

McGOEY, HAUSER and EDSALL CONSULTING ENGINEERS D.P.C.

MARK J. EDSALL, P.E., P.P. (NY, NJ & PA) MICHAEL W. WEEKS, P.E. (NY, NJ & PA) MICHAEL J. LAMOREAUX, P.E. (NY, NJ, PA, VT & VA) MATTHEW J. SICKLER, P.E. (NY & PA) PATRICK J. HINES <u>Main Office</u> 33 Airport Center Drive Suite 202 New Windsor, New York 12553

(845) 567-3100 fax: (845) 567-3232 e-mail: mheny@mhepc.com

Principal Emeritus: RICHARD D. McGOEY, P.E. (NY & PA) WILLIAM J. HAUSER, P.E. (NY, NJ & PA)

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT:

PROJECT NO.: PROJECT LOCATION: PROJECT REPRESENTATIVE: REVIEW DATE: MEETING DATE:

NYCDEP DELAWARE AQUDUCT RONDOUT WEST BRANCH TUNNEL REPAIR SHAFT 5B - STORM WATER POLLUTION PREVENTION PLAN MODIFICATION #6 11-15 SECTION 8, BLOCK 1, LOT 15.2 & 22.2 NYCDEP 25 SEPTEMBER 2015 1 OCTOBER 2015

- 1. Status of the City of New York SEQRA review as lead agency should be discussed with the Applicants.
- 2. The Applicants have submitted an SWPPP revised per MH&E comments. SWPPP is acceptable.
- 3. Planning Board should discuss proposed landscaping.
- 4. Planning Board should address whether storm water securities are required of this municipal applicant.
- 5. Landscape and storm water inspection fees are required.
- 6. At a previous meeting, the Applicant's Representative identified they would provide the Planning Board with a definitive answer regarding the reduction in truck traffic provided by placing the tunnel material on the expanded site.
- 7. The Applicant's Representative was to provide specifications for the sizing of the tunnel material which would be deposited on the site.

Respectfully submitted,

McGoey, Hauser & Edsall Consulting Engineers, D.P.C.

Patrick J. Hines Principal

Regional Office • 111 Wheatfield Drive • Suite 1 • Milford, Pennsylvania 18337 • 570-296-2765 •





Emily Lloyd Commissioner

Sean McAndrew, P.E. Program Director

Water for the Future

Bureau of Engineering Design & Construction

mcandrews@dep.nyc.gov

16 Little Hollow Road P.O. Box 358 Grahamsville, NY 12740

T: (845) 334-7195 F: (845) 985-2282 Mr. Patrick J. Hines, P.E. McGoey, Hauser and Edsall Consulting Engineers, P.C. 33 Airport Drive, Suite 202 New Windsor, New York 12533

September 15, 2015

SEP

17

2015

Re: New York City Department of Environmental Protection Delaware Aqueduct Rondout-West Branch Tunnel Repair Program West Connection Site / Shaft 5B and Support Site Stormwater Pollution Prevention Plan – Modification #6 Town Project Number: 2011-15

Dear Mr. Hines:

Thank you very much for your September 1, 2015 comments subject project. Please see the enclosed documents and signed and sealed drawings as requested to finalize the stormwater pollution prevention plan (SWPPP) modification originally submitted in May of this year.

For your convenience, a revision summary has been attached to this letter as has a brief response to your September 1st comments. A compact disk with electronic copies of the full SWPPP modification documents is also included.

Thank you once again for your help, and should you have any questions, please feel free to contact Chris Villari (718-595-5565, <u>civillari@dep.nyc.gov</u>) or Phil Simmons (718-595-4471, <u>psimmons@dep.nyc.gov</u>). We look forward to receiving a signed MS4 acceptance form in the near future.

Sincere IcAndrew

Enclosure

cc:

(letter and compact disk only) Mr. John P. Ewasutyn, Town of Newburgh Planning Board Chairman Dan Michaud, DEP Bureau of Water Supply



MEMORANDUM

Subject:	NYCDEP Rondout-West Branch Bypass Tunnel Bell Property Amended Site Plan Storm Water Pollution Prevention Plan & Storm Water Management Plan – Revision Summary	Date:	9/9/2015
Prepared By:	Troy A. Wojciekofsky, PE, LEED-AP, ENV-SP Stantec		
Submitted By:	Brian M. Lakin, PE, ENV SP JA Underground: PC dba Jacobs Associates	File Number:	4458.2

The following pages of the SWPPP have been revised:

SWPPP Narrative

Page

Cover Preface - SWPPP Modification Form; SWPPP Preparer Certification Distribution TOC 21 - 4044

53 - 77

Appendix B NOI – page 3, 6

Appendix D All Stantec Sheets

Appendix E All

Appendix F All

Appendix K All

JA-UNDERGROUND .P.C. dba Jacobs Associates

New York City Department of Environmental Protection Delaware Aqueduct Rondout-West Branch Tunnel Repair Program West Connection Site / Shaft 5B and Support Site Stormwater Pollution Prevention Plan – Modification #6 Town Project Number: 2011-15

Response to September 1, 2015 Comments September 14, 2015

This document repeats comments from Patrick Hines dated September 1, 2015 (bold text) regarding the subject project and provides responses from DEP (italics).

 This office accepts these modifications to the SWPPP for the Bell property. Modifications are outlined in a 22 July 2015 letter received 10 August 2015 detailing responses to this office comments as well as modifications to the plans and report. Based on a review of the information provided, please provide final versions of the SWPPP for inclusion in the binder submitted in May of this year. Final signed and sealed drawings that require updates should also be provided. Please copy the Town of Newburgh Planning Board on all information submitted to this office.

<u>DEP Response</u>: The final version of the SWPPP sections - including final signed and sealed drawings and supporting documentation - that required updates since the original submission on May 15, 2015 are enclosed. Please see the attached revision summary for those sections that have been updated. Note that Appendices A, C, G, H, I, and J have not been updated, therefore hard copies have not been provided. Electronic copies are included, on the enclosed disk. Finally, the Planning Board chairman has been copied on this correspondence.

2) All items that have been deferred to contractors should be followed up by submission to the Town as the municipal authorized MS4. Information such as cut sheets for any pumps, pump vaults, etc. should be coordinated with the Town for inclusion in the SWPPP both in the town records and onsite.

<u>DEP Response</u>: As requested, DEP will coordinate with the Town and provide SWPPP updates as the project advances, including information related to the contractors' items as it becomes available.

 The NOI should be revised requesting the 10 acre disturbance waiver identified in the submission.

<u>DEP Response</u>: The NOI has been revised as requested and included in the enclosed documents.

4) Final plan submission should depict drainage course from SWDP2 to the new Route 9W culvert system. Existing topography does not clearly define defined swale along the farm roads/drainage course.

<u>DEP Response</u>: The requested depiction of the farm road swale drainage course has been added to the SWPPP. Please see the attached half size drawing SWFP-C2-120 as well as excerpts from Appendix F. Additional information from the SWPPP preparer follows below.

"The farm road swale has been field verified and dimensions of which are provided in the stormwater calculation package contained within Appendix F of the SWPPP (pages 56 and 58 of the pdf). These dimensions were measured both downstream of the SWDP-2 discharge point and 50 feet downstream of the discharge point. The riprap armoring shown in the drawings and in various figures within the stormwater report is being installed to protect the existing slope from eroding from the proposed point discharge from basin SWDP-2 while water flows to the existing swale. The rip rap armoring alignment provides a direct connection with the existing swale. At this connection point, based on field observations, the road cross-section is concave. This begins the swale cross-section geometry until further down the road, where the swale begins to run along the side of the road. In figures 9 and 10 of Appendix F (pages 48 and 50 of the pdf) the topography and flow lines are shown from the SWDP-2 discharge point flowing towards Route 9W. This flow line has been added to drawing sheet SWFP-C2-120 as well and shows the entirety of the flow line from the discharge point to Route 9W, where flow is intercepted by the existing highway drainage system."

FARM ROAD SWALE/DRAINAGE CORRIDOR CALCULATION Downstream of Discharge Point from SWDP-2

		ī
Side Slope	0.20 ft/ft	= Z
Base Width	7.7 ft	= 9
Downstream Slope	0.2340 ft/ft	"
Manning's n	0.025	=
Flow Rate	121.0 cfs	=

2
ă
0
0
š
÷.
-
Ε
2
ī
Ē

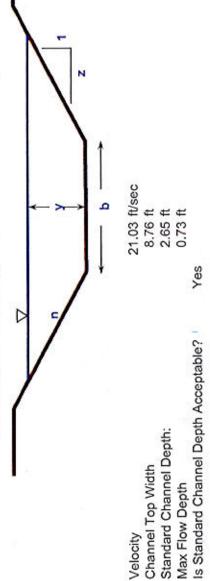
5.75 ft ² 9.20 ft 0.63 ft 250.1 cfs 0.0000 cfs 0.73 ft

Project:	West Connection Support Site
Location:	Newburgh, NY
Date:	8/5/2015
Prepared By: HAKS	By: HAKS
stratic contract	

Depth	
Flow	
itical	
· C	
-	
1.1	
< >	

15.68 ft ² 11.65 ft 1.35 ft 8.48 ft 8.48 ft 0.0000 ft ⁵ 1.94 ft	ft ² Flow Area tt Wetted Perimeter			tt ⁵ Q ² /g - А ³ /Т	ft Critical Flow Depth
	15.68 f	1.35 ft	8.48 ft	0.0000 f	1.94 f





50' Downstream of Discharge Point from SWDP-2 (Approx. Property Line) FARM ROAD SWALE/DRAINAGE CORRIDOR CALCULATION

West Connection Support Site

Project:

Flow Rate

121.0 cfs

" O

		Flow Area Wetted Perimeter Hydraulic Radius Top Width Q ² /g - A ³ /T
ewburgh, NY 8/5/2015 HAKS	Depth	17.17 ft ² 13.81 ft 1.24 ft 11.14 ft 0.0000 ft ⁵
Location: Newburgh, NY Date: 8/5/2015 Prepared By: HAKS	Critical Flow Depth	А Ч К Р А В В В Р Р В В В В Р Р В В В В В В Р В В В В В
Manning's n Downstream Slope Base Width Side Slope		Flow Area Wetted Perimeter Hydraulic Radius Manning's Conveyance Manning's Q - Given Q
0.025 0.1800 ft/ft 10.6 ft 0.17 ft/ft	Depth	6.90 ft ² 11.91 ft 0.58 ft 285.2 cfs 0.0000 cfs
с 0 0 л П П П П П	Uniform Flow Depth	е К К Р А е к К Р А е и к и е и

Note: Assign b = 0 for triangular channels or z = 0 for rectangular channels.

Critical Flow Depth

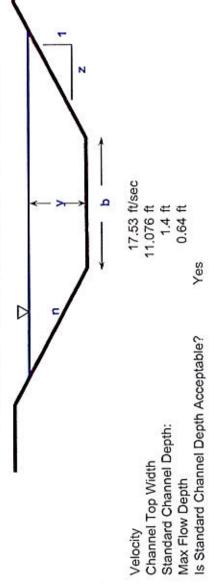
1.58 ft

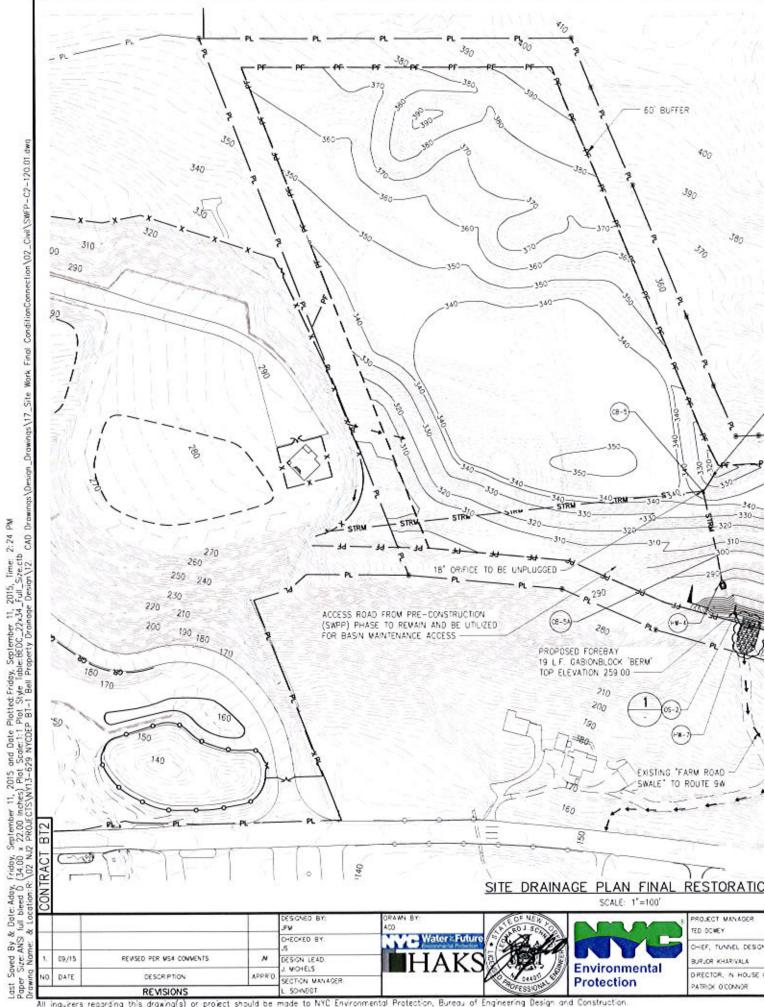
Ye =

Uniform Flow Depth

0.64 ft

Yn =





All inquirers regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureou of Engineering Design