recognize Woodbury Common as both a regional and international center that acts as a catalyst for a more comprehensive mixed use hub that could include a convention center, hotel, additional retail trade and recreational uses. Existing and proposed land uses at the Thruway Toll Plaza could be better coordinated and linked.

• Link industrial development and the environment through the planning, fostering and development of planned or in-place eco industrial parks. Link industries that benefit from the byproducts of each where the waste of one industry is available to be used as the raw material of another industry. This is a “greenfield” approach to economic development well-suited to the environmental setting of Orange County. Whereas industries can be planned to co-locate, existing industries in close proximity to other industries can organize to share by-products even if they are not in close physical proximity to each other.

• At areas of activity that are developed in a strip suburban or segregated shopping mode, overlay a more pedestrian friendly town center type design to create coordinated activity hubs.

• Support intermunicipal cooperation and sharing of water and sewer resources and services as an efficient means to accommodate economic development.

• Support and promote the County's agri-business as a critical economic development tool. Approach agriculture as an important sector of the economy to be measured not just by job creation or taxes generated but as a unique element of the county's quality of life which protects its inventory of open space against increasing development.

• Expand the definitions of agriculture to include value added products and services that agriculture encompasses vegetable crops, dairy products, ornamental horticulture, orchard products, aquaponics, equine products and services as well as "U-Pick"operations, hay rides and seasonal events along with farm stores. Expand the agri-tourism aspects of the agricultural industry to enhance farmer income and attract tourism dollars to the industry and the County.

• Through the Orange County Partnership, encourage packaging and processing of agricultural products as a spin-off of the agricultural industry.

• Encourage municipalities to amend local zoning regulations to provide higher densities and higher coverage ratios for business uses to increase the competitive advantage of the County as a place to do business.

• Encourage municipalities to employ zoning and land use regulations that discourage development of the County as the next ring sprawl suburb in metropolitan area development.

• Accommodate the need for additional hotel and golf courses.

Quality of Life

Strategies and Priorities

Goal

Enhance, support and maintain the County's quality of life to attract an educated, highly skilled and diversified workforce and high earning businesses demanding a range of skills.

1. Enhance urban and village centers as compact economic centers that provide a sense of place and build on the unique strengths of each center.

2. Maximize the potential of the County's waterfronts as a direct source of economic development as well as a resource to provide the backdrop to development.

3. Promote tourism of the County as a whole and its historic, cultural, educational and natural resources as vital economic development tools.

4. Continue efforts to streamline the regulatory process to facilitate business development.

APPENDIX 20

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2021-AEA-15929-OE

Issued Date: 01/25/2022

Zachary Zweifler
Scannell Properties, LLC
8801 River Crossing Blvd.
Suite 300
Indianapolis, IN 46240

**** PUBLIC NOTICE ****

The Federal Aviation Administration is conducting an aeronautical study concerning the following:

Structure:	Commercial Use Building Newburgh Commerce Center
Location:	Newburgh, NY
Latitude:	41-30-31.68N NAD 83
Longitude:	74-05-02.76W
Heights:	452 feet site elevation (SE)
	41 feet above ground level (AGL)
	493 feet above mean sea level (AMSL)

The structure above exceeds obstruction standards. To determine its effect upon the safe and efficient use of navigable airspace by aircraft and on the operation of air navigation facilities, the FAA is conducting an aeronautical study under the provisions of 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77.

** SEE REVERSE SIDE FOR ADDITIONAL INFORMATION **

In the study, consideration will be given to all facts relevant to the effect of the structure on existing and planned airspace use, air navigation facilities, airports, aircraft operations, procedures and minimum flight altitudes, and the air traffic control system.

Interested persons are invited to participate in the aeronautical study by submitting comments to the above FAA address or through the electronic notification system. To be eligible for consideration, comments must be relevant to the effect the structure would have on aviation, must provide sufficient detail to permit a clear understanding, must contain the aeronautical study number printed in the upper right hand corner of this notice, and must be received on or before 03/03/2022.

This notice may be reproduced and circulated by any interested person. Airport managers are encouraged to post this notice.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2021-AEA-15929-OE.

Stephanie Kimmel
Specialist

Attachment(s)
Part 77
Map(s)

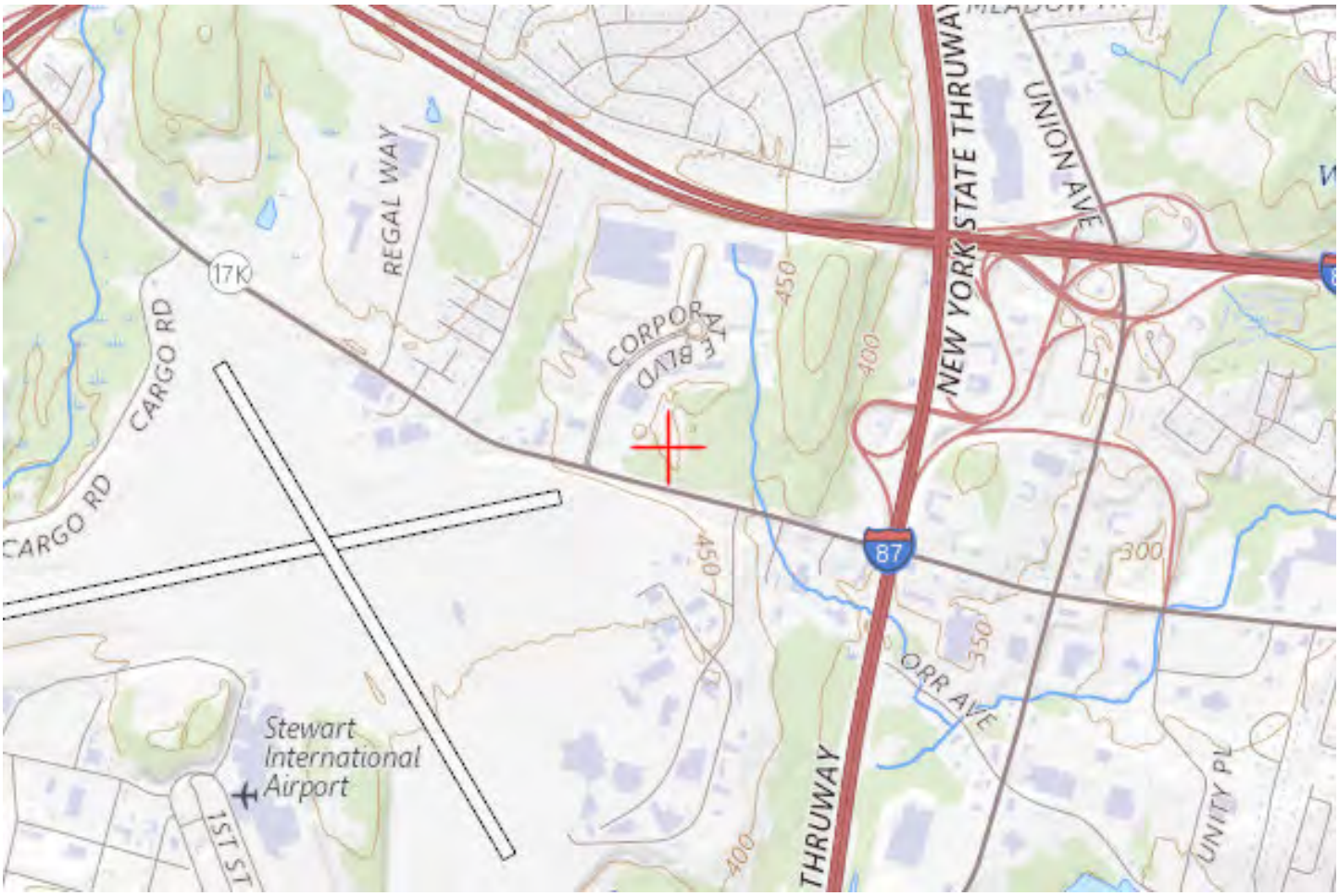
Proposal: To construct and/or operate a(n) Commercial Use Building to a height of 41 feet above ground level, 493 feet above mean sea level.

Location: The structure will be located 0.98 nautical miles east of SWF Airport reference point.

Part 77 Obstruction Standard(s) Exceeded:
Section 77.17 (a) (5) a height that affects an Airport Surface by penetrating:
Section 77.19 (d) Approach Surface by 6 feet as applied to SWF.

Preliminary FAA study indicates that the above mentioned structure would:
have no effect on any existing or proposed arrival, departure, or en route instrument flight rules (IFR) operations or procedures.
have no effect on any existing or proposed arrival, departure, or en route visual flight rules (VFR) operations.
have no effect on any existing or proposed arrival, departure, or en route instrument/visual flight rules (IFR/VFR) minimum flight altitudes.
not exceed traffic pattern airspace
have no physical or electromagnetic effect on the operation of air navigation and communications facilities.
have no effect on any airspace and routes used by the military.

Map for ASN 2021-AEA-15929-OE

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