



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:
Public Notice Number: NAN-2017-01277-WCA
Issue Date: December 6, 2017
Expiration Date: January 4, 2018

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), and Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Transcontinental Gas Pipe Line Company, LLC
2800 Post Oak Boulevard
Houston, Texas 77056

ACTIVITY: Discharge fill material into 1.33 acres of waters of the United States to facilitate the expansion of an existing natural gas transmission heater facility.

WATERWAY: Bellman's Creek (Hackensack River Watershed)

LOCATION: Borough of Ridgefield, Bergen County, New Jersey.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

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Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various life stages of some EFH-designated species as a result of a temporary increase in turbidity during construction. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occurs. For activities within the coastal zone of New Jersey State, the applicant's certification and accompanying information is available from

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the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained the following governmental authorization for the activity under consideration:

- (New Jersey Department of Environmental Protection Flood Hazard and Waterfront Development Permit)

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8412 and ask for Jim Cannon.

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>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.



For: Stephan A. Ryba
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicant, the Transcontinental Gas Pipeline Company, LLC (Transco), has requested Department of the Army authorization to discharge fill material into waters of the United States to facilitate the expansion of an existing natural gas transmission heating facility. The project site is located within the Hackensack River watershed, in the Borough of Ridgefield, Bergen County, New Jersey.

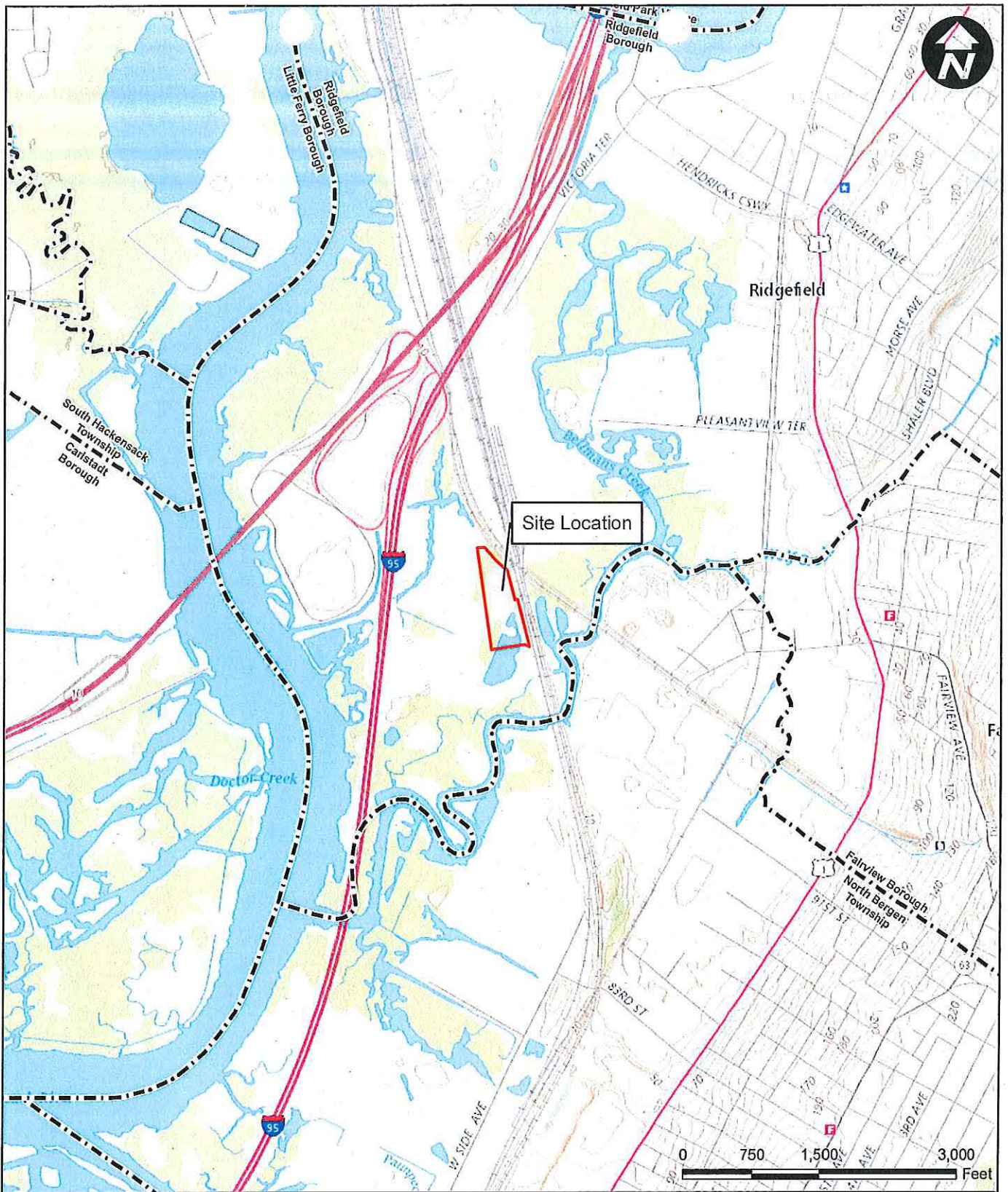
The proposed regulated activities would include the discharge of approximately 7,300 cubic yards of fill material into 1.33 acres of wetlands to facilitate the expansion of an existing natural gas transmission heating facility. Proposed heater facility expansion activities would include the removal of two existing heater units and the installation of two gravel pads, one located on the north side of the existing heater facility occupying approximately 0.21 acres, and the other located on the south side of the existing heater facility occupying approximately 1.12 acres. On the proposed southern gravel pad, the applicant proposes to construct a 70 foot long by 64 foot wide concrete pad and three new heater units. The three new heater units would be connected to the existing heater units by a 24-inch electrical conduit approximately 511 linear feet long, and a 36-inch electrical conduit approximately 486 linear feet long.

Additional construction activities would include the construction and installation of a 16 foot long by 12 foot wide odorization building, a 28 foot long by 19 foot wide generator building, and a 26 foot long by a 20 foot wide control building. The proposed heating facility expansion site would be regraded to an elevation to match the grade at the existing facility (approximately 6-foot in elevation).

The applicant has stated that the project site is situated along an existing natural gas transmission corridor, and the heating units would be used to heat natural gas to facilitate efficient flow of the gas through the transmission pipeline. The applicant has additionally stated that they have avoided and minimized impacts to aquatic resources by improving and expanding equipment at the existing Heater facility utilizing available uplands to minimize new fill required to achieve natural gas supply reliability, equipment resiliency, operational safety, and security objectives.

To compensate for the permanent impacts to 1.33 acres of waters of the United States, the applicant proposes to dedicate 3.99 mitigation credits at the federally approved Marsh Resources, Inc., MRI 1 and 2 wetland mitigation bank located in the Borough of Carlstadt, Bergen County, New Jersey.

The applicant has stated that the purpose of the project is to address the Con Edison gas transmission capacity issues in the New York Metropolitan region by providing greater reliability and resiliency.



Legend

Site Location

Municipal Boundary

Source:
NJGIS, Government Boundaries, 2017
USGS, US Topo, The National Map
Weehawken Quad 2016

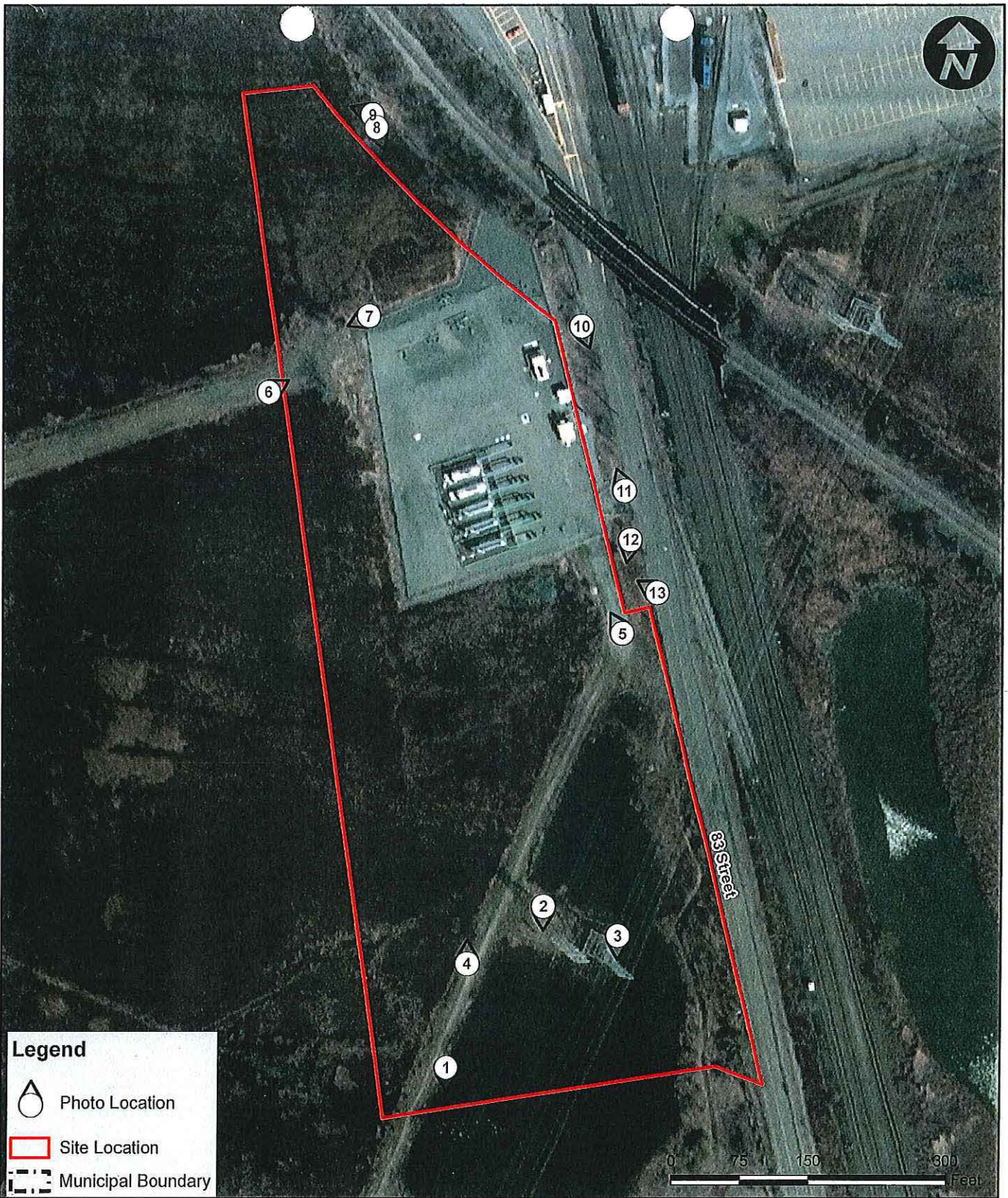
STATE PLANE COORDINATES
X 624192 Ft.
Y 724692 Ft.

LATITUDE 40° 49' 19.02"
LONGITUDE -74° 01' 22.04"

PSS&S
67A MOUNTAIN BOULEVARD EXT.
P.O. BOX 4039
WARREN, NEW JERSEY 07059
PHONE: (732) 560-9700

Williams **USGS SITE LOCATION MAP**
Meadows Phase II Expansion Project
83rd Street, Block 4006 Lot 3
Borough of Ridgefield, Bergen County, New Jersey


Drawn By: AG	Scale: 1" = 1,500'	Project No.05731.0007
Chk'd By: KB	Date: 7/5/2017	



Legend

 Photo Location

 Site Location

 Municipal Boundary



67A MOUNTAIN BOULEVARD EXT.
P.O. BOX 4039
WARREN, NEW JERSEY 07059
PHONE: (732) 560-9700



PHOTO LOCATION MAP
Meadows Phase II Expansion Project
83rd Street, Block 4006 Lot 3
Borough of Ridgefield, Bergen County, New Jersey

Source:
NJOGIS, Government Boundaries, 2017
Esri, StreetMap USA, 2012
NJDEP, Aerial Imagery, 2015

Drawn By: AG

Scale: 1" = 150'

Project No. 05731.0007

Chk'd By: KB

Date: 6/30/2017



WETLAND FILL
= 0.21 ACRES

EXISTING FENCE TO
BE REMOVED

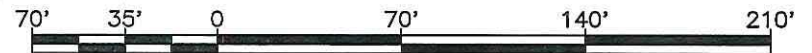
SEE SHEET 2
MATCH LINE 5

EXISTING FENCE TO
BE REPLACED

PROPOSED FENCE

FILL ADDED TO PROVIDE
VEHICULAR ACCESS DURING
OPERATIONS AND EMERGENCIES,
EQUIPMENT STORAGE/MANAGEMENT
AND OTHER OPERATIONAL NEEDS.

GRAPHIC SCALE

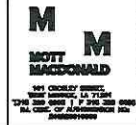


LEGEND

- LIMITS OF DISTURBANCE (LOD)
- EXISTING CONTOUR
- PROPOSED CONTOUR (@SUBGRADE)
- PROPOSED DRAINAGE SWALE
- 101' ROUTE/ROAD
- 90' PERMANENT ROW
- EXISTING PIPELINE
- PROPERTY LINE
- TREE LINE
- POWER LINE
- X --- PROPOSED FENCE
- X --- EXISTING FENCE
- □ --- PROPOSED SILT FENCE
- DRAINAGE FLOW
- PROPOSED CRUSHED GRAVEL AREA
- EXISTING FEATURES TO BE REMOVED
- STABILIZED CONSTRUCTION ENTRANCE
- -0.50% SHEET FLOW DIRECTION AND GRADE

CUT/FILL VOLUME	
CUT(CU. YD)	= 28
FILL(CU. YD)	= 7207
NET(CU. YD)	= 7179(FILL)

DISTURBED AREA	
NEW CONSTRUCTION DISTURBED AREA	= 1.41 ACRES
TOTAL DISTURBED AREA	= 3.53 ACRES
NEW IMPERVIOUS AREA	= 6,600 FT SQ.
LENGTH OF SILT FENCE	= 1,728'



THE WILLIAMS COMPANIES, INC.
MEADOWS
PHASE II EXPANSION PROJECT
SOIL EROSION AND SEDIMENT CONTROL PLAN
MODIFICATIONS @ M.P. 1827.245
BERGEN COUNTY, NEW JERSEY



DRAWN BY: JSD	DATE: 08/02/17	ISSUED FOR PERMIT: REVISED 10/23/2017	SCALE: 1" = 70'
CHECKED BY: BER	DATE: 08/02/17	ISSUED FOR CONSTRUCTION:	
APPROVED BY: CEN	DATE: 08/02/17	DRAWING NUMBER: (90-1572) VF-1A-3F	SHEET 1 OF 5
W.O.:			

Figure 3 of 8

N. 724,831.044
 E. 624,329.489
 LAT. N040°49'20.40"
 LONG. W074°01'20.24"

N. 724,495.455
 E. 624,232.627
 LAT. N040°49'17.08"
 LONG. W074°01'21.53"

PROPOSED CONTROL BUILDING
 26' X 20'

PROPOSED GENERATOR BUILDING
 28' X 19'

CONTRACTOR TO MAINTAIN
 SURFACE DURING
 CONSTRUCTION

PROPOSED HEATER
 37' X 9'

PROPOSED ODORIZATION BUILDING
 12' X 16'

PROPOSED STOCKPILE
 AREA. SEE MATERIAL
 STOCKPILE DETAIL ON
 SHEET 3 OF 4.

WETLAND FILL
 = 1.12 ACRES

GRAPHIC SCALE



LEGEND

- LIMITS OF DISTURBANCE (LOD)
- - - EXISTING CONTOUR
- - - PROPOSED CONTOUR (@SUBGRADE)
- - - PROPOSED DRAINAGE SWALE
- 101' ROUTE/ROAD
- 100' PERMANENT ROW
- - - EXISTING PIPELINE
- - - PROPERTY LINE
- ~ ~ ~ TREE LINE
- - - POWER LINE
- x - PROPOSED FENCE
- x - EXISTING FENCE
- □ - PROPOSED SILT FENCE
- - - DRAINAGE FLOW
- PROPOSED CRUSHED GRAVEL AREA
- EXISTING FEATURES TO BE REMOVED
- STABILIZED CONSTRUCTION ENTRANCE
- 0.50% SHEET FLOW DIRECTION AND GRADE

CUT/FILL VOLUME

CUT(CU. YD) = 28
 FILL(CU. YD) = 7207
 NET(CU. YD) = 7179(FILL)

DISTURBED AREA

NEW CONSTRUCTION DISTURBED AREA = 1.41 ACRES
 TOTAL DISTURBED AREA = 3.53 ACRES
 NEW IMPERVIOUS AREA = 6,600 FT SQ.
 LENGTH OF SILT FENCE = 1,728'



NOT SCALEABLE
 TYPE AND SIZE OF PAPER AND INK
 SHALL BE AS SPECIFIED IN THE
 CONTRACT DOCUMENTS

THE WILLIAMS COMPANIES, INC.
 MEADOWS
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W.O.:			

Figure 4 of 8

SITE PREPARATION AND GRADING

1. SEE E&S TYPICAL DRAWINGS (90-1572)VF-1A-3F
2. THE CONTRACTOR SHALL PHYSICALLY LOCATE AND VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO STARTING ANY DIGGING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND UTILITIES ON SITE DURING PROJECT CONSTRUCTION. ANY DAMAGES TO EXISTING UTILITIES SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR OR AFFECTED UTILITY.
3. IF UNDERGROUND UTILITIES ARE ENCOUNTERED DURING EARTHWORK OPERATIONS, WORK SHALL BE STOPPED AND THE OWNER REPRESENTATIVE SHALL BE NOTIFIED FOR DIRECTION.
4. CLEAR FROM THE CONSTRUCTION AREA, ANY VEGETATION, TOPSOIL AND ANY DELETERIOUS MATERIALS.
5. DURING DRY AND FAVORABLE WEATHER PLACE A WOVEN GEOTEXTILE ON THE RESULTING SUBGRADE AND PLACE ONE LIFT OF CONTROLLED FILL.
6. RAISE THE SITE TO PILE CUT-OFF ELEVATION WITH CONTROLLED FILL.
7. AFTER DRIVING PILES AND COMPLETING ALL NECESSARY WORK INVOLVED WITH THE PILES AND PILE CAPS, RAISE THE SITE TO PROPOSED SUBGRADE ELEVATION, PLUS AN ADDITIONAL ONE FOOT WITH STRUCTURAL FILL.
8. CONTRACTOR SHALL GRADE SITE IN SUCH A MANNER AS TO MAINTAIN EXISTING SURFACE DRAINAGE PATTERNS UNLESS NOTED OTHERWISE.
9. SITE GRADING SHALL BE CONSTRUCTED TO PREVENT IMPOUNDMENT OF WATER ON OR ADJACENT TO SITE.
10. FINAL SITE SLOPES WITHIN THE STATION SHALL BE AS SHOWN AND SHALL NOT IMPEDE OR HINDER OPERATION OF VEHICLE AND PEDESTRIAN GATES.
11. TO THE EXTENT POSSIBLE, SITE GRADING SHOULD TIE INTO EXISTING GROUND ELEVATIONS AT THE PERIMETER OF THE STATION. SHOULD EXISTING GROUND ELEVATIONS PREVENT SITE CONSTRUCTION PER NOTE 10 OF THIS DRAWING, EXCAVATE OR FILL WITHIN THE SITE LIMITS AND TIE BACK TO THE EXISTING GRADE OUTSIDE THE FENCE PER NOTE 12 OF THIS DRAWING.
12. THE BACK-SLOPE SWELLS OUTSIDE THE STATION SHALL BE 3:1 OR SHALLOWER UNLESS NOTED OTHERWISE.
13. THE CONTRACTOR SHALL NOTIFY THE OWNER REPRESENTATIVE PRIOR TO STARTING ANY WORK.

CONTROLLED FILL:

1. CONTROLLED STRUCTURAL FILL SHOULD CONSIST OF INORGANIC, READILY COMPACTABLE, PREDOMINANTLY WELL-GRADED GRANULAR SOILS WITH NO MORE THAN 15% FINES (PASSING THE NO. 200 SIEVE).
2. FRAGMENTS HAVING A MAXIMUM DIMENSION GREATER THAN THREE INCHES SHOULD BE EXCLUDED FROM THE FILL.
3. THE MOISTURE CONTENT OF THE FILL SHOULD BE CONTROLLED TO WITHIN 3% OF THE OPTIMUM BY WETTING, AERATION OR BLENDING TO FACILITATE COMPACTION.
4. ALL LOAD-BEARING FILL SHOULD BE CONTROLLED STRUCTURAL FILL.
5. CONTROLLED STRUCTURAL FILL SHOULD BE PLACED IN LOOSE HORIZONTAL LIFTS WITH A MAXIMUM LOOSE THICKNESS OF NINE INCHES PER LIFT.
6. CONTROLLED FILL SHALL BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D 1557).
7. ALL FILL SHALL BE STABLE WITHOUT SIGNIFICANT MOVEMENT UNDER CONSTRUCTION TRAFFIC, AS JUDGED BY THE GEOTECHNICAL ENGINEER.
8. QUALITY CONTROL TESTING OF IN-PLACE FILL DENSITIES SHOULD BE CONDUCTED THROUGHOUT THE ENTIRE EARTHWORK OPERATION.

ROCK SURFACING:

1. THE ROCK MUST BE WELL-GRADED, COARSE MATERIAL WITH A MAXIMUM AGGREGATE SIZE OF 3/4 INCH.
2. FOR THE SITE PADS, THE SUBGRADE MATERIALS MUST BE COVERED WITH A 4 INCH THICK LAYER OF CRUSHED ROCK OR GRAVEL, DO NOT USE RIVER RUN OR ROUNDED GRAVEL.
3. PLACE WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ROCK SURFACING.

SURVEY NOTES:

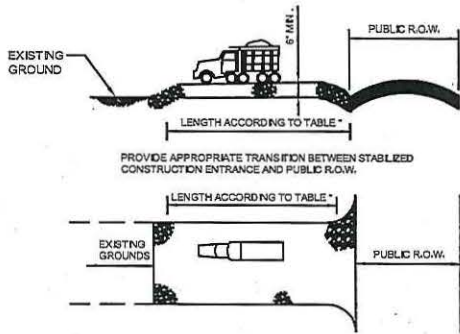
1. TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED IN THE FIELD BY MOTT MACDONALD ON JUNE 13-15, 2017 UNDER THE DIRECTION OF WILLIAM A. DIBARTOLO, JR. NJ PROFESSIONAL LAND SURVEYOR NO. 246SD4331200.
2. THE HORIZONTAL COORDINATE SYSTEM IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83) AND VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); BOTH ESTABLISHED BY DIFFERENTIAL GPS ON JUNE 13, 2017 FROM THE LEICA SMARTNET/NGS CORS NETWORK.
3. ANY UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND OBSERVATIONS, UTILITY MARKING FOUND IN THE FIELD AND/OR INFORMATION SUPPLIED BY THE UTILITY COMPANIES. SINCE NO PHYSICAL LOCATION OF THE UNDERGROUND FACILITIES HAVE BEEN MADE BY THE UNDERSIGNED, NO GUARANTEE IS BEING MADE FOR THEIR COMPLETENESS OR ACCURACY.
4. THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO MAKE ANY DETERMINATION AS TO THE EXISTENCE OR NON-EXISTENCE OF WETLANDS AND/OR HAZARDOUS MATERIALS, THEREFORE, NO STATEMENT IS BEING MADE OR IMPLIED HEREON, NOR SHOULD IT BE ASSUMED OR CONSTRUED THAT ANY STATEMENT IS BEING MADE BY THE FACT THAT NO EVIDENCE OF WETLANDS AND/OR HAZARDOUS MATERIALS IS PORTRAYED HEREON. THE CLIENT SHOULD PURSUE THESE MATTERS SEPARATE AND APART FROM THIS SURVEY.
5. ALL DEPICTED COORDINATE LOCATIONS ARE BASED UPON NAD83 NEW JERSEY STATE PLANE, US FOOT.
6. ALL PROPOSED CONTOURS ARE SHOWN TO SUBGRADE ELEVATIONS.
7. CONTRACTOR TO SET CONTROL AND BENCHMARKS REQUIRED FOR CONSTRUCTION.

Handwritten signature and date: 10/26/19

THE WILLIAMS COMPANIES, INC. MEADOWS PHASE II EXPANSION PROJECT SOIL EROSION AND SEDIMENT CONTROL PLAN MODIFICATIONS @ M.P. 1827.245 BERGEN COUNTY, NEW JERSEY				
DRAWN BY: JSD	DATE: 08/02/17	ISSUED FOR PERMIT: REVISED 10/23/2017	SCALE: N.T.S.	
CHECKED BY: BER	DATE: 08/02/17	ISSUED FOR CONSTRUCTION:		
APPROVED BY: CEN	DATE: 08/02/17	DRAWING NUMBER: (90-1572) VF-1A-3F	SHEET 3 OF 5	
W.O.:				



Figure 5 of 8



PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOLS	FINE GRAINED SOLS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
>5%	ENTIRE SURFACE STABILIZED WITH HOT MIX ASPHALT BASE COURSE, MK #2	

1. AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

STABILIZED CONSTRUCTION ENTRANCE MAINTENANCE NOTES:

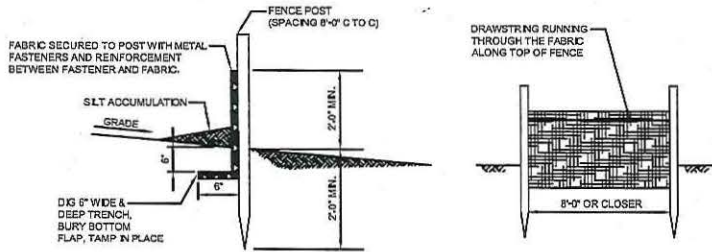
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTHS AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY.

WHERE ACCUMULATION OF DUST/SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER WILL BE REQUIRED TO CLEAN PAVED OR IMPERVIOUS SURFACES. ALL OTHER ACCESS POINTS WHICH ARE NOT STABILIZED SHALL BE BLOCKED OFF.

*NOTE: INDIVIDUAL LOT ACCESS POINTS MAY REQUIRE STABILIZATION. THICKNESS SHOWN IS FOR STONE CONSTRUCTION ENTRANCE ONLY (TYP.).

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NTS

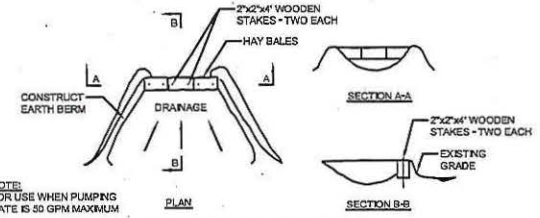


REQUIREMENTS FOR SILT FENCE:

- FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1-1/2 INCHES.
- A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
- A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBINGS, GROMMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

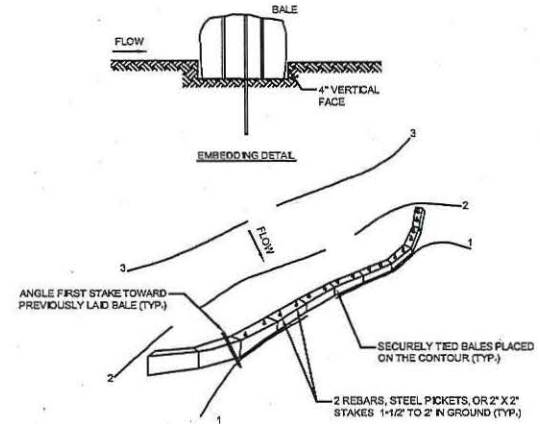
SILT FENCE DETAIL

NTS



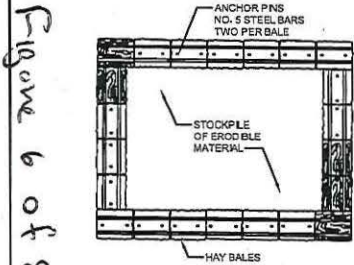
SEDIMENT TRAP DETAIL FOR TRENCH DEWATERING OPERATIONS

NTS



PLACEMENT AND ANCHORING DETAIL BALE SEDIMENT BARRIERS

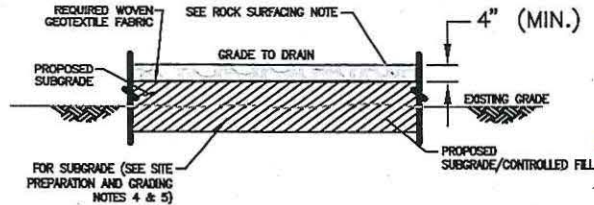
NTS



NOTE: SIDE SLOPES SHALL BE A MAXIMUM OF 2:1. STOCKPILE SHALL BE SEEDED IMMEDIATELY.

MATERIAL STOCKPILE DETAIL

NTS



TYPICAL SITE PAD SECTION

NTS

Figure 6 of 8

Handwritten signature and date: 10/24/17

THE WILLIAMS COMPANIES, INC.
MEADOWS
PHASE II EXPANSION PROJECT
SOIL EROSION AND SEDIMENT CONTROL PLAN
MODIFICATIONS @ M.P. 1827.245
BERGEN COUNTY, NEW JERSEY

DRAWN BY: JSD	DATE: 08/02/17	ISSUED FOR PERMIT: REVISED 10/23/2017	SCALE: N.T.S.
CHECKED BY: BER	DATE: 08/02/17	ISSUED FOR CONSTRUCTION:	
APPROVED BY: CEN	DATE: 08/02/17	DRAWING NUMBER: (90-1572) VF-1A-3F	SHEET 4
W.O.:			OF 5

BERGEN COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY (NJ STANDARDS), AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
2. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
3. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A HAY BALE SEDIMENT BARRIER OR SILT FENCE.
5. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED OVER ENTIRE WORKSPACE. SAID BLANKET WILL BE COMPOSED OF 1" - 2 1/2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
6. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
7. DRIVEWAYS MUST BE STABILIZED WITH 1" - 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
8. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
9. CATCH BASIN INLETS WILL BE PROTECTED WITH AN INLET FILTER DESIGNED IN ACCORDANCE WITH SECTION 28-1 OF THE NJ STANDARDS.
10. STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
11. DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT CONTROL BAG OR OTHER APPROVED FILTER IN ACCORDANCE WITH SECTION 14-1 OF THE NJ STANDARDS.
12. DUST SHALL BE CONTROLLED VIA THE APPLICATION OF WATER, CALCIUM CHLORIDE OR OTHER APPROVED METHOD IN ACCORDANCE WITH SECTION 16-1 OF THE NJ STANDARDS.
13. THE PROJECT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
14. ANY REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION IN THE FIELD.
15. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE THROUGHOUT CONSTRUCTION.
16. THE BERGEN COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE: BERGEN COUNTY SCD, 700 KINDERKAMACK ROAD, SUITE 106, ORADELL, NJ 07649. TEL: 201-261-4407; FAX 201-261-7573.
17. THE BERGEN COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF-SITE EROSION PROBLEMS DURING CONSTRUCTION.
18. THE OWNER MUST OBTAIN A DISTRICT ISSUED REPORT OF COMPLIANCE PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY. THE DISTRICT REQUIRED AT LEAST ONE WEEK'S NOTICE TO FACILITATE THE SCHEDULING OF ALL REPORT OF COMPLIANCE INSPECTIONS. ALL SITE WORK MUST BE COMPLETED, INCLUDING TEMPORARY / PERMANENT STABILIZATION OF ALL EXPOSED AREA, PRIOR TO THE ISSUANCE OF A REPORT OF COMPLIANCE BY THE DISTRICT.

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Construction by Company	156 days	Mon 2/5/18	Mon 9/10/18
Mobilization	5 days	Mon 2/5/18	Fri 2/9/18
Installation of Temp Soil and Erosion Ctrl's	6 days	Mon 2/12/18	Mon 2/19/18
Clearing of Site / Site Grading	3 wks	Tue 2/20/18	Mon 3/12/18
Installation of Pad Surface	6 wks	Tue 3/13/18	Mon 4/23/18
Pipe Fabrication and Installation	10 wks	Tue 4/24/18	Mon 7/2/18
Equipment / Building Installation	6 wks	Mon 5/14/18	Fri 6/22/18
Electrical / Power Installation	4 wks	Mon 6/25/18	Fri 7/20/18
Permanent Site Stabilization	3 wks	Mon 7/23/18	Fri 8/10/18
Final Inspection and Cleanup	12 days	Mon 8/13/18	Tue 8/28/18
Demobilization	5 days	Wed 8/29/18	Tue 9/4/18
Removal of Temp Soil Erosion and Control	4 days	Wed 9/5/18	Mon 9/10/18

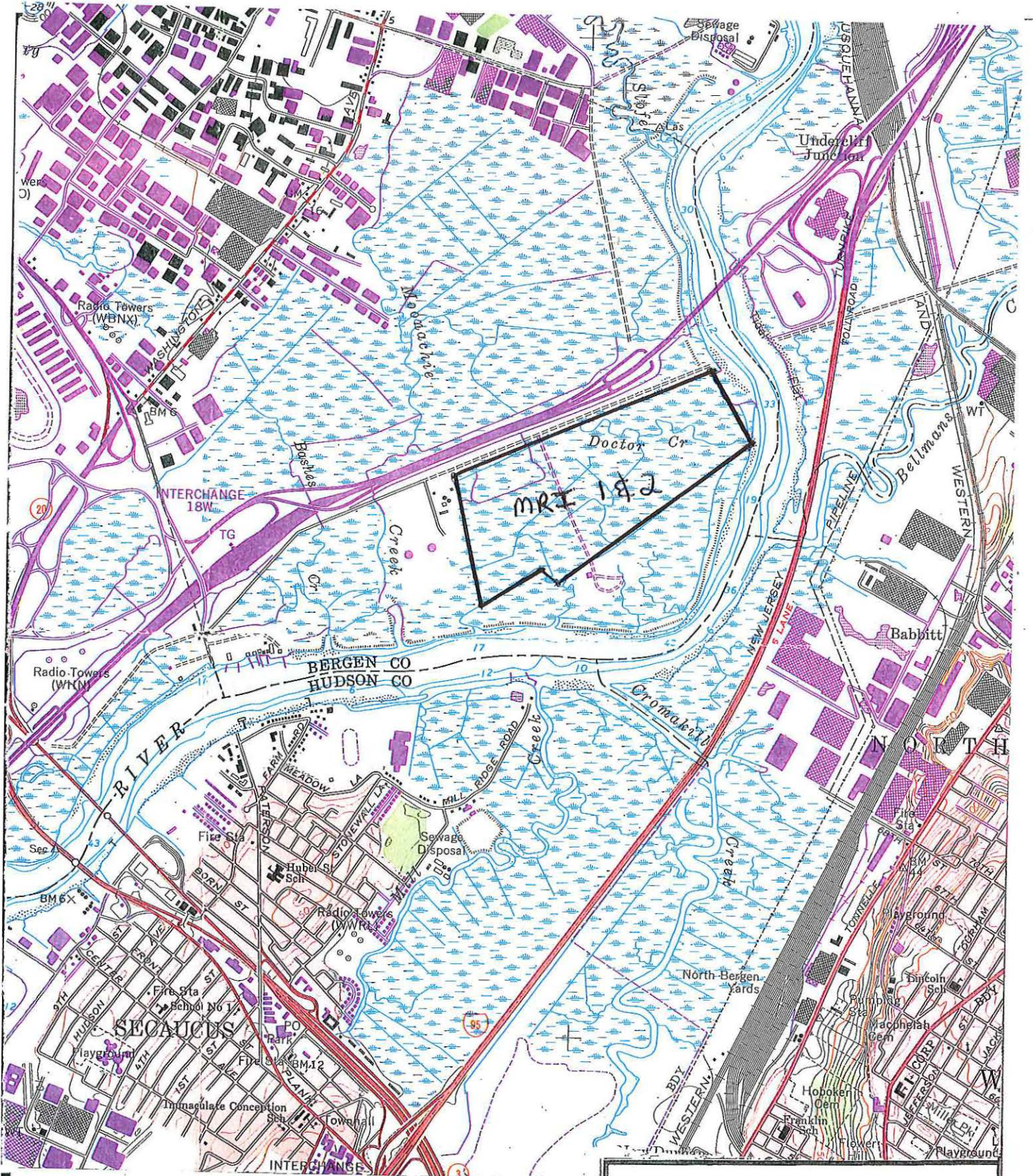
GENERAL NOTE:
 THE CONTRACTOR SHALL INSTALL AND MAINTAIN APPROPRIATE SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE DETAILS ON THE DRAWINGS, REGARDLESS OF WHETHER OR NOT THE LOCATION OF SUCH MEASURES ARE SPECIFICALLY SHOWN ON THE PLANS. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCES ALONG THE PERIMETER OF DISTURBED AREAS AND AROUND MATERIAL STOCKPILES, AND STONE CONSTRUCTION ENTRANCE PADS AT POINTS OF MAJOR INGRESS AND EGRESS FROM PAVED ROADS TO UNPAVED AREAS.

[Handwritten Signature]
 10/26/17



THE WILLIAMS COMPANIES, INC.
 MEADOWS
 PHASE II EXPANSION PROJECT
 SOIL EROSION AND SEDIMENT CONTROL PLAN
 MODIFICATIONS @ M.P. 1827.245
 BERGEN COUNTY, NEW JERSEY

DRAWN BY: JSD	DATE: 08/02/17	ISSUED FOR PERMIT: REVISED 10/23/2017	SCALE: N.T.S.
CHECKED BY: BER	DATE: 08/02/17	ISSUED FOR CONSTRUCTION:	
APPROVED BY: CEN	DATE: 08/02/17	DRAWING NUMBER: (90-1572) VF-1A-3F	SHEET 5 OF 5
W.O.:			



0 2000 4000
 Approximate Scale in Feet

Source: USGS Quadrangle, Weehawken, NJ-NY, 1981.

MARSH RESOURCES INC.		
LOUIS BERGER & ASSOCIATES, INC.		
MRI 1 & 2 Site Location Map Mitigation Bank		
SCALE: 1"=2000'	DATE: AUGUST 1997	FIGURE:

Figure 8 of 8