



**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT NAME: NPA SITE PLAN
PROJECT NO.: 17-03
PROJECT LOCATION: SECTION 89, BLOCK 1, LOT 80.2 & 80.1
REVIEW DATE: 13 NOVEMBER 2024
MEETING DATE: 21 NOVEMBER 2024
PROJECT REPRESENTATIVE: LANGAN ENGINEERS

1. Health Department approval of the subsurface sanitary sewer disposal system continues to be an outstanding item. The applicants have identified the Health Department will require Orange County Planning review prior to issuing any final approvals.
2. The access drive has been modified approval is required from NYSDOT.
3. Stormwater Facility Maintenance Agreement must be filed.
4. In response to Ken Wersted's comments a Traffic Study is being prepared and will be submitted for the Boards use. Receipt of the Traffic Study should be confirmed prior to circulation to Orange County Planning.
5. A revised SWPPP has been provided. Additional information regarding the proprietary filtration device Jelly Fish JFPDO806 has been provided. NYSDEC has identified this product being acceptable as water quality treatment for stormwater hot spots, the gasoline filling station areas. Test pits and infiltration testing identify a 2 inch per hour infiltration rate. This rate has been included in the model for the parking lot stormwater detention/infiltration system.
6. At the work session meeting it was requested rims and invert piping crossing NYS 747 be included on the drainage plans.
7. Check grading at the proposed 24-inch HDPE discharge. The 96 contour crosses the existing drainage swale. Discharge from Infiltrator-203 has an invert of 95.5.
8. Provide detail Catch Basin-200.
9. Confirm adequate infiltration testing has been provided in the stormwater treatment systems. Infiltration testing consistent with design guidelines should be provided.
10. Grading for access to the right-of-way on the adjoining parcel has been included in the plans. Reference to Note 3 on existing conditions plan is provided.

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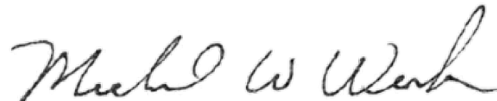
11. Project will be subject architectural review including signage. Compliance comments regarding canopy sign should be received.
12. Copies of any DOT plans that are referenced on the plan notes should be sent to the Planning Board for review.
13. Detail of the Enhanced Treatment Vault Contech Jelly Fish should be added to the plans.
14. Response letter identifies a copy of NYCDEP letter. This letter was not attached to our submission which we received.
15. The existing culvert at the entrance drive is proposed to be modified. Additional information including inverts at this location should be provided.
16. Once Traffic Study is provided the project must be circulated to County Planning.

Respectfully submitted,

MHE Engineering, D.P.C.



Patrick J. Hines
Principal
PJH/kmm



Michael W. Weeks, P.E.
Principal

SITE PLAN APPROVAL DOCUMENTS FOR NEWBURGH GAS STATION TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK



LOCATION MAP

1"=500'

MUNICIPALITY

TOWN OF NEWBURGH
1496 NY-300
NEWBURGH, NY 12550
TEL: 845-564-4554

APPLICANT

SNK PETROLEUM WHOLESALERS, INC.
1983 ROUTE 52, SUITE 1A
HOPEWELL JUNCTION, NY 12533

OWNER

NEWBURGH PARK ASSOCIATES, INC.
561 S. DRURY LANE
ROCK TAVERN, NY 12575

**CIVIL ENGINEER &
LANDSCAPE ARCHITECT**

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SURVEYOR

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NEWBURGH, NY 12550

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ZONING TABLE: TOWN OF NEWBURGH, NY INTERCHANGE BUSINESS (IB) ZONING DISTRICT				
CODE REF.	BULK REGULATION	REQUIRED	PROPOSED LOT	
			PROPOSED	COMPLIANCE
Schedule 8	PRINCIPAL USE	Use subject to site plan review by Planning Board	Convenience store with gasoline filling station	YES
Schedule 8	MIN. LOT AREA	40,000 SF	±62, 723 SF (1.44 AC)	YES
Schedule 8	MIN. LOT WIDTH	150 FT	720 FT	YES
Schedule 8	MIN. LOT DEPTH	150 FT	180 FT	YES
Sect. 185-18	MIN. FRONT YARD (STATE ROAD) ⁽¹⁾	60 FT	39 FT	NO ⁽²⁾
Schedule 8	MIN. REAR YARD	60 FT	54 FT	NO ⁽²⁾
Schedule 8	MIN. SIDE YARD (ONE SIDE)	30 FT	13 FT	NO ⁽²⁾
Schedule 8	MIN. SIDE YARD (BOTH SIDES)	80 FT	N/A ⁽²⁾	
Schedule 8	MAX. LOT BUILDING COVERAGE	40%	~4%	YES
Schedule 8	MAX. BUILDING HEIGHT	40 FT	< 40 FT	YES
Schedule 8	MAX. LOT SURFACE COVERAGE	80%	~64%	YES
Sect. 185-13	PARKING SPACES	13 ⁽³⁾	19	YES

Notes:
 (1) Project has received variances from the Tw. Of Newburgh zoning board of appeals for setback encroachments (7/28/2022)
 (2) Due to the shape of the lot and multiple frontages, there is not a dimension for two side yards
 (3) Parking space requirements for gas stations is the number of vehicles being serviced (i.e. 8 gasoline pumps) plus 5.

DRAWING LIST		
DRAWING NO.	SHEET NO.	DRAWING TITLE
CS001	1 OF 13	COVER SHEET
CD101	2 OF 13	EXISTING CONDITIONS & SITE REMOVAL PLAN
CS101	3 OF 13	SITE PLAN
CS102	4 OF 13	TURNING MANUEVERS
CG101	5 OF 13	GRADING & DRAINAGE PLAN
CU101	6 OF 13	UTILITY PLAN
CE101	7 OF 13	EROSION & SEDIMENT CONTROL PLAN
CS501	8 OF 13	SITE DETAILS (1 OF 2)
CS502	9 OF 13	SITE DETAILS (2 OF 2)
LP101	10 OF 13	LANDSCAPE PLAN
LP501	11 OF 13	LANDSCAPE DETAILS
LL101	12 OF 13	SITE LIGHTING PLAN
LL501	13 OF 13	SITE LIGHTING DETAILS

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.
REVISIONS		

11/08/2024
DATE SIGNED

PROFESSIONAL ENGINEER NY Lic. No. 081473

LANGAN
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 Landscape Architecture and Geology, D.P.C.
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Project
**NEWBURGH
 GAS STATION**
 BLOCK No. 1, LOT No.80.1 & 80.2
 TOWN OF NEWBURGH
 ORANGE COUNTY NEW YORK

Drawing Title
COVER SHEET

Project No. 190062401	CS001
Date OCTOBER 14, 2024	
Drawn By GN	
Checked By BS	
Sheet 1 of 12	

LANEAM PROJECT NO. 190062401

ABBREVIATIONS	
(TYP) - TYPICAL	
VF - VERIFY IN FIELD	
NEC. - NECESSARY	
PROP. - PROPOSED	
EXIST. - EXISTING	
HC - HANDI-CAP	
SHT. - SHEET	
NO. - NUMBER	
TW - TOP OF WALL	
BW - BOTTOM OF WALL	
WV - WATER VALVE	
HYD - HYDRANT	
YR. - YEAR	
AC - ACRE	
SF - SQUARE FEET	
LF - LINEAR FEET	
PT - POINT OF TANGENT	
PC - POINT OF CURVATURE	
HP - HIGH POINT	
LP - LOW POINT	
VC - VERTICAL CURVE	
PVI - POINT OF VERTICAL INFLECTION	
STA - STATION	
A.D. - ALGEBRAIC DIFFERENCE	
K - CURVE COEFFICIENT	
BVCS - BEGINNING VERTICAL CURVE STATION	
BVCE - BEGINNING VERTICAL CURVE ELEVATION	
EVCS - END VERTICAL CURVE STATION	
EVCE - END VERTICAL CURVE ELEVATION	
ELEV. - ELEVATION	
EL - ELEVATION	
HORIZ. - HORIZONTAL	
VERT. - VERTICAL	
PERF. - PERFORATED	
HDPE - HIGH DENSITY POLYETHYLENE	
PVC - POLYVINYL CHLORIDE	
DIP - DUCTILE IRON PIPE	
CIP - CAST IRON PIPE	
INV - INVERT	
MIN. - MINIMUM	
ES - END SECTION	
OS - OUTLET STRUCTURE	
N.T.S. - NOT TO SCALE	
UP - UTILITY POLE	
CTOE - CABLE, TELEPHONE, GAS, ELECTRIC	
LSE - LOWEST SEWERABLE ELEVATION	
R - ARC RADIUS	
A - ARC LENGTH	
Δ - CENTRAL ANGLE	
CL - CHORD LENGTH	
CB - CHORD BEARING	

LEGEND (NOT SHOWN TO SCALE)	
PROPOSED	
	BUILDING
	CURB
	DOOR ENTRANCE
	STAIRS
	CONCRETE PAVEMENT
	PEDESTRIAN WALKWAY
	CHAIN LINK FENCE
	WALL
	CONTOUR
	SPOT ELEVATION
	STORMWATER CONVEYANCE PIPE
	CATCH BASIN
	STORMWATER MANHOLE
	OUTLET CONTROL STRUCTURE
	SANITARY SEWER
	SANITARY MANHOLE
	SANITARY CLEANOUT
	SANITARY SEWER FORCE MAIN
	WATER MAIN
	FIRE WATER LOOP
	ELECTRIC/TELECOMM SERVICE
	THREE PHASE ELECTRIC LINE
	GAS SERVICE
	FIRE HYDRANT
	GATE VALVE
	LIMIT OF DISTURBANCE
	SILT FENCE
	CONSTRUCTION FENCE
	INLET PROTECTION
	CONCRETE WASHOUT
	STABILIZED CONSTRUCTION ENTRANCE
	CONSTRUCTION STAGING AND STORAGE AREA
	SOIL STOCKPILE

LEGEND (NOT SHOWN TO SCALE)	
EXISTING	
	HYDRANT
	STAND PIPE
	STREET LIGHT
	SPOT ELEVATION
	MANHOLE (TYPE AS LABELED)
	WATER VALVE
	GAS VALVE
	UTILITY VALVE
	CATCH BASIN
	CLEAN OUT
	TREE
	SIGN
	PARKING METER
	ELECTRIC BOX
	GAS METER
	WATER METER
	TELEPHONE BOX
	MONITOR WELL
	DOOR
	DOUBLE DOOR
	YARD DRAIN
	BOTTOM OF WALL
	TOP OF WALL
	BOTTOM OF CURB
	TOP OF CURB
	DROP CURB
	METAL COVER
	DETECTABLE WARNING PAD ON LINE
	FINISHED FLOOR
	OVERHEAD WIRE
	GUIDE RAIL WOOD
	GUIDE RAIL METAL
	TREE LINE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	CONTOUR LINE
	GAS MARK OUT LINE
	WATER MARK OUT LINE
	ELECTRIC MARK OUT LINE
	COMMUNICATION MARK OUT LINE
	SANITARY MARK OUT LINE
	DRAINAGE MARK OUT LINE
	UNKNOWN UTILITY MARK OUT LINE
	REFERENCE UTILITY LINE (TYPE AS NOTED) - PLOTTED FROM EXISTING MAPPING

GENERAL NOTES

- THE CONTRACTOR SHALL CALL "DIG SAFELY NEW YORK" PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CALL 1-800-962-7962 OR 811 FOR STAKEOUT REQUESTS.
- ALL EXISTING UTILITY LINES SHALL BE LOCATED/VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING ANY MATERIALS AND/OR STARTING ANY CONSTRUCTION.
- THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK. CONSTRUCTION OF THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED. THE OWNER MAKES NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY AVAILABLE INFORMATION WHICH WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS, CORRELATE CONDITIONS WITH THE DRAWINGS AND RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL MAKE ADDITIONAL TOPOGRAPHIC SURVEYS HE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER, ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDS FOR ADDITIONAL PAYMENT OR CHANGES TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST THE OWNER OR OWNER'S ENGINEER.
- THE CONTRACTOR SHALL, WHEN THEY DEEM NECESSARY, PROVIDE WRITTEN REQUESTS FOR INFORMATION (RFI) TO THE OWNER AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITE WORK ITEM. THE RFI SHALL BE IN A FORM ACCEPTABLE TO OWNER AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF 10 WORK DAYS OR ADDITIONAL REASONABLE TIME FOR A WRITTEN REPLY. THE RFI SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE WORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.
- INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO CONSTRUCTION. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO CONSTRUCTION.
- THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.
- ALL BIORETENTIONS, GRASSED SWALES, CULVERTS, UNDERGROUND INFILTRATION SYSTEMS, AND OTHER PROPOSED DRAINAGE FEATURES ARE TO BE PRIVATELY OWNED AND MAINTAINED, UNLESS OTHERWISE NOTED.

SPDES GENERAL PERMIT COMPLIANCE NOTES

- THE NOTICE OF INTENT (NOI) AND SIGNED MS4 SWPPP ACCEPTANCE FORM SHALL BE FILED WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). A COPY OF THE NOI, SIGNED MS4 SWPPP ACCEPTANCE FORM, AND THE NOI ACKNOWLEDGEMENT SHALL BE MAINTAINED AT THE SITE IN THE LOG BOOK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING:
 - THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL READ AND UNDERSTAND THE CONDITIONS OF THE "NYSDEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES" (NYSDEC SPDES GENERAL PERMIT) IN EFFECT.
 - THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL READ AND SIGN THE CERTIFICATION STATEMENT PROVIDED IN THE APPENDICES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
 - THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL IDENTIFY THE TRAINED INDIVIDUAL(S) THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE SWPPP. THE TRAINED INDIVIDUAL(S) SHALL READ AND SIGN THE CERTIFICATION STATEMENT PROVIDED IN THE SWPPP. A COPY OF THE SIGNED CERTIFICATION STATEMENT SHALL BE PLACED IN THE SITE LOG BOOK AND GIVEN TO THE TOWN FOR THEIR RECORDS.
 - THE TRAINED INDIVIDUAL(S) SHALL PROVIDE DOCUMENTATION THAT HE/SHE HAS RECEIVED TRAINING IN PROPER EROSION AND SEDIMENT CONTROL PRINCIPLES FROM A SOIL AND WATER CONSERVATION DISTRICT, OR OTHER NYSDEC ENDORSED ENTITY TO THE TOWN FOR THEIR RECORDS.
 - THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CONSTRUCTION PERMITS NECESSARY FOR THE WORK OUTLINED HEREIN.
 - THE TRAINED CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL STORMWATER POLLUTION PREVENTION MEASURES OUTLINED IN THE SWPPP AND PROJECT PLANS.
 - THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF WALKILL DIRECTOR OF PUBLIC WORKS/HIGHWAY SUPERINTENDENT, TOWN ENGINEER, APPLICANT'S ENGINEER, CONTRACTOR, AND OTHER NECESSARY PROJECT DESIGN PROFESSIONAL AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE CONTRACTOR OR OWNER SHALL HAVE THE QUALIFIED PROFESSIONAL, AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT, CONDUCT AN INITIAL SITE ASSESSMENT AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES AS DEPICTED ON THE PLANS HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED PRIOR TO COMMENCEMENT OF CONSTRUCTION. REFER TO SWPPP FOR THE INITIAL SITE ASSESSMENT GUIDELINES.
 - THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY.
- ONCE CONSTRUCTION ACTIVITIES ARE COMPLETE, THE OWNER/OPERATOR SHALL HAVE A QUALIFIED PROFESSIONAL CONDUCT A FINAL SITE ASSESSMENT TO DETERMINE IF THE SITE MEETS THE FINAL STABILIZATION CRITERIA AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT. IF THE SITE IS DETERMINED TO MEET THE FINAL STABILIZATION CRITERIA, A NOTICE OF TERMINATION (NOT) SHALL BE COMPLETED AND SUBMITTED TO THE NYSDEC TO TERMINATE COVERAGE UNDER THE SPDES GENERAL PERMIT.

SEWER MANHOLE TESTING

- EACH MANHOLE SHALL BE VACUUM TESTED AFTER STRUCTURE HAS BEEN BACKFILLED.
- A MANHOLE WILL BE ACCEPTABLE IF THE LEAKAGE DOES NOT EXCEED AN ALLOWANCE OF 1 GALLON PER VERTICAL FOOT OF DEPTH FOR 24 HOURS.
- REGARDLESS OF THE ALLOWABLE LEAKAGE, ANY LEAKS DETECTED SHALL BE PERMANENTLY STOPPED.
- VACUUM TESTING
 - THIS TEST METHOD IS ONLY APPLICABLE TO PRECAST CONCRETE MANHOLES AND SHALL COMPLY WITH ASTM C 1244 STANDARDS.
 - ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR.
 - MANHOLES ARE TO BE TESTED IMMEDIATELY AFTER ASSEMBLY AND BEFORE BACKFILLING. NO STANDING WATER SHALL BE ALLOWED IN THE MANHOLE EXCAVATION, WHICH MAY AFFECT THE ACCURACY OF THE TEST.
 - ALL PIPES AND OTHER OPENINGS INTO THE MANHOLE SHALL BE SUITABLY PLUGGED IN SUCH A MANNER AS TO PREVENT DISPLACEMENT OF THE PLUGS WHILE THE VACUUM IS DRAWN.
 - INSTALLATION AND OPERATION OF VACUUM EQUIPMENT AND INDICATING DEVICES SHALL BE IN ACCORDANCE WITH EQUIPMENT SPECIFICATIONS AND INSTRUCTIONS PROVIDED BY THE MANUFACTURER.
 - THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE, INCLUDING THE FRAME AND COVER.
 - A VACUUM OF 10 INCHES OF MERCURY SHALL BE DRAWN. THE TIME FOR THE VACUUM TO DROP TO 9 INCHES OF MERCURY SHALL BE RECORDED.
 - ACCEPTANCE FOR 4 FT. DIAMETER MANHOLES SHALL BE DEFINED AS WHEN THE TIME TO DROP TO 9 INCHES OF MERCURY MEETS OR EXCEEDS THE FOLLOWING:

MANHOLE DEPTH	DIAMETER	TIME TO DROP 1" HG
10 FT OR LESS	4 FT	60 SECONDS
10 FT TO 15 FT	4 FT	75 SECONDS
15 FT TO 25 FT	4 FT	90 SECONDS
 - FOR MANHOLES 5 FT. IN DIAMETER, ADD AN ADDITIONAL 15 SECONDS AND FOR MANHOLES 6 FT. IN DIAMETER, ADD AN ADDITIONAL 30 SECONDS TO THE TIME REQUIREMENTS FOR 4 FT. DIAMETER MANHOLES.
 - IF THE MANHOLE FAILS THE INITIAL TEST, REPAIRS SHALL BE MADE BY AN APPROVED METHOD. THEN THE MANHOLE SHALL BE RETESTED UNTIL A SATISFACTORY TEST IS OBTAINED.

GRAVITY SEWER MAIN TESTING

- THE CONTRACTOR SHALL TEST THE COMPLETED SEWERS, INCLUDING MANHOLES AND LATERALS, FOR LEAKAGE BY LOW-PRESSURE AIR EXFILTRATION TESTS AND DEFLECTION TEST (MANDREL) AS SPECIFIED HEREIN. THE TESTS WILL BE CONDUCTED AS APPROVED BY THE OWNER'S FIELD REPRESENTATIVE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT, MATERIALS AND LABOR FOR PERFORMING THE TESTS AS SPECIFIED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER'S FIELD REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE START OF TESTING. TESTING SHALL ONLY BE PERFORMED IN THE PRESENCE OF THE OWNER'S FIELD REPRESENTATIVE.
- SECTIONS OF PIPE TESTED FOR INFILTRATION AND EXFILTRATION PRIOR TO COMPLETION OF THE PROJECT SHALL BE SUBJECT TO ADDITIONAL LEAKAGE TESTS, IF WARRANTED IN THE OPINION OF THE OWNER'S FIELD REPRESENTATIVE, PRIOR TO ACCEPTANCE OF THE PROJECT.
- THE TEST LENGTH INTERVALS FOR EITHER TYPE OF LEAKAGE TEST SHALL BE APPROVED BY THE OWNER'S FIELD REPRESENTATIVE, BUT IN NO EVENT SHALL THEY EXCEED ONE THOUSAND (1000) FEET. IN THE CASE OF SEWERS LAID ON STEEP GRADES, THE LENGTH OF LINE TO BE TESTED BY EXFILTRATION AT ANY ONE TIME MAY BE LIMITED BY THE MAXIMUM ALLOWABLE INTERNAL PRESSURE ON THE PIPE AND JOINTS AT THE LOWER END OF THE LINE.
- THE TEST PERIOD, WHEREIN THE MEASUREMENTS ARE TAKEN SHALL NOT BE LESS THAN 4 HOURS IN EITHER TYPE OF TEST.
- LOW-PRESSURE AIR EXFILTRATION TEST
 - THE LOW PRESSURE AIR EXFILTRATION TEST SHALL COMPLY WITH ASTM F 1417 STANDARDS.
 - THE SEWER MAINS AND/OR LATERALS SHALL BE TESTED FOR LEAKAGE BY THE USE OF LOW-PRESSURE AIR AS SPECIFIED HEREINAFTER AND AS APPROVED BY THE OWNER'S FIELD REPRESENTATIVE. THE TEST LENGTH SHALL NOT EXCEED ONE (1) INTERVAL OF PIPE BETWEEN 2 MANHOLES. AIR TEST PROCEDURES MAY BE DANGEROUS AND THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT BLOWOUTS.
 - AFTER THE PIPE HAS BEEN BACKFILLED AND CLEANED, PNEUMATIC PLUGS SHALL BE PLACED IN THE LINE AT EACH MANHOLE AND INFLATED TO 25 PSI. LOW-PRESSURE AIR SHALL BE INTRODUCED INTO THE LINE UNTIL THE INTERNAL AIR PRESSURE IS INCREASED TO 4 PSI GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUND WATER THAT MAY BE OVER THE PIPE. AT LEAST TWO (2) MINUTES SHALL BE ALLOWED FOR THE AIR PRESSURE TO STABILIZE.
 - AFTER THE STABILIZATION PERIOD (3.5 PSI MINIMUM PRESSURE IN THE PIPE), THE PORTION OF LINE BEING TESTED SHALL BE ACCEPTABLE IF THE TIME REQUIRED IN MINUTES FOR THE PRESSURE TO DECREASE FROM 3.5 TO 3.0 PSI (GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUND WATER THAT MAY BE OVER THE PIPE) IS NOT LESS THAN 5.0 MINUTES FOR AN 8 INCH PIPE.
- DEFLECTION TEST
 - DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM.
 - NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, REPLACEMENT OR CORRECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH REQUIREMENTS IN APPROVED SPECIFICATIONS.
 - THE RIGID BALL OR MANDREL USED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AN INSIDE DIAMETER OF THE PIPE DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED. THE TEST SHALL BE PERFORMED WITHOUT THE AID OF MECHANICAL PULLING DEVICES.

DEMOLITION NOTES

- CLEARING AND GRUBBING OF ALL TREES (INCLUDING REMOVAL OF ANY ASSOCIATED ROOT SYSTEMS AND STUMPS) AND VEGETATION DESIGNATED FOR REMOVAL SHOULD BE PERFORMED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING STRUCTURES, PAVEMENTS, PATHWAYS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. THAT ARE INDICATED ON PLANS.
- CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATION, ORDINANCES, AND STATUTES.
- THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.
- UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT, OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES, OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY, OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT, OR DISPOSAL OR ASBESTOS OR OTHER HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL VERIFY THAT A SOIL EROSION AND SEDIMENT CONTROL PERMIT HAS BEEN OBTAINED FOR DEMOLITION ACTIVITIES. CONTRACTOR SHALL COMPLY WITH THE CONDITIONS THEREON BY INSTALLING AND MAINTAINING ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AND MAKING REQUIRED NOTIFICATIONS.

CONSTRUCTION SEQUENCING NOTES

CLEARING AND GRUBBING / REMOVAL ACTIVITIES

- FLAG THE DISTURBANCE LIMITS PRIOR TO THE COMMENCEMENT OF CLEARING AND GRUBBING ACTIVITIES.
- ACCESS TO THE SITE WILL INITIALLY BE PROVIDED OFF OF ROBBINS ROAD. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON PROJECT PLANS.
- INSTALL CONSTRUCTION FENCE, PERIMETER SILT FENCE AND TREE PROTECTION MEASURES AS SHOWN ON THE PROJECT PLANS.
- CLEARING AND GRUBBING / REMOVAL ACTIVITIES SHALL BE PERFORMED WITHIN THE DISTURBANCE LIMITS.
- INSPECT ALL EROSION CONTROL MEASURES DURING CLEARING AND GRUBBING / REMOVAL ACTIVITIES. REPAIR ANY DAMAGED EROSION CONTROL MEASURES UPON DISCOVERY.

BULK GRADING CONSTRUCTION

- A MINIMUM OF 2 SITE INSPECTIONS WILL BE CONDUCTED EVERY 7 CALENDAR DAYS BY THE QUALIFIED INSPECTOR TO ENSURE THE STABILITY AND EFFECTIVENESS OF ALL PROTECTIVE MEASURES AND PRACTICES DURING CONSTRUCTION FOR AS LONG AS MORE THAN 5-ACRES OF LAND REMAINS DISTURBED.
- STRIP TOP SOIL AND TEMPORARILY STOCKPILE THE MATERIAL ON-SITE. THE LOCATIONS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS; HOWEVER, LOCATIONS CAN BE ADJUSTED AS THE EARTHWORK OPERATIONS PROGRESS. STOCKPILES SHALL BE PROTECTED FROM EROSION WITH SEED/MULCH AND SHALL BE COVERED IN RAIN EVENTS. REFER TO PROJECT DETAILS FOR ADDITIONAL INFORMATION.
- BEGIN EXCAVATION OF TEMPORARY SEDIMENT BASIN.
 - THE TEMPORARY SEDIMENT BASIN SHALL BE GRADED TO THE TOP OF THE GRAVEL LAYER IN THE BIORETENTION PRACTICE. INSTALL DEWATERING DEVICES AND OUTLET CONTROL STRUCTURES WITH DEWATERING RISER IN ACCORDANCE WITH THE PROJECT PLANS. COVER THE PRIMARY INLET OF THE OUTLET CONTROL STRUCTURE WITH AMOCO TYPE 4545 OR APPROVED EQUAL CONSTRUCTION FABRIC TO PREVENT FINES FROM ENTERING THE STORMWATER DISCHARGE.
 - INSTALL TEMPORARY DIVERSION MEASURES TO ENSURE THAT STORMWATER RUNOFF IS CONVEYED TO THE TEMPORARY SEDIMENT BASIN.
 - USE EXCAVATED MATERIAL GENERATED FROM THE TEMPORARY SEDIMENT BASIN TO CONTINUE BULK GRADING OPERATIONS.
- STOCKPILE MATERIAL AS NEEDED. STOCKPILES SHALL BE PROTECTED FROM EROSION WITH SEED/MULCH AND SHALL BE COVERED IN RAIN EVENTS. REFER TO PROJECT DETAILS FOR ADDITIONAL INFORMATION.
- TO MINIMIZE UNNECESSARY DISTURBANCES, FILL AREAS SHALL BE MAINTAINED TO ENABLE THE INSTALLATION OF THE FILL. THE FILL PROGRESSES, WHEREVER POSSIBLE, DRAINAGE STRUCTURES SHALL HAVE INLET PROTECTION INSTALLED.
- ACTIVELY STABILIZE THE DISTURBED AREAS THAT ARE AT FINAL GRADE OR SUBGRADE ELEVATIONS. AREAS THAT WILL BE VEGETATED IN THE FINAL CONDITIONS SHALL NOT BE STABILIZED WITH STONE. VEGETATED AREAS SHALL BE TEMPORARILY STABILIZED WITH HYDRO-SEEDING, MULCHING, HAYING, OR SPREADING WOOD CHIP. IMPERVIOUS AREAS ARE TO BE STABILIZED WITH GRAVEL.
- THE TEMPORARY SEDIMENT BASINS SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBANCE ACTIVITIES THAT CONTRIBUTE TO THE TEMPORARY SEDIMENT BASINS HAVE BEEN COMPLETED.
- THE PERMANENT STORMWATER MANAGEMENT PRACTICES SHALL NOT BE COMPLETED UNTIL THE END OF THE CONTRIBUTING AREAS TO THE PRACTICES HAVE BEEN CONSTRUCTED AND STABILIZED.
- WHEN APPROPRIATE, REMOVE ALL ACCUMULATED SEDIMENT WITHIN THE TEMPORARY SEDIMENT BASINS. REMOVE THE TEMPORARY PERFORATED RISERS AND CONSTRUCTION FABRIC FROM OUTLET CONTROL STRUCTURES.

GENERAL CONSTRUCTION

- ONE SITE INSPECTIONS WILL BE CONDUCTED EVERY 7 CALENDAR DAYS BY THE QUALIFIED INSPECTOR TO ENSURE THE STABILITY AND EFFECTIVENESS OF ALL PROTECTIVE MEASURES AND PRACTICES DURING CONSTRUCTION.
- AFTER BULK GRADING IS COMPLETED, CONSTRUCT ALL REMAINING SITE UTILITIES AND UTILITY SERVICE CONNECTIONS AS SHOWN ON THE PROJECT PLANS.
- INSTALL INLET PROTECTION MEASURES AT ALL INLETS AND AT THE ENDS OF ALL EXPOSED STORMWATER PIPES AND RIP RAP AT THE LOCATIONS SHOWN ON THE PLANS.
- DELIVER BUILDING MATERIALS TO DESIGNED STAGING AREAS FOR CONSTRUCTION.
- PREPARE IMPERVIOUS AREA SUBBASE MATERIAL.
- FINISH GRADING AND STABILIZE ALL DISTURBED AREAS. ALL CATCH BASINS, DRAINAGE MANHOLES, AND DRAINAGE LINES SHALL BE CLEANED OF ANY ACCUMULATED SILT AND SEDIMENT.
- REMOVE ALL ACCUMULATED SEDIMENT WITHIN THE TEMPORARY SEDIMENT BASINS. REMOVE THE TEMPORARY PERFORATED RISERS AND CONSTRUCTION FABRIC FROM OUTLET CONTROL STRUCTURES.
- FINALIZE CONSTRUCTION OF THE BIORETENTION AREA AND WET POND UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
- INSTALL ALL PLANTINGS IN ACCORDANCE WITH THE LANDSCAPE PLANS.
- INSTALL PAVERS.
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. IMMEDIATELY STABILIZE THE AREAS DISTURBED DURING THEIR REMOVAL. ESTABLISH PERMANENT VEGETATIVE COVER AND INSTALL ALL LANDSCAPING.

STABILIZATION OF DISTURBED SURFACES

- MULCH (INCLUDING GRAVEL MULCH) - MULCH OFFERS AN EFFECTIVE MEANS OF STABILIZATION. THIS CAN ALSO INCLUDE ROLLED EROSION CONTROL BLANKETS.
- SPRAY ADHESIVES - THESE ARE PRODUCTS GENERALLY COMPOSED OF POLYMERS IN A LIQUID OR SOLID FORM THAT ARE MIXED WITH WATER TO FORM AN EMULSION THAT IS SPRAYED ON THE SOIL SURFACE WITH TYPICAL HYDROSEEDING EQUIPMENT. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC SOILS ON THE SITE. IN NO CASE SHOULD THE APPLICATION OF THESE ADHESIVES BE MADE ON WET SOILS OR IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS AND OTHERS WORKING WITH THE MATERIAL.
- POLYMER ADDITIVES - THESE POLYMERS ARE MIXED WITH WATER AND APPLIED TO THE DRIVING SURFACE BY A WATER TRUCK WITH A GRAVITY FEED DRIP BAR, SPRAY BAR, OR AUTOMATED DISTRIBUTOR TRUCK. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INCORPORATION OF THE EMULSION INTO THE SOIL WILL BE DONE TO THE APPROPRIATE DEPTH BASED ON EXPECTED TRAFFIC. COMPACTION AFTER INCORPORATION WILL BE BY VIBRATORY ROLLER TO A MINIMUM OF 95% THE PREPARED SURFACE SHALL BE MOIST AND NO APPLICATION OF THE POLYMER WILL BE MADE IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS WORKING WITH THE MATERIAL.
- BARRIERS - WOVEN GEOTEXTILES CAN BE PLACED ON THE DRIVING SURFACE TO EFFECTIVELY REDUCE DUST THROW AND PARTICLE MIGRATION ON HAUL ROADS. STONE CAN ALSO BE USED FOR CONSTRUCTION ROADS FOR EFFECTIVE DUST CONTROL.
- SEEDING - REFER TO LANDSCAPE PLANS AND DETAILS.

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.	Signature	Date Signed
11/08/2024				

Date	Description	No.	Signature	Date Signed
	REVISIONS			

11/08/2024
DATE SIGNED

PROFESSIONAL ENGINEER NY Lic. No. 081473

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Project
NEWBURGH GAS STATION
BLOCK No. 1, LOT No. 80.1 & 80.2
TOWN OF NEWBURGH
NEW YORK
Orange County

Drawing Title
LEGEND AND NOTES

Project No.
190062401

Date
OCTOBER 14, 2024

Drawn By
GN

Checked By
BS

Drawing No.
GI001

Sheet 2 of 9

LANGAN PROJECT NO. 190062401

SURVEY NOTES

- EXISTING CONDITIONS INFORMATION SHOWN ON THIS BASEMAP IS PER PLAN TITLED "EXISTING SITE PLAN, SBL: 89-1-(80.1 & 80.2)", PREPARED BY ZEN CONSULTANTS, INC., BASED ON SURVEYOR INFORMATION, ANTHONY VALDINA. IN ADDITION, EXISTING PLANIMETRIC INFORMATION IN THE STATE RIGHT OF WAY FOR NY-747 IS BASED ON GIS INFORMATION FROM THE NYS CLEARINGHOUSE, 2024.
- THE FOLLOWING NOTES ARE REFERENCED FROM THE ABOVE MENTIONED PLAN.
- 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 N.Y. STATE EDUCATION LAW.
- ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED OR INK SEAL SHALL BE CONSIDERED TO BE VALID COPIES.
- CERTIFICATIONS SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE CO., GOVERNMENTAL AGENCY, AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
- UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS, IF ANY, ARE NOT SHOWN HEREON.
- SURVEYED IN ACCORDANCE WITH DEEDS, FILED MAPS, AND PHYSICAL MONUMENTATION FOUND AT THE TIME OF SURVEY.
- SUBJECT TO ANY STATE ON FACTS THAT MAY BE REVEALED BY AN UP TO DATE TITLE ABSTRACT REPORT.

HIGHWAY TAKING REFERENCES:

- HIGHWAY TAKING MAP FOR RECONSTRUCTION OF INTERSTATE ROUTE 503, MAP 777 - PARCEL 1158.
- HIGHWAY TAKING MAP FOR CONSTRUCTION OF INTERSTATE ROUTE 503-1-6.2, MAP 678 - PARCELS 1051, 1052, 1053, 1054 & 1055.
- HIGHWAY TAKING MAPS FOR THE RECONSTRUCTION OF DRURY LANE (CO. ROAD NO. 54) MAP 27 - PARCELS 27 & 28.
- ORANGE COUNTY TAKINGS FOR DRURY LANE, L.1244, P.233.
- HIGHWAY TAKING MAPS FOR THE RECONSTRUCTION OF DRURY LANE MAP 38, PARCEL 39 & 40.

EASEMENT & LEASE REFERENCES:

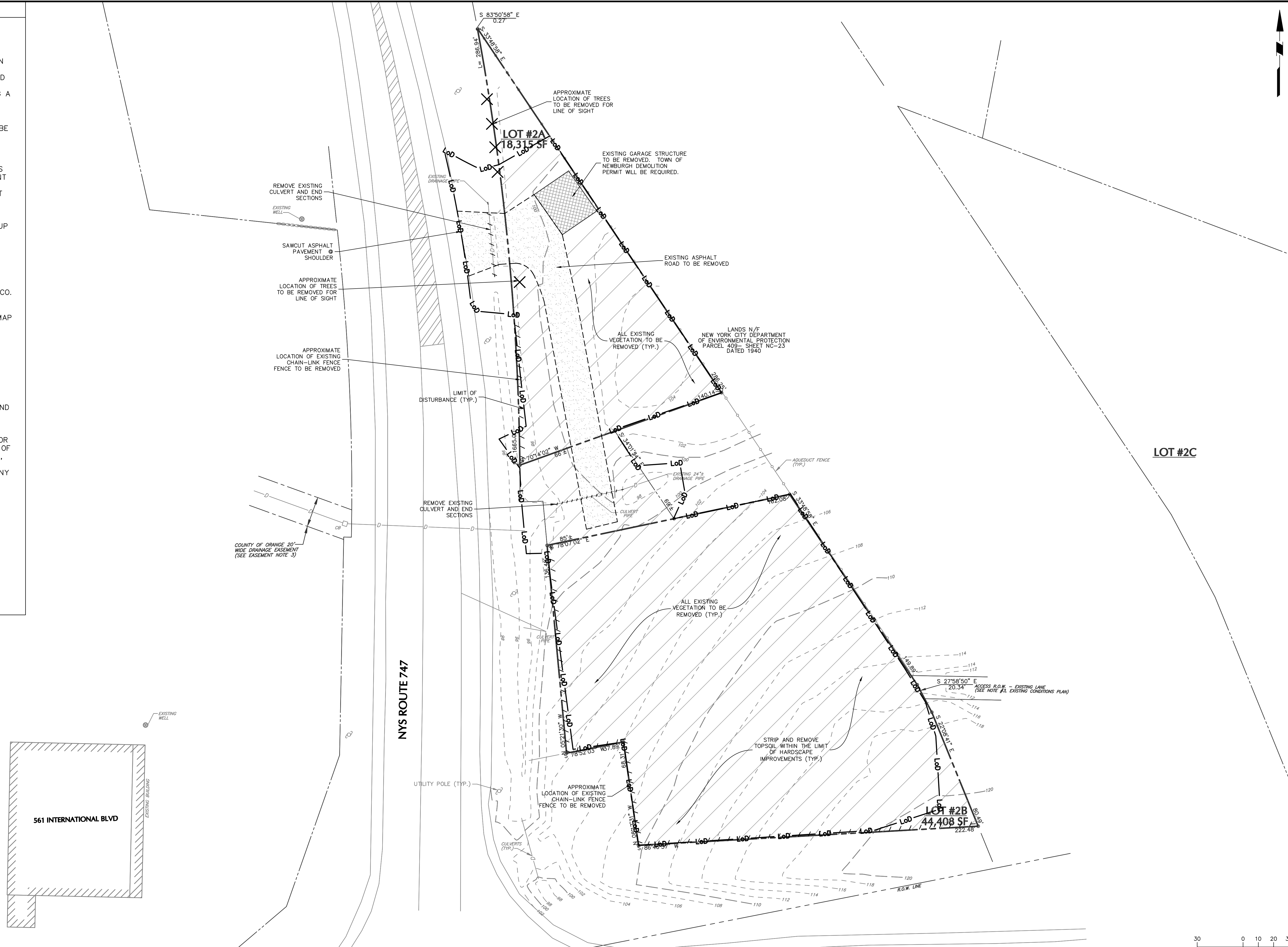
- TEMPORARY EASEMENT MAP 28 - PARCEL 29
- AT&T EASEMENT, L.1047, P.377
- ORANGE COUNTY DRAINAGE EASEMENT, L.2476, P.149
- OIL & GAS LEASES, L.2057, P.1134 & L.2216, P.570

NOTES:

- LOT 2B & 2C HAVE RIGHT OF ACCESS THRU LOT 2A FOR INGRESS AND EGRESS TO DRURY LANE.
- LOT 2A & 2B SUBJECT TO THE RIGHT OF LOT 2C FOR INGRESS AND EGRESS TO DRURY LANE.
- TOGETHER WITH A RIGHT OF WAY IN FAVOR OF LOT 2C AS SHOWN FOR INGRESS AND EGRESS OVER LANDS OF NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SHOWN ON A MAP OF PARCEL 409, SHEET #NC-23, DATED 1940.
- TAX PARCELS 89-1-80.1 & 89-1-80.2 ARE INSEPARABLE DURING ANY TRANSFER OF OWNERSHIP.

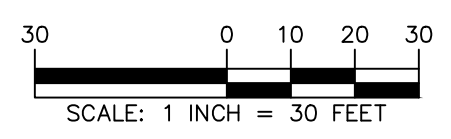
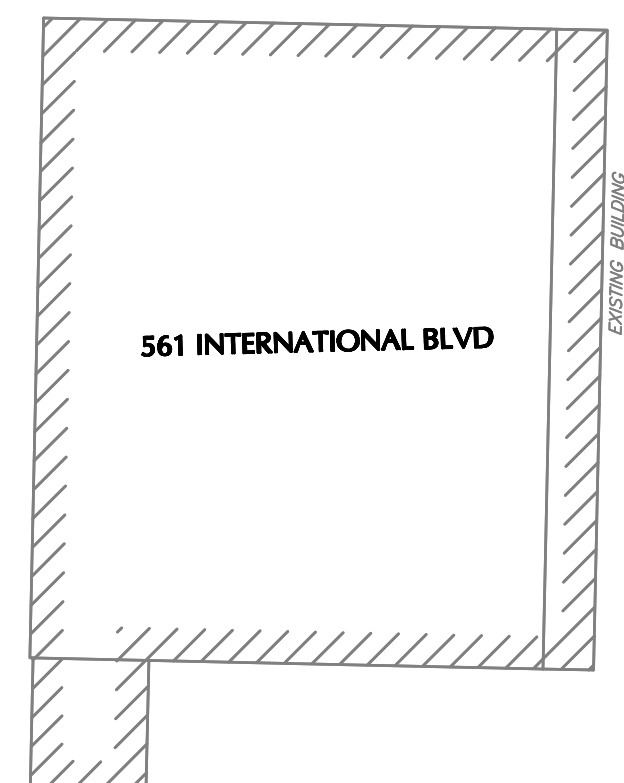
EXCEPTION REFERENCES:

- STATE OF NEW YORK NOTICES OF APPROPRIATION
 - L.1867, P.462
 - L.1788, P.99
 - L.1788, P.100
 - L.1885, P.1065
 - L.1897, P.128
- EXCEPTIONS IN L.3600, P.186
 - ANDREW C. & MILDRED SMITH, L.958, P.572
 - BARTHUR D. & DORIS M. AGOR, L.958, P.575
 - WILLIAM J. & ROSALIE E. HEITZMAN, L.1354, P.138
 - ROBERT MAZZARELLA & CAROLE H. CLARKSON, L.1713, P.542
 - GEORGE HUISS, JR. & JOHN R. HORTON, JR., L.1912, P.654
 - CAROLE H. MAZZARELLA, L.1940, P.461




PROJECT NO. 190062401

190062401



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DATE SIGNED

PROFESSIONAL ENGINEER NY Lic. No. 081473



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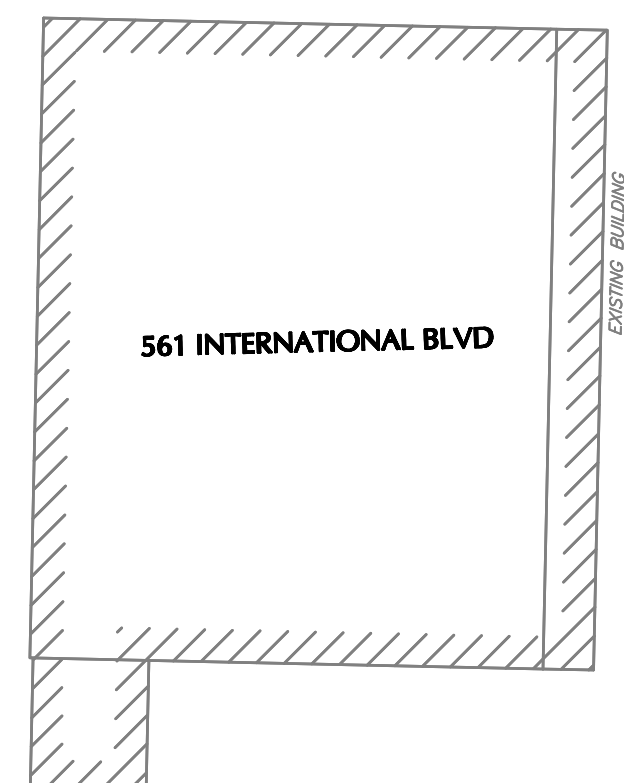
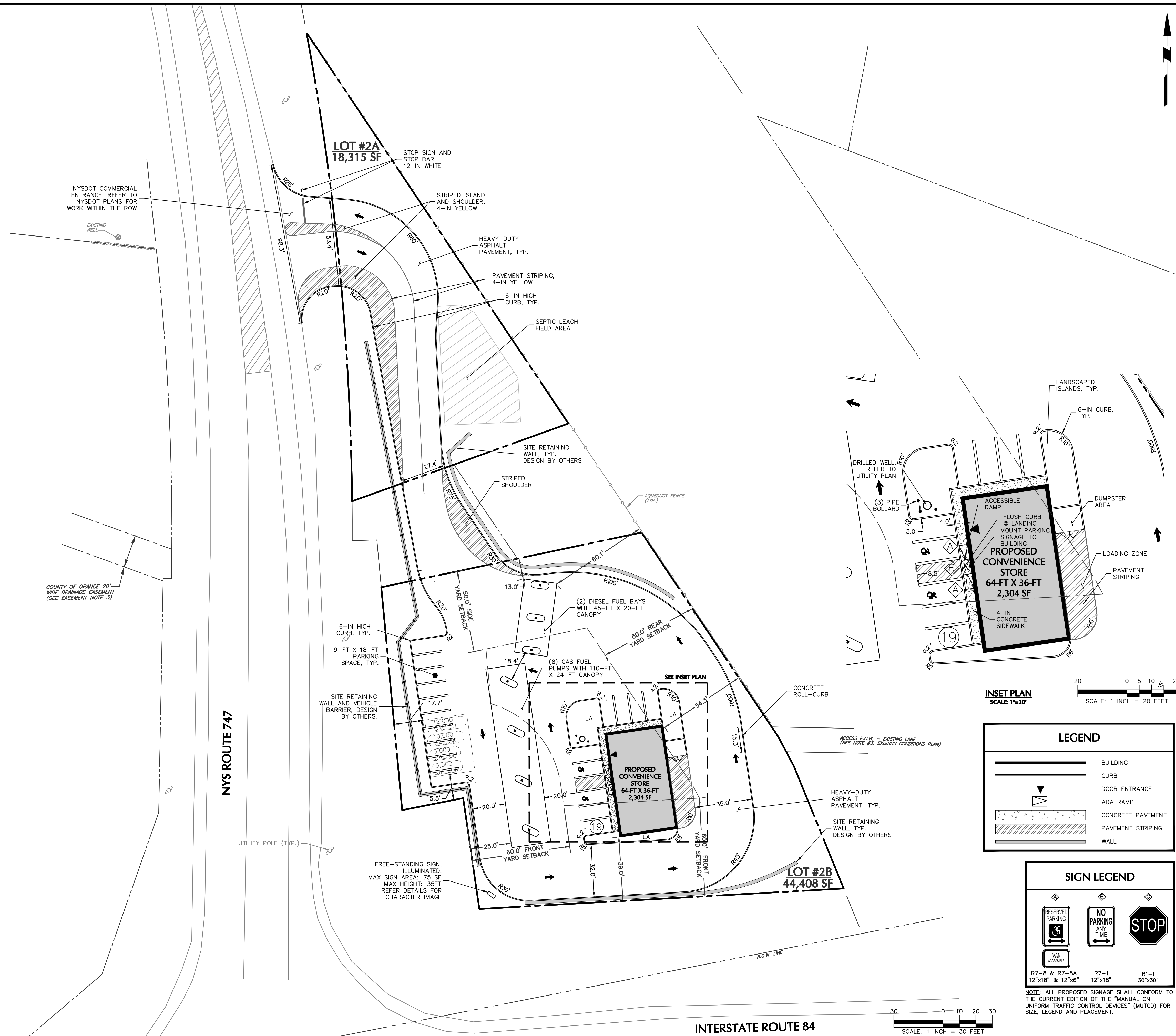
Project
NEWBURGH GAS STATION
BLOCK No. 1, LOT No. 80.1 & 80.2
TOWN OF NEWBURGH
ORANGE COUNTY NEW YORK

Drawing Title
EXISTING CONDITIONS AND REMOVALS PLAN

Project No. 190062401	Drawing No. CD101
Date OCTOBER 14, 2024	Sheet 3 of 9
Drawn By GN	
Checked By BS	

ZONING TABLE: TOWN OF NEWBURGH, NY				
INTERCHANGE BUSINESS (IB) ZONING DISTRICT				
CODE REF.	BULK REGULATION	REQUIRED	PROPOSED LOT	
			PROPOSED	COMPLIANCE
Schedule 8	PRINCIPAL USE	Use subject to site plan review by Planning Board	Convenience store with gasoline filling station	YES
Schedule 8	MIN. LOT AREA	40,000 SF	±62,723 SF (1.44 AC)	YES
Schedule 8	MIN. LOT WIDTH	150 FT	720 FT	YES
Schedule 8	MIN. LOT DEPTH	150 FT	180 FT	YES
Sect. 185-18	MIN. FRONT YARD (STATE ROAD) ⁽¹⁾	60 FT	39 FT	NO ⁽³⁾
Schedule 8	MIN. REAR YARD	60 FT	54 FT	NO ⁽³⁾
Schedule 8	MIN. SIDE YARD (ONE SIDE)	30 FT	13 FT	NO ⁽³⁾
Schedule 8	MIN. SIDE YARD (BOTH SIDES)	80 FT	N/A ⁽²⁾	
Schedule 8	MAX. LOT BUILDING COVERAGE	40%	~4%	YES
Schedule 8	MAX. BUILDING HEIGHT	40 FT	< 40 FT	YES
Schedule 8	MAX. LOT SURFACE COVERAGE	80%	~64%	YES
Sect. 185-13	PARKING SPACES	13 ⁽³⁾	19	YES

Notes:
 (1) Project has received variances from the Tw. Of Newburgh zoning board of appeals for setback encroachments (7/28/2022)
 (2) Due to the shape of the lot and multiple frontages, there is not a dimension for two side yards
 (3) Parking space requirements for gas stations is the number of vehicles being serviced (i.e. 8 gasoline pumps) plus 5.



LEGEND	
[Symbol]	BUILDING
[Symbol]	CURB
[Symbol]	DOOR ENTRANCE
[Symbol]	ADA RAMP
[Symbol]	CONCRETE PAVEMENT
[Symbol]	PAVEMENT STRIPING
[Symbol]	WALL

SIGN LEGEND		
[Symbol]	RESERVED PARKING	R7-B & R7-SA 12"x18" & 12"x6"
[Symbol]	NO PARKING ANY TIME	R7-1 12"x18"
[Symbol]	STOP	R1-1 30"x30"

NOTE: ALL PROPOSED SIGNAGE SHALL CONFORM TO THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) FOR SIZE, LEGEND AND PLACEMENT.

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Date	Description	No.
REVISIONS		

STATE OF NEW YORK
 MICHAEL J. FINN
 11/08/2024
 DATE SIGNED
 PROFESSIONAL ENGINEER, PE, LEED-AP
 NY Lic. No. 081473

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Project
NEWBURGH GAS STATION
 BLOCK No. 1, LOT No. 80.1 & 80.2
 TOWN OF NEWBURGH
 ORANGE COUNTY NEW YORK

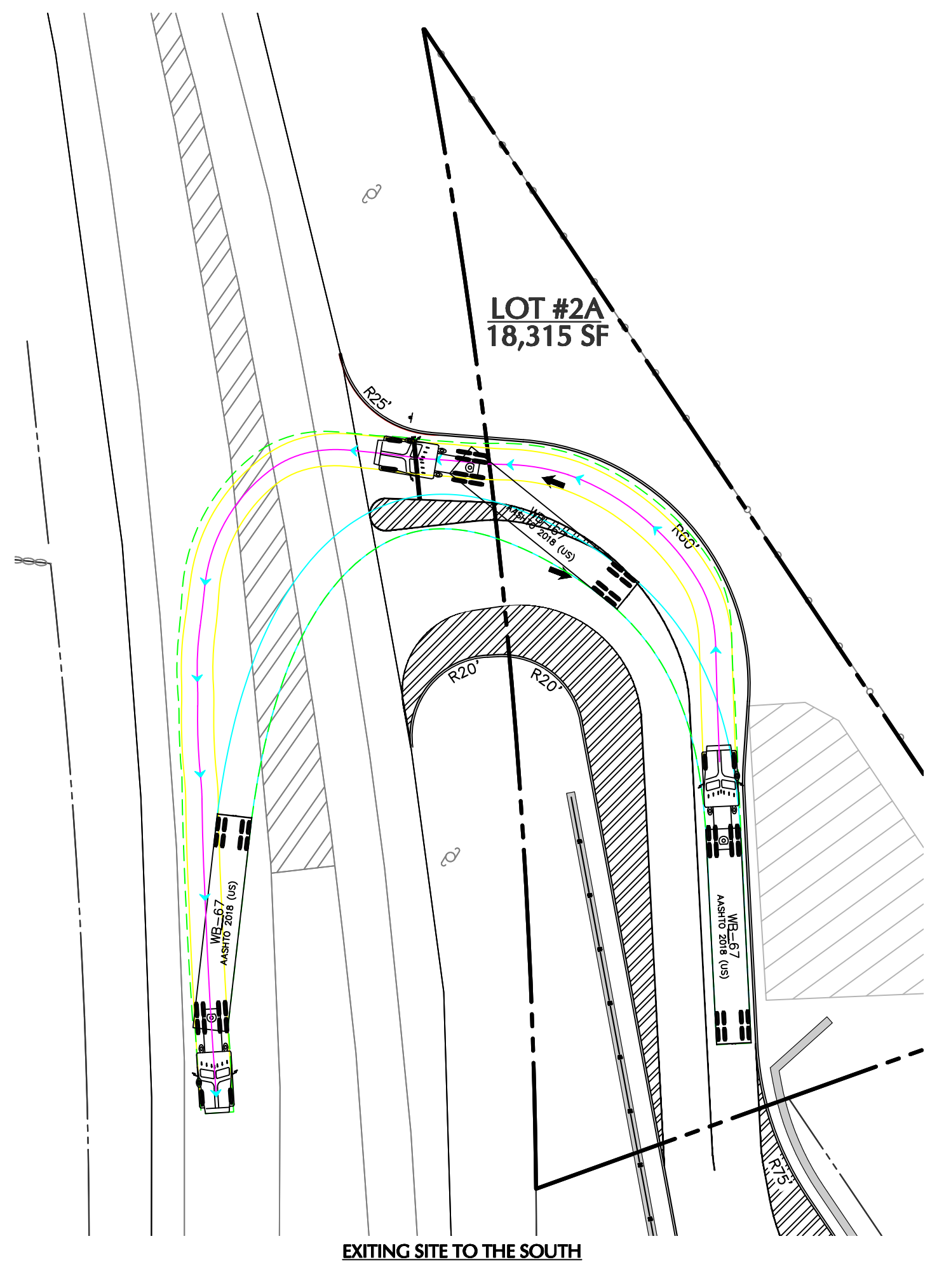
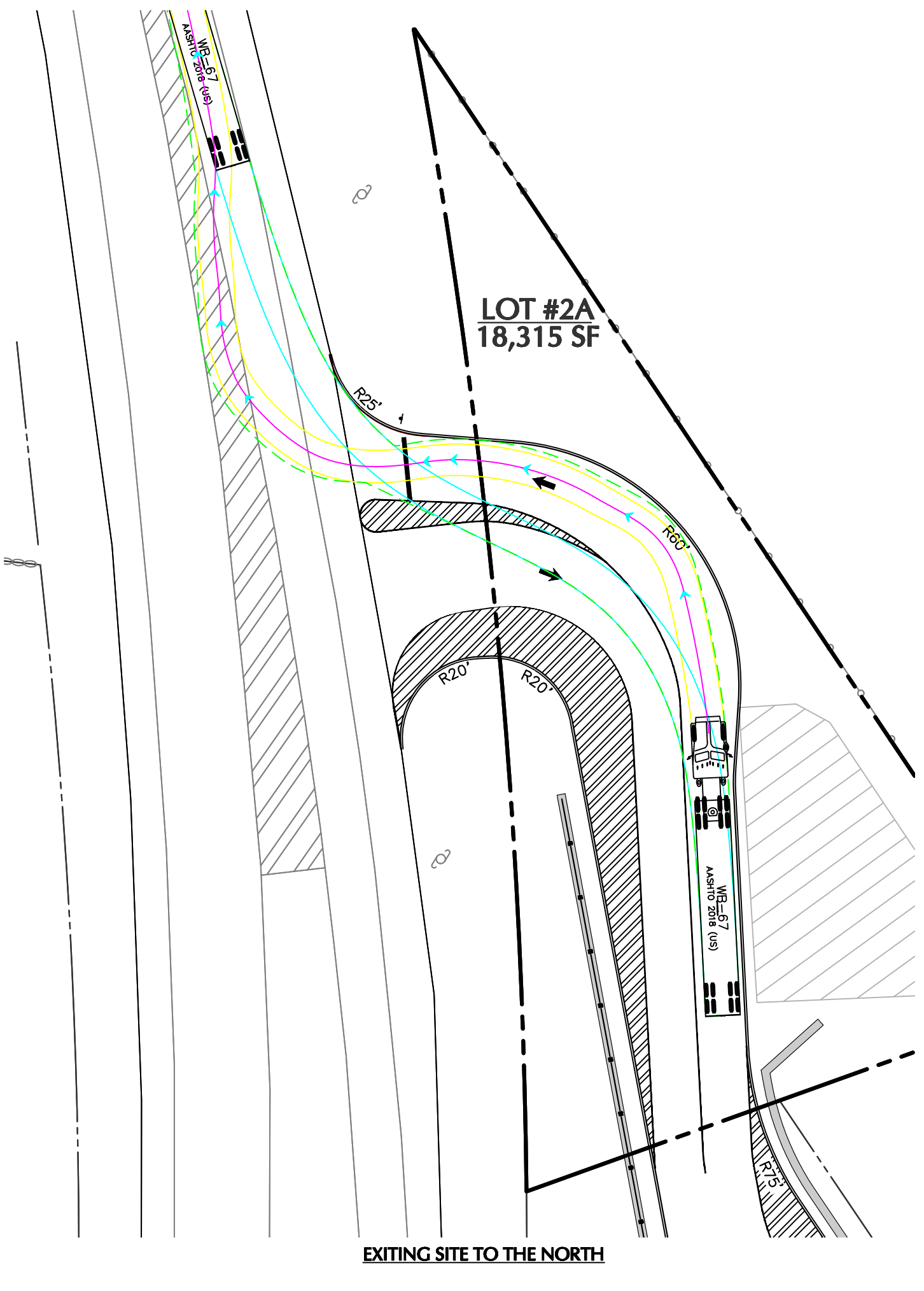
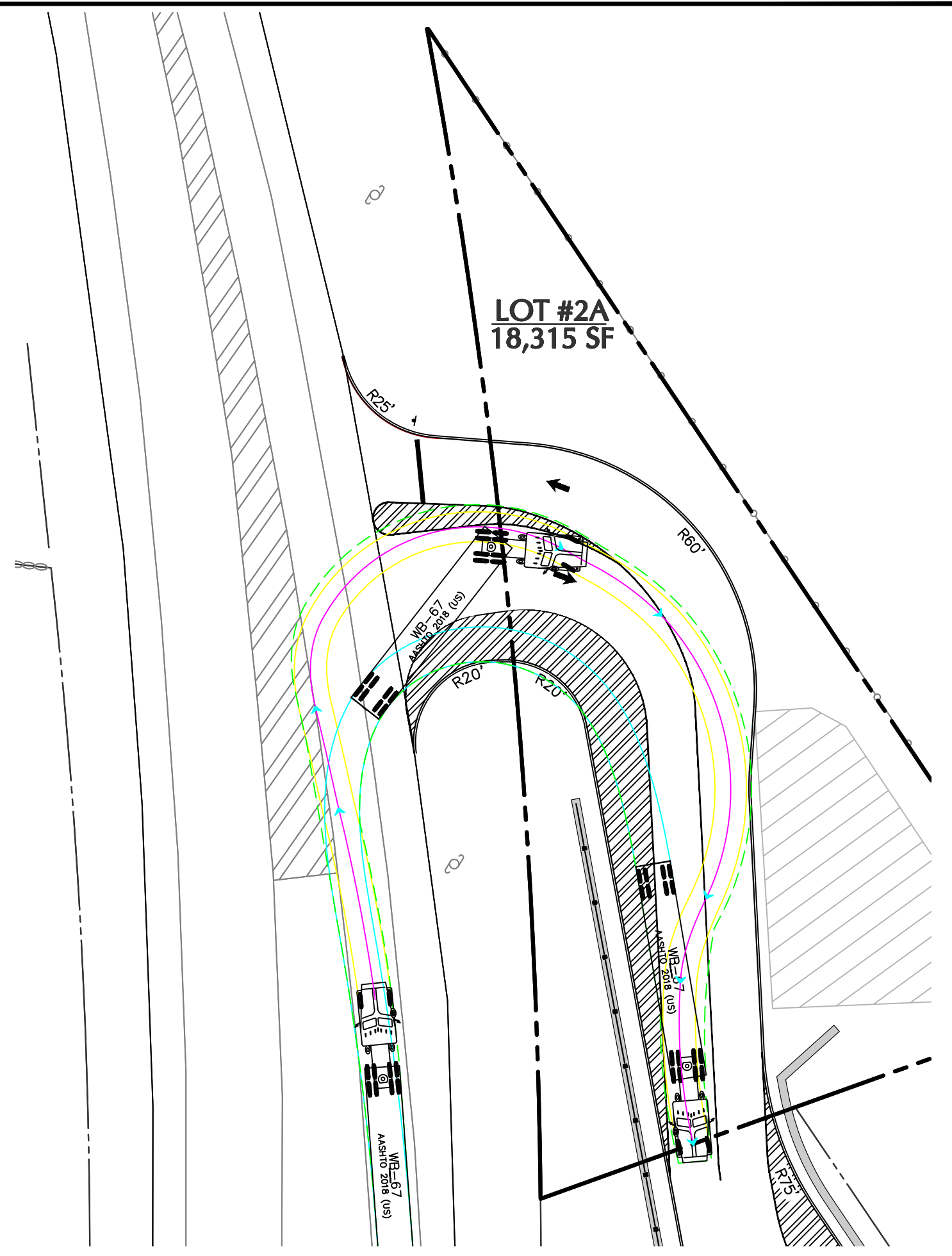
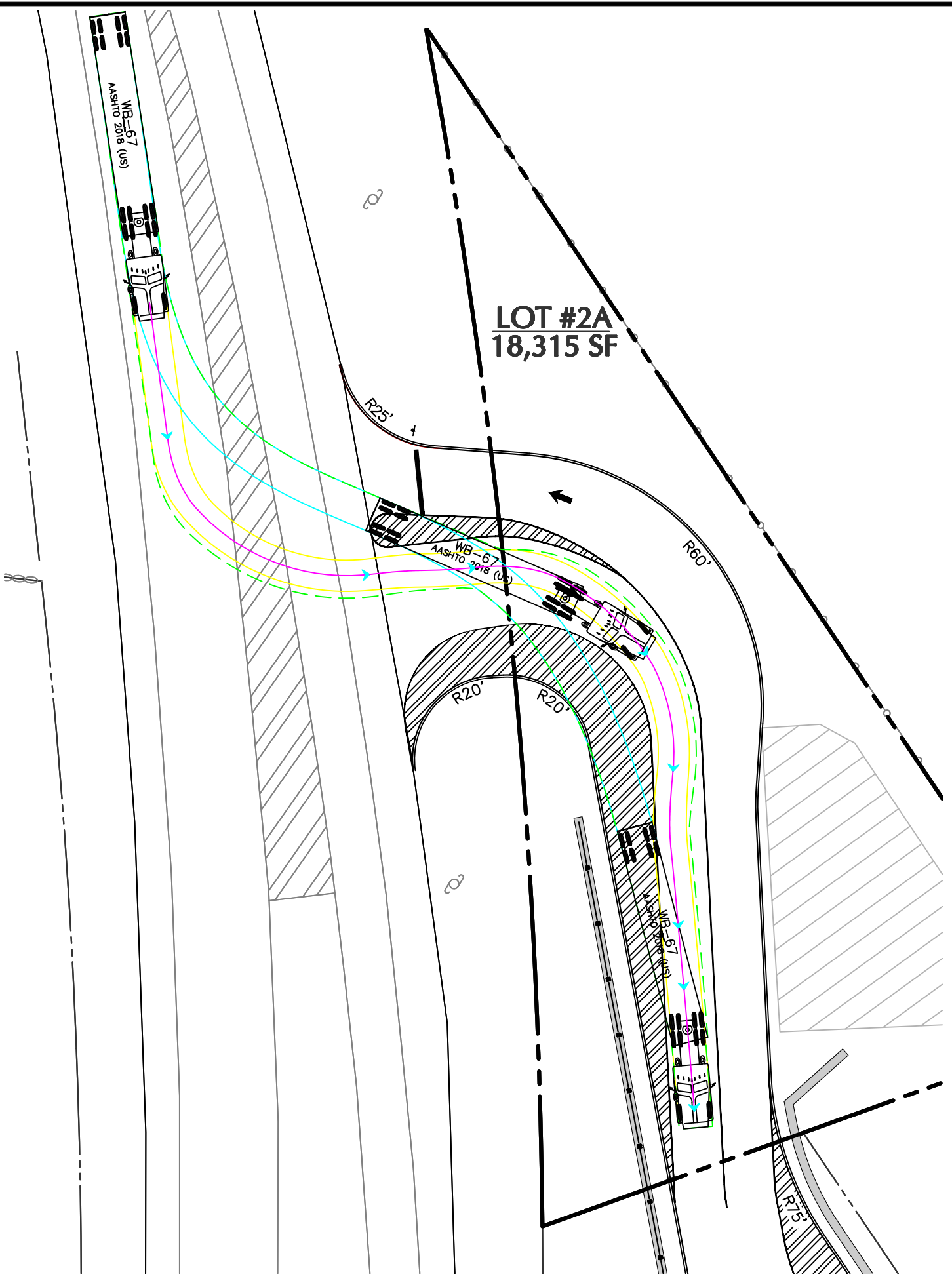
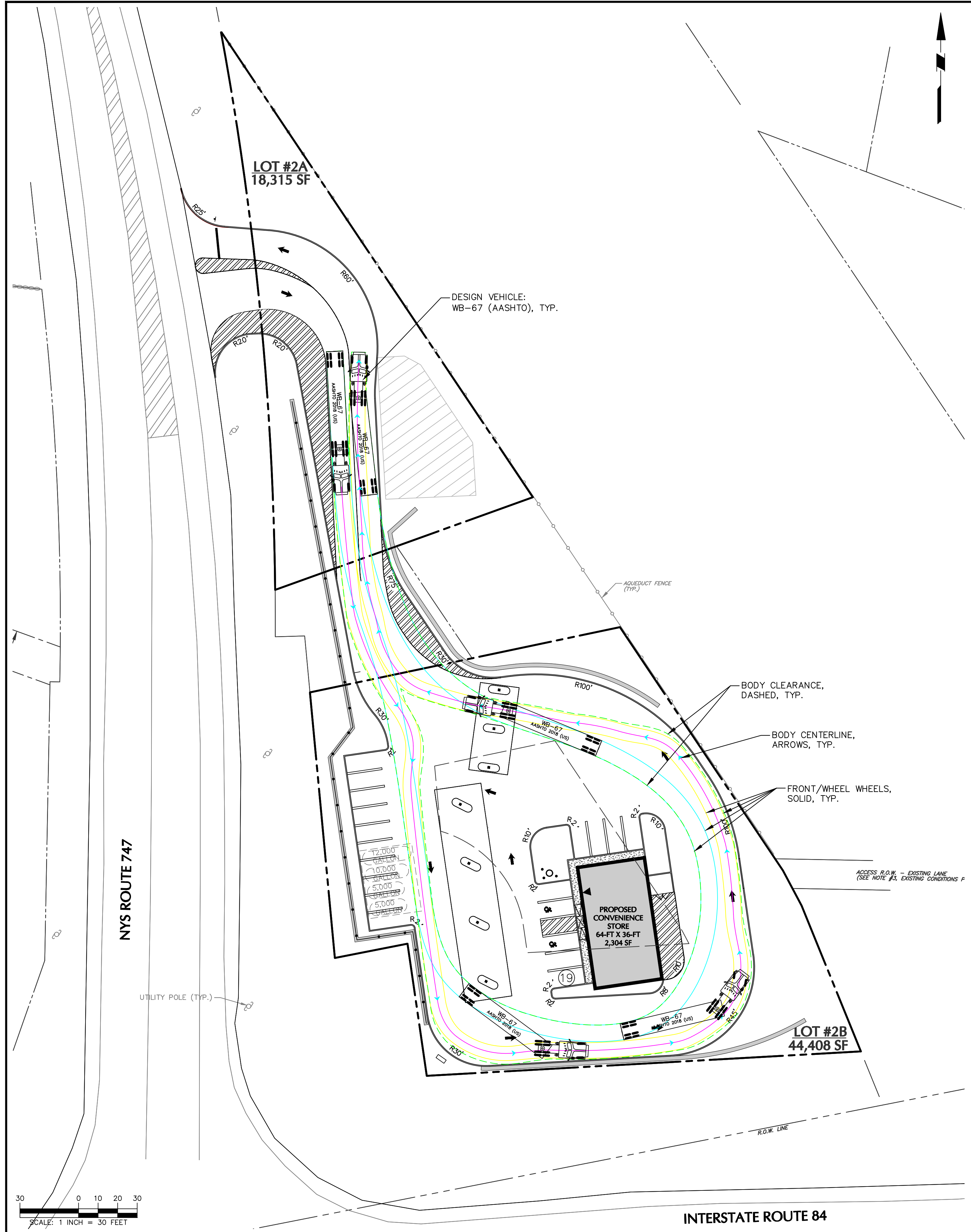
Drawing Title
SITE PLAN

Project No.
 190062401
 Date
 OCTOBER 14, 2024
 Drawn By
 GN
 Checked By
 BS

Drawing No.
CS101
 Sheet 4 of 9

INTERSTATE ROUTE 84
 SCALE: 1 INCH = 30 FEET

LANEAM PROJECT NO. 190062401




SCALE: 1 INCH = 30 FEET

INTERNAL SITE MANEUVERING

INTERSTATE ROUTE 84

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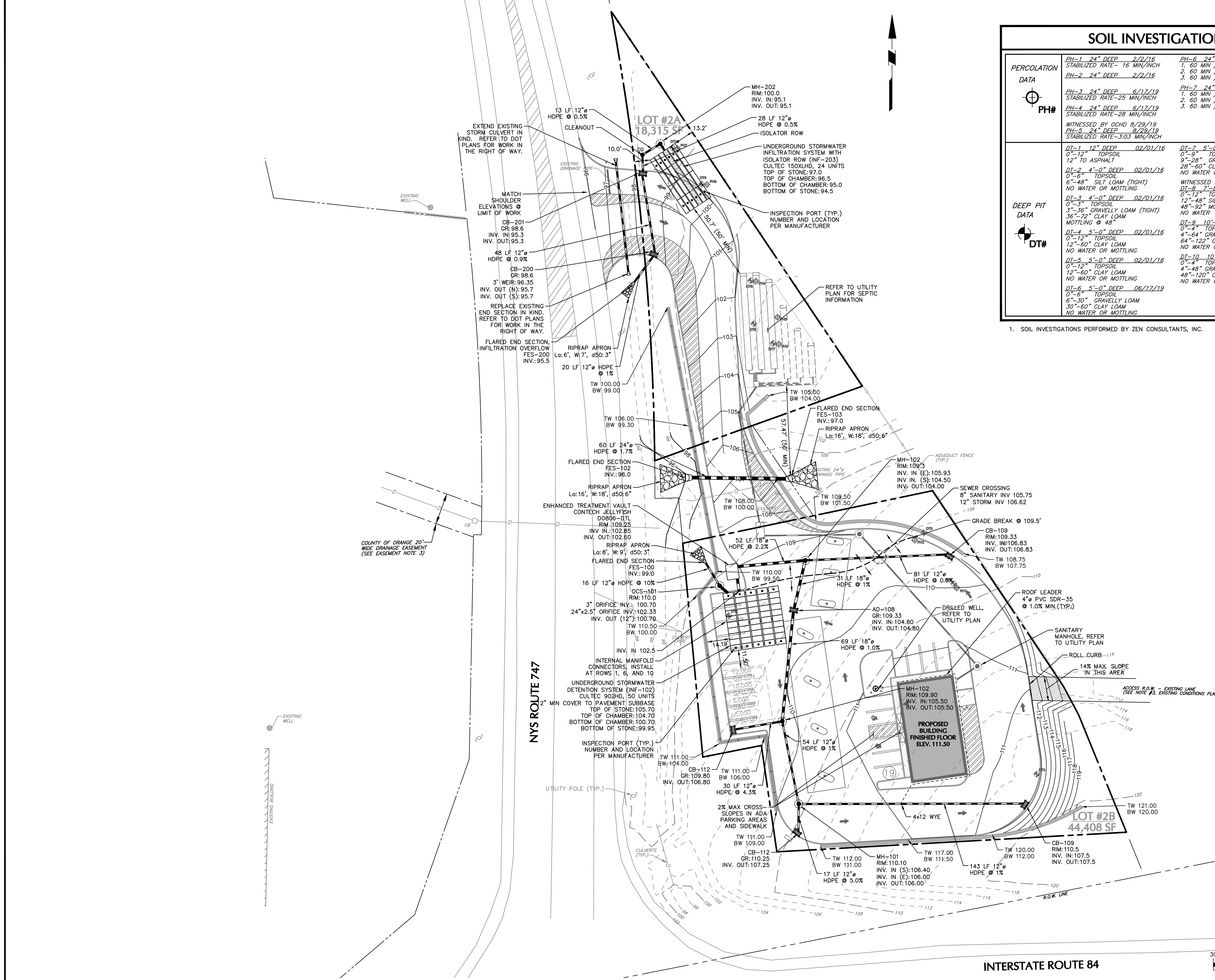
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Project
NEWBURGH GAS STATION
 BLOCK No. 1, LOT No. 80.1 & 80.2
 TOWN OF NEWBURGH
 ORANGE COUNTY NEW YORK

Drawing Title
TURNING MANEUVERS

Project No. 190062401	Drawing No. TM101
Date OCTOBER 14, 2024	Sheet g of g
Drawn By GN	
Checked By BS	

PROJECT NO. 190062401 LANEAN



SOIL INVESTIGATIONS		
PERCOLATION DATA	PH-1 24" DEEP 2/2/16 STABILIZED RATE- 16 MIN/INCH	PH-6 24" DEEP 06/27/24 1. 60 MIN / DROP 4" 2. 60 MIN / DROP 2" 3. 60 MIN / DROP 2"
	PH-2 24" DEEP 2/2/16	PH-7 24" DEEP 06/27/24 1. 60 MIN / DROP 6" 2. 60 MIN / DROP 5" 3. 60 MIN / DROP 5"
	PH-3 24" DEEP 6/17/19 STABILIZED RATE-25 MIN/INCH	
	PH-4 24" DEEP 6/17/19 STABILIZED RATE-28 MIN/INCH	
DEEP PIT DATA	DT-1 12" DEEP 02/01/16 0'-12" TOPSOIL 12" TO ASPHALT	DT-7 5'-0" DEEP 06/17/19 0'-9" TOPSOIL 9'-28" GRAVELLY LOAM 28'-60" CLAY LOAM NO WATER OR MOTTLING
	DT-2 4'-0" DEEP 02/01/16 0'-6" TOPSOIL 6'-48" SILT LOAM (TIGHT) NO WATER OR MOTTLING	DT-8 7'-8" DEEP 08/29/19 0'-12" TOPSOIL 12'-48" SILTY LOAM W/ GRAVEL/STONES 48'-92" MOTTLED CLAY LOAM NO WATER
	DT-3 4'-0" DEEP 02/01/16 0'-3" TOPSOIL 3'-36" GRAVELLY LOAM (TIGHT) 36'-72" CLAY LOAM MOTTLING @ 48"	DT-9 10'-8" DEEP 06/24/24 0'-4" TOPSOIL 4'-64" GRAVELLY LOAM 64'-122" CLAY LOAM W/ STONES NO WATER OR MOTTLING
	DT-4 5'-0" DEEP 02/01/16 0'-12" TOPSOIL 12'-60" CLAY LOAM NO WATER OR MOTTLING	DT-10 10'-0" DEEP 06/24/24 0'-4" TOPSOIL 4'-48" GRAVELLY LOAM 48'-120" CLAY LOAM W/ STONES NO WATER OR MOTTLING
	DT-5 5'-0" DEEP 02/01/16 0'-12" TOPSOIL 12'-60" CLAY LOAM NO WATER OR MOTTLING	
	DT-6 5'-0" DEEP 06/17/19 0'-6" TOPSOIL 6'-30" GRAVELLY LOAM 30'-60" CLAY LOAM NO WATER OR MOTTLING	

1. SOIL INVESTIGATIONS PERFORMED BY ZEN CONSULTANTS, INC.

REFERENCE NOTES

- EXISTING CONDITIONS INFORMATION SHOWN HEREON ARE FROM THE PLAN ENTITLED "EXISTING SITE PLAN" PREPARED BY ZEN CONSULTANTS, INC., DATE JULY 7, 2016, ELECTRONIC FILE LAST REVISED FEBRUARY 18, 2024.

STORMWATER NOTES

- THE CONTRACTOR SHALL CALL "DIG SAFELY NEW YORK" AT 1-800-962-7962, OR 811 FOR STAKE OUT REQUESTS AT LEAST 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL SAFETY CODES.
- DESIGN, INSPECTION, AND CERTIFICATION OF THE STORMWATER SYSTEM MUST BE PERFORMED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER, OR A QUALIFIED STORMWATER PROFESSIONAL PRIOR TO BACKFILLING THE SYSTEM.
- AS-BUILT DRAWINGS OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE SUBMITTED TO THE TOWN ENGINEER.
- ALL ROOF LEADERS DRAIN SHALL HAVE AN OVERFLOW AT THE DOWNSPOUT LOCATION WITH A SPLASH BLOCK.
- ALL HDPE PIPE REFERENCES HIGH DENSITY POLYETHYLENE SMOOTH INTERIOR PIPES.
- STORMWATER MANAGEMENT SYSTEM MUST MAINTAIN A MINIMUM OF 10 FEET SEPARATION FROM ALL UTILITIES. REFER TO PLANS FOR DISTANCES FROM PROPERTY LINE AND DWELLING.
- IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION OF THE PROPOSED STORMWATER MANAGEMENT SYSTEM, THE ENGINEER IS TO BE CONTACTED IMMEDIATELY.
- ALL STORMWATER COMPONENTS ARE TO BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION FREE OF SILT AND SEDIMENT.
- IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION OF FOUNDATION, THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE ENGINEER IMMEDIATELY FOR RECOMMENDATIONS ON HOW TO PROCEED WITH FOOTING DRAINS.
- THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE ENGINEER IF DESIGN AND BASE MAP INFORMATION INACCURATELY DEPICTS THE TRUE SITE CONDITIONS. THE ENGINEER WILL THEN PROVIDE RECOMMENDATIONS ON HOW TO PROCEED.
- ALL DOWNSPOUTS SHALL HAVE EMERGENCY OVERFLOW TO GRADE.

GRADING AND DRAINAGE NOTES

- 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.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN THE RIGHT-OF-WAY AT LEAST 72 HOURS PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO START OF GRADING.
- THE CONTRACTOR SHALL COMPLETE PAVING WITH A SMOOTH TRANSITION TO EXISTING ON-SITE AND OFF-SITE FEATURES AND PROVIDE POSITIVE DRAINAGE TO EXISTING AND PROPOSED CATCH BASINS AND TRENCH DRAINS WITH NO PONDING.

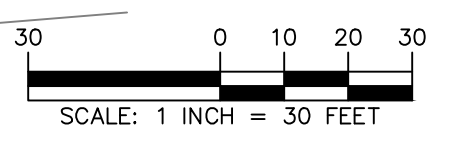
ABBREVIATIONS:

- FFE = FINISHED FLOOR ELEVATION
- TC = TOP OF CURB
- BC = BOTTOM OF CURB
- TW = TOP OF WALL
- BW = BOTTOM OF WALL
- HDPE = HIGH DENSITY POLYETHYLENE
- INV = INVERT
- LF = LINEAR FEET

- EXISTING SURFACE UTILITY FEATURES SUCH AS GRATES, MANHOLE COVERS, ETC. SHALL BE RESET TO BE FLUSH WITH FINISHED GRADE.
- ALL DRAINAGE STRUCTURES AND STORM PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.
- 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.
- 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.
- CLEANOUTS SHALL BE PROVIDED FLUSH AT ALL LOCATIONS OF ROOF DRAIN INTERSECTIONS, BENDS, AND UPSTREAM ENDS.
- ALL PROPOSED STORM DRAINAGE PIPING SHALL BE TEMPORARILY PROTECTED WITH REQUIRED MINIMUM COVER DURING CONSTRUCTION.
- 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 CITY.
- IF ANY EXISTING DRAINAGE STRUCTURES TO REMAIN OR BE MODIFIED ARE IN POOR CONDITION, AS DETERMINED BY THE OWNER, OR DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE STRUCTURE IN KIND AT NO COST TO THE OWNER OR CITY.

LEGEND

	DRAINAGE PIPE
	ROOF LEADER
	CATCH BASIN/AREA DRAIN
	DRAINAGE MANHOLE
	RIPRAP
	UNDERGROUND INFILTRATION CHAMBER OR DRAINAGE STRUCTURE



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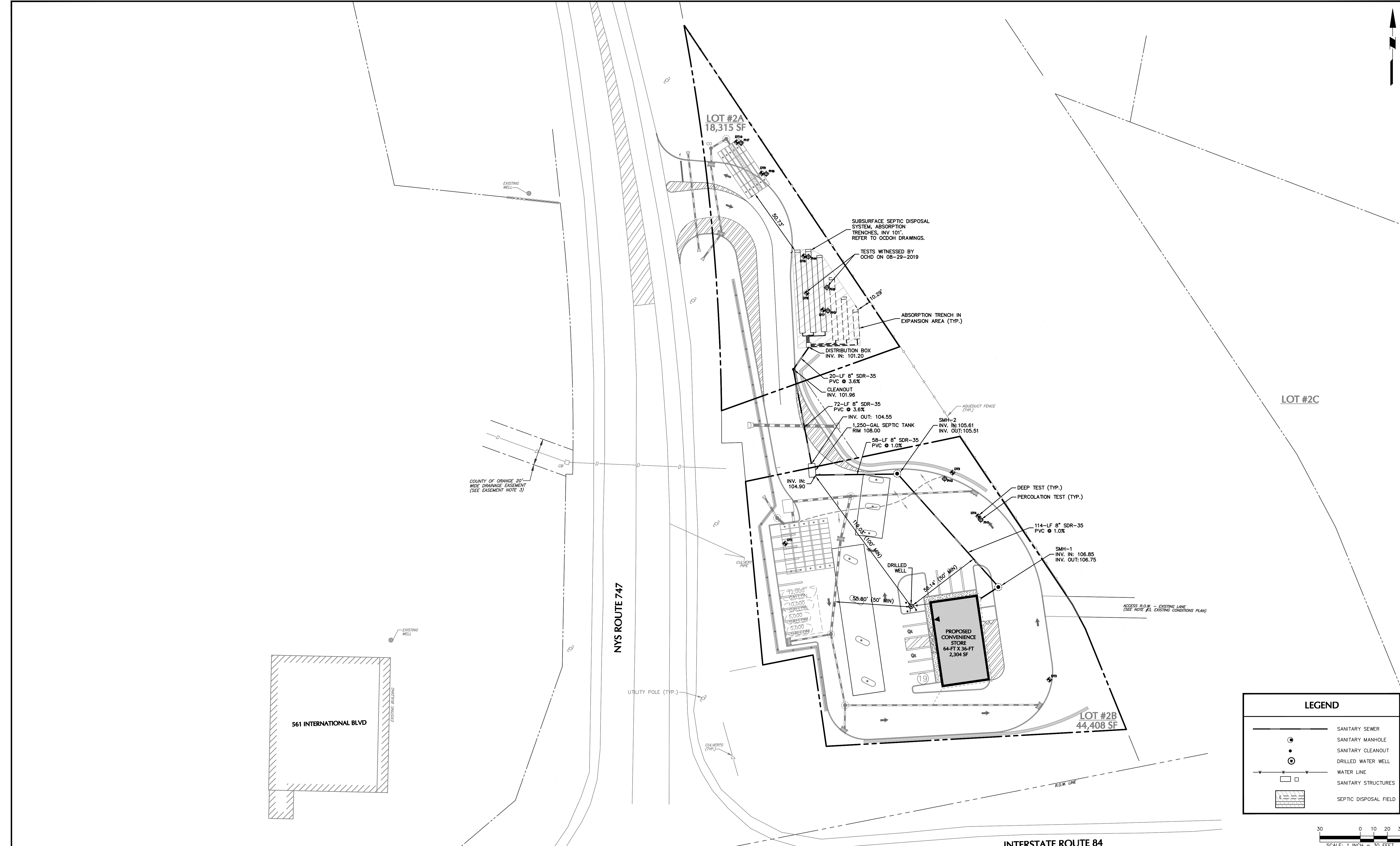
STATE OF NEW YORK
MICHAEL J. FINN
Professional Engineer
No. 081473
DATE SIGNED 11/08/2024
DATE SIGNED
PROFESSIONAL ENGINEER NY Lic. No. 081473

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Project
NEWBURGH GAS STATION
BLOCK No. 1, LOT No. 80.1 & 80.2
TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK

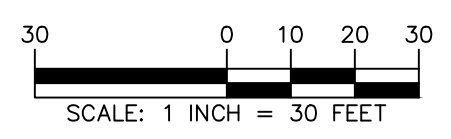
Drawing Title
GRADING AND DRAINAGE PLAN

Project No. 190062401	Drawing No. CG101
Date OCTOBER 14, 2024	
Drawn By GN	
Checked By BS	Sheet 5 of 9



LEGEND

- SANITARY SEWER
- SANITARY MANHOLE
- SANITARY CLEANOUT
- DRILLED WATER WELL
- WATER LINE
- SANITARY STRUCTURES
- SEPTIC DISPOSAL FIELD



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SIGNATURE OF PROFESSIONAL ENGINEER, P.E., LEED-AP

 PROFESSIONAL ENGINEER NY Lic. No. 081473

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Project
NEWBURGH GAS STATION

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 TOWN OF NEWBURGH

 ORANGE COUNTY NEW YORK

Drawing Title
UTILITY PLAN

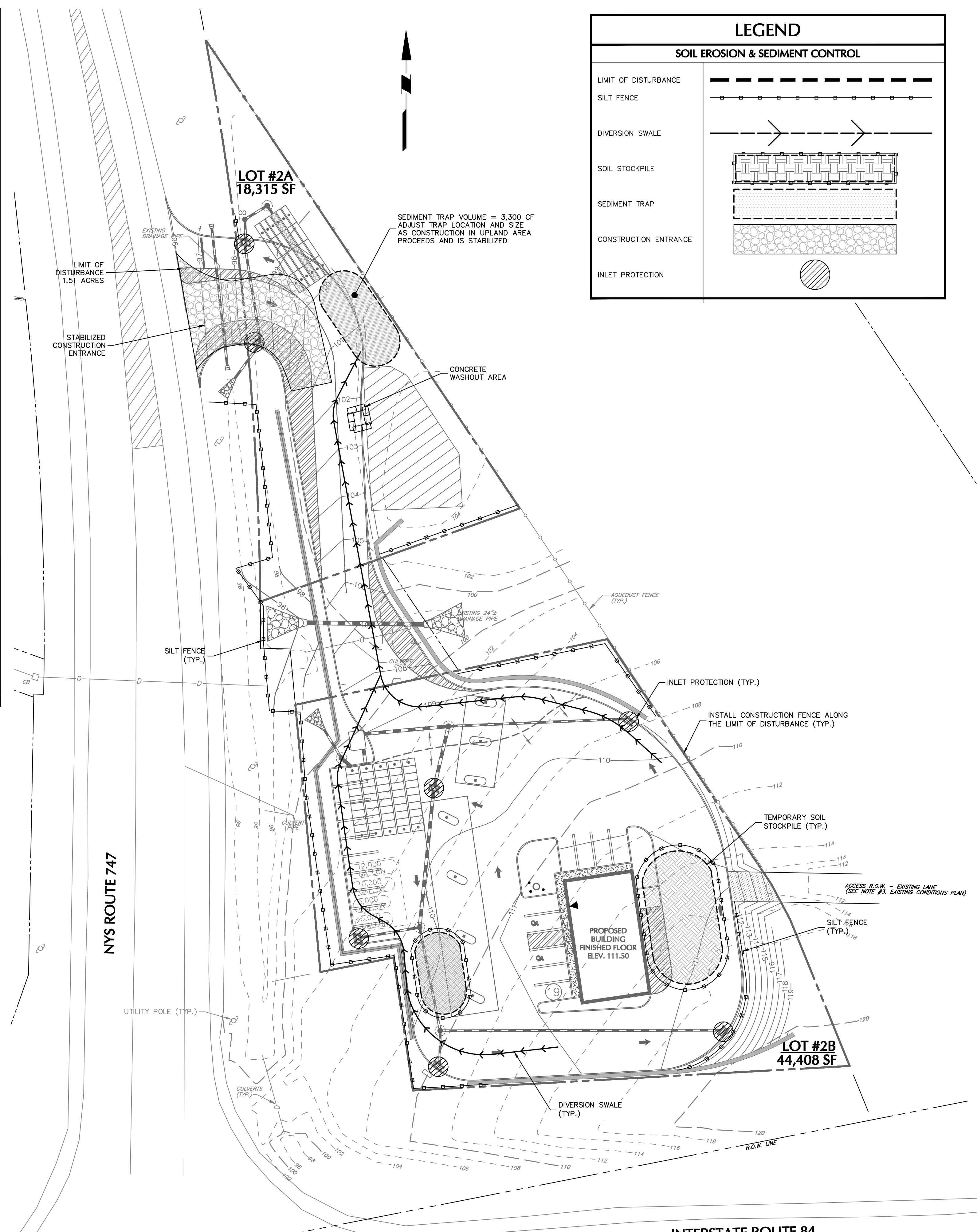
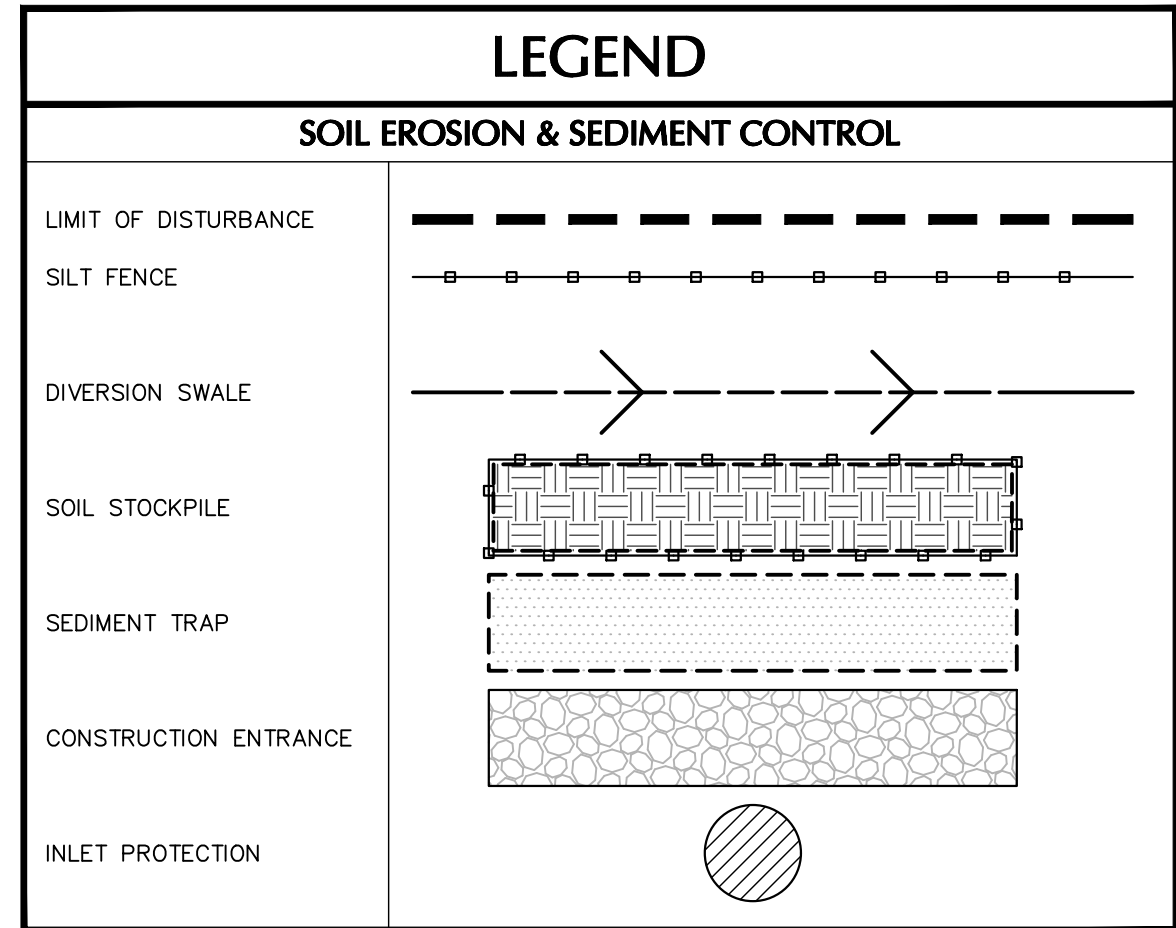
Project No.	190062401	CU101 Sheet 6 of 9
Date	OCTOBER 14, 2024	
Drawn By	GN	
Checked By	BS	

POLLUTION PREVENTION CONTROL NOTES

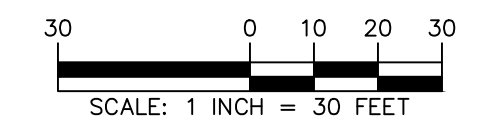
- GOOD HOUSEKEEPING PRACTICES ARE DESIGNED TO MAINTAIN A CLEAN AND ORDERLY WORK ENVIRONMENT. GOOD HOUSEKEEPING MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS BY THOSE PARTIES INVOLVED WITH THE DIRECT CARE AND DEVELOPMENT OF THE SITE. THE FOLLOWING MEASURES SHOULD BE IMPLEMENTED TO CONTROL THE POSSIBLE EXPOSURE OF HARMFUL SUBSTANCES AND MATERIALS TO STORMWATER RUNOFF:
- MATERIAL RESULTING FROM THE CLEARING AND GRUBBING OPERATION SHALL BE STOCKPILED AWAY FROM STORM DRAINAGE, WATER BODIES AND/OR WATERCOURSES AND SURROUNDED WITH ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. SOIL STOCKPILE LOCATIONS SHALL BE EXPOSED NO LONGER THAN 14 DAYS BEFORE SEEDING.
 - 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 AND/OR WATER SUPPLY. EQUIPMENT WASH-DOWN ZONES SHALL BE LOCATED WITHIN AREAS DRAINING TO SEDIMENT CONTROL DEVICES.
 - THE USE OF DETERGENTS FOR LARGE-SCALE (I.E., VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.) WASHING IS PROHIBITED.
 - MATERIAL STORAGE LOCATIONS AND FACILITIES (I.E., COVERED STORAGE AREAS, STORAGE SHEDS, ETC.) SHALL BE LOCATED 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 MUST BE STORED IN WATERPROOF CONTAINERS. RUNOFF CONTAINING SUCH MATERIALS MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED AND DISPOSED AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY.
 - HAZARDOUS SPILLS SHALL BE IMMEDIATELY CONTAINED TO PREVENT SUCH POLLUTANTS FROM ENTERING THE SURROUNDING HABITAT AND/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 FIVE (5) GALLONS SHALL BE REPORTED TO THE NYSDEC RESPONSE UNIT AT 1-800-457-7362. IN ADDITION, A RECORD OF THE INCIDENT(S) AND/OR NOTIFICATIONS SHALL BE DOCUMENTED AND ATTACHED TO THE SWPPP.
 - PORTABLE SANITARY WASTE FACILITIES SHALL BE PROVIDED ON-SITE FOR WORKERS AND SHALL BE PROPERLY MAINTAINED.
 - DUMPSTERS AND/OR DEBRIS CONTAINERS SHALL BE LOCATED ON-SITE AND SHALL BE OF ADEQUATE SIZE TO MANAGE RESPECTIVE MATERIALS. REGULAR COLLECTION AND DISPOSAL OF WASTES SHALL OCCUR AS REQUIRED.
 - TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE 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 AND/OR REPAIRED, SEEDDED, AND MULCHED FOR FINAL STABILIZATION.
 - NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE. IT CAN BE RETAINED IN THE TEMPORARY SEDIMENT BASINS UNTIL IT EVAPORATES.
 - WASTEWATER DISCHARGES FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS IS PROHIBITED.

EROSION & SEDIMENT CONTROL NOTES:

- REFER TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYSDEC) SPDES GENERAL PERMIT IN APPENDIX A OF THE STORMWATER POLLUTION PREVENTION PLAN FOR ADDITIONAL REQUIREMENTS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" LATEST EDITION.
- BEFORE BEGINNING CONSTRUCTION, THE OWNER MUST SET UP A PRE-CONSTRUCTION MEETING WITH THE QUALIFIED PROFESSIONAL, QUALIFIED INSPECTOR, CONTRACTORS, AND SUBCONTRACTORS TO DISCUSS THE RESPONSIBILITIES RELATED TO THE STORMWATER POLLUTION PREVENTION PLAN IMPLEMENTATION.
- THE CONTRACTOR AND SUBCONTRACTOR MUST IDENTIFY THE TRAINED INDIVIDUAL THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- BEFORE BEGINNING CONSTRUCTION, ALL EROSION AND SEDIMENT CONTROLS MUST BE INSTALLED IN ACCORDANCE WITH THE PLANS. SITE PREPARATION ACTIVITIES MUST BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISTURBANCE. EXISTING VEGETATION TO REMAIN MUST BE PROTECTED TO ENSURE OVER-CLEARING DOES NOT OCCUR.
- PERMANENT TRAFFIC CORRIDORS MUST BE ESTABLISHED AND "ROUTES OF CONVENIENCE" MUST BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED AT THE LOCATIONS SHOWN ON THE PROJECT PLANS.
- STOCKPILED TOPSOIL MUST BE ENCLOSED WITH SILT FENCE OR HAY BALES AND COVERED OR TEMPORARILY SEEDDED. ALL GRASS SEED MUST CONTAIN AT LEAST 25% RAPID GERMINATING PERENNIAL RYE GRASS.
- DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION MUST BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
- DUST MUST BE CONTROLLED BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED.
- EROSIVE MATERIAL TEMPORARILY STOCKPILED ON SITE DURING CONSTRUCTION MUST BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE AND MUST BE PROPERLY PROTECTED BY A SILT FENCE BARRIER.
- EARTHWORK ACTIVITIES MUST BE CONSISTENT WITH THE PHASING PLANS. THE EARTHWORK OPERATION AREAS MUST BE STABILIZED ON AN ONGOING BASIS WITH NO AREAS THAT ARE NOT CURRENTLY UNDER CONSTRUCTION LEFT WITHOUT AT LEAST TEMPORARY COVER FOR MORE THAN 14 DAYS.
- EROSION AND SEDIMENT CONTROL INSPECTIONS:
 - THE TRAINED INDIVIDUAL MUST INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS TO ENSURE PROPER PERFORMANCE. ANY SEDIMENT BUILD-UP MUST BE CLEANED AND REMOVED. ALL DAMAGES TO EROSION AND SEDIMENT CONTROLS MUST BE REPAIRED AT THE END OF THE WORK DAY.
 - THE QUALIFIED INSPECTOR MUST CONDUCT SITE INSPECTIONS EVERY 7 DAYS. ANY DEFICIENCIES NOTED IN THE REPORTS MUST BE CORRECTED IMMEDIATELY BY THE CONTRACTOR.
 - IF SOIL DISTURBANCE ACTIVITIES ARE SUSPENDED FOR WINTER SHUTDOWN, TEMPORARY STABILIZATION MEASURES WILL BE APPLIED TO ALL DISTURBED AREAS. IF APPROVED BY THE NYSDEC OR MS4 MUNICIPALITY, THE FREQUENCY OF INSPECTIONS BY THE QUALIFIED INSPECTOR MAY BE REDUCED TO ONE INSPECTION EVERY 30 DAYS.
 - IF AUTHORIZED BY THE NYSDEC OR MS4 MUNICIPALITY TO DISTURB MORE THAN 5 ACRES AT ONE TIME, THE QUALIFIED INSPECTOR MUST CONDUCT AT LEAST 2 SITE INSPECTIONS, SEPARATED BY 2 DAYS, EVERY 7 DAYS UNTIL SUCH TIME THAT LESS THAN 5 ACRES OF SOIL REMAIN EXPOSED.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE REMOVED WHEN ALL DISTURBED AREAS HAVE UNDERGONE FINAL STABILIZATION, WHEN UPGRADE SURFACES ARE PROPERLY STABILIZED AND ALL STORMWATER MANAGEMENT SYSTEMS ARE IN PLACE AND OPERATIONAL. ALL AREAS DISTURBED BY THE REMOVAL OF THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE FILLED IN, TOPSOILED, SEEDDED, AND MULCHED. FINAL STABILIZATION IS ACHIEVED WHEN ALL SOIL DISTURBING ACTIVITIES ARE COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80% 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.



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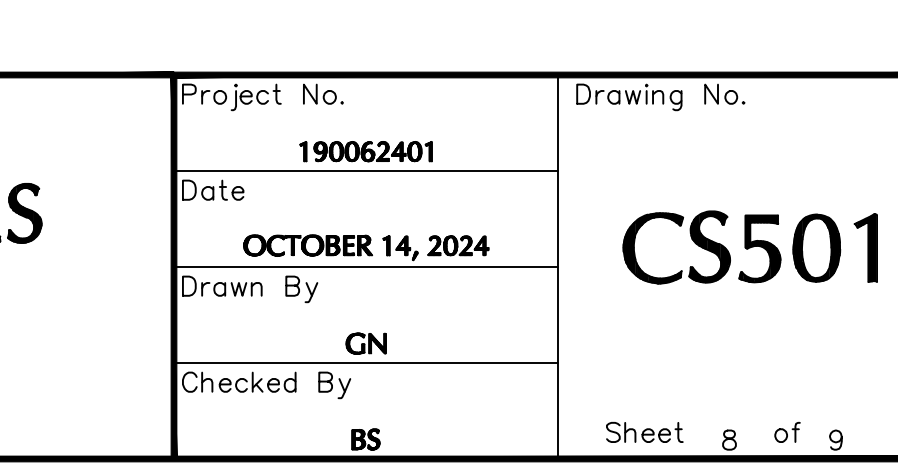
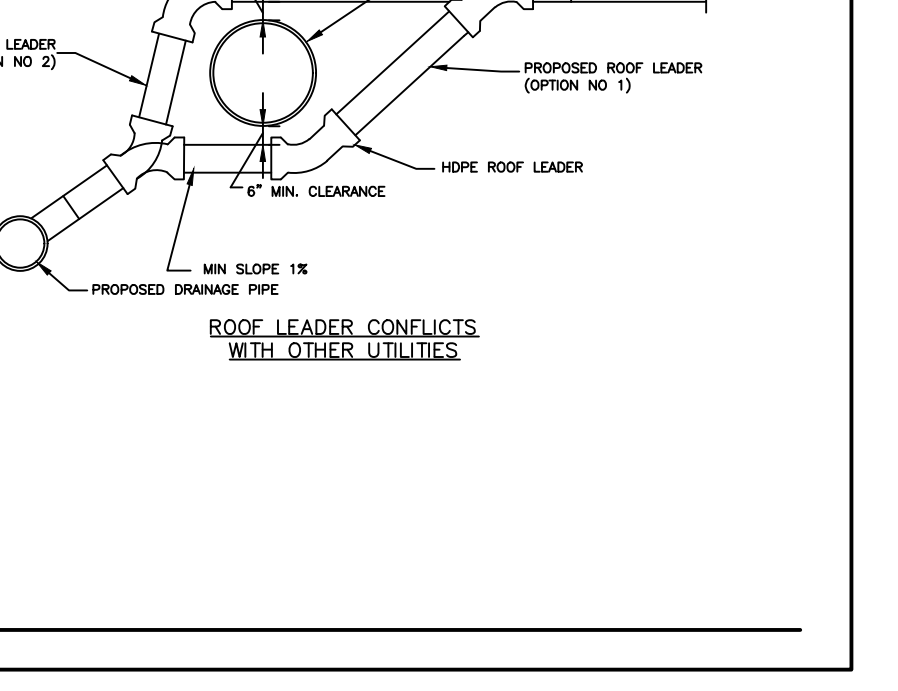
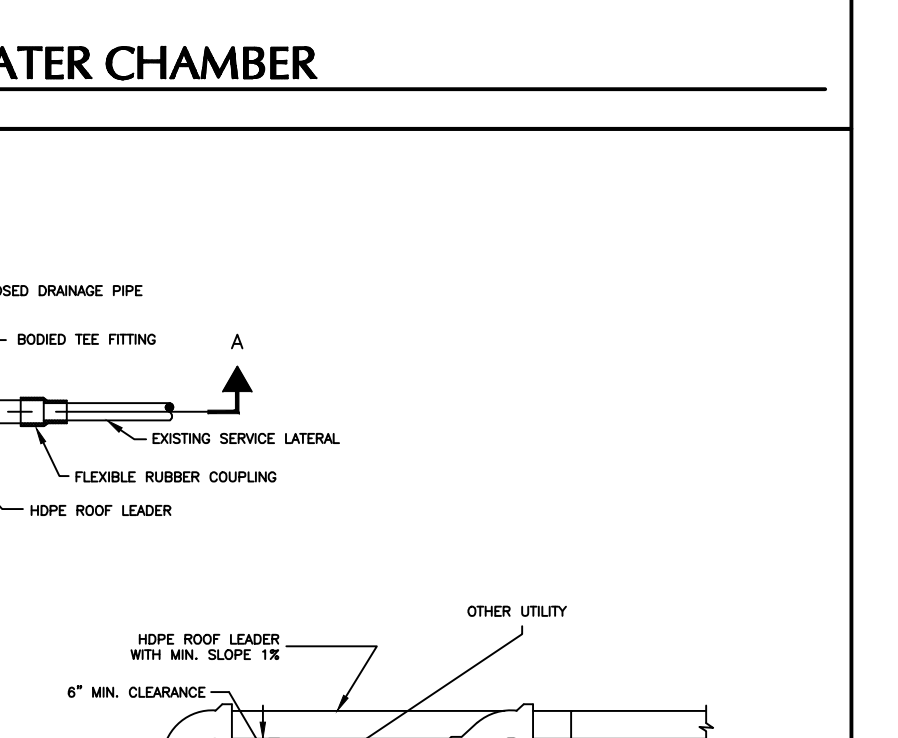
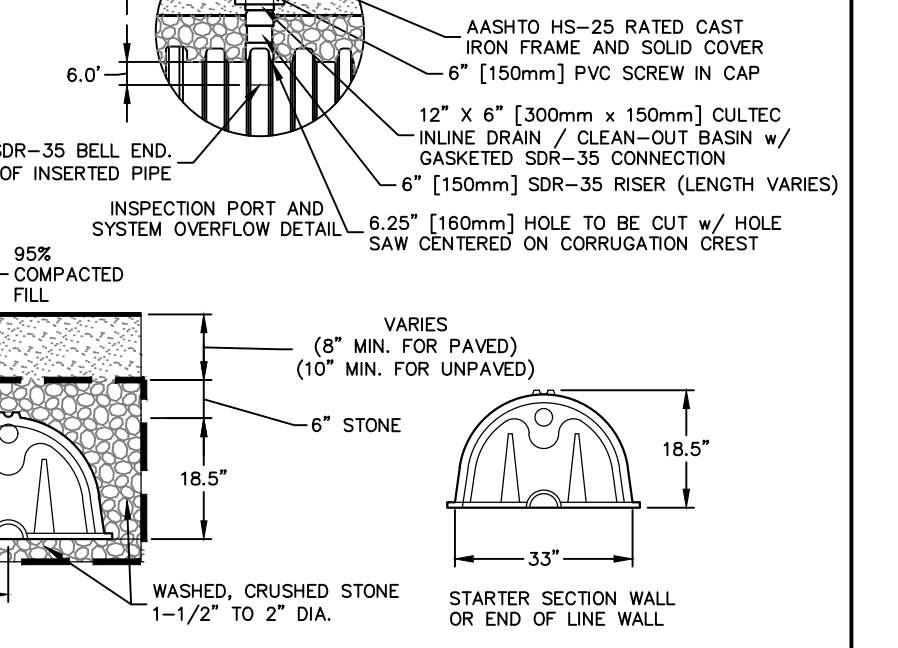
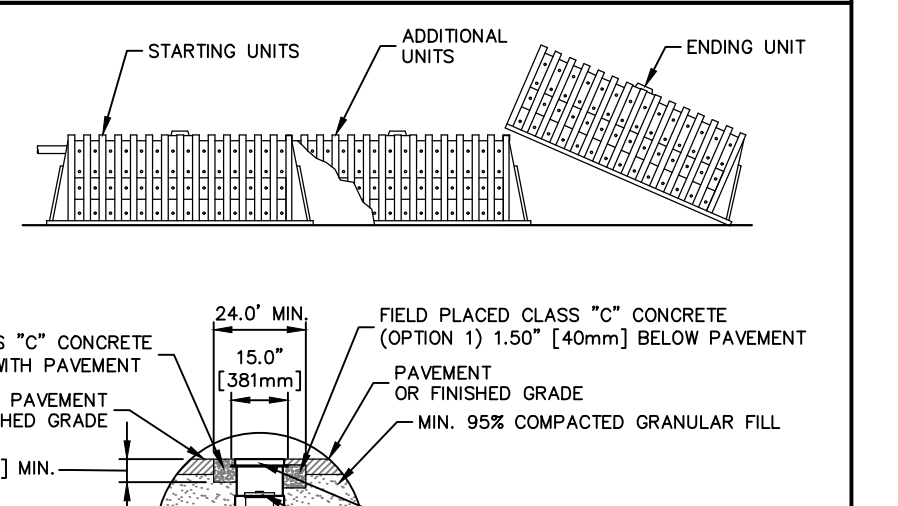
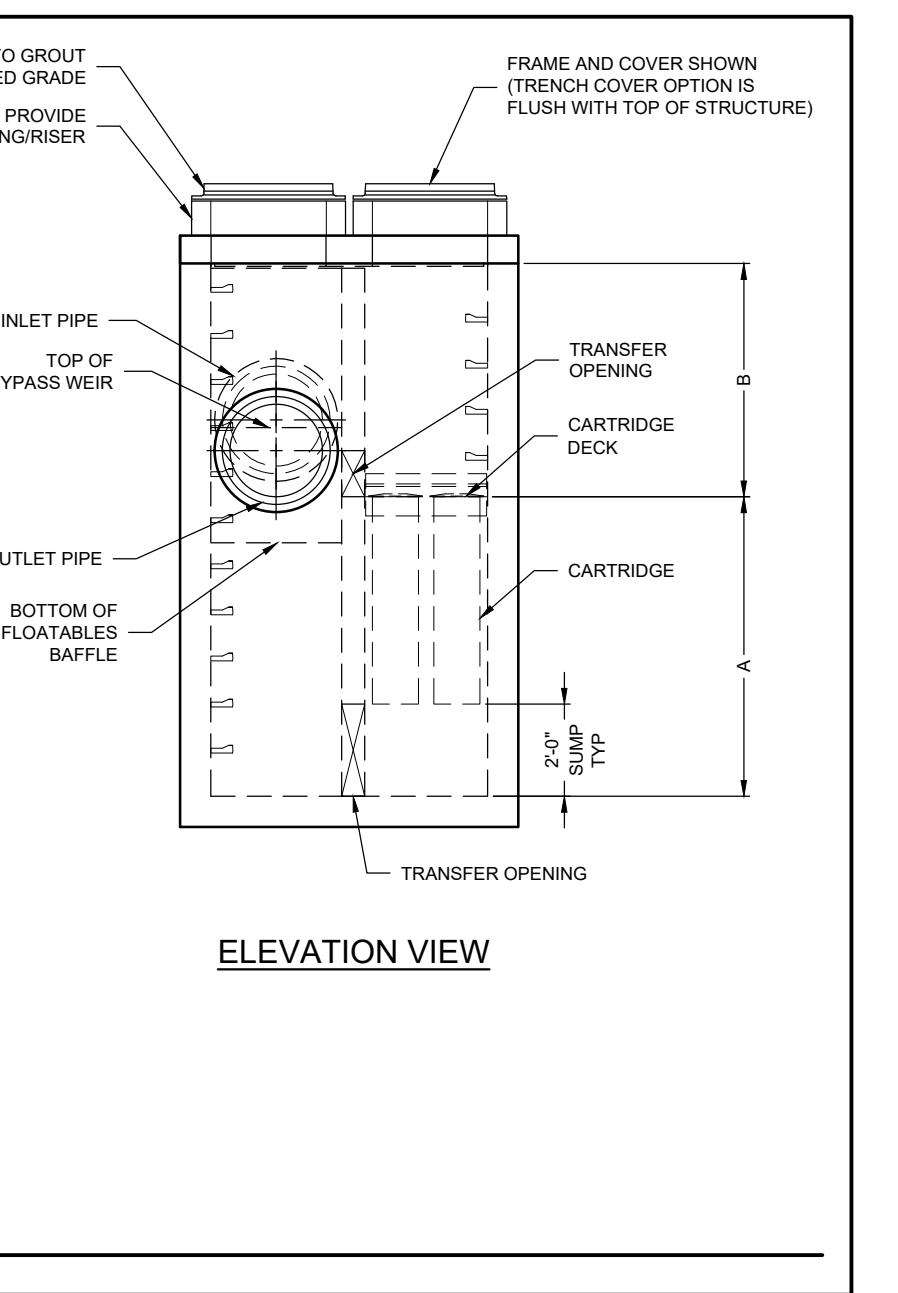
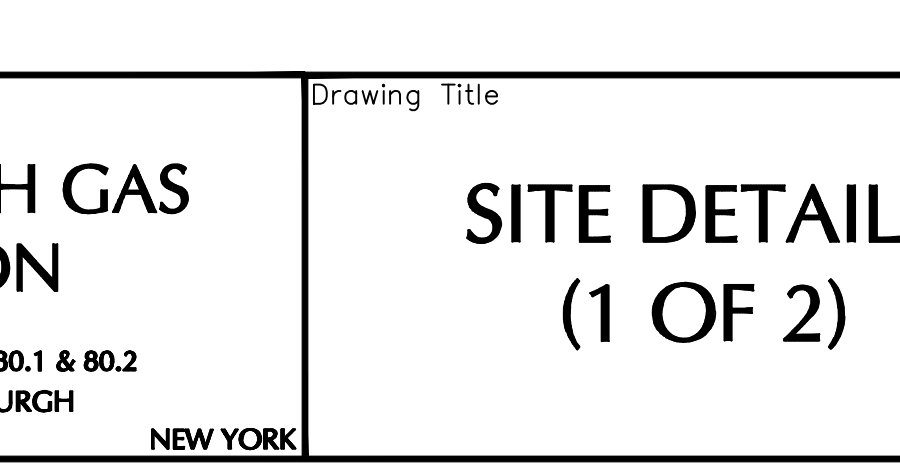
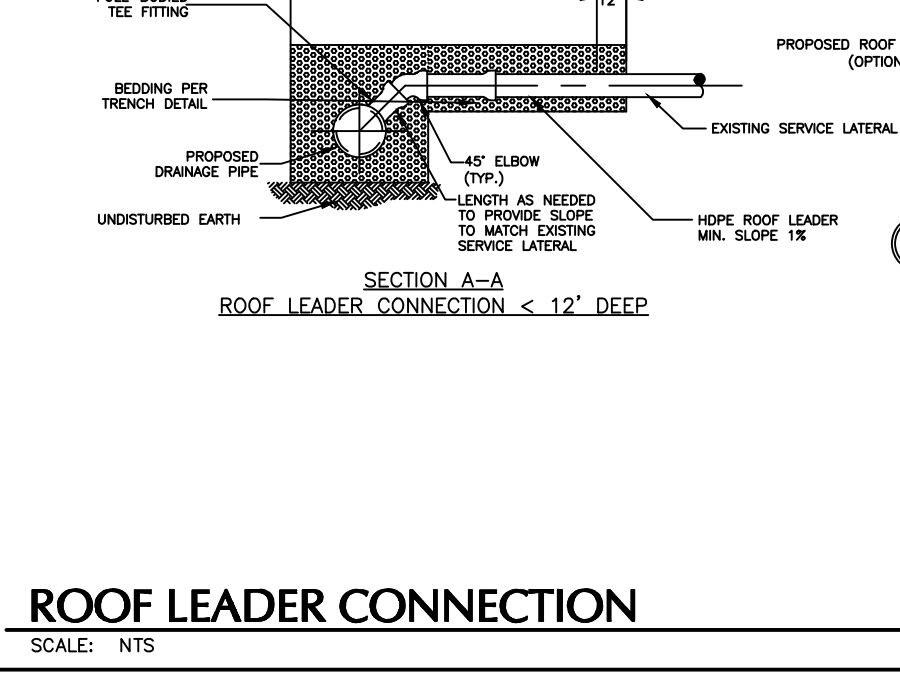
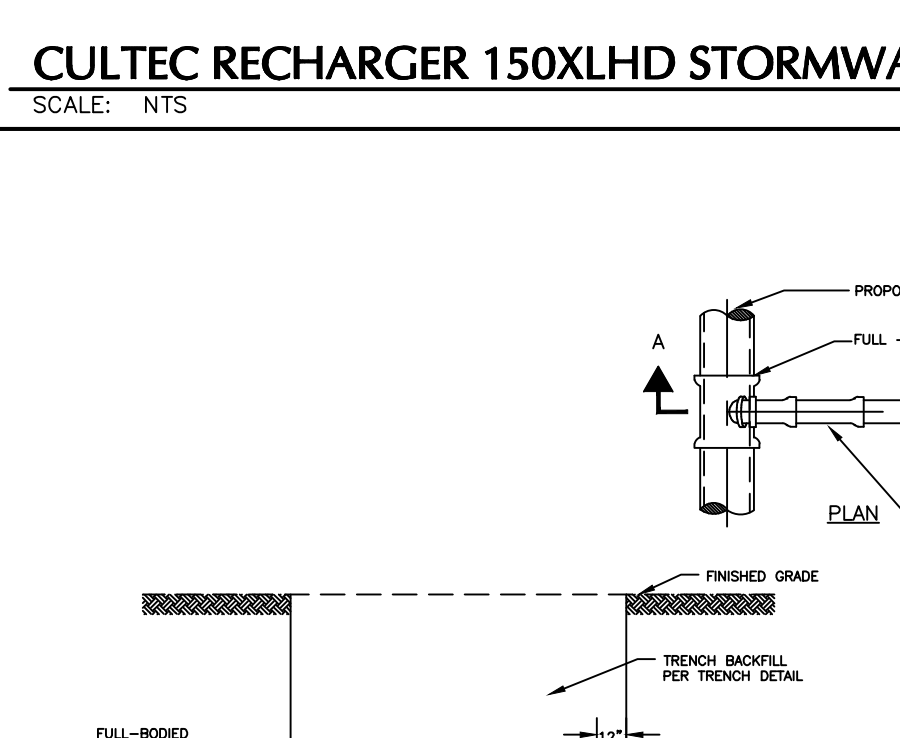
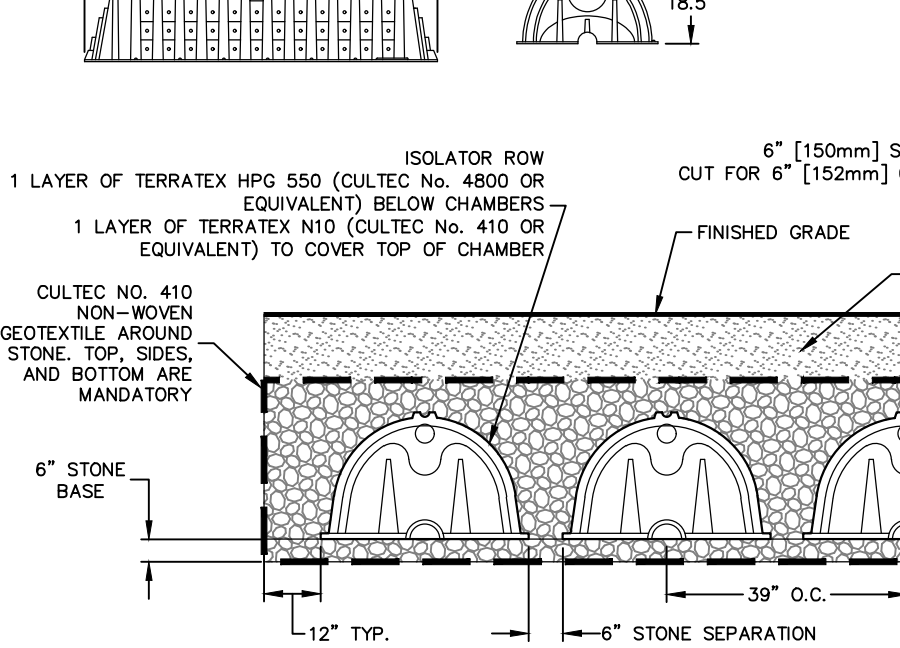
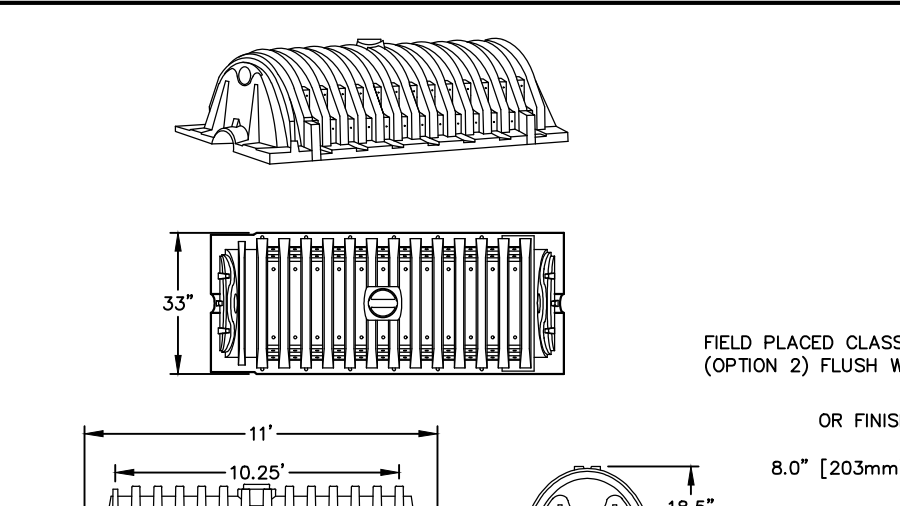
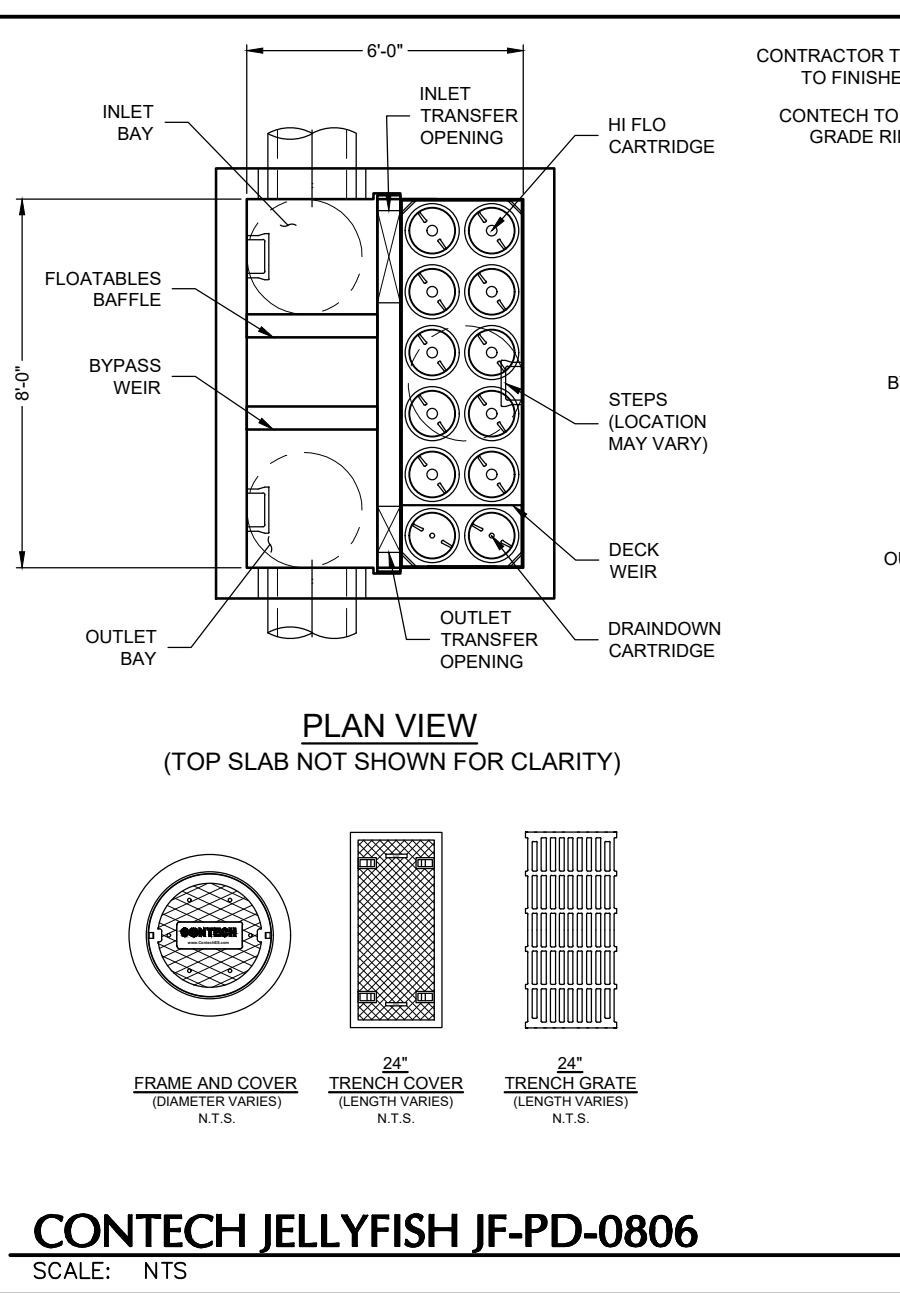
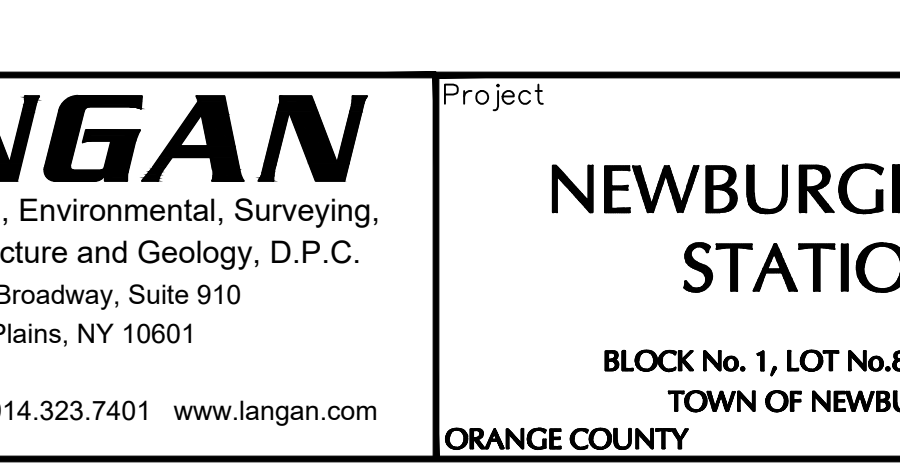
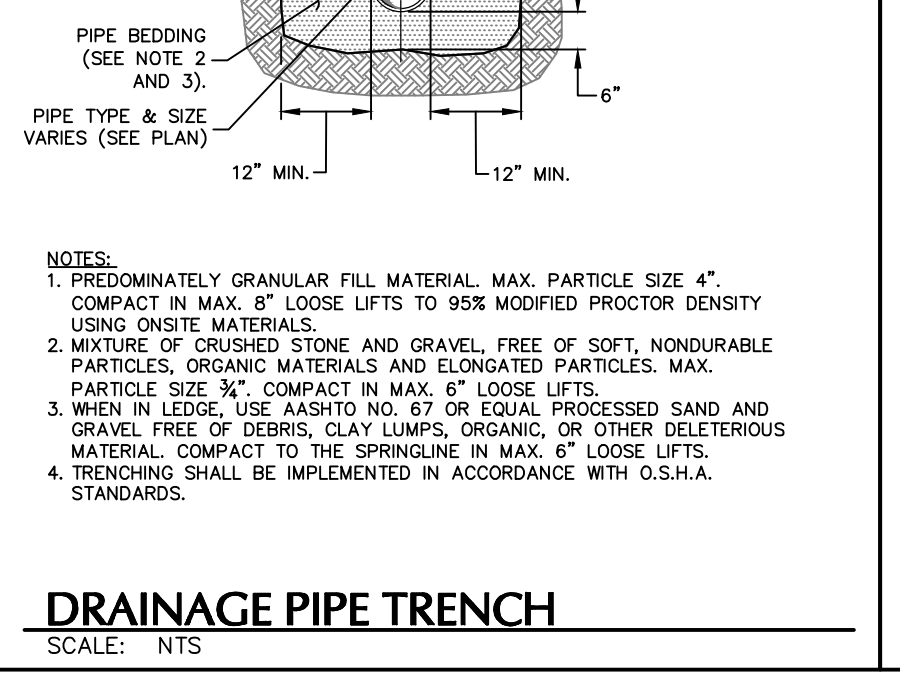
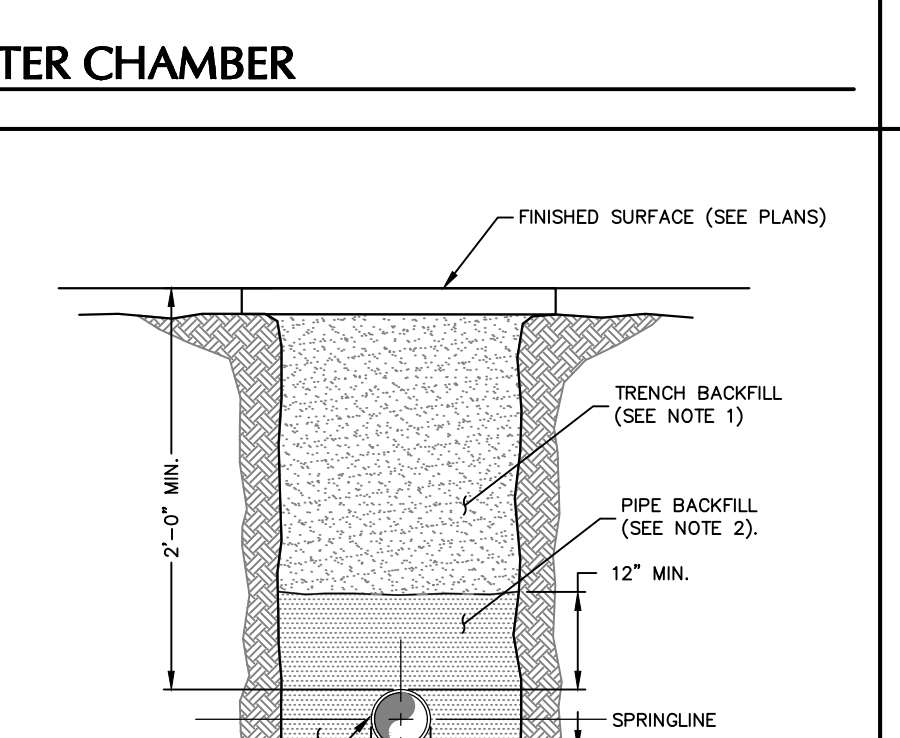
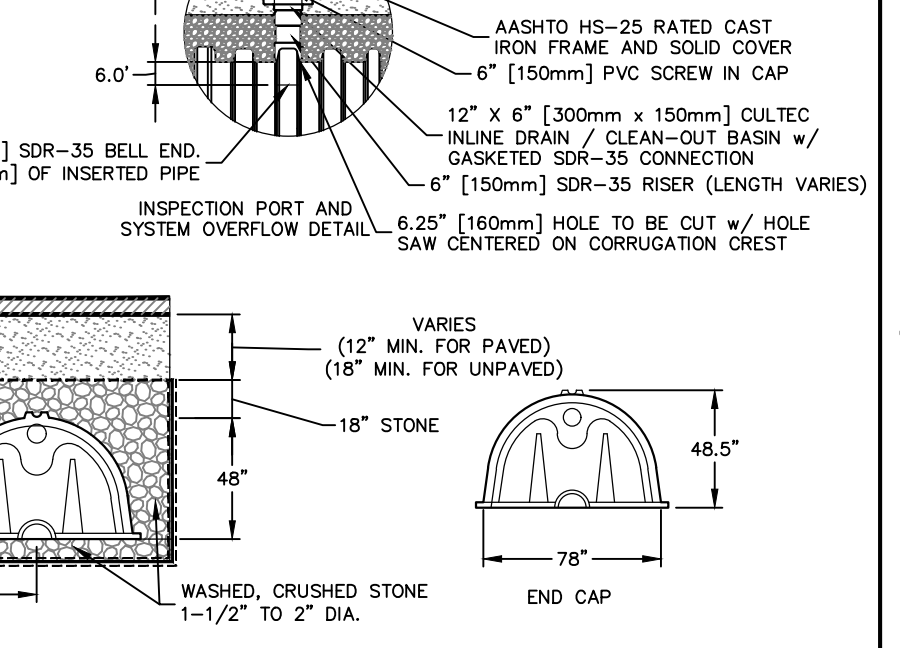
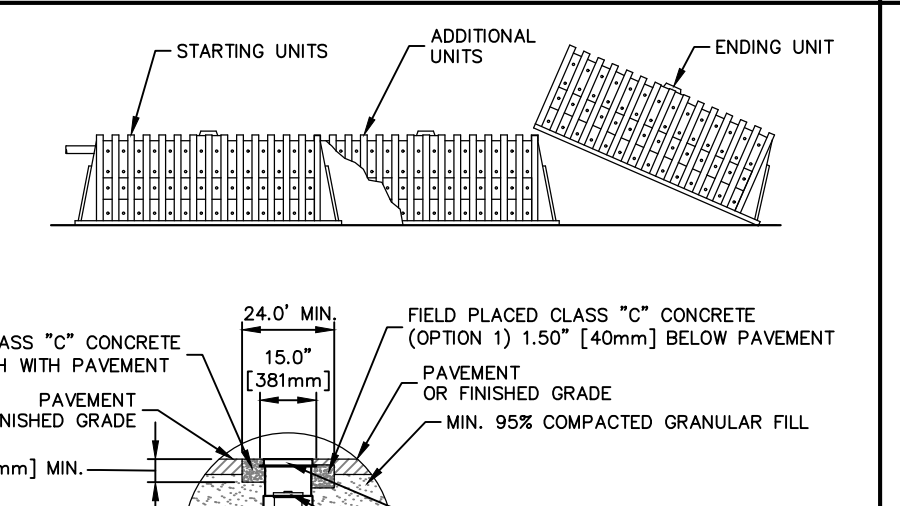
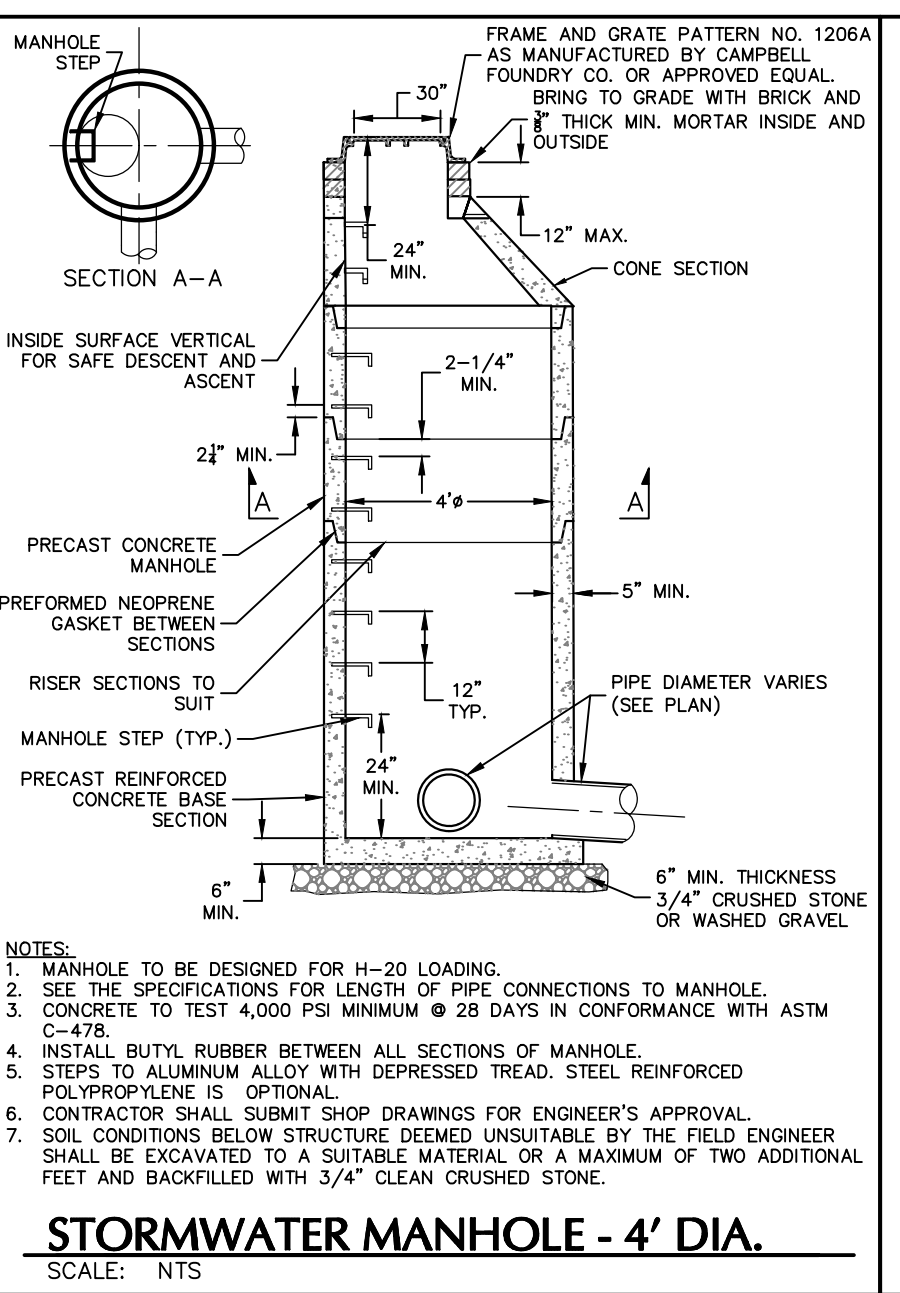
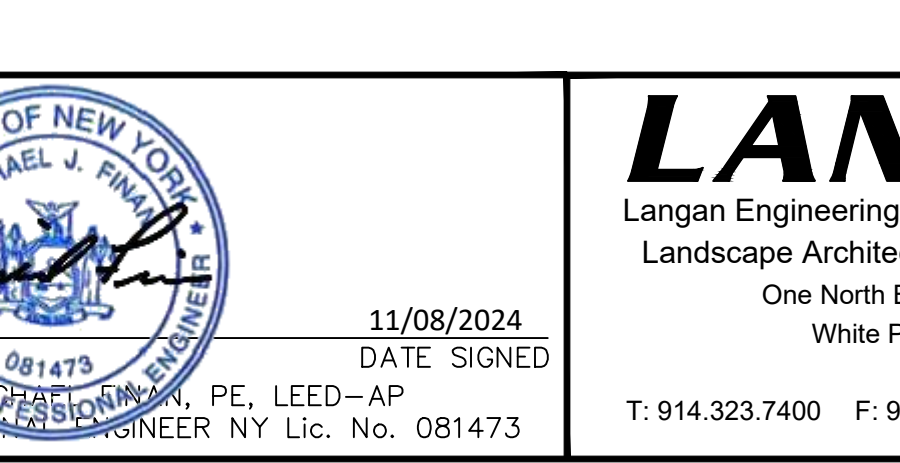
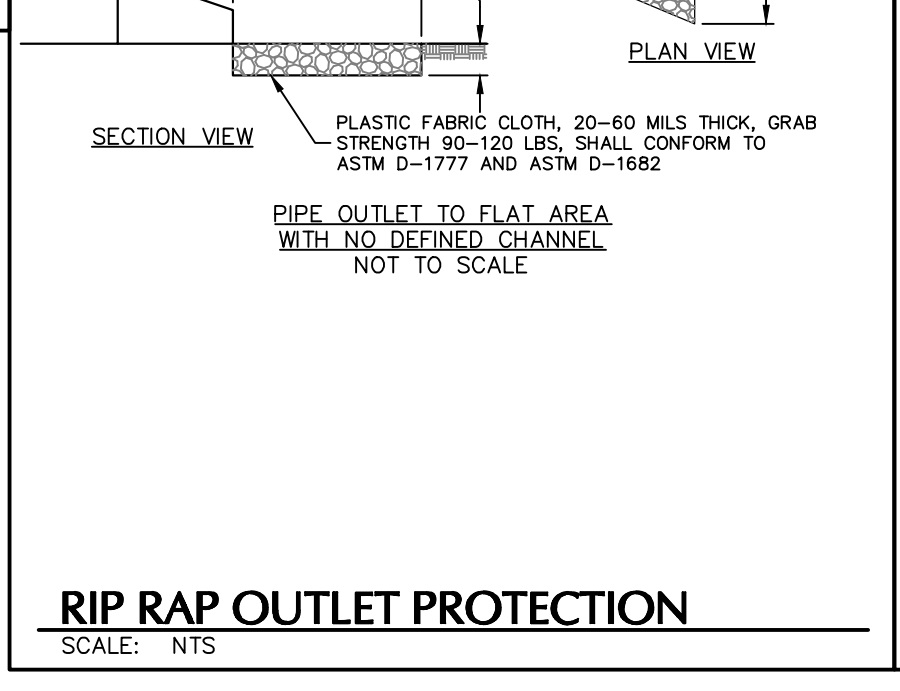
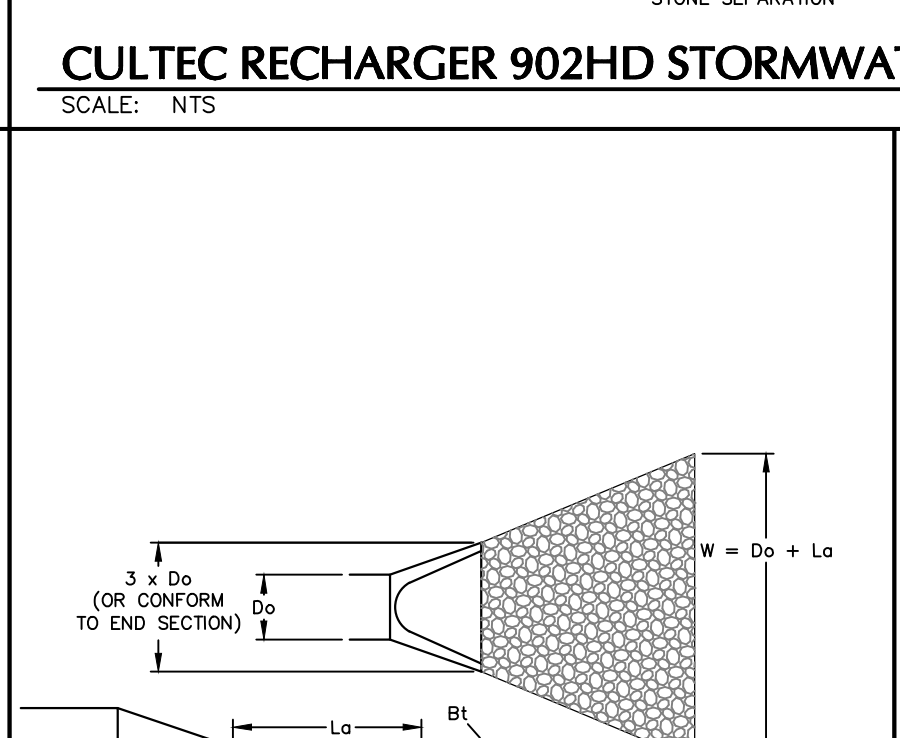
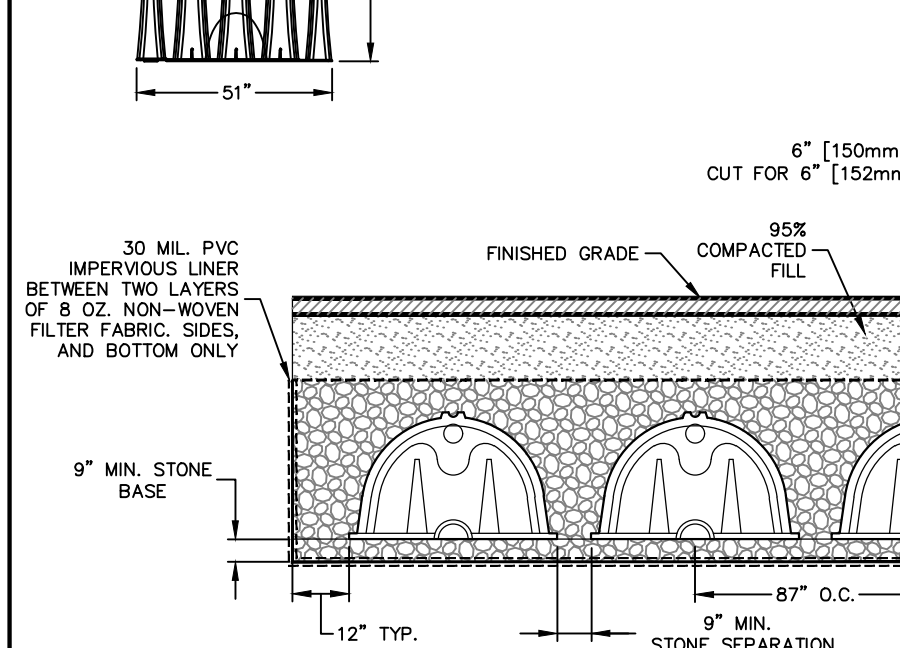
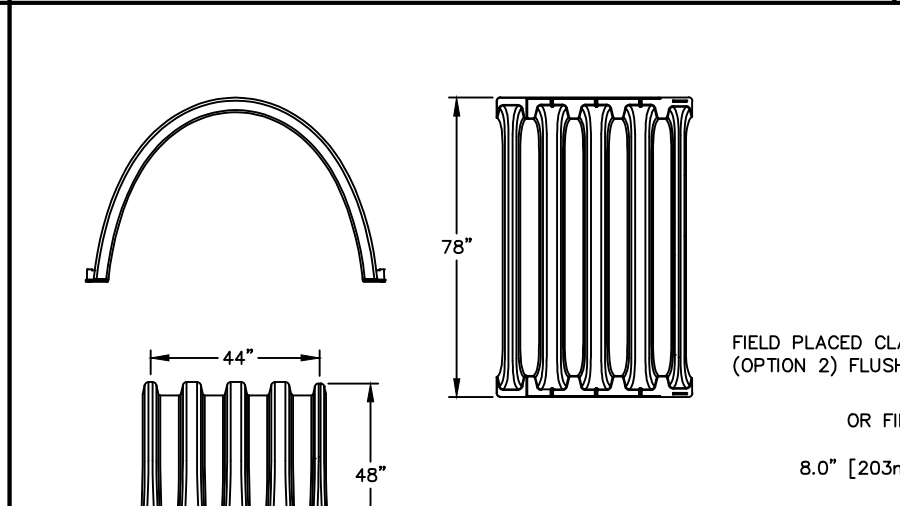
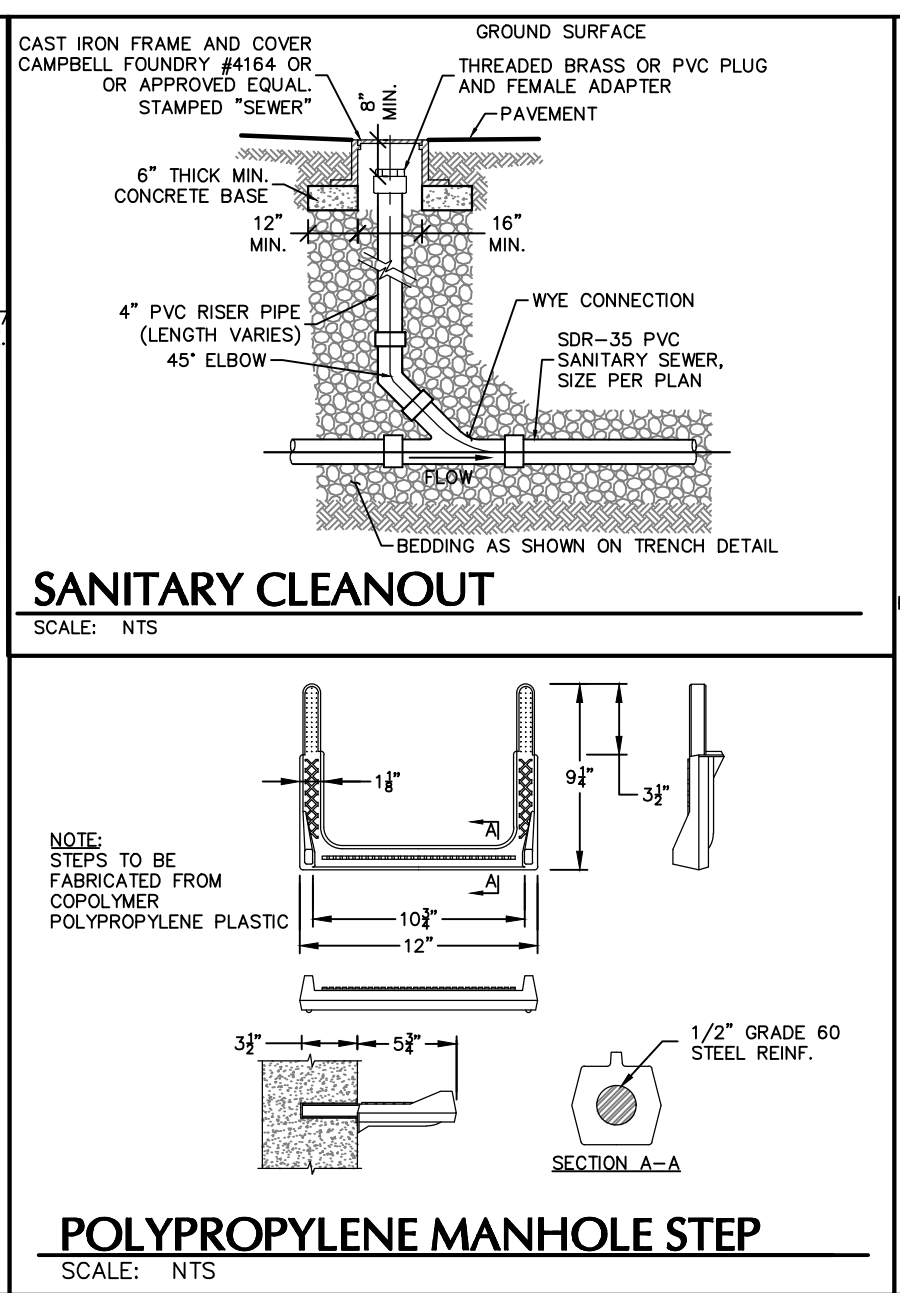
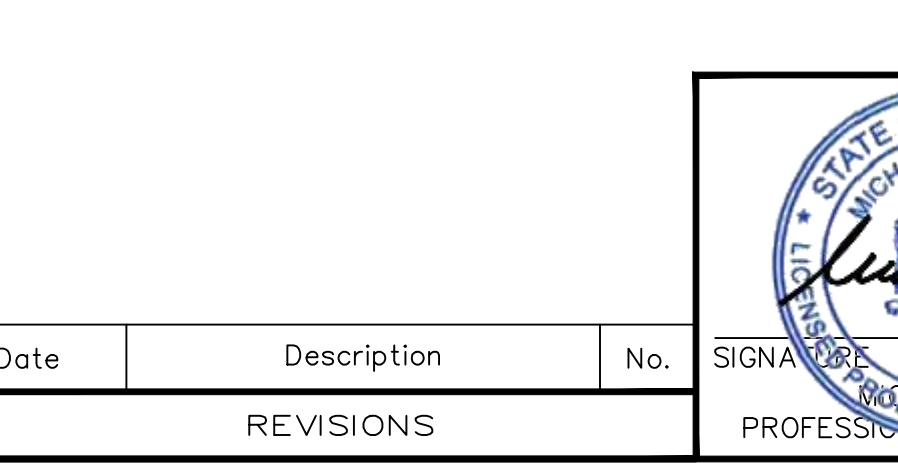
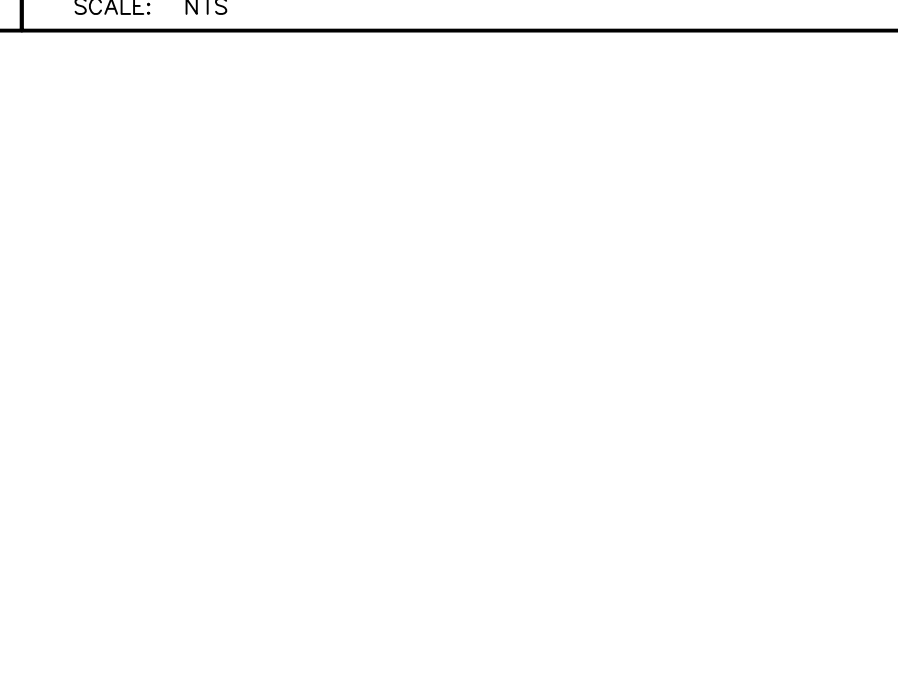
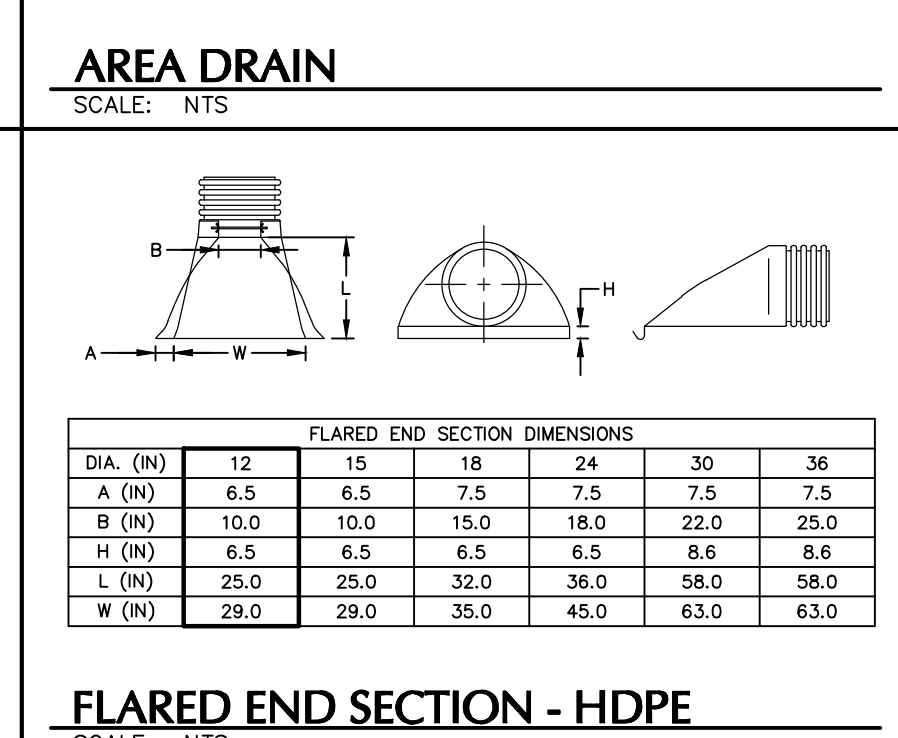
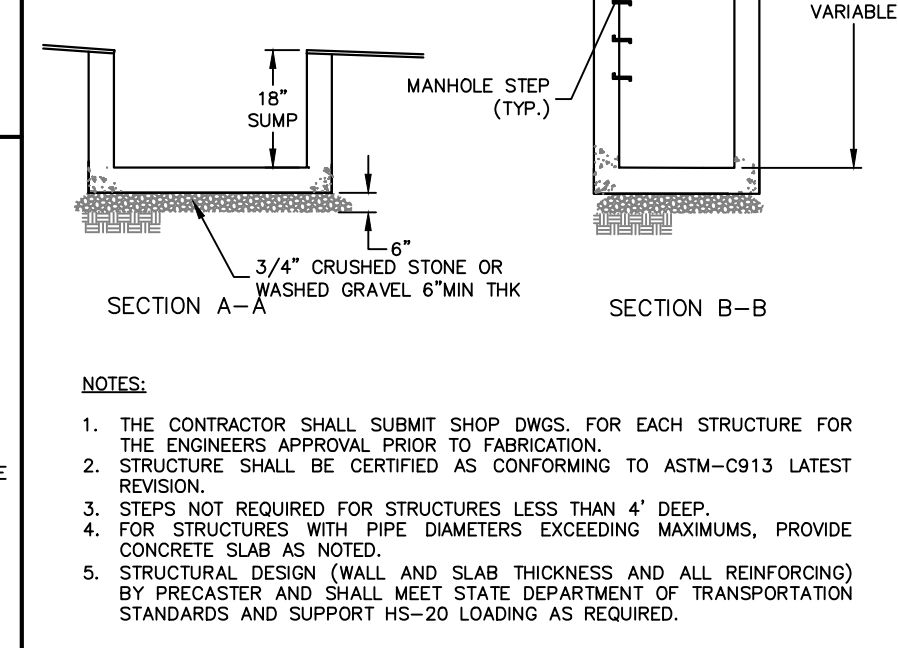
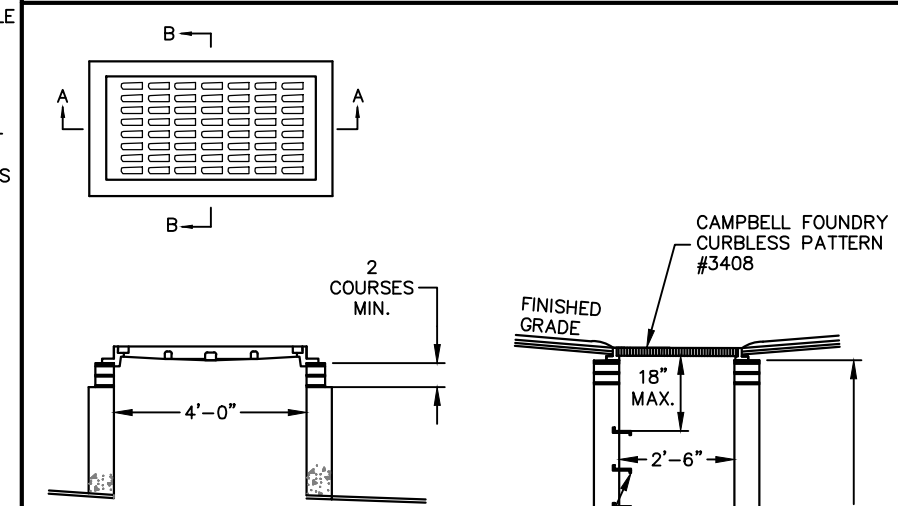
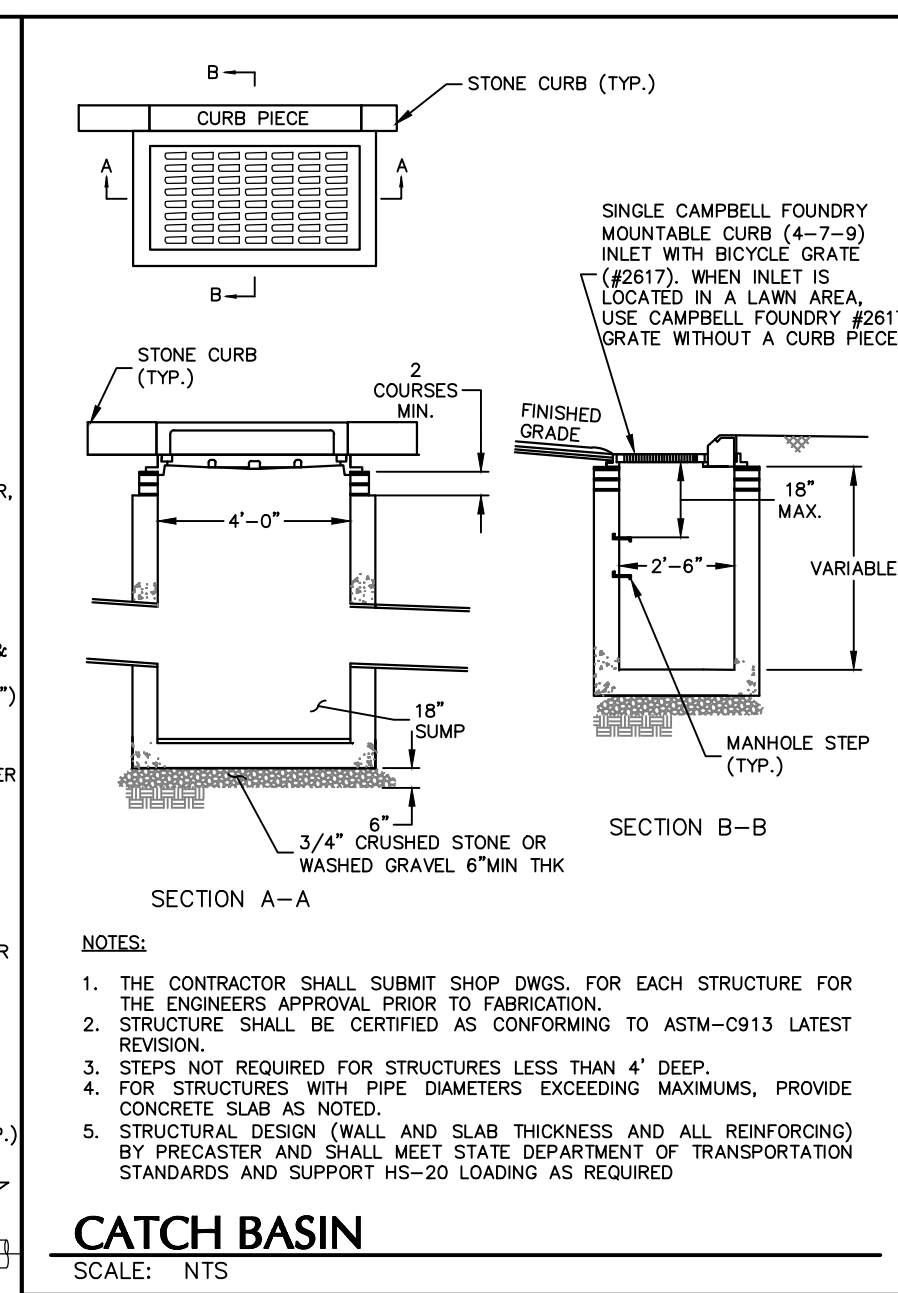
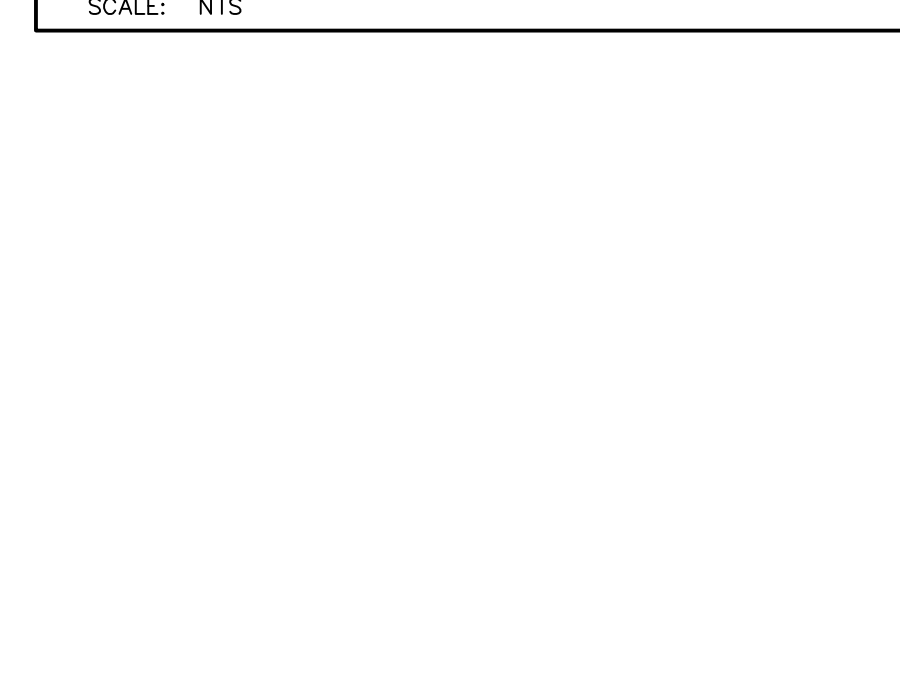
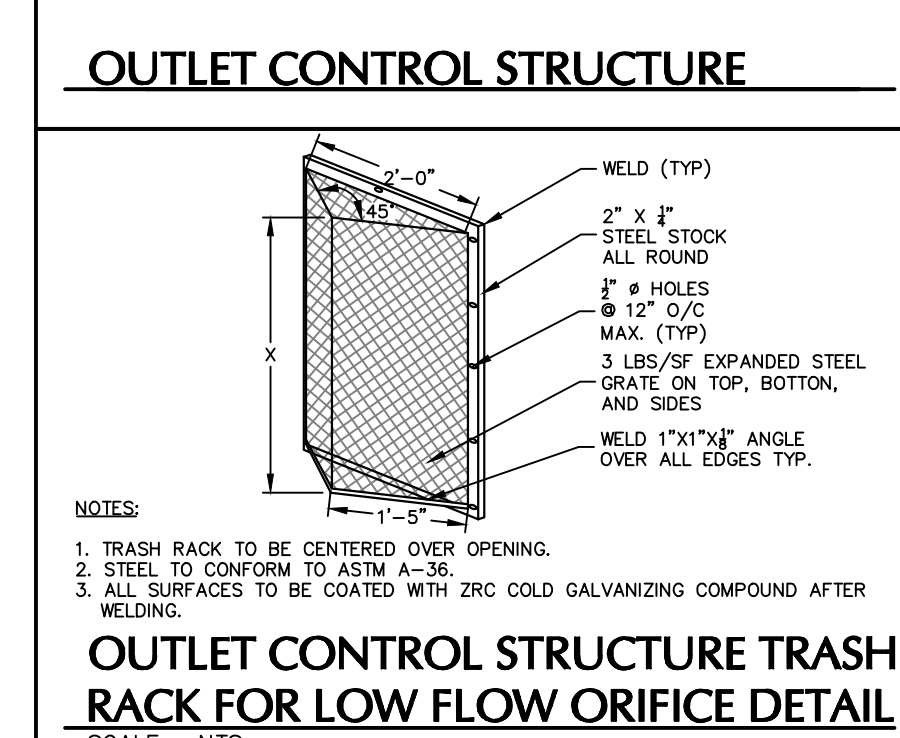
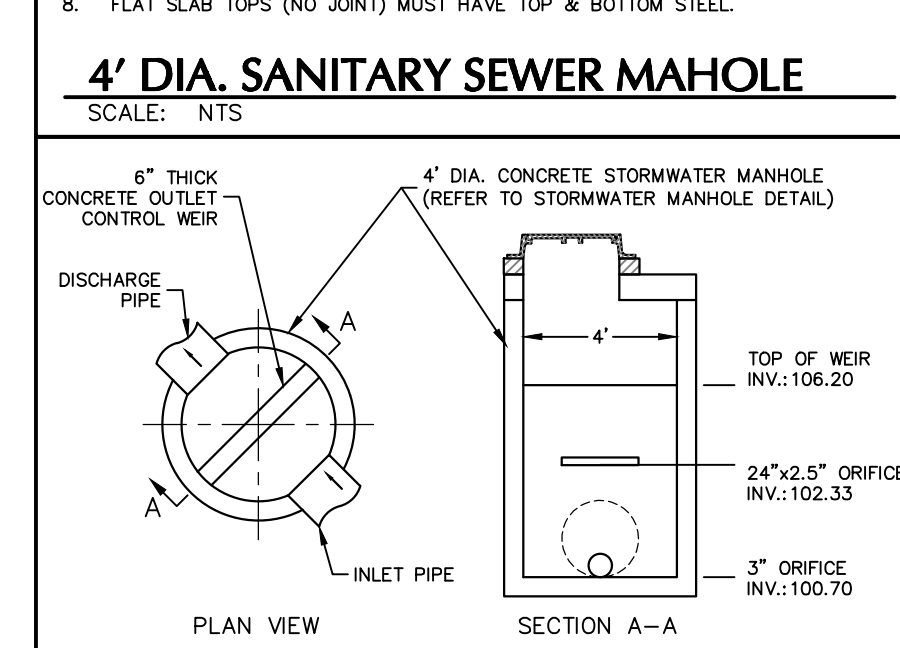
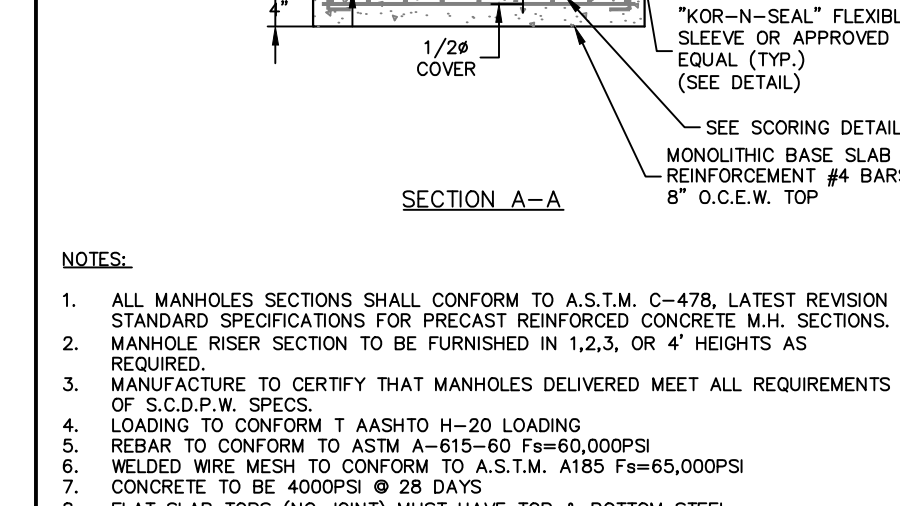
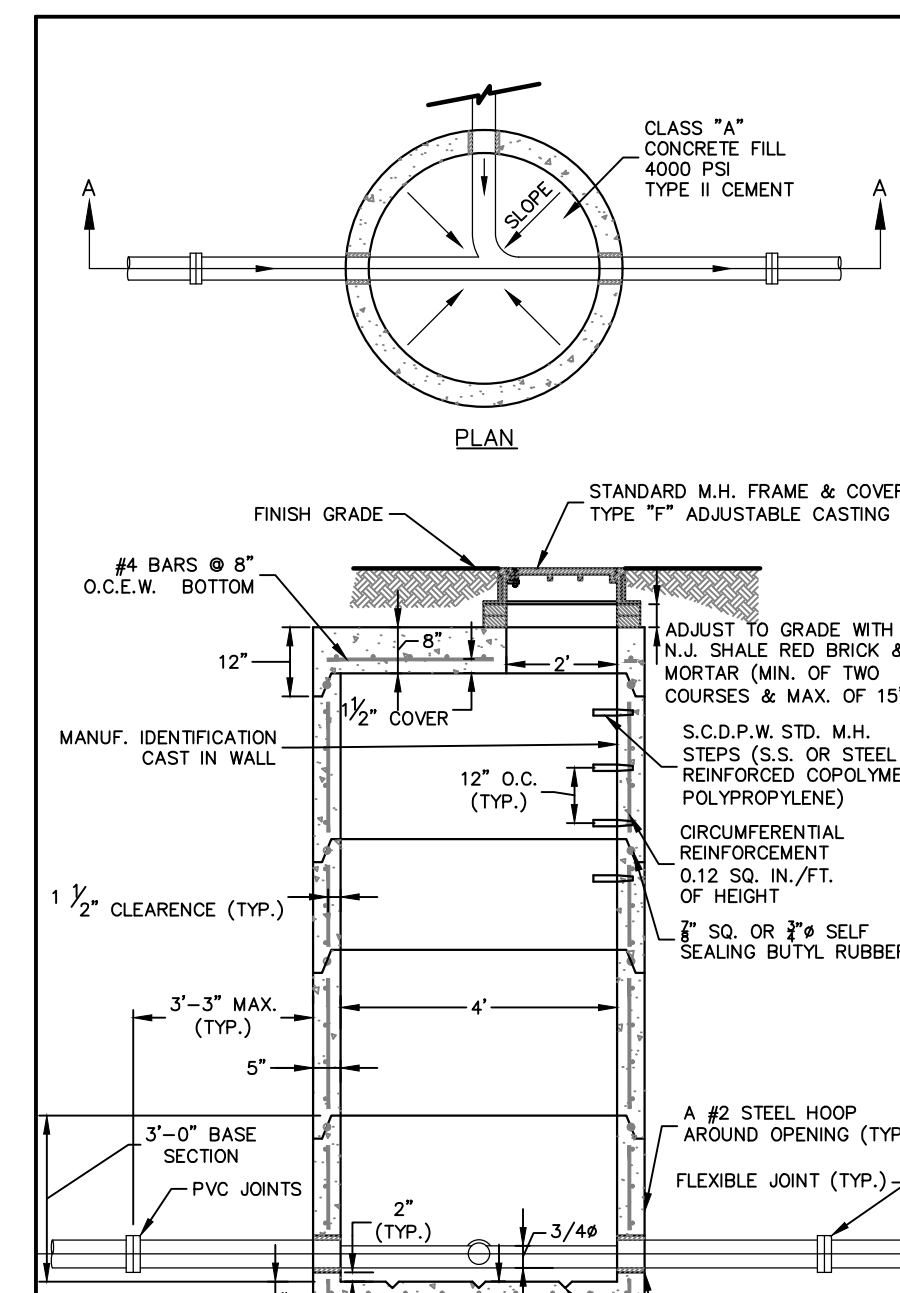
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NEWBURGH GAS STATION
BLOCK No. 1, LOT No. 80.1 & 80.2
TOWN OF NEWBURGH
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NEW YORK

Drawing Title
SOIL EROSION AND SEDIMENT CONTROL PLAN

Project No. 190062401
Date OCTOBER 14, 2024
Drawn By GN
Checked By BS

Drawing No. CE101
Sheet 7 of 9



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.

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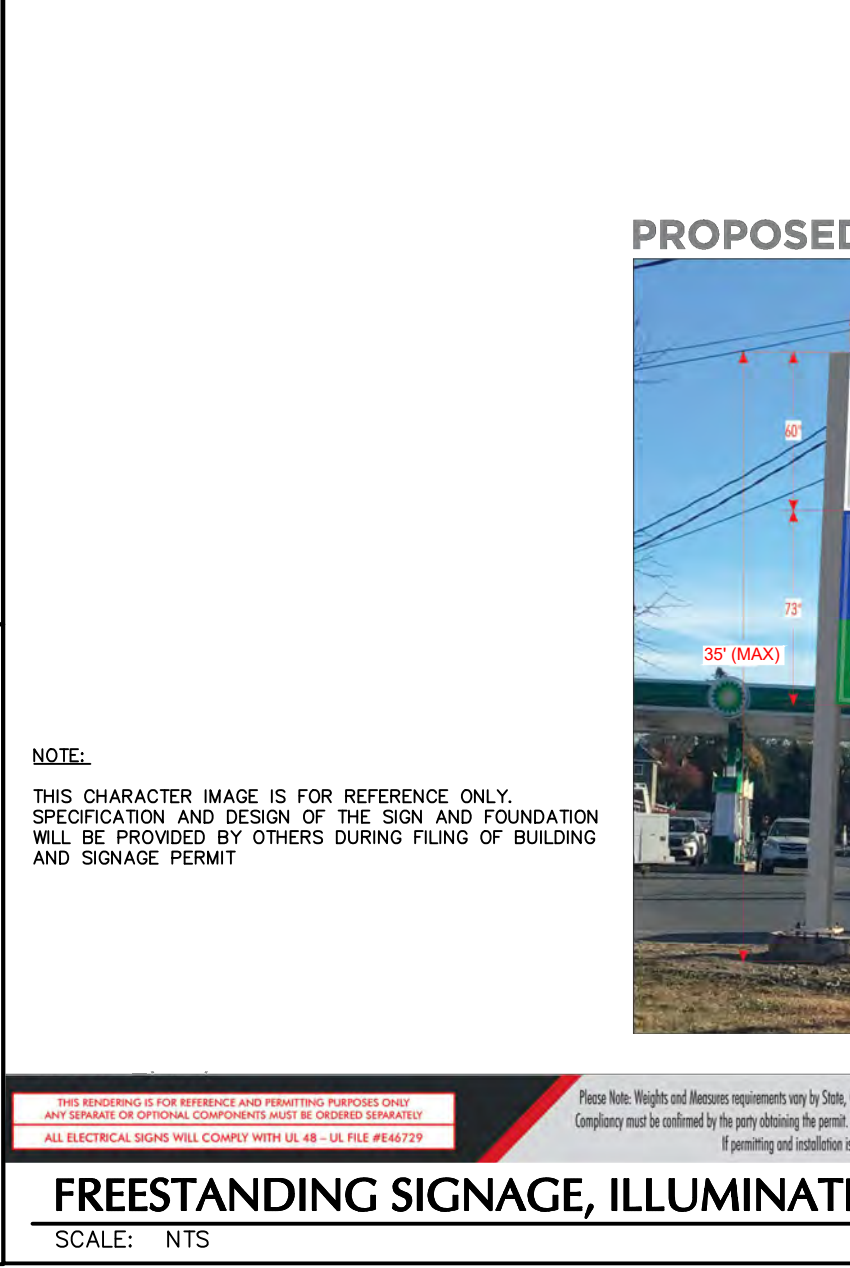
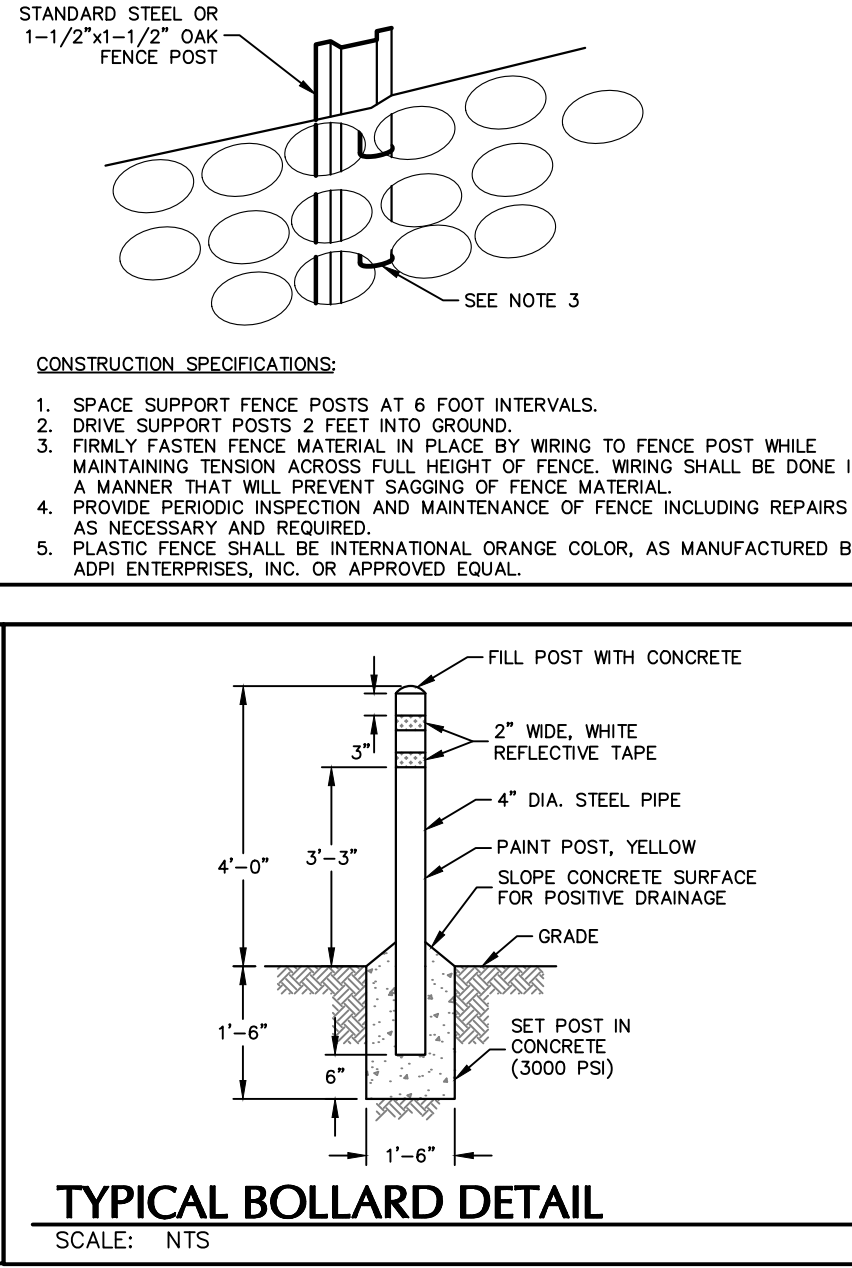
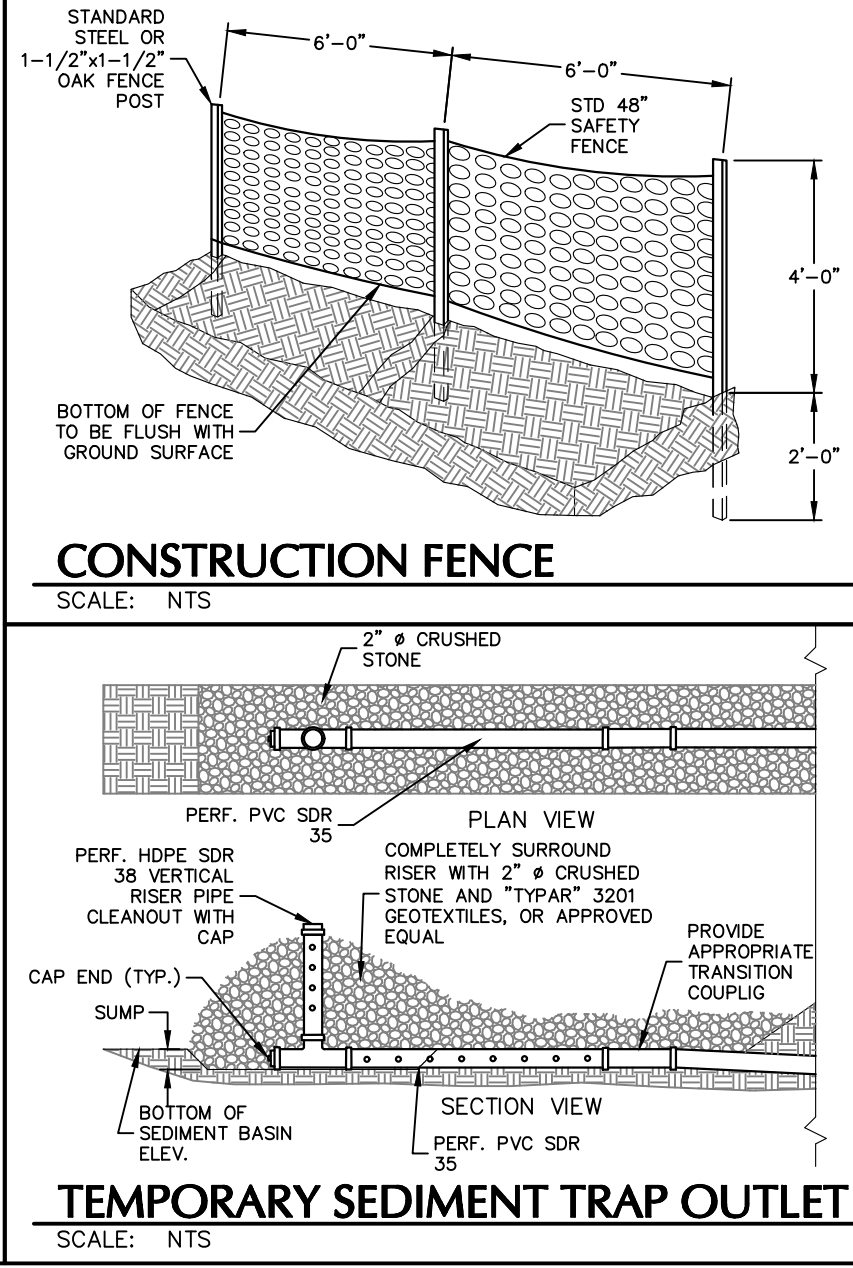
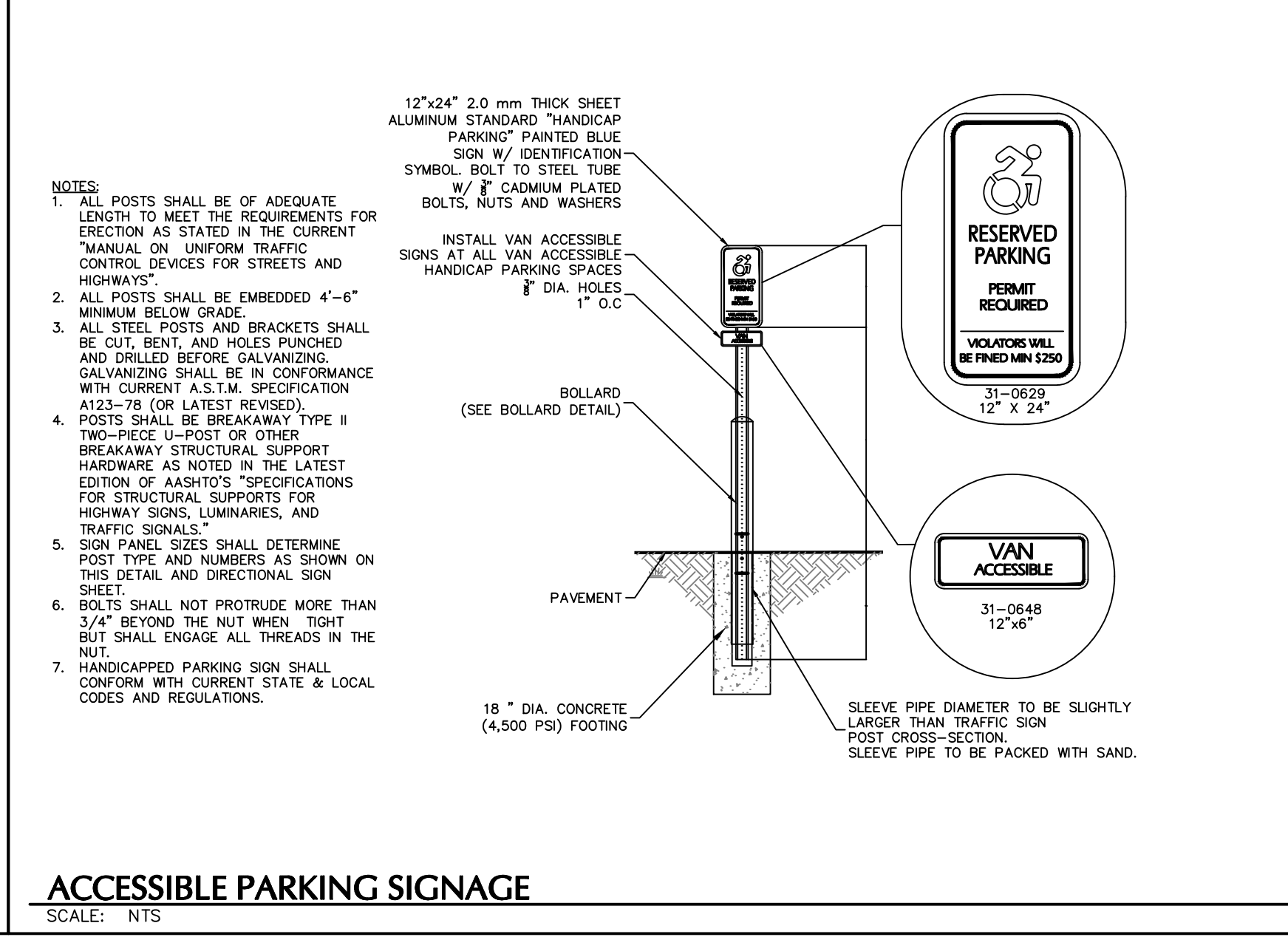
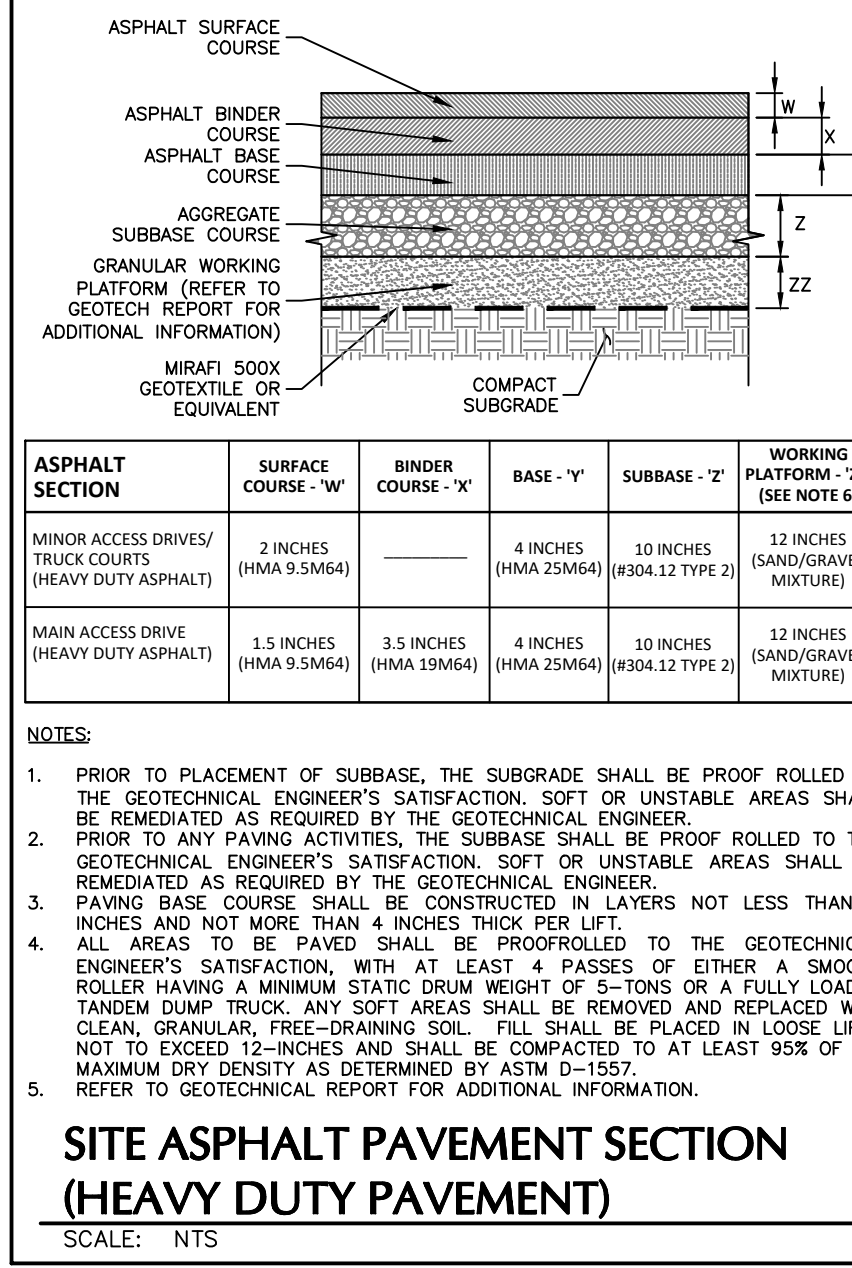
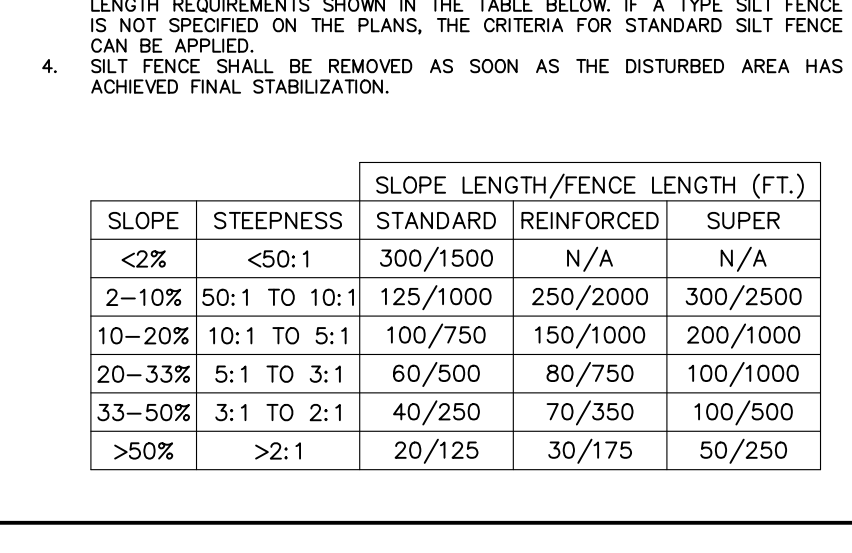
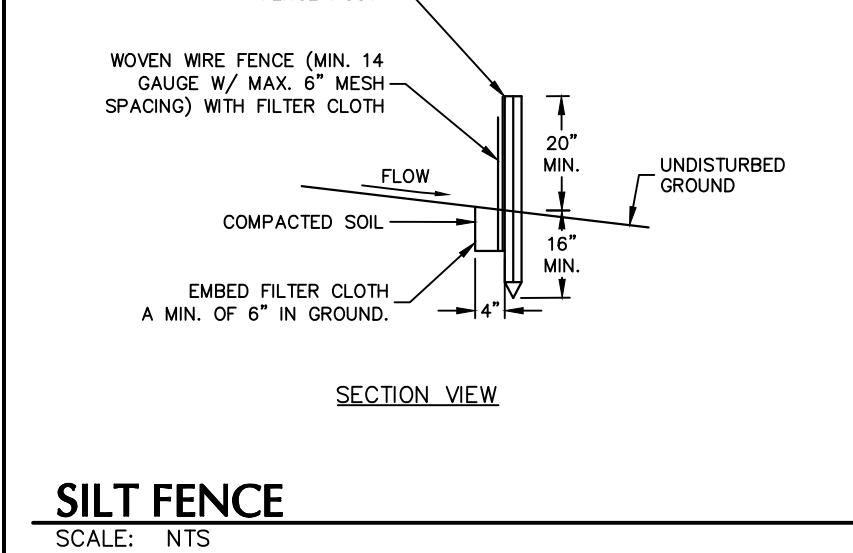
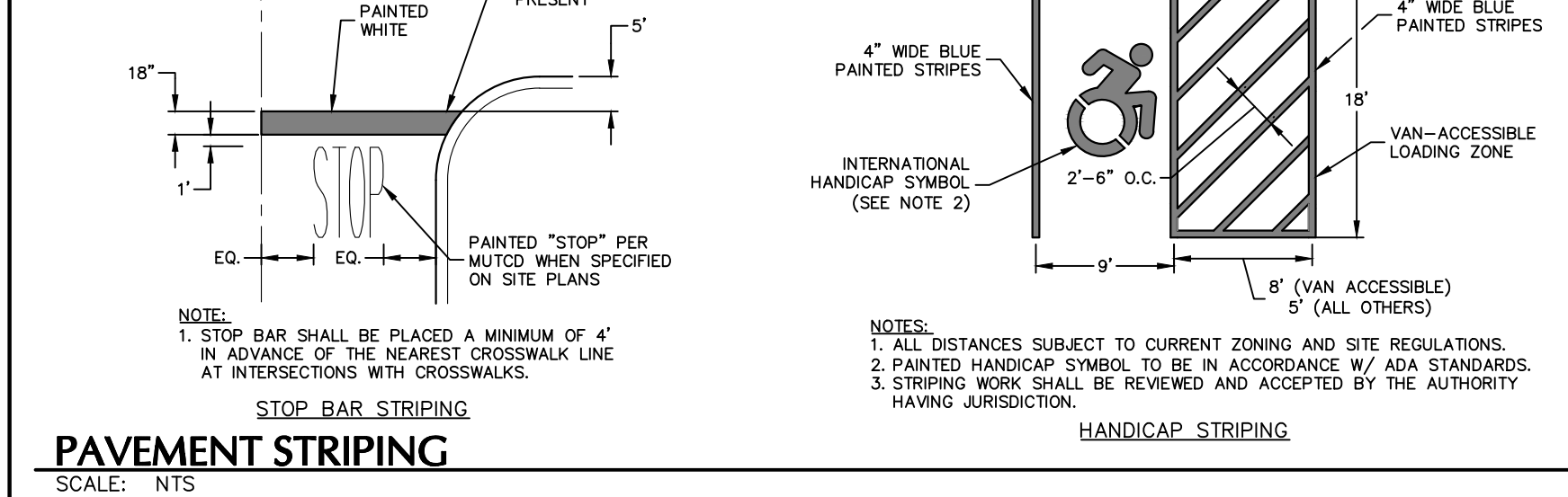
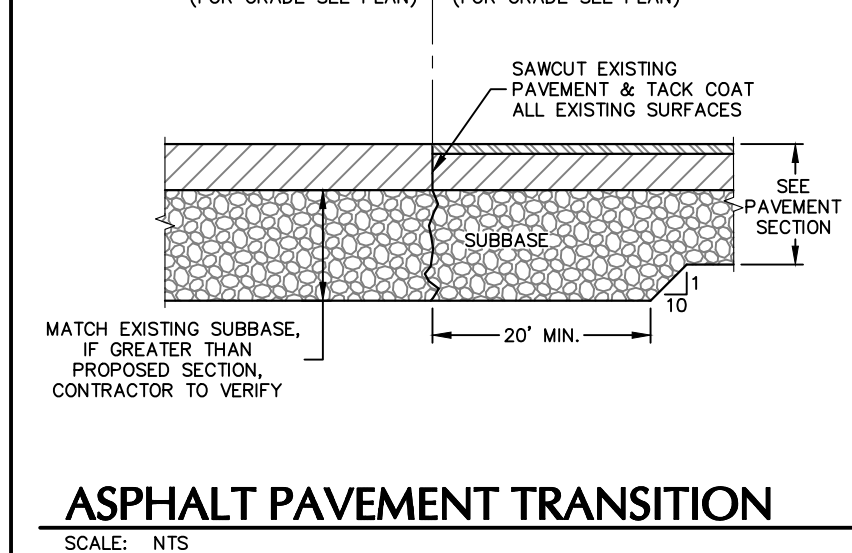
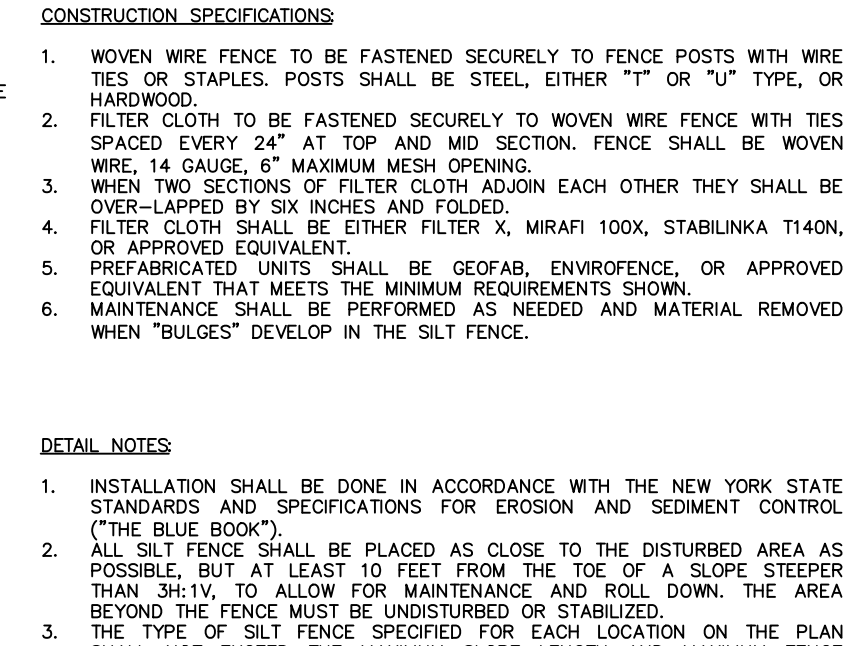
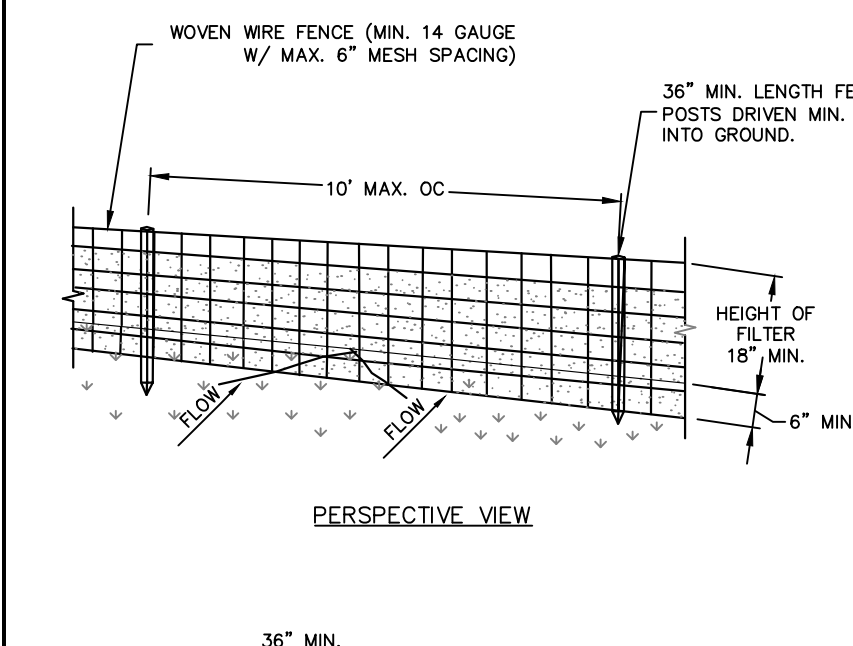
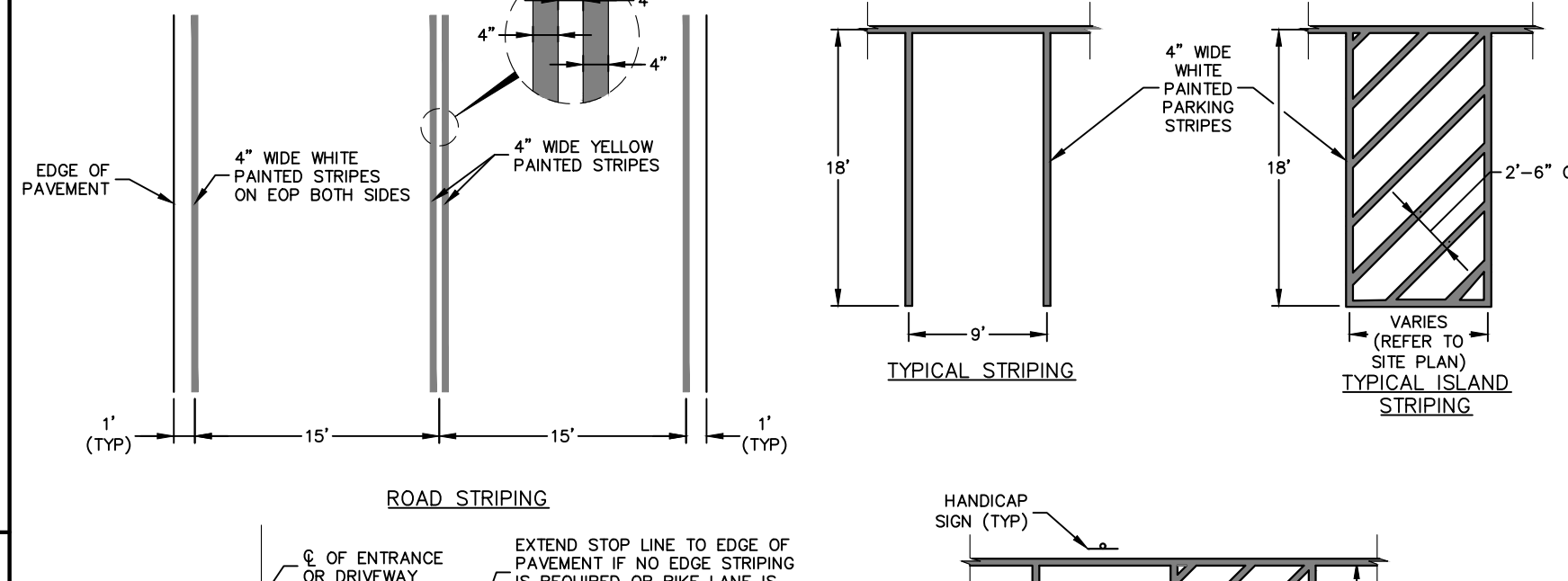
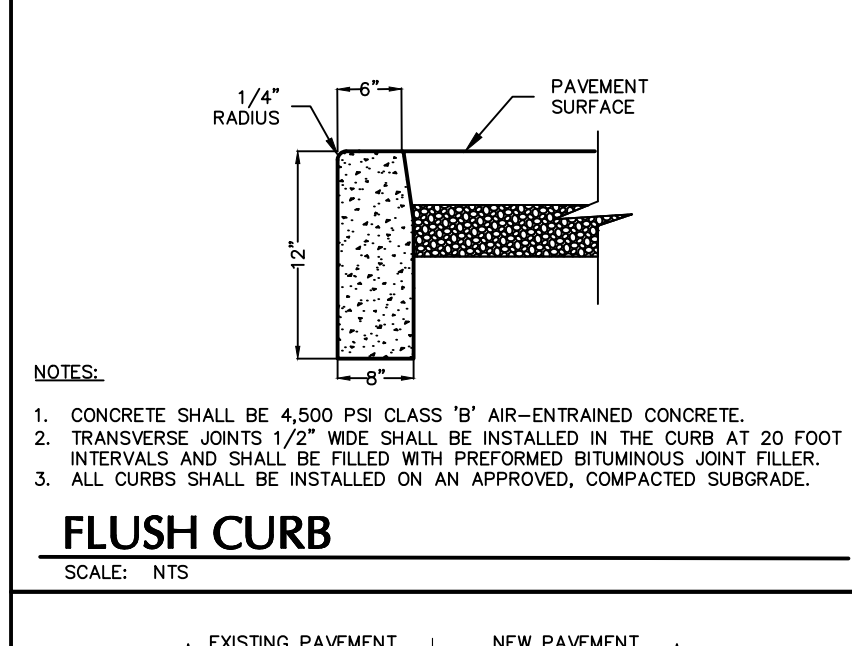
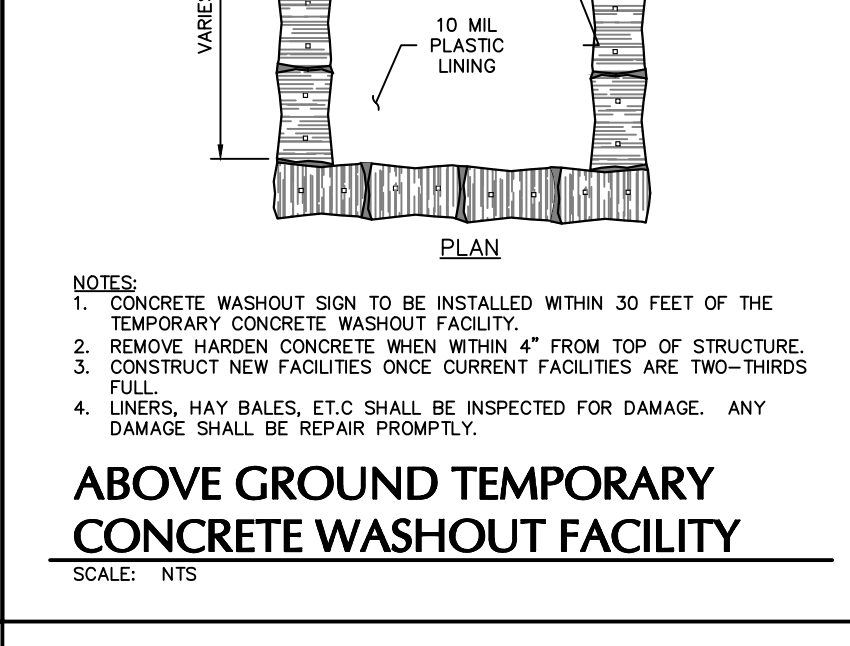
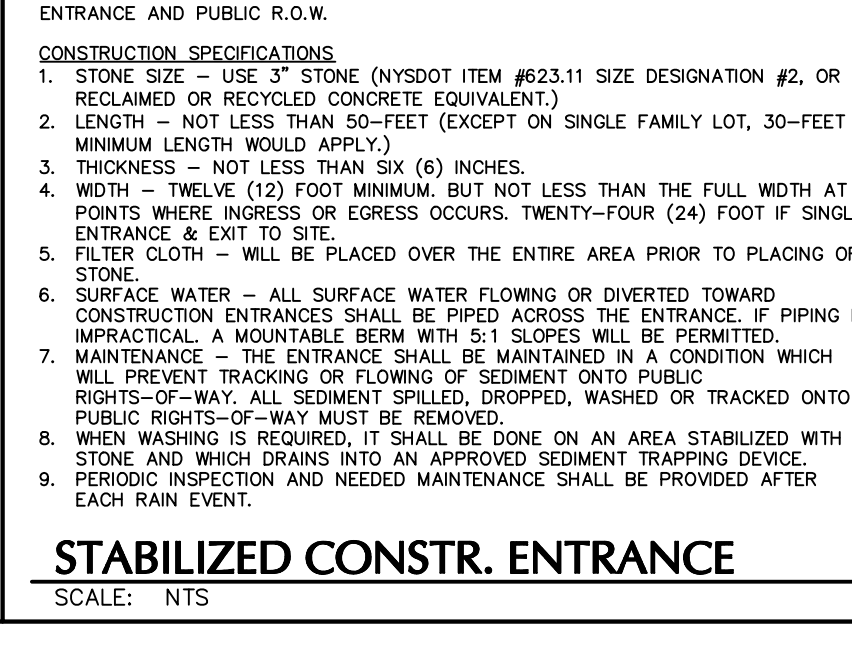
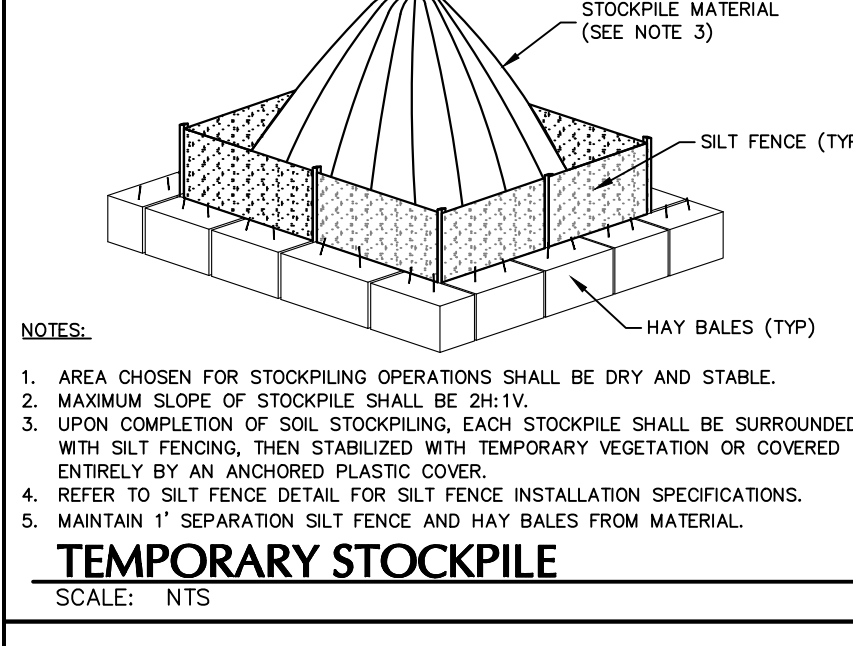
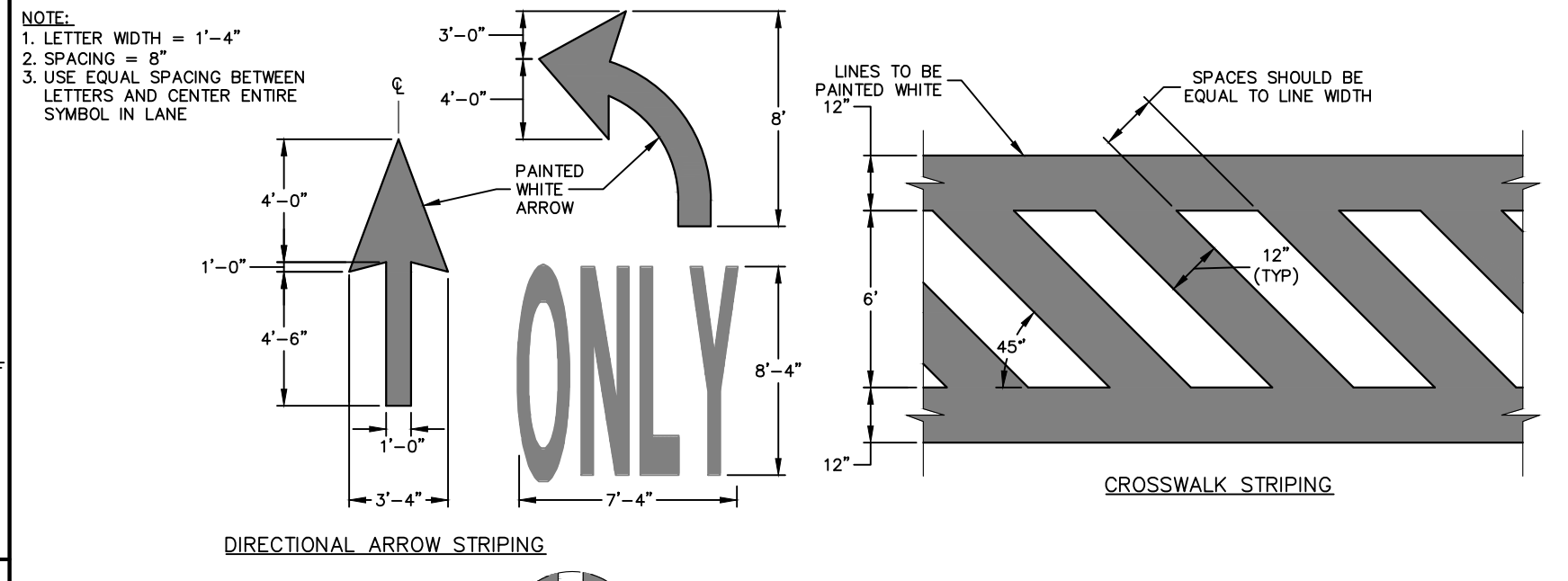
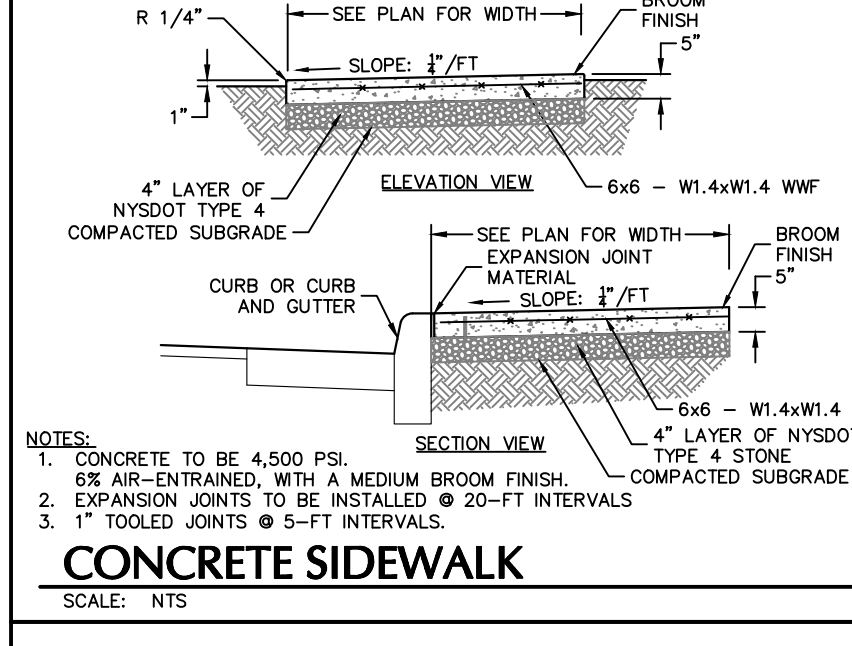
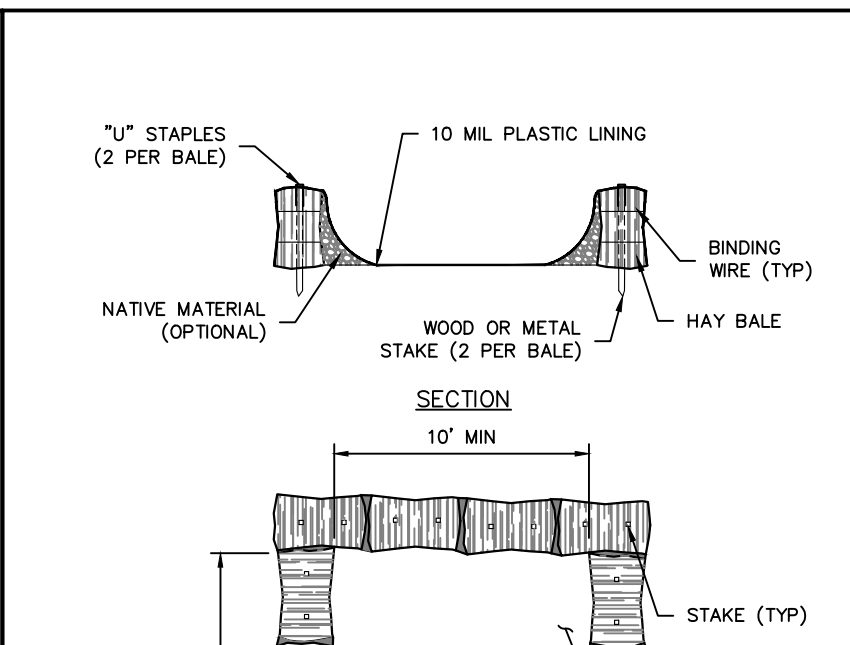
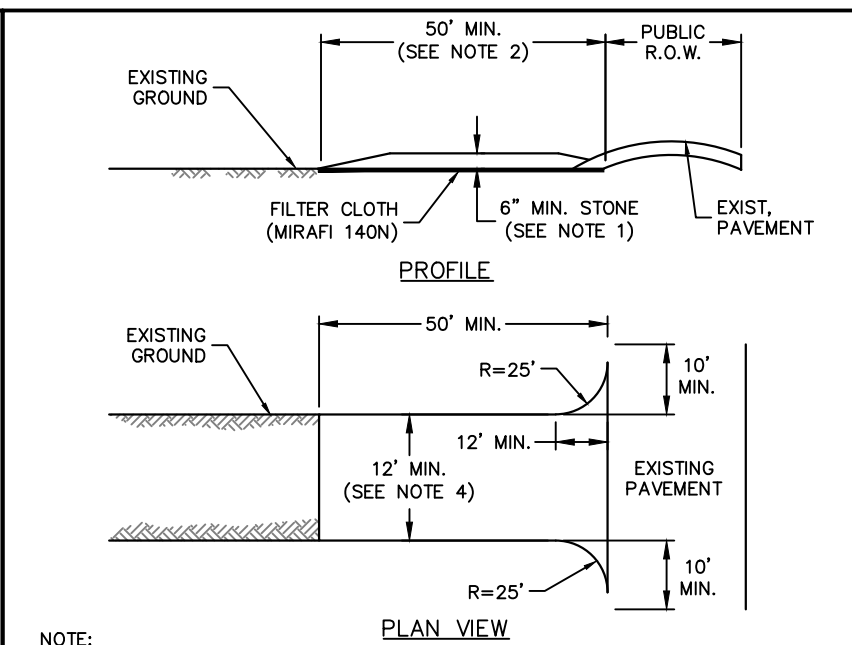
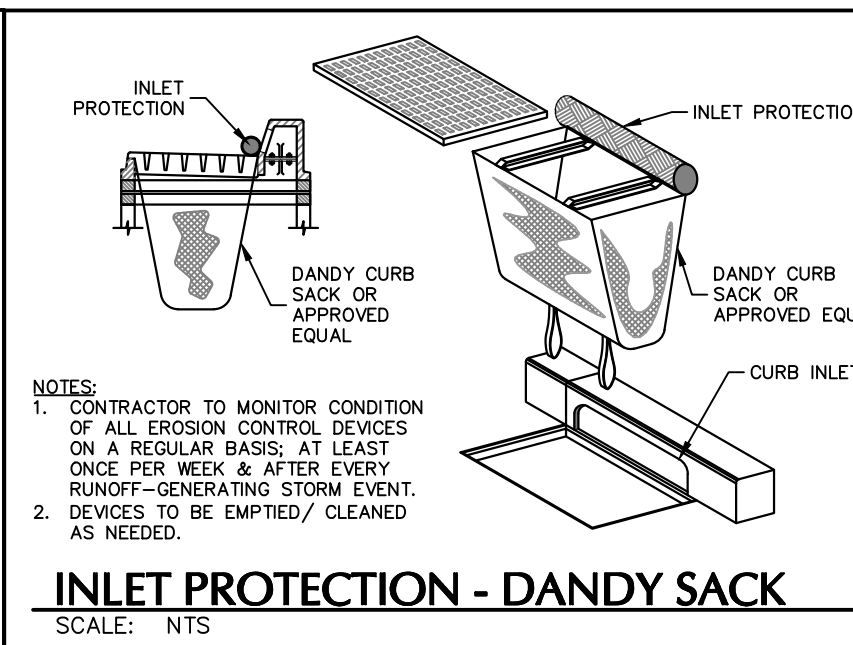
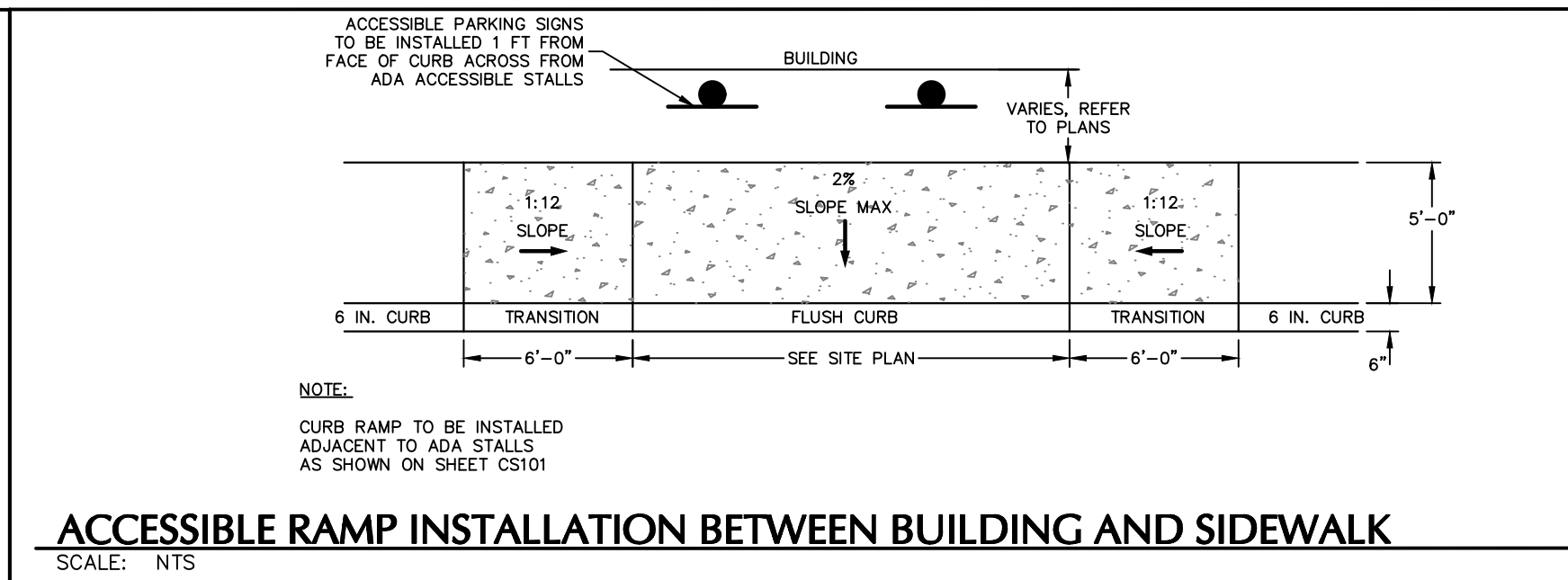
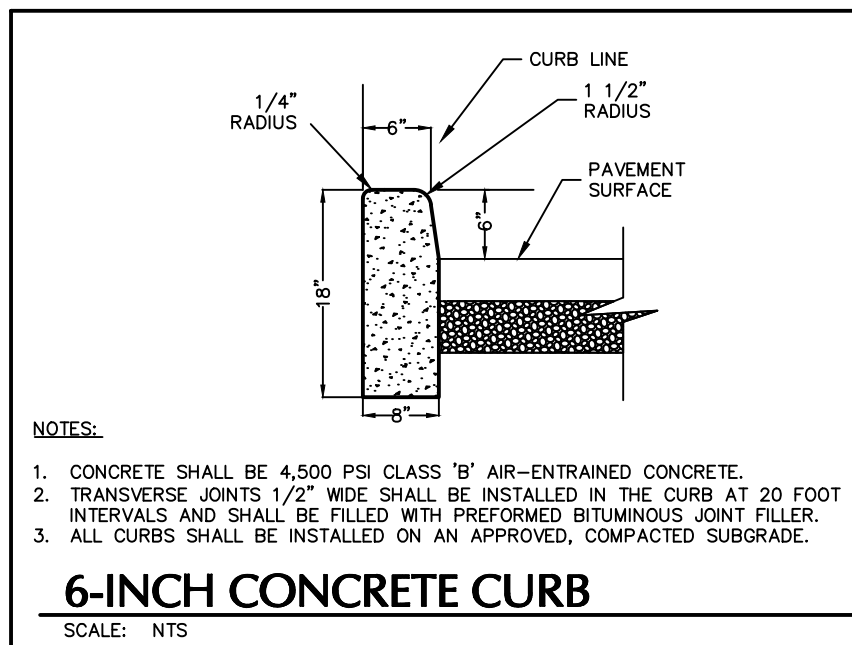
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NEWBURGH GAS STATION
BLOCK No. 1, LOT No. 80.1 & 80.2
TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK

Project
Drawing Title
SITE DETAILS (1 OF 2)

Project No. 19062401
Date: OCTOBER 14, 2024
Drawn By: GN
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Drawing No. CS501
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Date	Description	No.
REVISIONS		

STATE OF NEW YORK
MICHAEL J. FINN
11/08/2024
DATE SIGNED
PROFESSIONAL ENGINEER NY Lic. No. 081473

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Project
NEWBURGH GAS STATION
BLOCK No. 1, LOT No. 80.1 & 80.2
TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK

Drawing Title
SITE DETAILS (2 OF 2)

Project No.
19062401

Date
OCTOBER 14 2024

Drawn By
GN

Checked By
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Drawing No.
CS502

Sheet 10 of 14

LANGAN PROJECT NO. 190062401

SITE LIGHTING SCHEDULE

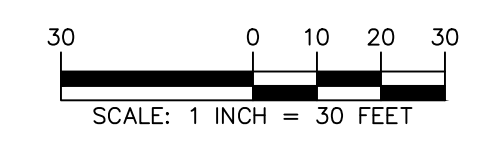
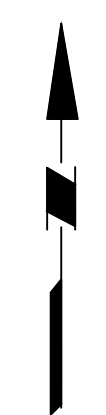
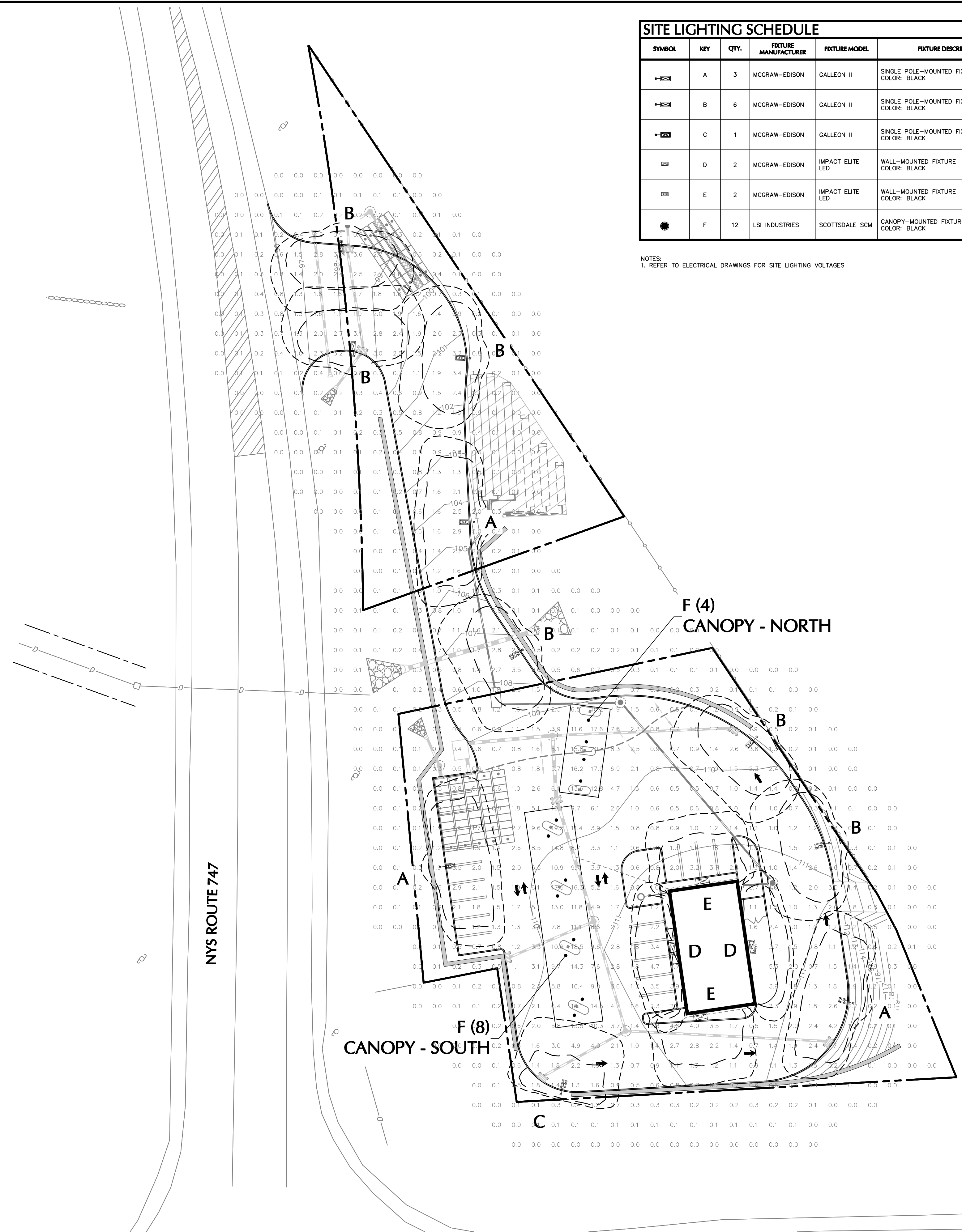
SYMBOL	KEY	QTY.	FIXTURE MANUFACTURER	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	LAMP	COLOR TEMPERATURE	OPTICS	LUMENS	LLF	FIXTURE CATALOGUE NO.	POLE MANUFACTURER	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO.	REMARKS
⬢	A	3	MCGRAW-EDISON	GALLEON II	SINGLE POLE-MOUNTED FIXTURE COLOR: BLACK	15'	57W LED	3000K	SL3	5,603	0.90	GALN-SA1C-830-MVOLT-SL3-BK	HAPCO	ROUND TAPERED STEEL POLE, COLOR: BLACK	12'	RTS20B80-4-D190-MVOLT-BA	POLE TO BE FACTORY CUT TO LENGTH OF 12'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
⬢	B	6	MCGRAW-EDISON	GALLEON II	SINGLE POLE-MOUNTED FIXTURE COLOR: BLACK	15'	57W LED	3000K	SL4	5,533	0.90	GALN-SA1C-830-MVOLT-SL4-BK	HAPCO	ROUND TAPERED STEEL POLE, COLOR: BLACK	12'	RTS20B80-4-D190-MVOLT-BA	POLE TO BE FACTORY CUT TO LENGTH OF 12'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
⬢	C	1	MCGRAW-EDISON	GALLEON II	SINGLE POLE-MOUNTED FIXTURE COLOR: BLACK	15'	33W LED	3000K	T41M	3,035	0.90	GALN-SA1A-830-MVOLT-T41M-HSS-BK	HAPCO	ROUND TAPERED STEEL POLE, COLOR: BLACK	12'	RTS20B80-4-D190-MVOLT-BA	POLE TO BE FACTORY CUT TO LENGTH OF 12'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
⬢	D	2	MCGRAW-EDISON	IMPACT ELITE LED	WALL-MOUNTED FIXTURE COLOR: BLACK	11" (ABOVE FFE)	45W LED	3000K	T2	4,556	0.90	IST-SA1D-830-MVOLT-T2-BK	-	-	-	-	-
⬢	E	2	MCGRAW-EDISON	IMPACT ELITE LED	WALL-MOUNTED FIXTURE COLOR: BLACK	11" (ABOVE FFE)	45W LED	3000K	T4FT	4,539	0.90	IST-SA1D-830-MVOLT-T4FT-BK	-	-	-	-	-
●	F	12	LSI INDUSTRIES	SCOTTSDALE SCM	CANOPY-MOUNTED FIXTURE COLOR: BLACK	14'-6"	56W LED	3000K	SC	7,010	0.90	CRUS-SC-LED-SLW-30-MVOLT-BLK	-	-	-	-	-

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

STATISTICS

DESCRIPTION	AVG.	MAX.	MIN.	MAX./MIN.	AVG./MIN.
CANOPY - SOUTH	11.9fc	19.5fc	5.8fc	3.4:1	2.0:1
CANOPY - NORTH	13.2fc	20.8fc	6.1fc	3.4:1	13.2:1
PARKING DRIVE	2.0 fc	10.3fc	0.5fc	20.6:1	2.0:1

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



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11/08/2024
DATE SIGNED

SIGNATURE
KRISTEN MITCHELL, RLA
LANDSCAPE ARCHITECT NY Lic. No. 2887

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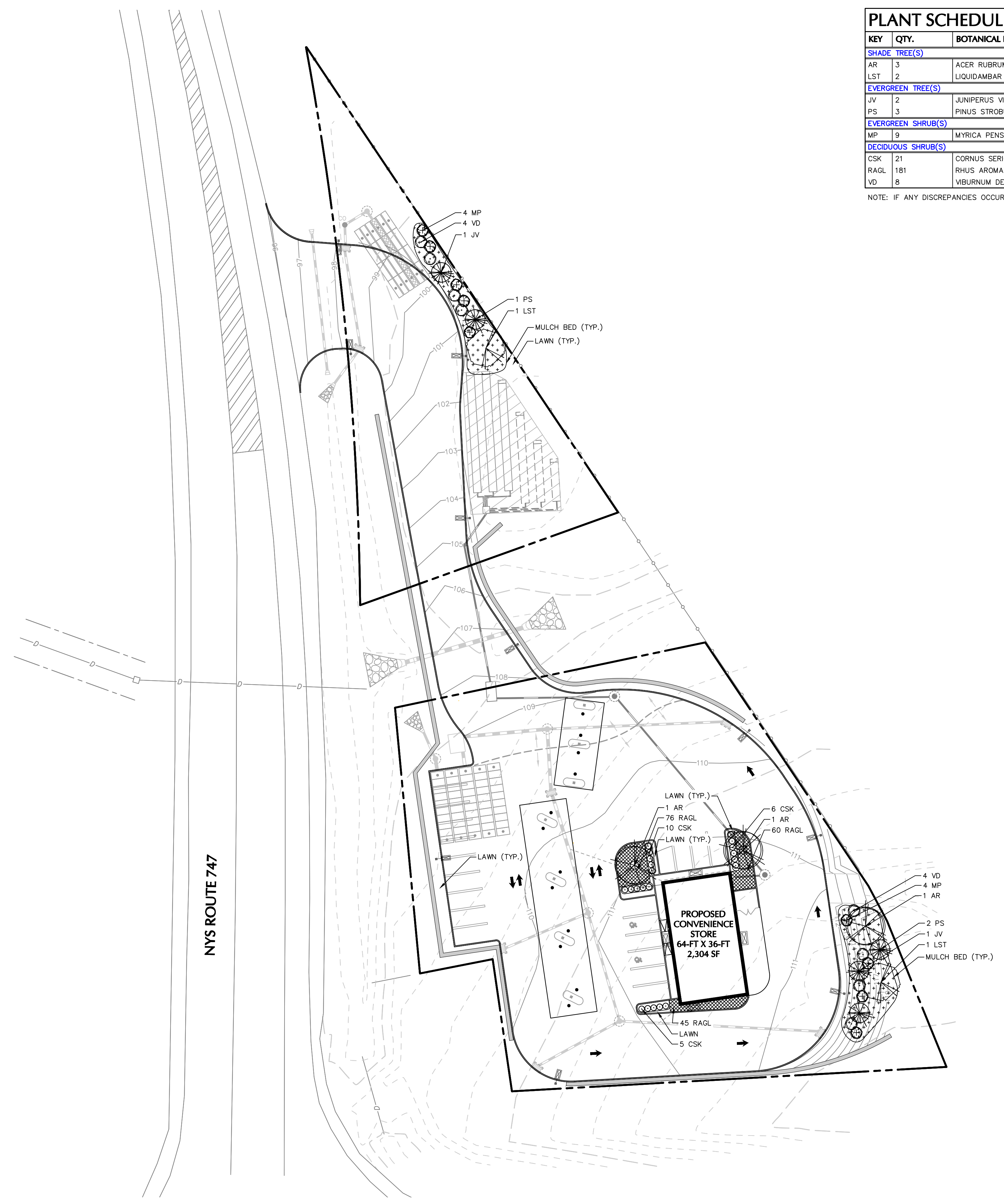
Drawing Title
SITE LIGHTING PLAN

Project No. 190062401	LL101
Date 2024 - 11 - 07	
Drawn By VC	
Checked By KM	
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PLANT SCHEDULE


KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)						
AR	3	ACER RUBRUM	RED MAPLE	2 1/2-3" CAL.	B+B	--
LST	2	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	2 1/2-3" CAL.	B+B	--
EVERGREEN TREE(S)						
JV	2	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	8-10'	B+B	--
PS	3	PINUS STROBUS	EASTERN WHITE PINE	8-10'	B+B	--
EVERGREEN SHRUB(S)						
MP	9	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	30-36"	B+B	--
DECIDUOUS SHRUB(S)						
CSK	21	CORNUS SERICEA 'KELSEYI'	KELSEY'S DWARF RED-OSIER DOGWOOD	24-30"	CONTAINER	--
RAGL	181	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	24-30"	CONTAINER	spaced @ 24" o.c.
VD	8	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24-30"	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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Drawing Title
PLANTING PLAN

Project No. 190062401	Drawing No. LP101
Date 2024 - 11 - 07	Sheet of
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GENERAL LANDSCAPE PLANTING NOTES

- 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.
- 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.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
- STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL, AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH THE GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, FREE FROM DISEASES AND INSECT INFESTATIONS.
- 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.
- 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.
- 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.
- LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING. 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.
- 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 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.
- DELIVERY, STORAGE, AND HANDLING
 - 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.
 - 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 THE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL PROTECTIVE COVERING DURING TRANSPORT. DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING.
 - ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ROOTBALL WRAPPING AND BRINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE ROOT 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.
 - THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANTING IS DELAYED MORE THAN 6 HOURS. AFTER PLANTING, 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.
- 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.
- ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT SHALL REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
- PER TOWN LANDSCAPE BOND REQUIREMENTS, NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF TWO YEARS FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNUSUALLY DYING OR DEAD DURING THIS PERIOD SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. PLANTS WILL BE INSPECTED UPON COMPLETION OF INSTALLATION ONCE A REQUEST FOR INSPECTION HAS BEEN SUBMITTED BY THE CONTRACTOR AND WILL BE INSPECTED AGAIN THE FOLLOWING FOUR GROWING SEASONS.
- 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.
- 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.
- THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.
- 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.
- 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.
- ALL FENCE INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN AND GRASSES, OR IRRIGATION WORK.
- FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN SHALL GOVERN.
- PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED.
- 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.

- SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT SPECIFICATIONS.
- 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.
- 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.
- 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.
- BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO LESS THAN 2-1/4 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

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

NOTES:

- SEED RATE:
 - NEW ESTABLISHMENT: SEED AT A RATE OF 6-8 LBS/1000 SQ FT
 - 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:**

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

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.

PLANTING SOIL SPECIFICATIONS

- 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.
 - PLANTING SOIL:**
REUSE SPECIFIC 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. 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.
 - THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR APPROVAL BEFORE INSTALLATION:
 - PARTICLE SIZE ANALYSIS - LOAMY SAND: 60%-75% SAND, 25%-40% SILT, AND 5%-15% CLAY.
 - FERTILITY ANALYSIS: PH (5.5-6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM.
 - ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS
 - TOWD SUBSTANCE ANALYSIS
 - MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED
 - NOT MORE THAN 1% OF MATERIAL SHALL BE FINER THAN A #4 SIEVE
- 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 25-35% 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.
 - ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MULD 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".
 - 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.
- AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS:**
 - GROUND LIMESTONE (WITH A MIN. OF 88% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING RESULTS OF SOIL ANALYSIS.
 - BRING PH LEVELS TO 6.5 MIN. TO 6.5 FOR NON-ERCAICIOUS PLANTS
 - BRING PH LEVELS TO 4.5 MIN. TO 5.5 FOR ERCAICIOUS PLANTS
 - TERRA-SORB BY "PLANT HEALTH CARE" 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN PLANTER BACKFILL MIXTURE WITH TREES AND SHRUBS.
 - WOOD-ROOT SAVOR BY "PLANT HEALTH CARE" 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.

- 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.
- 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 5.5 - 7.0.
- SOIL PLACEMENT:**
 - 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.
 - 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.
- 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.
- SOIL CONDITIONING:**
 - 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.
 - ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS):**
 - 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.
 - MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR OPSYLM. 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 OR RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.
 - 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.

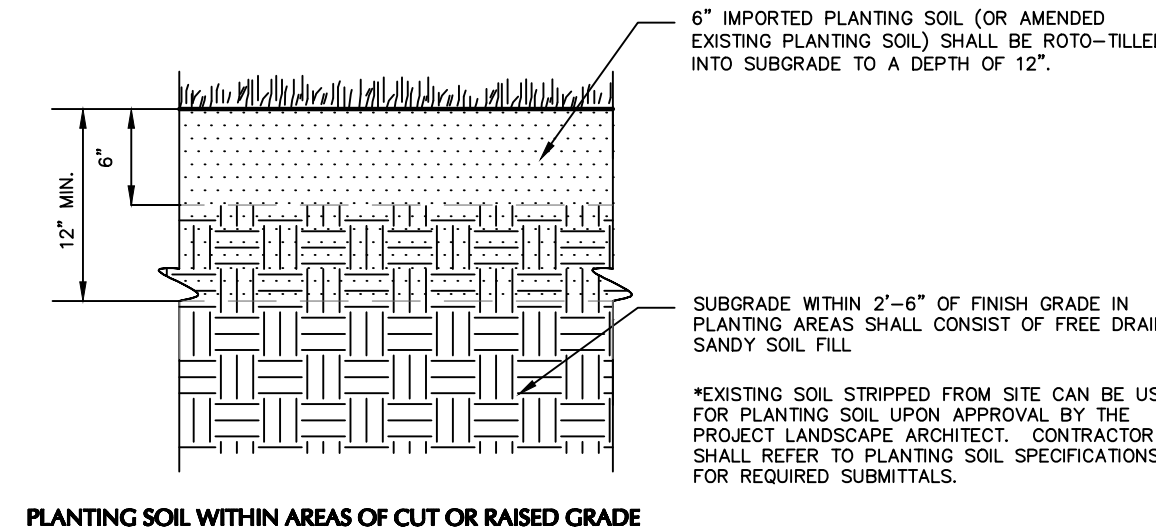
LANDSCAPE MAINTENANCE NOTES

- MAINTENANCE OPERATIONS BEFORE APPROVAL:**
 - 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.
 - 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.
 - CONTRACTOR SHALL REMOVE AND REPLACE ALL DEAD, DEFECTIVE AND/OR REJECTED PLANTS AS REQUIRED BEFORE FINAL ACCEPTANCE.
- MAINTENANCE DURING CONSTRUCTION:**
 - 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 RELOCATED 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.
 - 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.
 - 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.
 - PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER INSPECTION AND PROVISIONAL ACCEPTANCE.
 - 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.
- LAWN MAINTENANCE:**
 - BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED AND CONTINUE FOR 8 WEEKS AFTER ALL LAWN PLANTING IS COMPLETED.
 - WATER TO KEEP SURFACE SOIL MOIST, REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL, LIMING, FERTILIZING AND RE-SEEDING NOW 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.

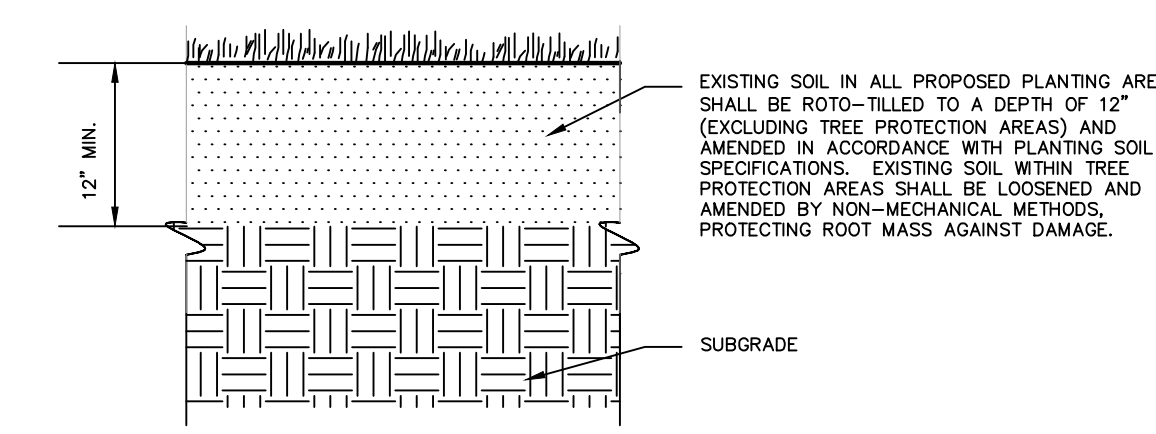
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GENERAL NOTE:

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 GROWN 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 TRANSITION GRADIENT TO ALLOW FOR PROPER DRAINAGE.



PLANTING SOIL WITHIN AREAS OF CUT OR RAISED GRADE



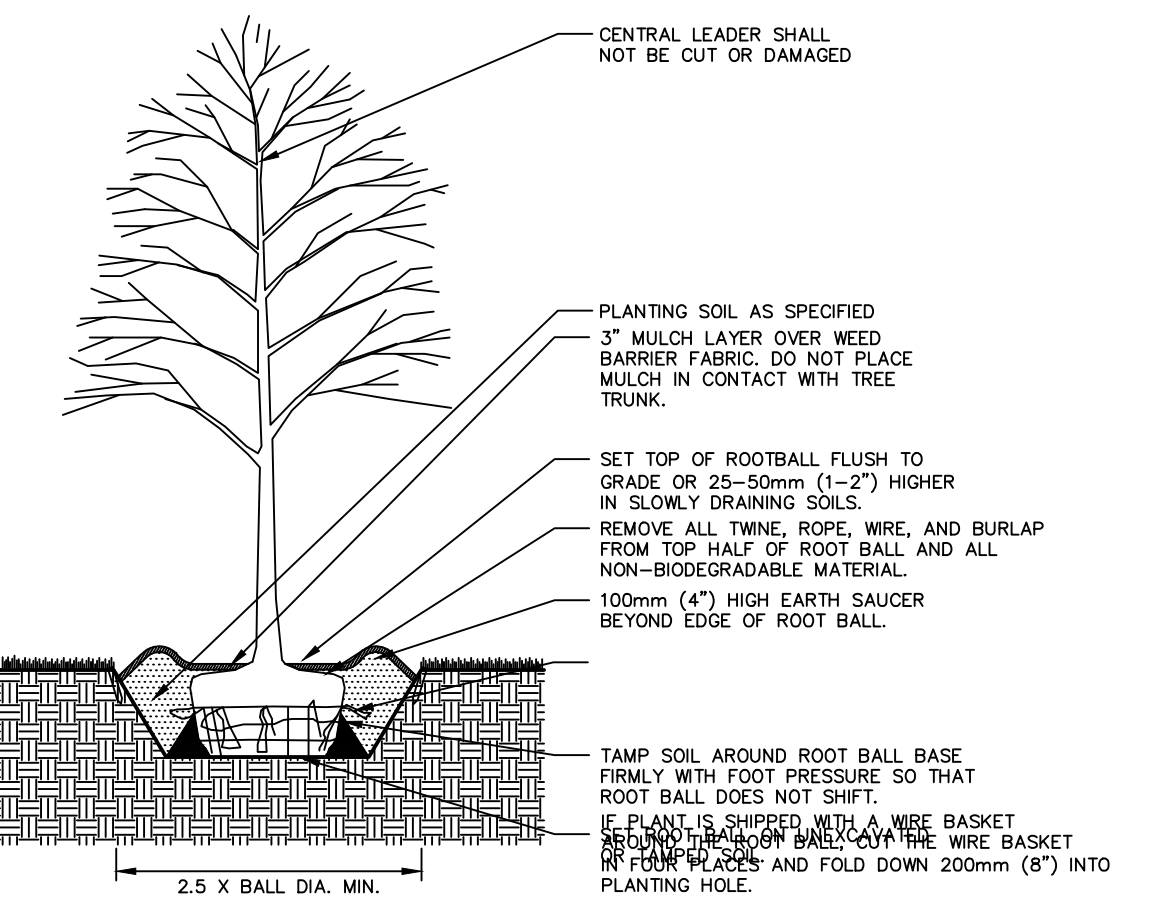
PLANTING SOIL WITHIN AREAS OF UNCHANGED GRADE

NOTES:

- CONTRACTOR IS RESPONSIBLE TO SEND SAMPLES OF EXISTING SOILS INTENDED FOR USE IN PLANTING AREAS (1 PER 500 C.Y.) TO TESTING LABORATORY OR UNIVERSITY COOPERATIVE EXTENSION FOR TESTING. ALL TESTING COSTS ARE AT THE CONTRACTOR'S EXPENSE.
- RECYCLED CRUSHED CONCRETE AND ASPHALT MILLINGS SHALL NOT BE PLACED WITHIN 2'-6" OF FINISH GRADE IN PROPOSED LANDSCAPE AREAS.
- IMPORTED FILL SHALL CONTAIN NO CONTAMINATION IN EXCESS 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.
- CONTRACTOR TO LIGHTLY COMPACT ALL PLACED PLANTING SOILS AND RAISE GRADES ACCORDINGLY TO ALLOW FOR FUTURE SETTLEMENT OF PLANTING SOILS (TYP.)
- NO STONES, WOOD CHIPS, OR DEBRIS LARGER THAN 1/2" SHALL BE ACCEPTABLE WITHIN PLANTING AREAS.

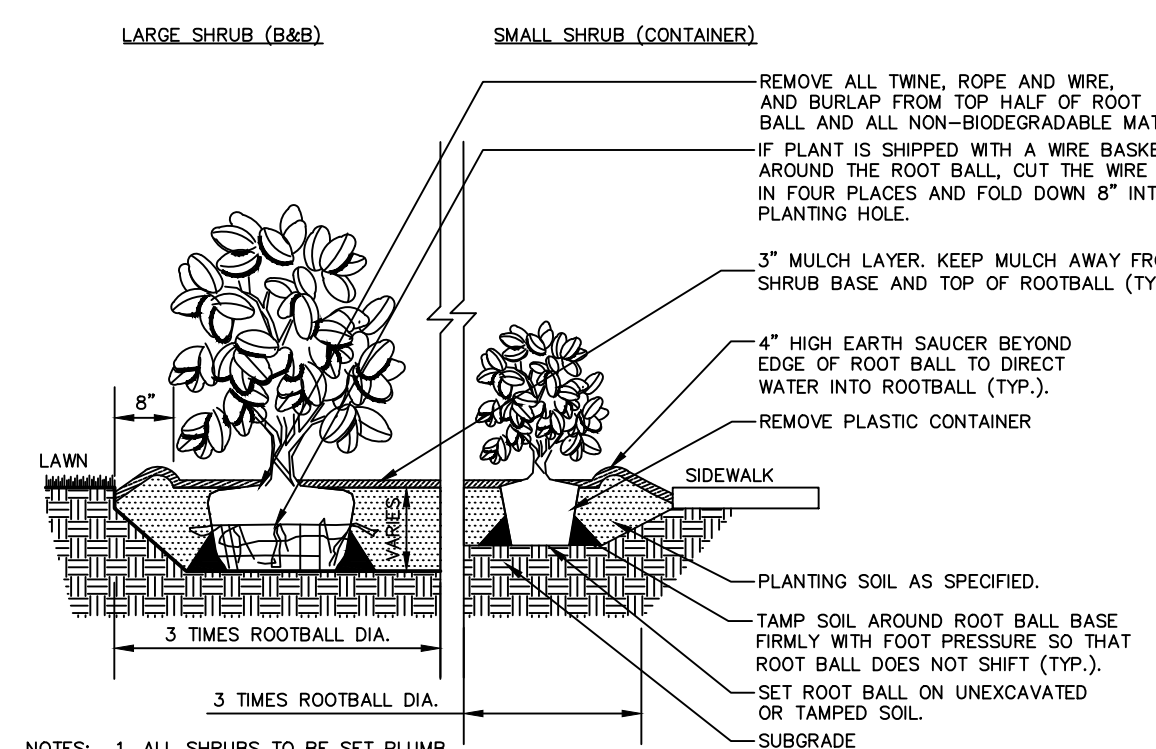
1 PLANTING SOIL

NTS



2 TREE PLANTING

NTS



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

3 SHRUB AND ORNAMENTAL GRASS PLANTING

NTS


11/08/2024
SIGNATURE: KRISTEN MITCHELL, RLA
DATE SIGNED: 11/08/2024
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Project
NEWBURGH GAS STATION
BLOCK No. 1, LOT No. 80.1 & 80.2
TOWN OF NEWBURGH
ORANGE COUNTY NY

Drawing Title
PLANTING NOTES AND DETAILS

Project No. 190062401	Drawing No. LP501
Date 2024 - 11 - 07	
Drawn By VC	
Checked By KM	Sheet of