



DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278-0090

NOV 16 2018

Regulatory Branch

SUBJECT: Permit Application Number NAN-2017-00912-WNE
by Central Hudson Gas and Electric Corporation

Mark McLean
Central Hudson Gas and Electric Corporation
284 South Avenue
Poughkeepsie, New York 12601

Dear Mr. McLean:

On September 28, 2017, the New York District of the U.S. Army Corps of Engineers received a request for Department of the Army authorization for the discharge of fill material into waters of the United States in association with the excavation and removal of contaminated sediments from within the Hudson River at the site of the former North Water Street Manufactured Gas Plant (MGP). The site is located in the City of Poughkeepsie, Dutchess County, New York.

The submitted information indicates that the total impacts to waters of the United States would involve the excavation of approximately 40,000 cubic yards of sediments impacted by the former MGP, from within a 7-acre area of the Hudson River, below Mean High Water. Dredging would be performed using an environmental bucket within a containment cell mounted to a platform barge. The barge would be outfitted with turbidity curtains and floating booms positioned on all sides. The placement of the containment cell would be gradual, with the curtains/cells being lowered slowly, one side at a time, so any fish within the active work area would have time to avoid the work area. The dredged sediments would be disposed of at a New York State Department of Environmental Conservation (NYSDEC) approved upland site. Following remediation, the dredged areas would be restored with the placement of clean sand. The project is to be performed in accordance with the NYSDEC Decision Document under the Brownfield Cleanup Program, for Site Number C314070, dated March, 2016.

Approximately 716 linear feet of steel sheet pile, barrier bulkhead would be constructed just water-ward of the existing bulkhead in order to prevent further migration of contaminants into the waterway from the upland site of the former manufactured gas plant. In combination with the new barrier bulkhead, approximately 2.1 acres of river slope would be graded and capped. In addition, approximately 1.34 acres of capping material would be placed in order to cap contamination, while protecting existing utility lines. Each pile would be installed using vibratory hammer to start, then cushioned impact hammer to depth, if refusal is encountered. At the beginning of pile driving operations, a 20 minute "soft start" procedure would be used.

The work would be accomplished as shown on the following enclosed drawings:

- "Vicinity Map", Figure 1 of 11, dated 8/22/2018;
- "Current Site Layout and Known Utilities", Figure 2 of 11, dated 8/22/2018;
- "Remedial Activities Plan", Figure 3A of 11, dated 9/10/2018;
- "Barrier/Bulkhead Wall and River Slope Grading Plan", Figure 3B of 11, dated 8/22/2018;
- "River Slope Cap and Utility Cap Plan", Figure 3C of 11, dated 9/6/2018;
- "Proposed Dredge Plan", Figure 3D of 11, dated 8/22/2018;
- "Barrier/Bulkhead Wall", Figure 4 of 11, dated 8/22/2018;
- "Proposed Dredge Plan Cross Sections", Figure 5 of 11, dated 8/22/2018;
- "Dredge Site Control Map", Figure 6A of 11, dated 8/22/2018;
- "Engineering Controls Plan View", Figure 6B of 11, dated 8/22/2018;
- "Engineering Controls Side View", Figure 6C of 11, dated 8/22/2018;
- "Engineering Controls Detail", Figure 6D of 11, dated 8/22/2018;
- "Dredge Area Restoration Plan", Figure 7 of 11, dated 8/22/2018;
- "Proposed River Slope Grading Plan View", Figure 8 of 11, dated 8/22/2018;
- "Barrier/Bulkhead Wall and River Slope Cross Sections", Figure 9A of 11, dated 8/22/2018;
- "Barrier/Bulkhead Wall and River Slope Cross Sections", Figure 9B of 11, dated 8/22/2018;
- "Barrier/Bulkhead Wall and River Slope Cross Sections", Figure 9C of 11, dated 8/22/2018;
- "Barrier/Bulkhead Wall and River Slope Cross Sections", Figure 9D of 11, dated 8/22/2018;
- "Details For Side Slope Cap", Figure 10 of 11, dated 8/22/2018; and
- "River Slope and Utility Cap Details", Figure 11 of 11, dated 8/22/2018.

Based on the information submitted to this office, and accomplishment of notification in accordance with the applicable federal requirements, our review of the project indicates that an individual permit is not required. It appears that the activities within the jurisdiction of this office could be accomplished under Department of the Army Nationwide General Permit Number 38. The nationwide permits are prescribed as a Reissuance of Nationwide Permits in the Federal Register dated January 6, 2017 (82 FR 1860). The work may be performed without further authorization from this office provided the activity complies with the permit conditions listed in Section B, No. 38, Section C, any applicable New York District regional conditions, the following special conditions, and any applicable regional conditions added by the State of New York, copies enclosed.

Special Conditions

(A) The permittee shall comply with the terms and conditions of the enclosed letter from the New York State Office of Parks Recreation and Historic Preservation, dated July 6, 2018.

(B) In order to protect the Federally-listed endangered Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) and the Federally-listed endangered shortnose sturgeon (*Acipenser brevirostrum*) all in-water work shall occur only between September 1 and January 31.

(C) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

(D) The permittee shall assure that no construction materials or debris enters the waterway. Best Management Practices shall be utilized to ensure turbidity is minimized in the water.

(E) At least 14 days prior to starting operations, the permittee shall submit the following information, at a minimum, to the First Coast Guard District for publication in the Local Notice to Mariners:

Date of submission:

Name, phone number, and email address of project point of contact:

Company Name:

Type of Work:

Waterway and location where work will be done:

Latitude & Longitude of work area (Degrees, Minutes, Thousandths of seconds):

Work Start & Stop dates and Hours of Operation:

Equipment on scene:

Passing Arrangements / Time to move vessels to not impede navigation:

VHF Radio Channel monitored:

Disposal Site (if used):

NOAA Chart Number for the area:

This information must be e-mailed to LNM@uscg.mil or faxed to (617) 223-8291.

(F) The permittee shall notify the National Oceanic and Atmospheric Administration of the project completion and specifications so they may initiate the appropriate chart and Coast Pilot corrections. This notification must be submitted online at: <http://ocsddata.ncd.noaa.gov/idrs.discrepancy.aspx> and include a copy of Department of the Army Permit Number NAN-2017-00735.

(G) The permittee shall ensure that construction vessels and equipment do not interfere with navigation or adjacent facilities.

This determination covers only the work described in the submitted material. Any major changes in the project may require additional authorizations from the New York District.

Care should be taken so that construction materials, including debris, do not enter any waterway to become drift or pollution hazards. You are to contact the appropriate state and local government officials to ensure that the subject work is performed in compliance with their requirements.

Please note that this nationwide permit (NWP) verification is based on a preliminary jurisdictional determination (JD). A preliminary JD is not appealable. If you wish, prior to commencement of the authorized work you may request an approved JD, which may be appealed, by contacting the New York District, U.S. Army Corps of Engineers for further instruction. To assist you in this decision and address any questions you may have on the differences between preliminary and approved jurisdictional determinations, please review U.S. Army Corps of Engineers Regulatory Guidance Letter No. 16-01, which can be found at: http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl_6-01_app1-2.pdf

This verification is valid until March 18, 2022, unless the nationwide permit is modified, reissued, or revoked. This verification will remain valid until March 18, 2022, if the activity complies with the terms of any subsequent modifications of the nationwide permit authorization. If the nationwide permits are suspended, revoked, or modified in such a way that the activity would no longer comply with the terms and conditions of a nationwide permit, and the proposed activity has commenced, or is under contract to commence, the permittee shall have 12 months from the date of such action to complete the activity.

Within 30 days of the completion of the activity authorized by this permit and any mitigation required by this permit, you are to sign and submit the attached compliance certification form to this office.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

If any questions should arise concerning this matter, please contact Brian A. Orzel, of my staff, at (917) 790-8413.

Sincerely,


for Rosita Miranda
Chief, Western Section

Enclosures

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD:

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Mark McLean, Central Hudson, 284 South Ave, Poughkeepsie, NY

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: NY District, Central Hudson, NAN-2017-00912-WNE

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: New York County/parish/borough: Dutchess City: Poughkeepsie

Center coordinates of site (lat/long in degree decimal format):

Lat.: 41.7111 Long.: -73.9403

Universal Transverse Mercator:

Name of nearest waterbody: Hudson River

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: September 14, 2018

Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Hudson River	41.7111	-73.9403	1000 linear feet	non-wetland waters	Section 10/404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: _____
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report. Rationale: _____
- Data sheets prepared by the Corps: _____
- Corps navigable waters' study: _____
- U.S. Geological Survey Hydrologic Atlas: _____
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Poughkeepsie, NY
- Natural Resources Conservation Service Soil Survey. Citation: Dutchess County, NY
- National wetlands inventory map(s). Cite name: Poughkeepsie, NY
- State/local wetland inventory map(s): Poughkeepsie, NY
- FEMA/FIRM maps: _____
- 100-year Floodplain Elevation is: _____ (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): _____
or Other (Name & Date): _____
- Previous determination(s). File no. and date of response letter: _____
- Other information (please specify): _____

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.



Signature and date of
Regulatory staff member
completing PJD

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.



DEPARTMENT OF THE ARMY
 U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
 JACOB K. JAVITS FEDERAL BUILDING
 26 FEDERAL PLAZA
 NEW YORK NY 10278-0090

CENAN-OP-RW

NATIONWIDE PERMIT COMPLIANCE CERTIFICATION AND REPORT FORM

Permittee: Central Hudson Gas and Electric Corporation

Permit No.: NAN-2017-00912

Date Permit Issued: NOV 16 2018

Location: City of Poughkeepsie, Dutchess County, New York

Within 30 days of the **COMPLETION** of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the address at the bottom of this form.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of said permit, and required mitigation was completed in accordance with the permit conditions.

 Signature of Permittee

 Date

Fold this form into thirds, with the bottom third facing outward. Tape it together and mail to the address below **or FAX to (212) 264-4260.**

Place Stamp
 Here

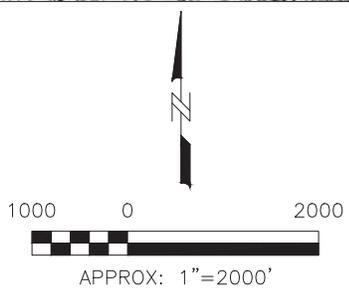
Department of the Army
 New York District Corps of Engineers
 Jacob K. Javits Federal Building
 26 Federal Plaza, Room 1937
 ATTN: CENAN-OP-RW
 New York, New York 10278-0090

File: P:\Jobs\Rem_Eng\Project Files\CHGE\900 CAD\910 CAD\20 SHEETS\PDF\Permitting 2\Permitting Figures.dwg Layout: VICINITY MAP User: erica.hart Plotted: Aug 22, 2018 - 12:04pm Xref's:



AREA WITHIN 1 MILE RADIUS

PROJECT SITE



Map Source: U.S.G.S. 7.5' Quadrangle, Poughkeepsie, NY

For Agency Review Only



CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

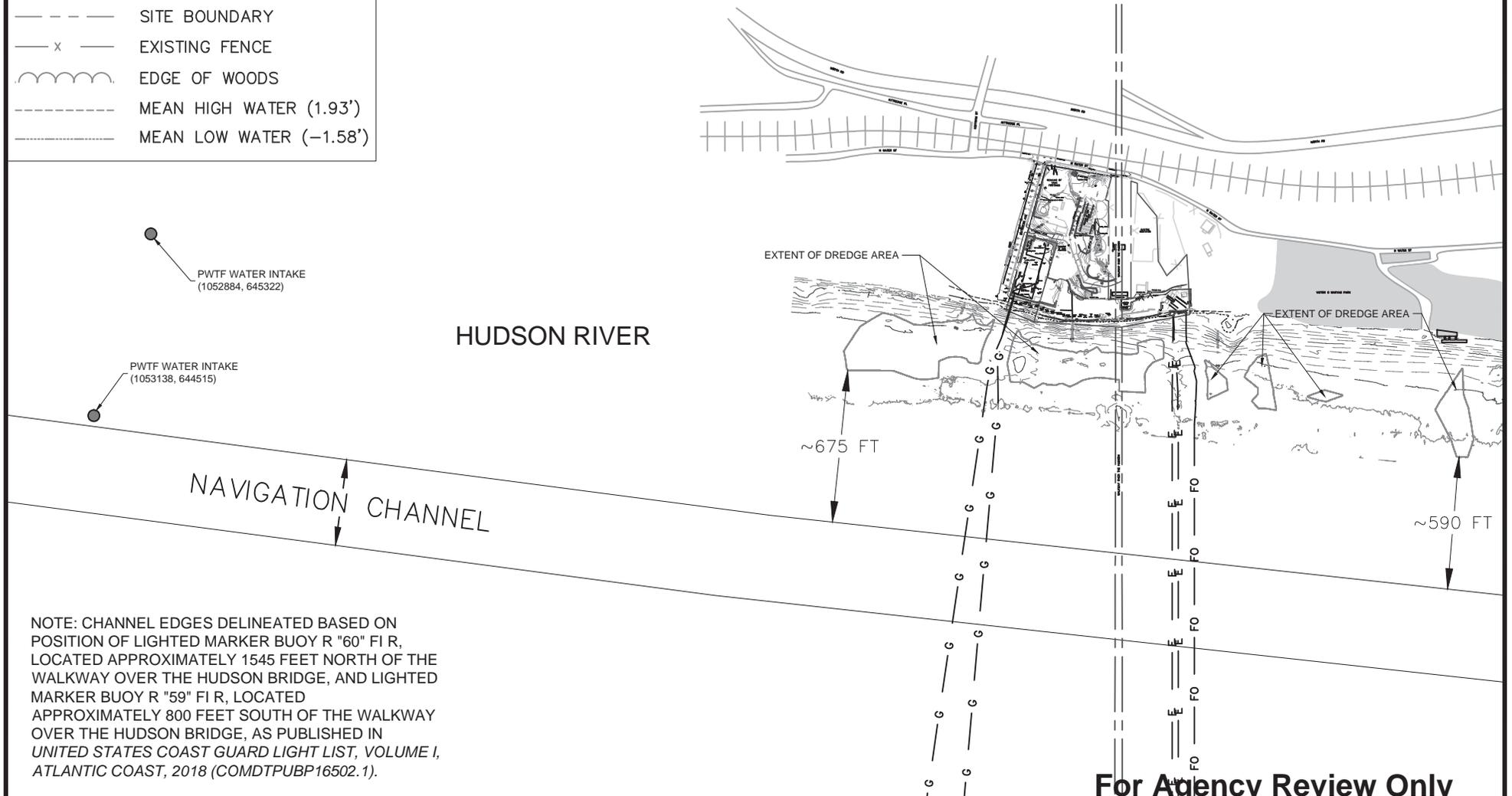
VICINITY MAP
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE

DATE: 8/22/2018

FIGURE 1 OF 11

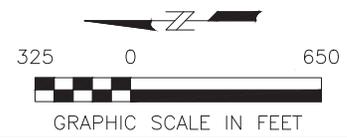
LEGEND

- G — GAS LINE
- E — ELECTRIC LINE
- FO — FIBER OPTIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- - - - - EDGE OF WALKWAY
- - - - - SITE BOUNDARY
- x - EXISTING FENCE
- ⌒ EDGE OF WOODS
- - - - - MEAN HIGH WATER (1.93')
- - - - - MEAN LOW WATER (-1.58')



NOTE: CHANNEL EDGES DELINEATED BASED ON POSITION OF LIGHTED MARKER BUOY R "60" FI R, LOCATED APPROXIMATELY 1545 FEET NORTH OF THE WALKWAY OVER THE HUDSON BRIDGE, AND LIGHTED MARKER BUOY R "59" FI R, LOCATED APPROXIMATELY 800 FEET SOUTH OF THE WALKWAY OVER THE HUDSON BRIDGE, AS PUBLISHED IN UNITED STATES COAST GUARD LIGHT LIST, VOLUME I, ATLANTIC COAST, 2018 (COMDTPUBP16502.1).

For Agency Review Only



CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

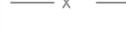
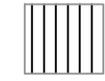
DATE: 8/22/2018

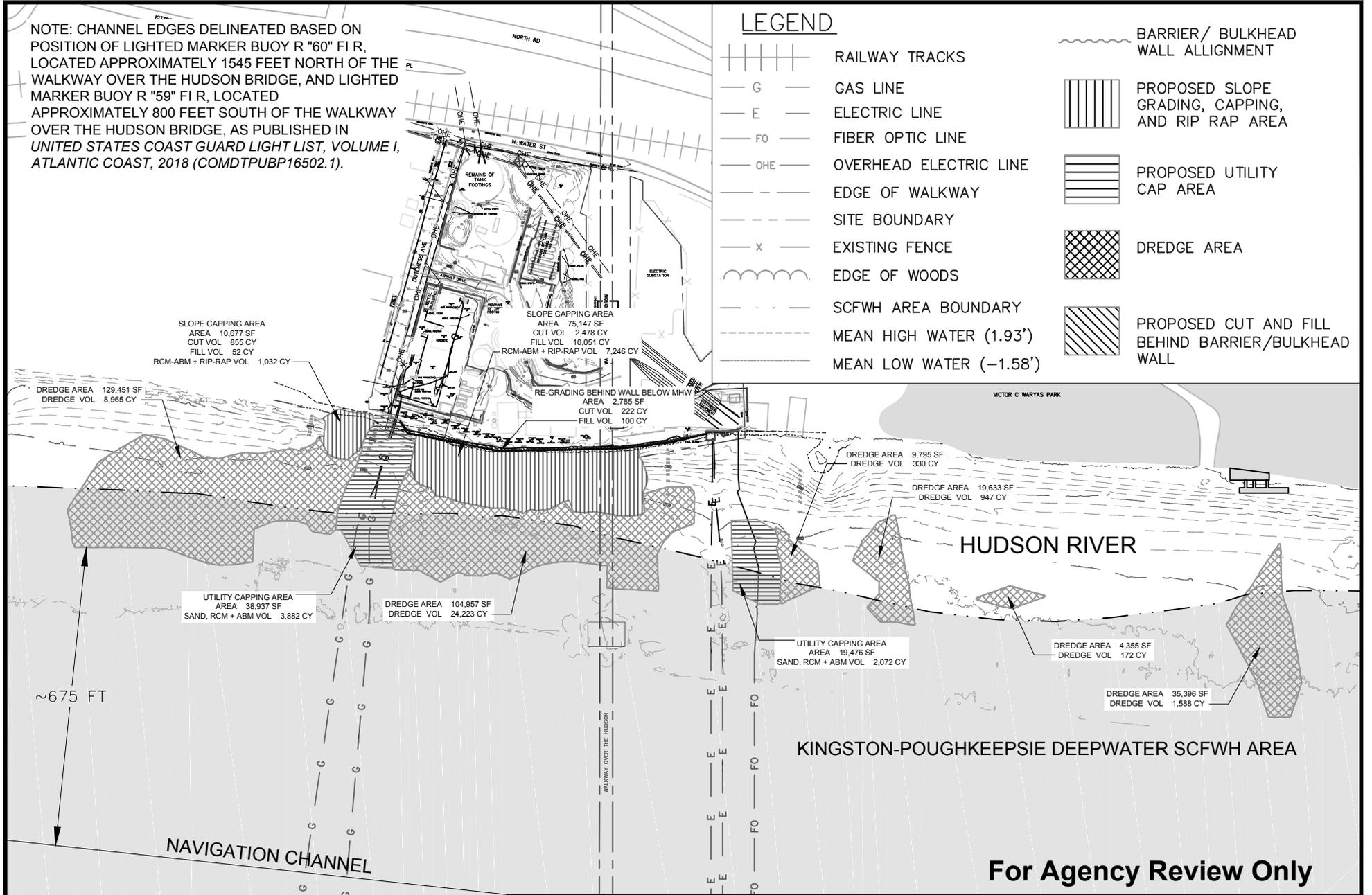
CURRENT SITE LAYOUT AND
KNOWN UTILITIES
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY

FIGURE 2 OF 11

NOTE: CHANNEL EDGES DELINEATED BASED ON POSITION OF LIGHTED MARKER BUOY R "60" FI R, LOCATED APPROXIMATELY 1545 FEET NORTH OF THE WALKWAY OVER THE HUDSON BRIDGE, AND LIGHTED MARKER BUOY R "59" FI R, LOCATED APPROXIMATELY 800 FEET SOUTH OF THE WALKWAY OVER THE HUDSON BRIDGE, AS PUBLISHED IN UNITED STATES COAST GUARD LIGHT LIST, VOLUME I, ATLANTIC COAST, 2018 (COMDTPUBP16502.1).

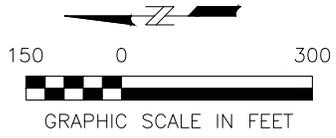
LEGEND

-  RAILWAY TRACKS
-  GAS LINE
-  ELECTRIC LINE
-  FIBER OPTIC LINE
-  OVERHEAD ELECTRIC LINE
-  EDGE OF WALKWAY
-  SITE BOUNDARY
-  EXISTING FENCE
-  EDGE OF WOODS
-  SCFWH AREA BOUNDARY
-  MEAN HIGH WATER (1.93')
-  MEAN LOW WATER (-1.58')
-  BARRIER/ BULKHEAD WALL ALIGNMENT
-  PROPOSED SLOPE GRADING, CAPPING, AND RIP RAP AREA
-  PROPOSED UTILITY CAP AREA
-  DREDGE AREA
-  PROPOSED CUT AND FILL BEHIND BARRIER/BULKHEAD WALL



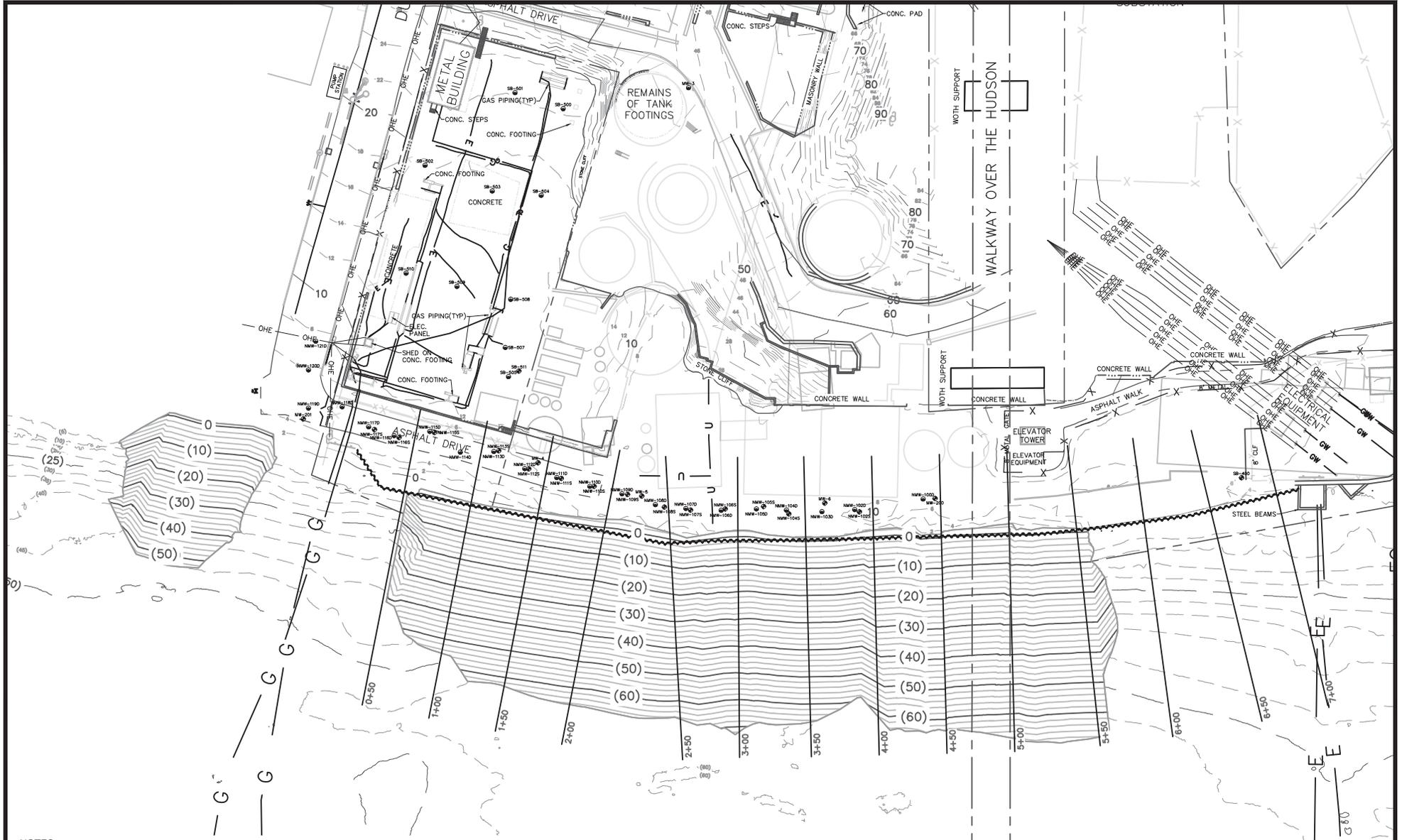
KINGSTON-POUGHKEEPSIE DEEPWATER SCFWH AREA

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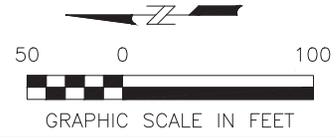


CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY
DATE: 9/10/2018

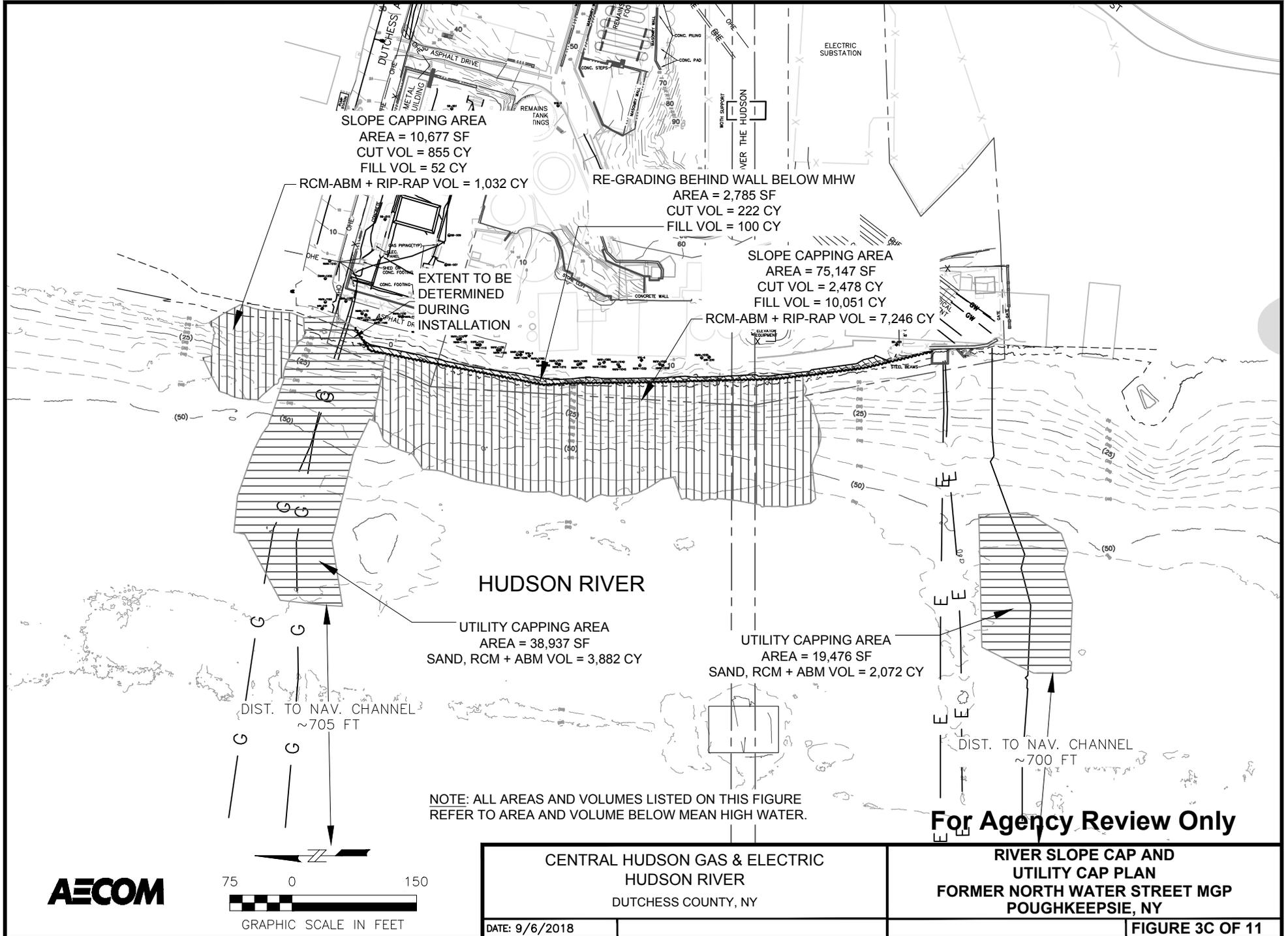
REMEDIAL ACTIVITIES PLAN
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY
FIGURE 3A OF 11



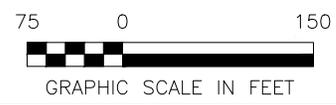
- NOTES:
1. CROSS SECTIONS LOCATED ON FIGURE 9A-9D.
 2. TURBIDITY CURTAINS AND REMOTE MONITORING TURBIDITY MONITORS WILL BE INSTALLED.
 3. VISUALLY CLEAN SEDIMENTS SHALL BE REUSED AS FILL AT BOTTOM OF SLOPE AS NEEDED.
 4. VISUALLY IMPACTED SEDIMENTS AND DEBRIS WILL BE TRANSPORTED OFFSITE FOR DISPOSAL.



CENTRAL HUDSON GAS & ELECTRIC HUDSON RIVER DUTCHESS COUNTY, NY	For Agency Review Only BARRIER/BULKHEAD WALL AND RIVER SLOPE GRADING PLAN FORMER NORTH WATER STREET MGP POUGHKEEPSIE, NY
DATE: 8/22/2018	FIGURE 3B OF 11



For Agency Review Only

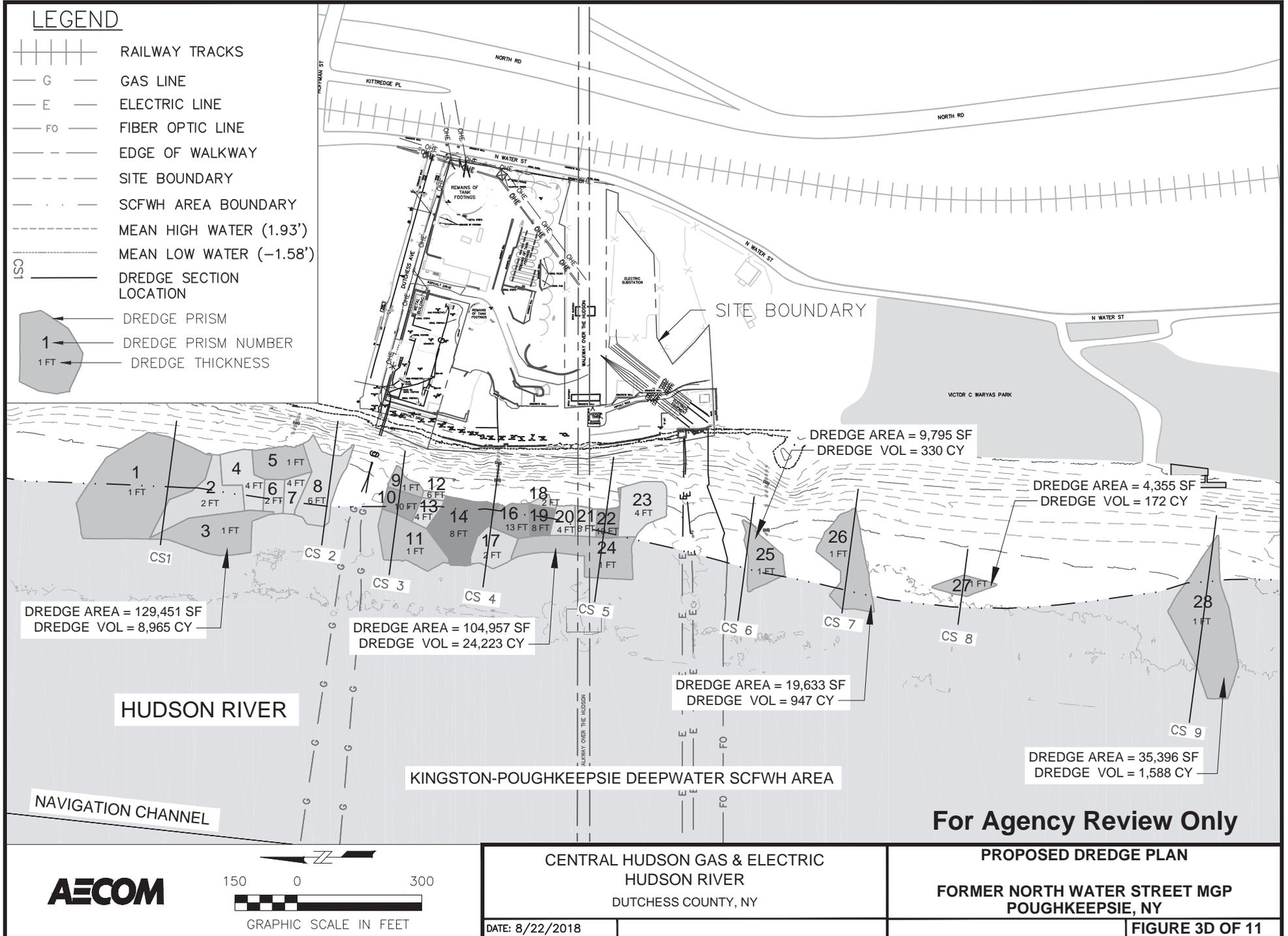


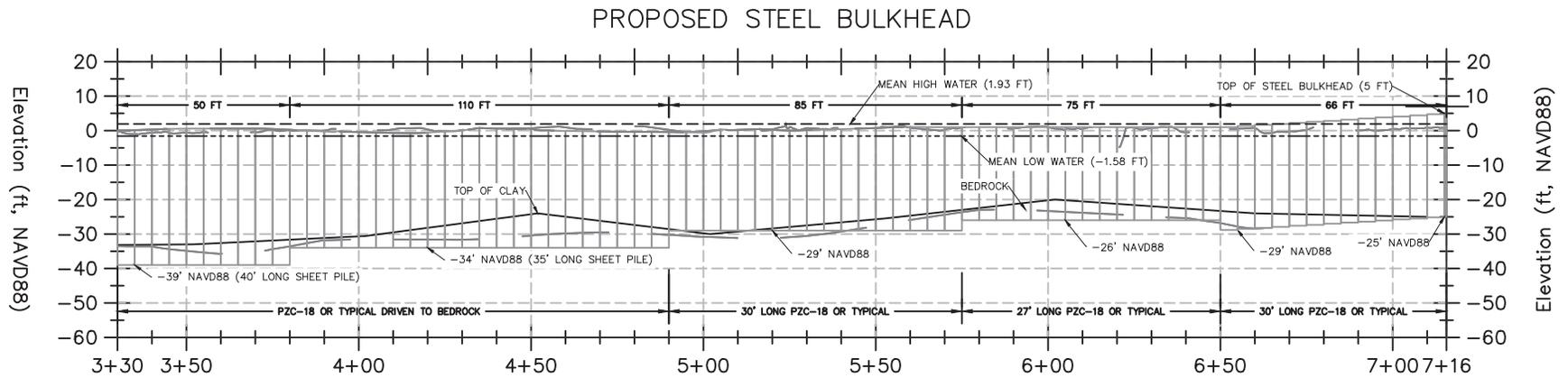
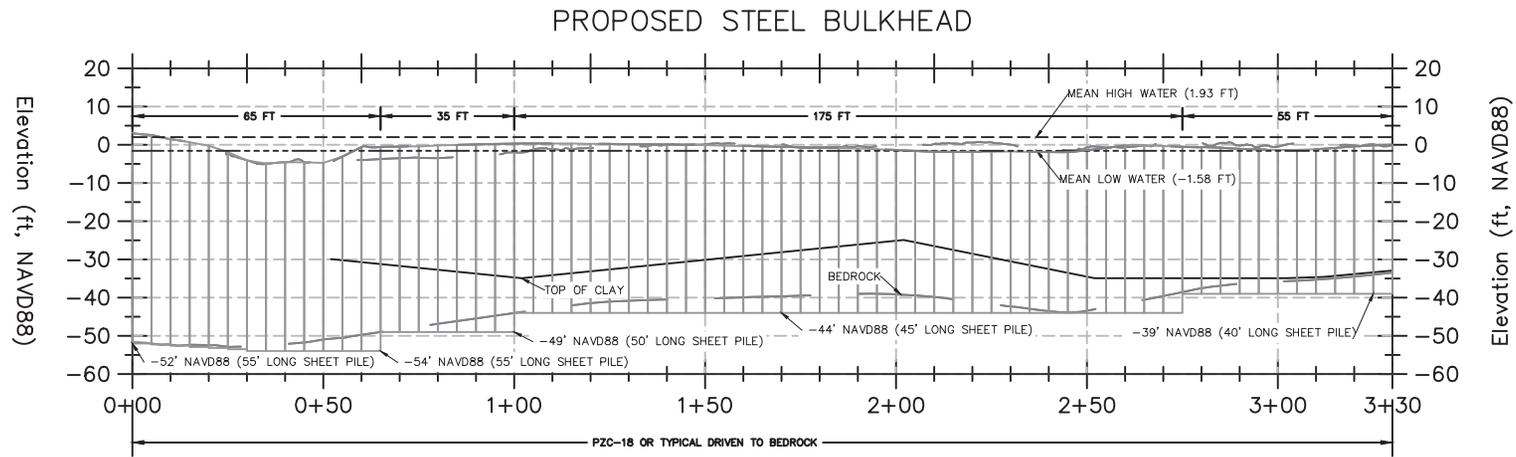
CENTRAL HUDSON GAS & ELECTRIC
 HUDSON RIVER
 DUTCHESS COUNTY, NY

DATE: 9/6/2018

RIVER SLOPE CAP AND
 UTILITY CAP PLAN
 FORMER NORTH WATER STREET MGP
 POUGHKEEPSIE, NY

FIGURE 3C OF 11





For Agency Review Only



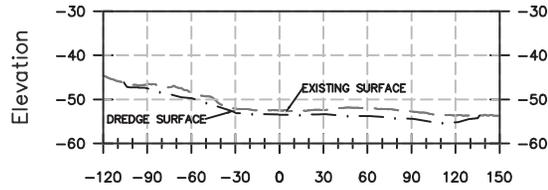
CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

**BARRIER/BULKHEAD WALL
PROFILE VIEW
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY**

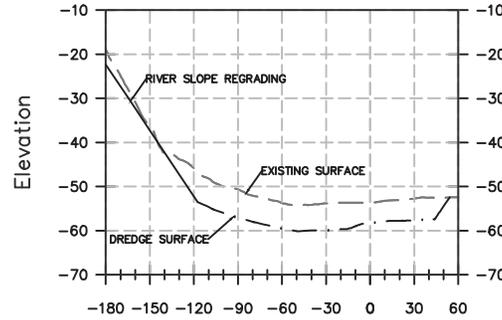
DATE: 8/22/2018

FIGURE 4 OF 11

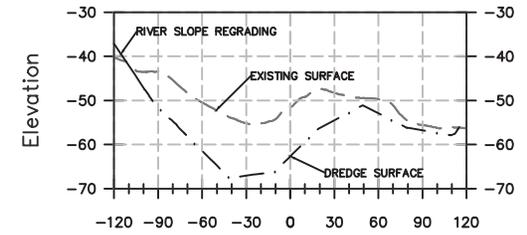
DREDGE SECTION CS1



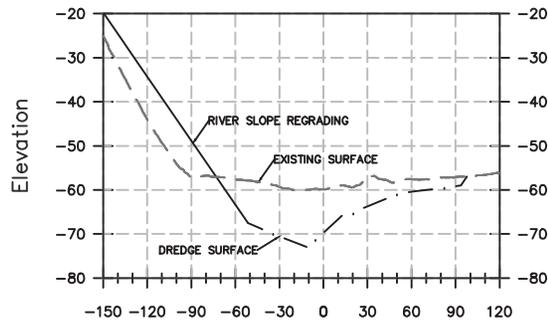
DREDGE SECTION CS2



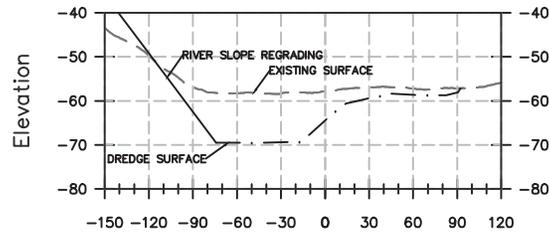
DREDGE SECTION CS3



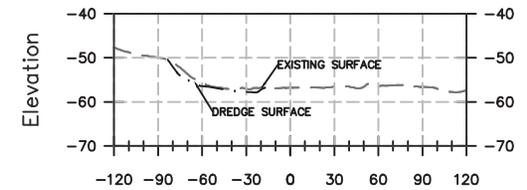
DREDGE SECTION CS4



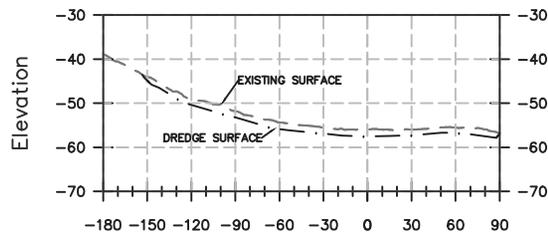
DREDGE SECTION CS5



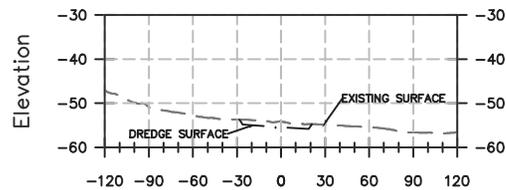
DREDGE SECTION CS6



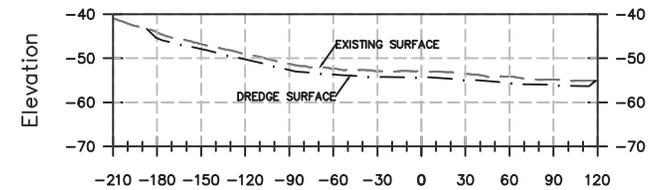
DREDGE SECTION CS7



DREDGE SECTION CS8



DREDGE SECTION CS9



NOTE: HORIZONTAL TO VERTICAL SCALE = 3.0



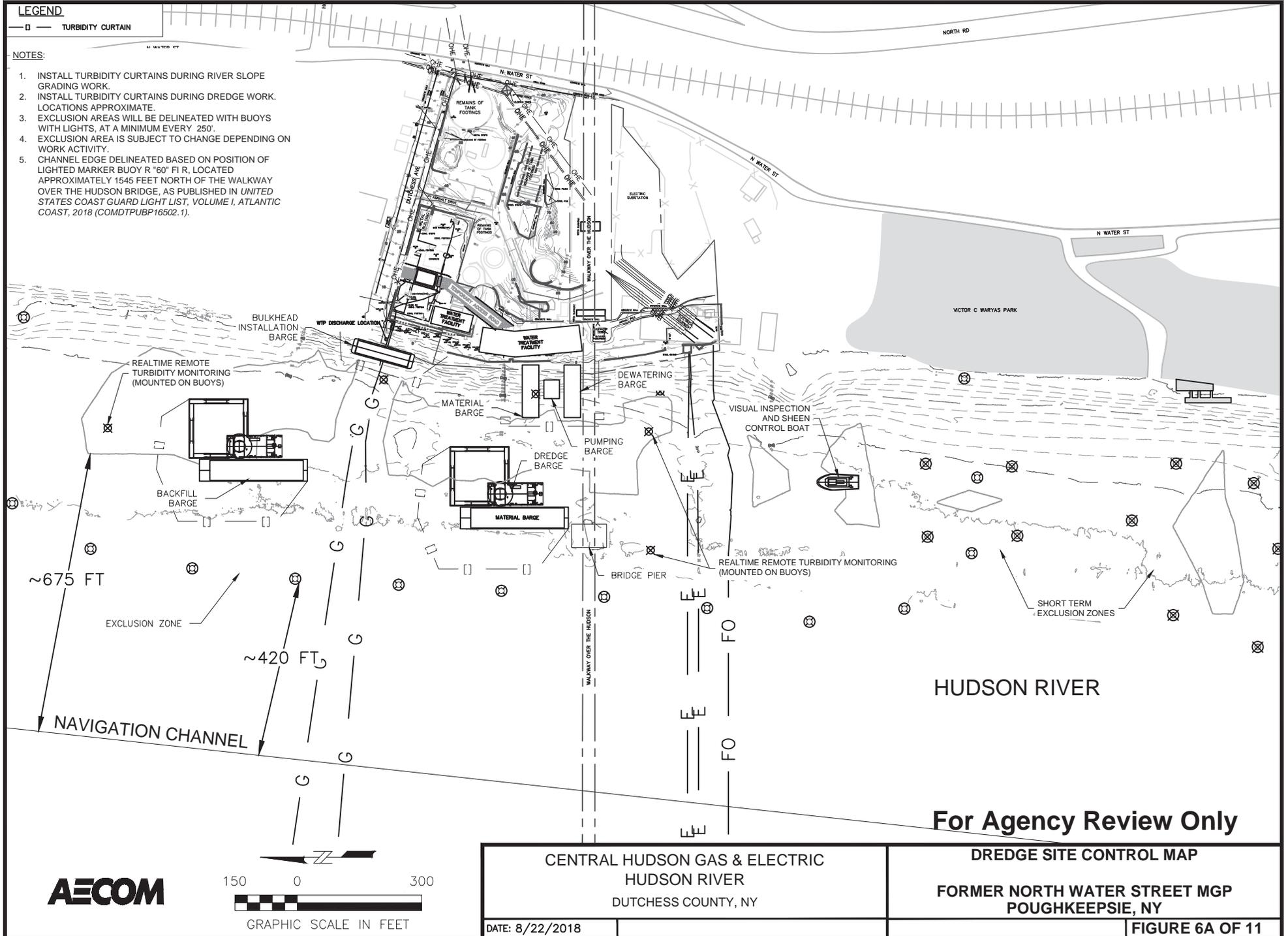
CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

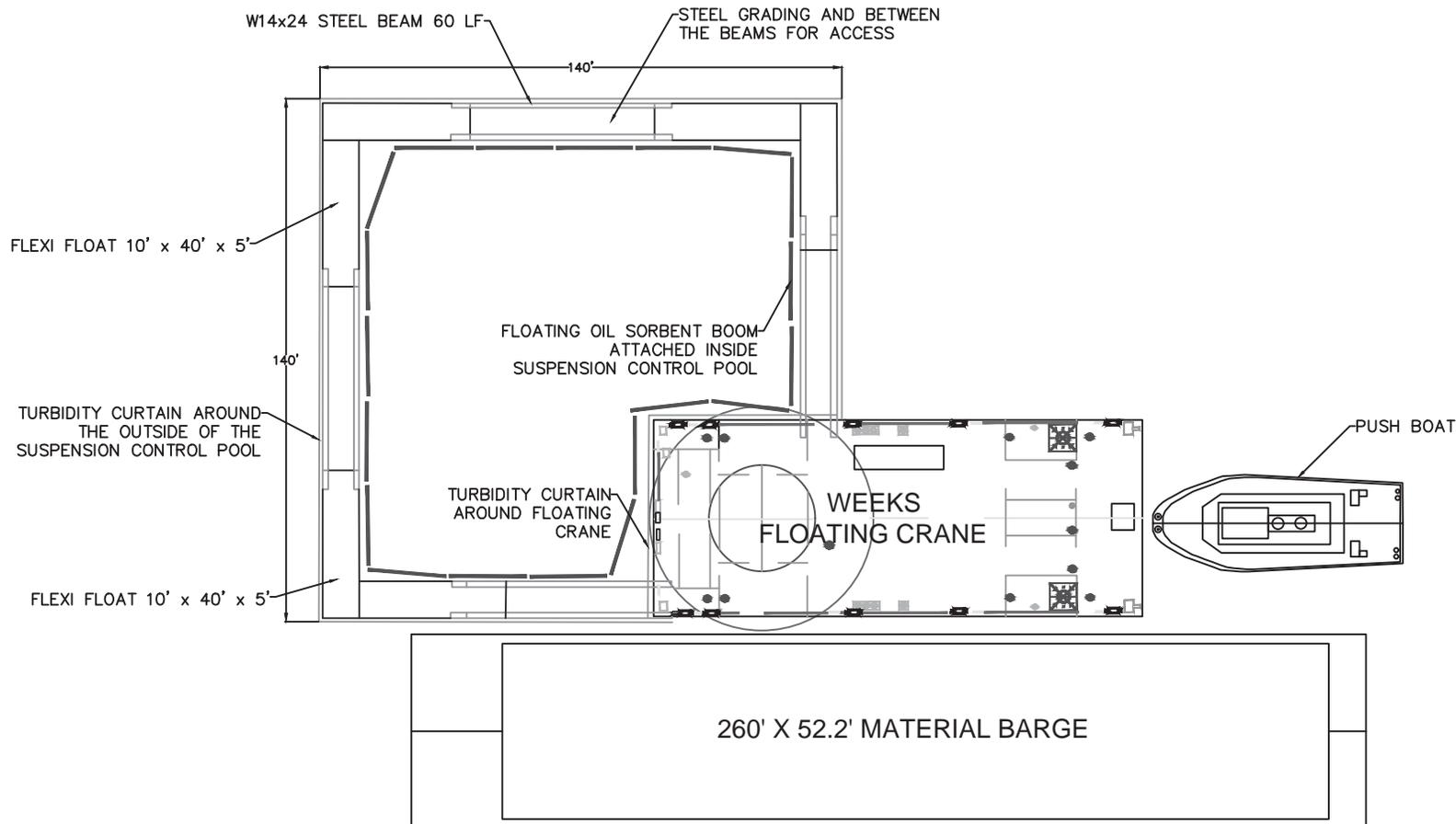
DATE: 8/22/2018

For Agency Review Only

PROPOSED DREDGE PLAN
CROSS SECTIONS
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY

FIGURE 5 OF 11





MOBILE SUSPENSION CONTROL SYSTEM SETUP OVERVIEW

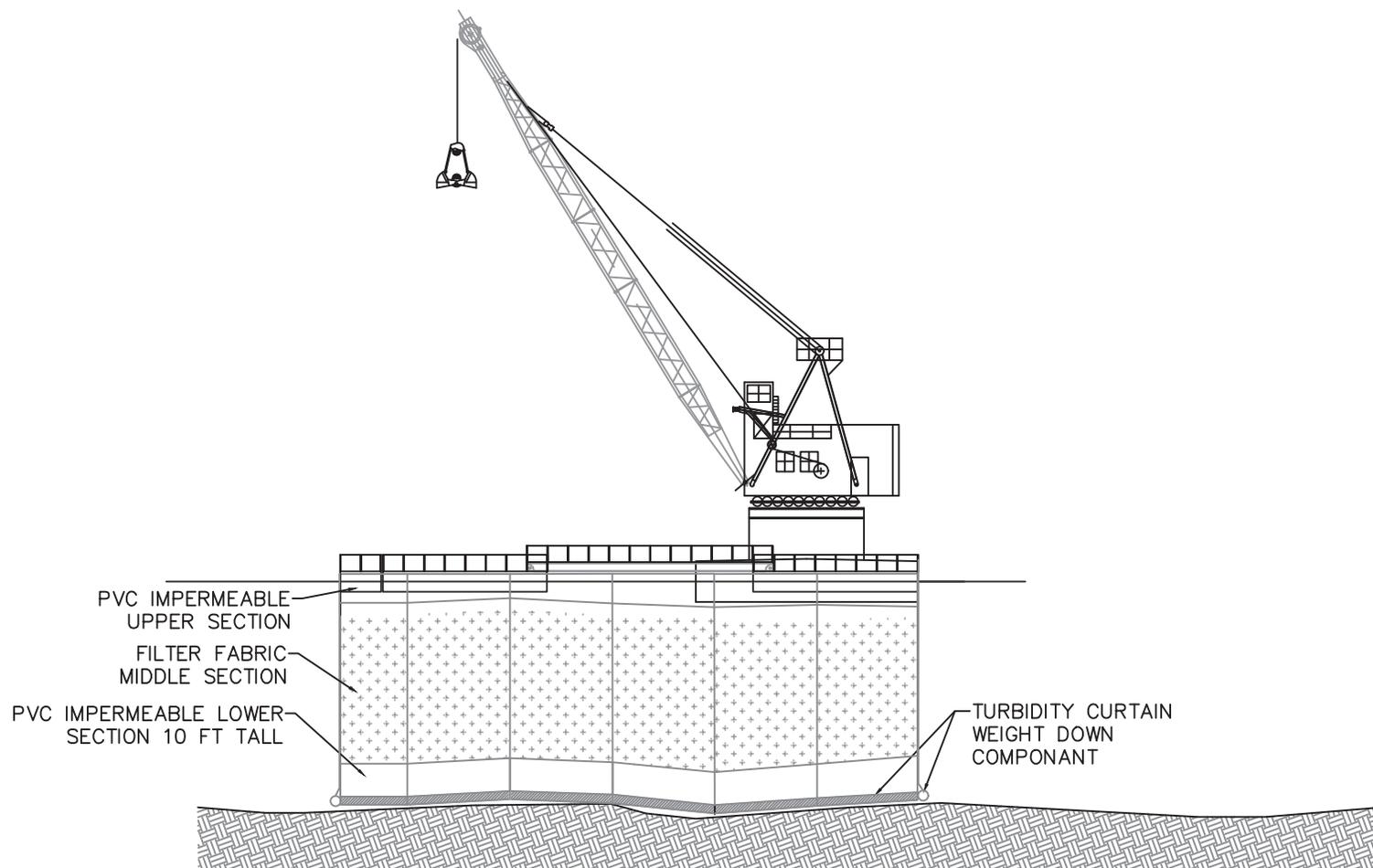
NOTES:

- 1) FIGURES NOT DRAWN TO SCALE. THESE ARE CONCEPTUAL DRAWINGS.
- 2) EXACT DIMENSIONS MAY CHANGE BASED ON FIELD CONDITIONS.



For Agency Review Only

CENTRAL HUDSON GAS & ELECTRIC HUDSON RIVER DUTCHESS COUNTY, NY	ENGINEERING CONTROLS PLAN VIEW FORMER NORTH WATER STREET MGP POUGHKEEPSIE, NY
DATE: 8/22/2018	FIGURE 6B OF 11



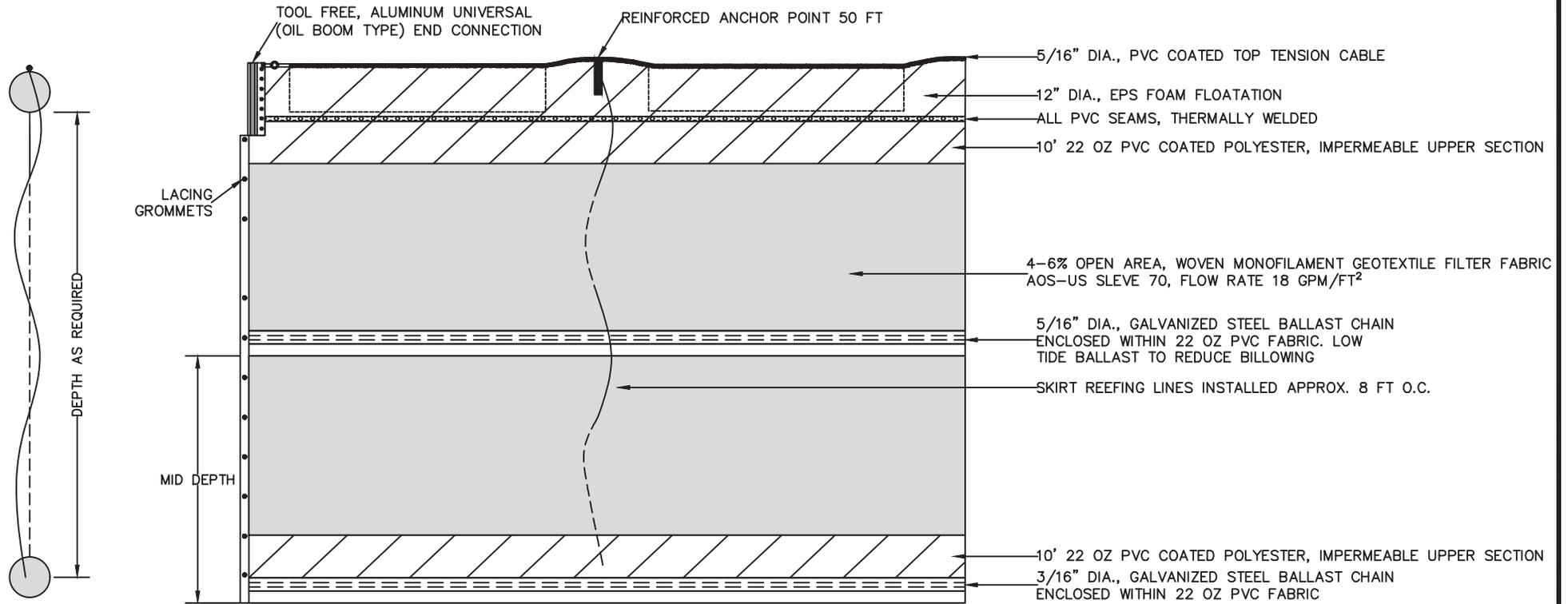
MOBILE SUSPENSION CONTROL SYSTEM SETUP
FRONT VIEW

NOTE: FIGURES NOT DRAWN TO SCALE. THESE ARE CONCEPTUAL DRAWINGS.



For Agency Review Only

CENTRAL HUDSON GAS & ELECTRIC HUDSON RIVER DUTCHESS COUNTY, NY	ENGINEERING CONTROLS SIDE VIEW FORMER NORTH WATER STREET MGP POUGHKEEPSIE, NY
DATE: 8/22/2018	FIGURE 6C OF 11



TURBIDITY BARRIER DETAIL

NOTE: FIGURES NOT DRAWN TO SCALE. THESE ARE CONCEPTUAL DRAWINGS.

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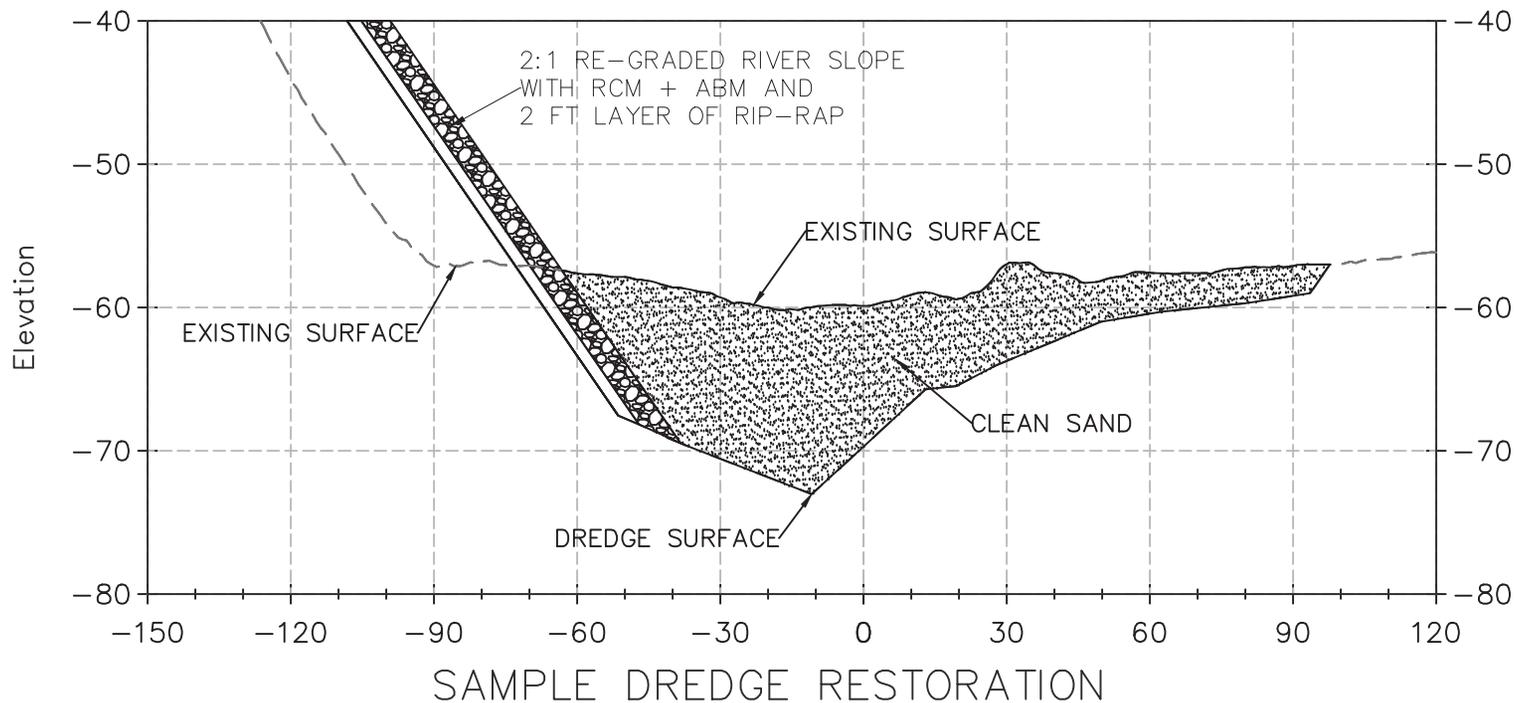


CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

ENGINEERING CONTROLS
DETAIL
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY

DATE: 8/22/2018

FIGURE 6D OF 11



NOTE: HORIZONTAL TO VERTICAL SCALE = 3.0



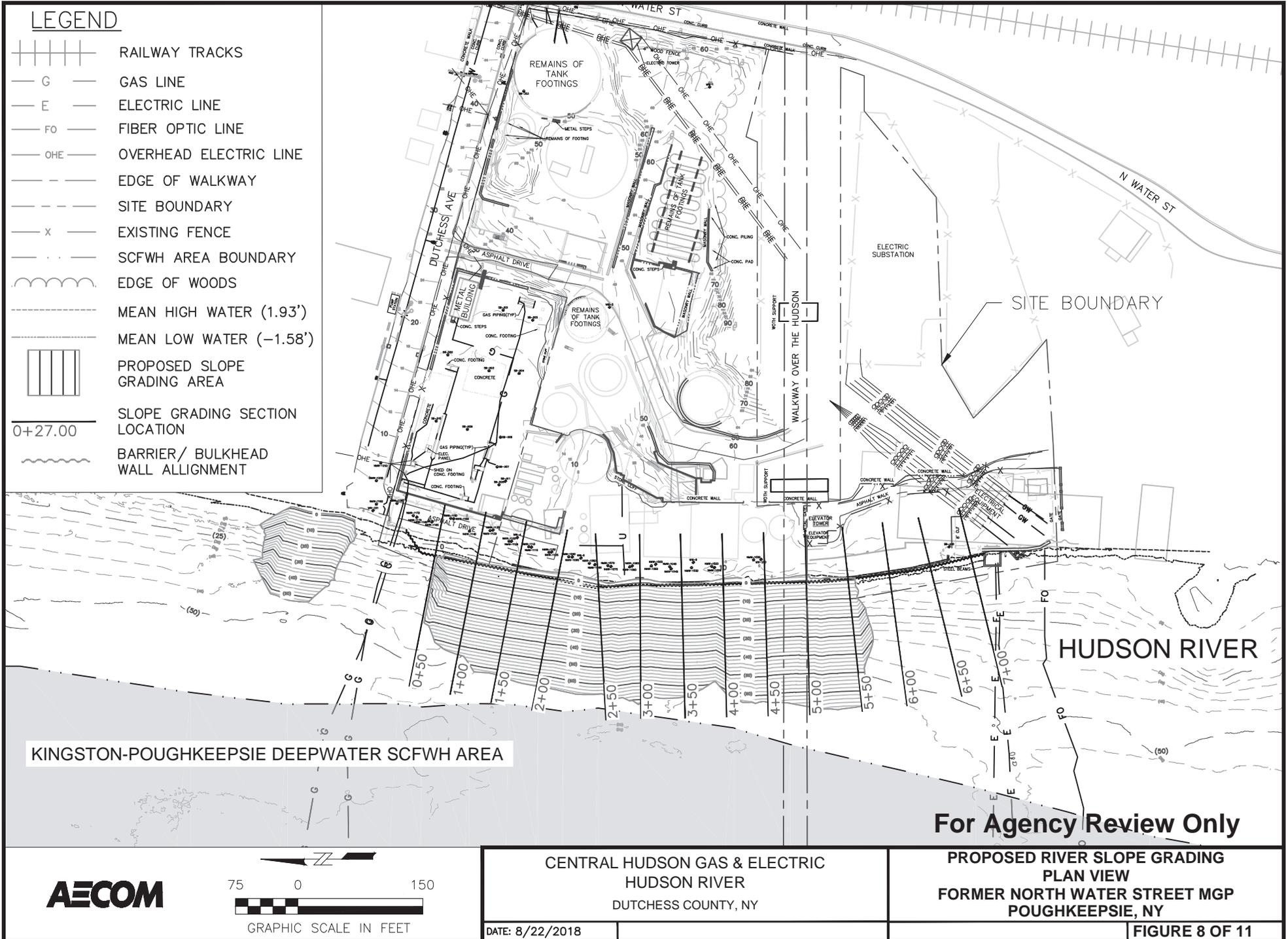
CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

DATE: 8/22/2018

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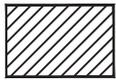
DREDGE AREA RESTORATION PLAN
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY

FIGURE 7 OF 11



LEGEND

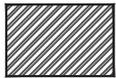
----- MEAN HIGH WATER (1.93')
 ----- MEAN HIGH WATER (1.93')
 ----- MEAN LOW WATER (-1.58')



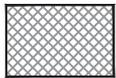
CLAY



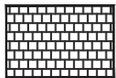
BEDROCK



CUT



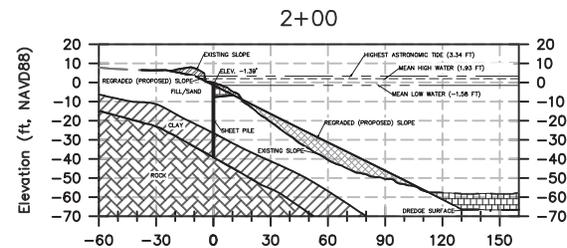
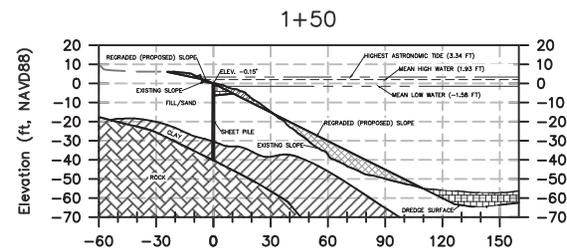
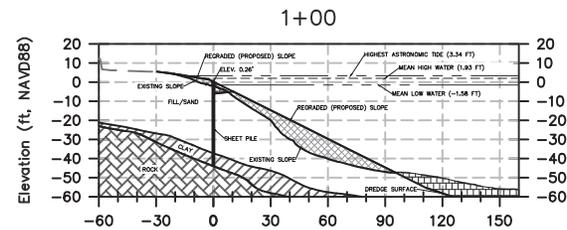
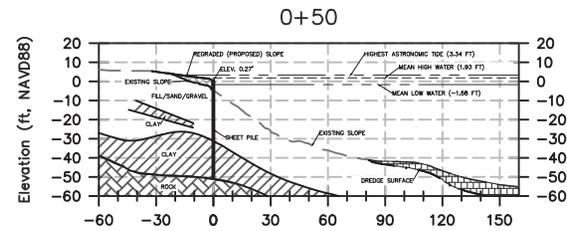
FILL



CUT AND BACKFILL

NOTES:

1. REGRADE SLOPE IS 2H:1V THROUGHOUT.
2. DEBRIS FROM THE SLOPE WILL BE REMOVED AND SENT OFFSITE FOR DISPOSAL.
3. VISUALLY CLEAN FILL REMOVED DURING GRADING WILL BE REUSED AS BACKFILL DURING REGRADING FILL ACTIVITIES.
4. TOP OF WALL WILL BE CUT TO MEAN LOW TIDE ELEVATION TO THE EXTENT POSSIBLE AND/OR COVERED WITH RIP-RAP.



For Agency Review Only

CENTRAL HUDSON GAS & ELECTRIC
 HUDSON RIVER
 DUTCHESS COUNTY, NY

**BARRIER/BULKHEAD WALL AND
 RIVER SLOPE CROSS SECTIONS
 FORMER NORTH WATER STREET MGP
 POUGHKEEPSIE, NY**

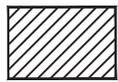
AECOM

DATE: 8/22/2018

FIGURE 9A OF 11

LEGEND

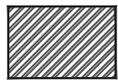
----- MEAN HIGH WATER (1.93')
 ----- MEAN HIGH WATER (1.93')
 ----- MEAN LOW WATER (-1.58')



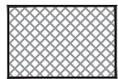
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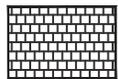
BEDROCK



CUT



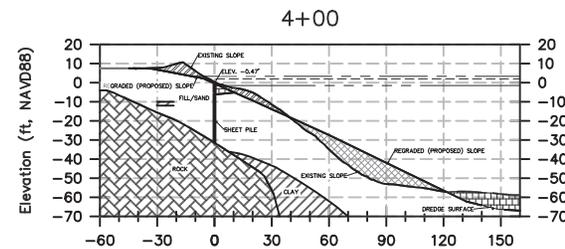
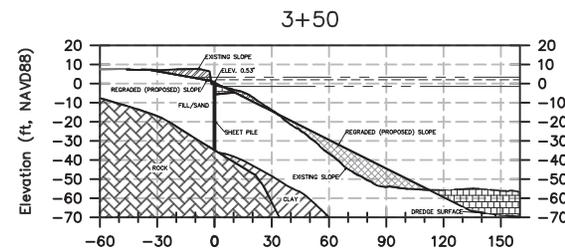
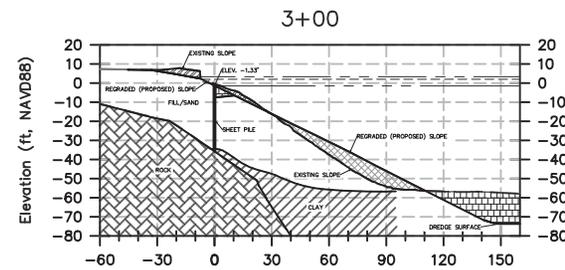
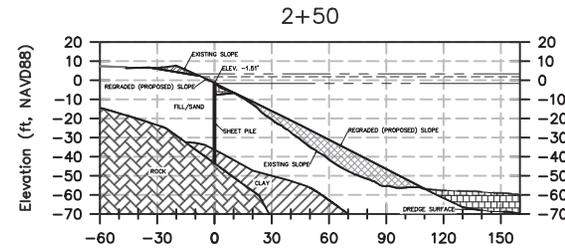
FILL



CUT AND BACKFILL

NOTES:

1. REGRADE SLOPE IS 2H:1V THROUGHOUT.
2. DEBRIS FROM THE SLOPE WILL BE REMOVED AND SENT OFFSITE FOR DISPOSAL.
3. VISUALLY CLEAN FILL REMOVED DURING GRADING WILL BE REUSED AS BACKFILL DURING REGRADING FILL ACTIVITIES.
4. TOP OF WALL WILL BE CUT TO MEAN LOW TIDE ELEVATION TO THE EXTENT POSSIBLE AND/OR COVERED WITH RIP-RAP.



For Agency Review Only

AECOM

CENTRAL HUDSON GAS & ELECTRIC
 HUDSON RIVER
 DUTCHESS COUNTY, NY

**BARRIER/BULKHEAD WALL AND
 RIVER SLOPE CROSS SECTIONS
 FORMER NORTH WATER STREET MGP
 POUGHKEEPSIE, NY**

DATE: 8/22/2018

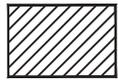
FIGURE 9B OF 11

LEGEND

----- MEAN HIGH WATER (1.93')

----- MEAN HIGH WATER (1.93')

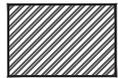
----- MEAN LOW WATER (-1.58')



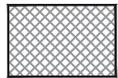
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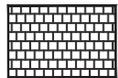
BEDROCK



CUT



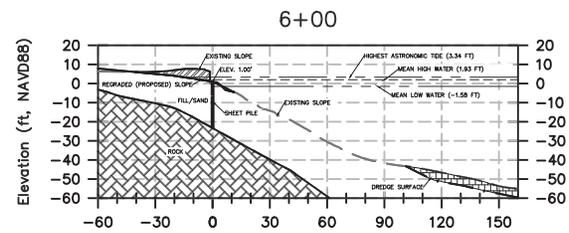
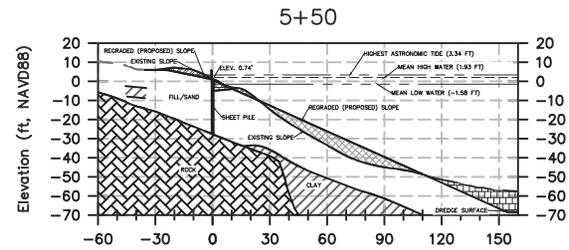
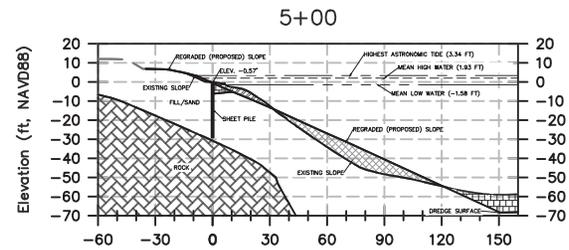
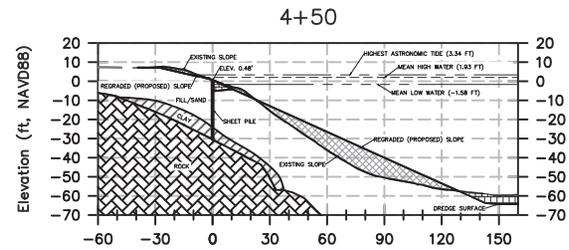
FILL



CUT AND BACKFILL

NOTES:

1. REGRADE SLOPE IS 2H:1V THROUGHOUT.
2. DEBRIS FROM THE SLOPE WILL BE REMOVED AND SENT OFFSITE FOR DISPOSAL.
3. VISUALLY CLEAN FILL REMOVED DURING GRADING WILL BE REUSED AS BACKFILL DURING REGRADING FILL ACTIVITIES.
4. TOP OF WALL WILL BE CUT TO MEAN LOW TIDE ELEVATION TO THE EXTENT POSSIBLE AND/OR COVERED WITH RIP-RAP.



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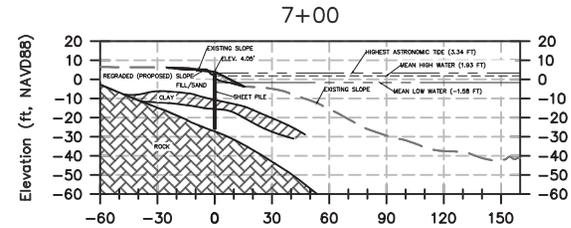
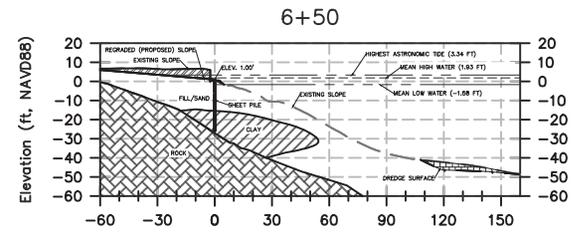
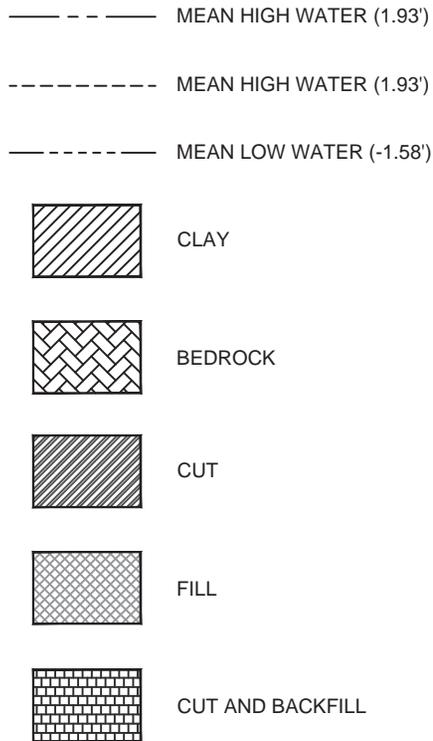
CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

**BARRIER/BULKHEAD WALL AND
RIVER SLOPE CROSS SECTIONS
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY**

DATE: 8/22/2018

FIGURE 9C OF 11

LEGEND



NOTES:

1. REGRADE SLOPE IS 2H:1V THROUGHOUT.
2. DEBRIS FROM THE SLOPE WILL BE REMOVED AND SENT OFFSITE FOR DISPOSAL.
3. VISUALLY CLEAN FILL REMOVED DURING GRADING WILL BE REUSED AS BACKFILL DURING REGRADE FILL ACTIVITIES.
4. TOP OF WALL WILL BE CUT TO MEAN LOW TIDE ELEVATION TO THE EXTENT POSSIBLE AND/OR COVERED WITH RIP-RAP.



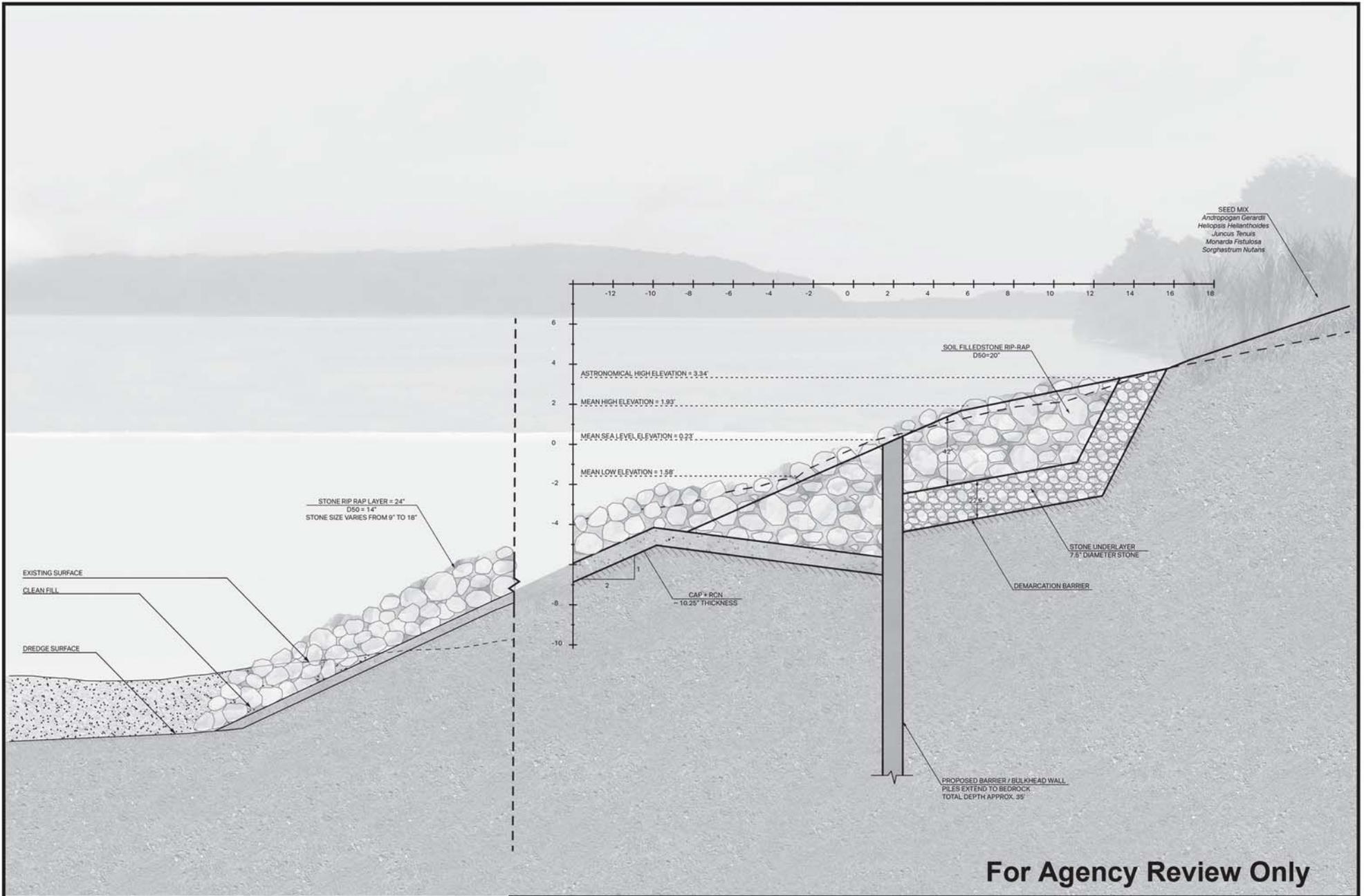
CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

DATE: 8/22/2018

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**BARRIER/BULKHEAD WALL AND
RIVER SLOPE CROSS SECTIONS
FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY**

FIGURE 9D OF 11



For Agency Review Only

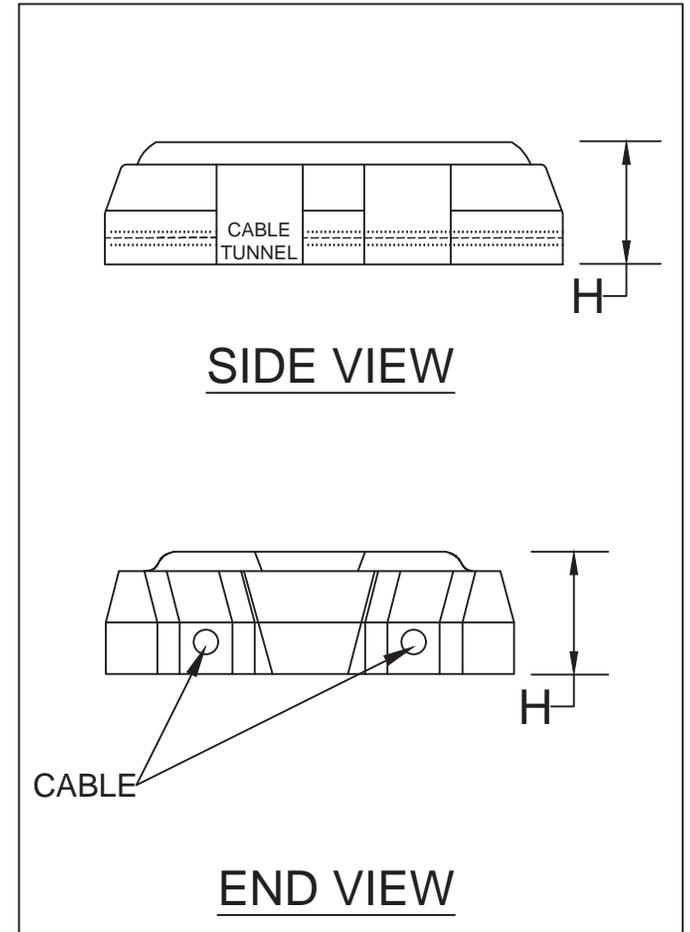
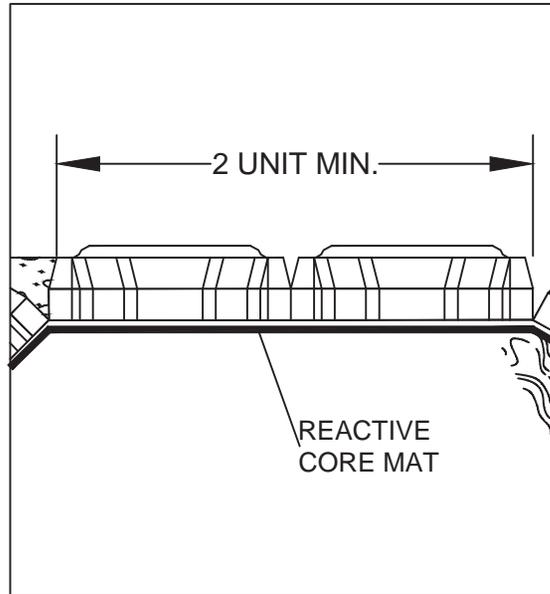
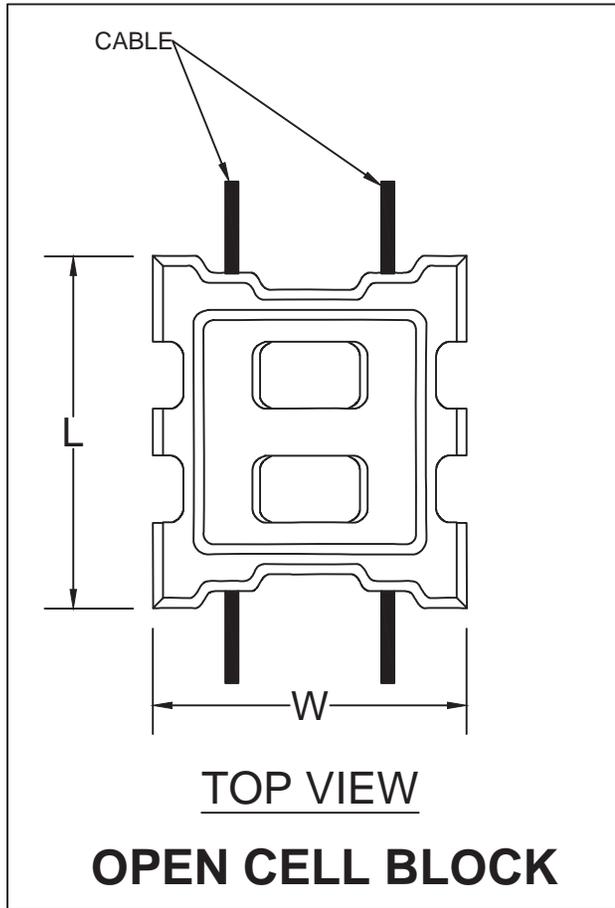
AECOM

CENTRAL HUDSON GAS & ELECTRIC
 HUDSON RIVER
 DUTCHESS COUNTY, NY

DETAILS FOR SIDE SLOPE CAP
 FORMER NORTH WATER STREET MGP
 POUGHKEEPSIE, NY

DATE: 8/22/18

FIGURE 10 OF 11



CENTRAL HUDSON GAS & ELECTRIC
HUDSON RIVER
DUTCHESS COUNTY, NY

DATE: 8/22/2018

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RIVER SLOPE AND UTILITY CAP DETAILS

FORMER NORTH WATER STREET MGP
POUGHKEEPSIE, NY

FIGURE 11 OF 11