

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-2016-00587-WOM
Issue Date: August 17, 2016
Expiration Date: September 16, 2016

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 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Westchester County Department of Public Works and Transportation
148 Martine Avenue
White Plains, New York 10601

ACTIVITY: Installation of a new sheet pile bulkhead waterward of the Mamaroneck Jetty bulkhead to protect in-place outfall pipes because the existing bulkhead is failing.

WATERWAY: Mamaroneck Harbor, Long Island Sound

LOCATION: Village of Mamaroneck, Westchester County, New York.

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. 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

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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 lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations 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 occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments

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regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

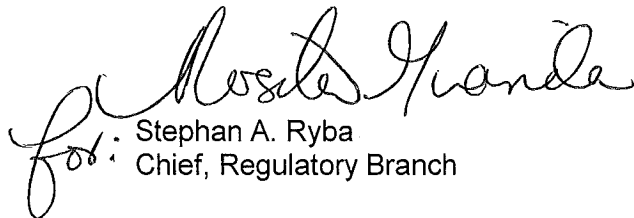
In addition to any required water quality certificate and coastal zone management program, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation

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) 790-8417 and ask for Melanie O'Meara.

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 Westchester County Department of Public Works and Transportation, has requested Department of the Army authorization for the discharge of fill material into waters of the United States to facilitate the installation of a sheet pile bulkhead around the Mamaroneck Jetty bulkhead to continue protection of two (2) existing outfall pipes, because the existing bulkhead is failing. The project site is in Mamaroneck Harbor of the Long Island Sound, in the Village of Mamaroneck, Westchester County, New York.

The work would involve the installation of a sheet pile bulkhead approximately four (4) feet waterward of the existing 860 linear foot bulkhead to protect existing outfall pipes from the Mamaroneck Wastewater Treatment Plant (WWTP), resulting in approximately 0.08 acres of impacts to waters of the United States. The existing steel sheet pile bulkhead is almost 50 years old and in poor condition with extensive corrosion and holes, putting the outfalls at risk of damage. The bulkhead deterioration could result in a failure of the outfall pipes and a non-permitted discharge of the WWTP's effluent to the Mamaroneck Harbor. In addition, material from within the jetty is eroding through holes in the bulkhead, resulting in sink holes and void spaces on the inside of the jetty.

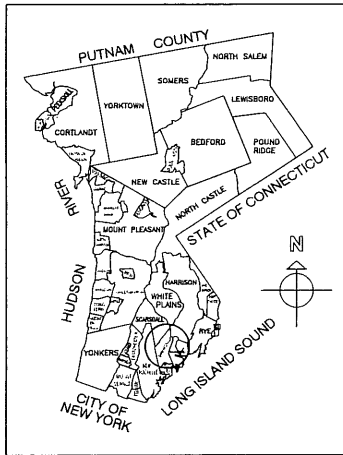
Due to the condition of the existing bulkhead, the construction of the new bulkhead would be conducted in a way that would minimize to the greatest extent practicable any disturbance of the existing bulkhead. To minimize disturbance, the proposed bulkhead would be placed four (4) feet waterward of the existing structure, allowing for the tieback system to be placed without impacting the existing bulkhead, as well as construction activities, such as drilling and/or auguring into rock, into which the new bulkhead would be embedded.

After placement of the new sheet pile bulkhead, the space between the new and existing bulkheads would be filled with crushed stone and compacted select fill. A concrete pile cap would be installed on top of the new bulkhead, which would also serve as a foundation for a new perimeter fence. Finally, pervious pavement walkways and grass areas would be placed on top of the rehabilitated jetty area. The new bulkhead would have a corrosion resistant design life of over 50 years.

To protect water quality, turbidity curtains would be placed approximately five (5) feet waterward of the active work area to confine the movement of suspended materials/silt to within that area. It is anticipated that bulkhead installation work would occur from the upland area of the jetty.

The stated purpose of this project is to rehabilitate the jetty bulkhead, thereby protecting the WWTP outfall pipes.

APPLICANT: WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

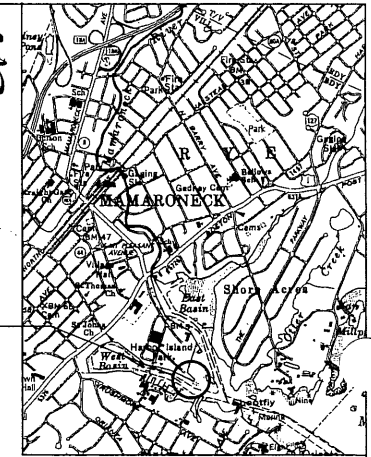


WESTCHESTER COUNTY



WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT No. 15-517
OUTFALL JETTY REHABILITATION
MAMARONECK WASTE WATER TREATMENT PLANT
MAMARONECK, NEW YORK



MAMARONECK
OUTFALL JETTY

LOCATION MAP
N.T.S.

DRAWING LIST

DPW FILE NO.	SHEET TITLE	SHEET NO.
GENERAL		
XX-XX-T-XXX-0	TITLE SHEET	G-01
XX-XX-G-XXX-0	SYMBOLS AND ABBREVIATIONS	G-02
CIVIL		
XX-XX-C-XXX-0	STAGING PLAN	C-01
XX-XX-C-XXX-0	EXISTING CONDITIONS DEMOLITION PLAN	C-02
XX-XX-C-XXX-0	SITE PLAN	C-03
XX-XX-C-XXX-0	EXISTING CONDITIONS PROFILE	C-04
XX-XX-C-XXX-0	SITE DETAILS	C-05
XX-XX-C-XXX-0	EROSION AND SEDIMENT CONTROL PLAN	C-06
XX-XX-C-XXX-0	EROSION AND SEDIMENT CONTROL DETAILS	C-07
XX-XX-C-XXX-0	LANDSCAPING PLAN	C-08
STRUCTURAL		
XX-XX-S-XXX-0	DETAILS I	S-01
XX-XX-S-XXX-0	DETAILS II	S-02
ELECTRICAL		
XX-XX-E-XXX-0	SITE PLAN - DEMOLITION	E-01
XX-XX-E-XXX-0	SITE PLAN - NEW WORK	E-02
XX-XX-E-XXX-0	DETAILS	E-03

CONSULTANT SEAL		D&B ENGINEERS AND ARCHITECTS, P.C.	
REVISION NUMBER	DATE	MADE BY	APP'D BY
RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME	DATE	NAME	DATE
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
TITLE	TITLE	TITLE	TITLE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		CONTRACT NUMBER 15-517 SHEET NUMBER G-01	
OUTFALL JETTY REHABILITATION MAMARONECK WWTP WEST BOSTON POST ROAD, MAMARONECK, NEW YORK GENERAL TITLE SHEET		SCALE: AS SHOWN DATE: DPW FILE NO. XXX-XX-C-XXX REV. NO. 0	

IN CHARGE OF RJD
CHECKED BY RCD
MADE BY GEO

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW

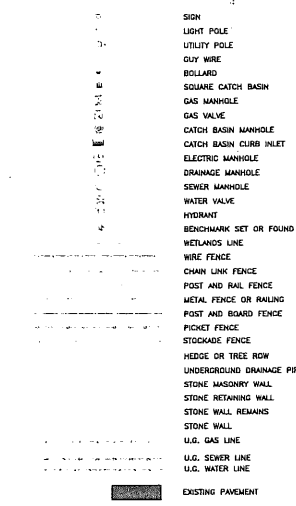
RECOMMENDED FOR DESIGN	DATE	RECOMMENDED FOR CONSTRUCTION	DATE	APPROVED FOR CONSTRUCTION	DATE	APPROVED FOR CONSTRUCTION	DATE
JOSEPH GIBNEY, P.E. DIRECTOR-WASTEWATER DEPARTMENT OF ENVIRONMENTAL FACILITIES		LEAH RADKO, P.E. DIRECTOR OF PROJECT MANAGEMENT DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		THOMAS J. LAURO, P.E. COMMISSIONER DEPARTMENT OF ENVIRONMENTAL FACILITIES		JAY T. PISCO, P.E. COMMISSIONER DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	

ABBREVIATIONS

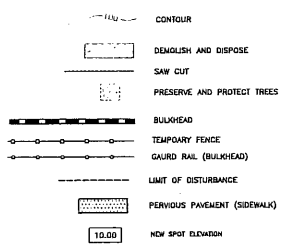
A.B.	ANCHOR BOLT	HMB	HOSE BAR WITH VACUUM BREAKER	SYN	SYMMETRICAL
A.C.	ASTROGAS GEMENT PIPE	HNR	HIGH RESIST POLYETHYLENE PIPE	SW	SHORT WAY
ADD.	ADDITIONAL	HORIZH	HORIZONTAL	T	TOP
AF	ABOVE FINISHED FLOOR	HR	HANDRAIL	TAB	TOP AND BOTTOM
ALUM	ALUMINUM	HM	HIGH MARSH LINE	TD	TOP OF DUCT
ARCH	ARCHITECTURAL	HL	HOT WATER HEATER	TOL	TOP OF LOUVER
AT	AT	HP	HIGH POINT	TOS	TOP OF STEEL
A	AND	HAV	HOT WATER	TOW	TOP OF WALL
B	BOTTOM	HW	HOT WATER HEATER	TR	TRAFFIC LOOP
B.C.	BRICK COURSE	HWH	HOT WATER HEATER	TR	TYPICAL
BLK	BLOCK	HTD	HYDRANT	UN	UNLESS NOTED OTHERWISE
BM	BEAM	ID	INSIDE DIAMETER	UP	UTILITY POLE
BOB	BOTTOM OF DUCT	INSUL	INSULATION	VB	VACUUM BREAKER
BRG	BEARING	INT	INTERIOR	VCP	WIRFRED CLAY PIPE
BV	BUTTERFLY VALVE	INV. ELEV.	INVERT ELEVATION	VO	VOLUME GAUGER
BU	BALL VALVE	J	JOINT	VERT	VERTICAL
CB	CATCH BASIN	K	KIPS	VC	VEGETATION CONNECTION
CL	CAST IRON	LBS	POUNDS	VTR	VENT THROUGH ROOF
CHD'D	CHISELED	LF	LINEAR FEET	WJ	WITH
CJ	CONSTRUCTION JOINT	LG	LONG	WC	WATER CLOSET
CL	CLEARANCE	LH	LEFT HAND	WM	WATER MAIN
CL	CENTERLINE	LP	LOW POINT	WP	WATER STOP OR WATER SERVICE
CMU	CONCRETE MASONRY UNIT	LV	LONG LEG VERTICAL	WV	WATER VALVE
CL	CLEAN OUT	LONG WAY	LONG WAY	WVG	WATER VALVE GAGE
COL	COLUMN	MAN	MANHOLE	WVF	WELDED WIRE FABRIC
CONC	CONCRETE	MED	MEDICAL		
CONN	CONNECTION	MFG	MANUFACTURING		
CONT	CONTINUOUS	MFR	MANUFACTURER		
CTR	CENTER	MIN	MINIMUM		
CV	CHECK VALVE	MN	MANHOLE		
DW	COLD WATER	MO	MASONRY OPENING		
DCV	DOUBLE CHECK VALVE	NA	NOT APPLICABLE		
DEPRESS	DEPRESSION	NF	NEAR FACE		
DET	DETENT	NH	NUMBER		
DH	DRAIN MANHOLE	NP	NON-POSSIBLE WATER		
D.I.	DRAIN IRON	NTS	NOT TO SCALE		
DI	DIMETER	OC	ON CENTER		
DIAM	DIAMETER	OF	OVERFLOW		
DIAM(S)	DIAMETERS	OH	OVER HEAD ELECTRICAL		
DWG(S)	DRAWINGS	OP	OPENING		
DWLS	DOWELS	OPP	OPPOSITE		
E	EXISTING	PC	PREDICT		
EA	EACH	PI	PRESSURE INDICATOR		
EC	ELECTRICAL CONTRACTOR	P	PROPERTY LINE		
EF	EACH FACE	PLATF	PLATFORM		
ELEV	ELEVATION	PSF	POUNDS PER SQUARE FOOT		
EM	ELECTRICAL MANHOLE	PSI	POUNDS PER SQUARE INCH		
EQ	EQUAL	PST	PRIMARY SETTLING TANK		
EQUIP	EQUIPMENT	PV	PLUG VALVE		
ES	EACH SIDE	PWB	PRESSURE VACUUM BREAKER		
ETC	ET CETERA	PVC	POLYVINYL CHLORIDE PIPE		
EW	EACH WAY	RD	ROOF DRAIN		
EXP	EXPANSION	REF	REFERENCE		
EXT	EXTENSION	RENF	REINFORCEMENT		
F	FLOOR DRAIN	REQD	REQUIRED		
FDN	FOUNDATION	RFG	ROOFING		
FF	FACE	RHL	RIGHT HAND		
FN	FINISHED	RDW	RIGHT OF WAY		
FN. FL.	FINISHED FLOOR	NP2	REDUCED PRESSURE		
FL	FLOOR	SD	SCHEDULE		
FM	FORCE MAIN	SECT	SECTION		
FOR	FACE OF WALL	SAN	SANITARY DRAIN		
FTS	FOOTING	SM	SIMILAR		
FZ	FINE EXTINGUISHER	SL	SLAB		
GA	GAUGE	SLV	SHORT LEG VERTICAL		
GB	GLOBE VALVE	SPCS	SPECIFICATIONS		
GALV	GALVANIZED	SQ	SQUARE		
GC	GENERAL CONTRACTOR	SQ. FT.	SQUARE FEET		
GM	GAS MAIN	SSe	SOLID SENSOR NO.		
GS	GALVANIZED STEEL OR GAS SERVICE	SS	STAINLESS STEEL		
GV	DATE VALVE	SSX	SUSPENDED SOLIDS METER (TANK No.)		
HB	HOSE BIBB	STD	STANDARD		
		STP	SEWAGE TREATMENT PLANT		
		STFF	STIFFENER		
		STRUT	STRUCTURAL		

SYMBOLS

CIVIL EXISTING



CIVIL PROPOSED



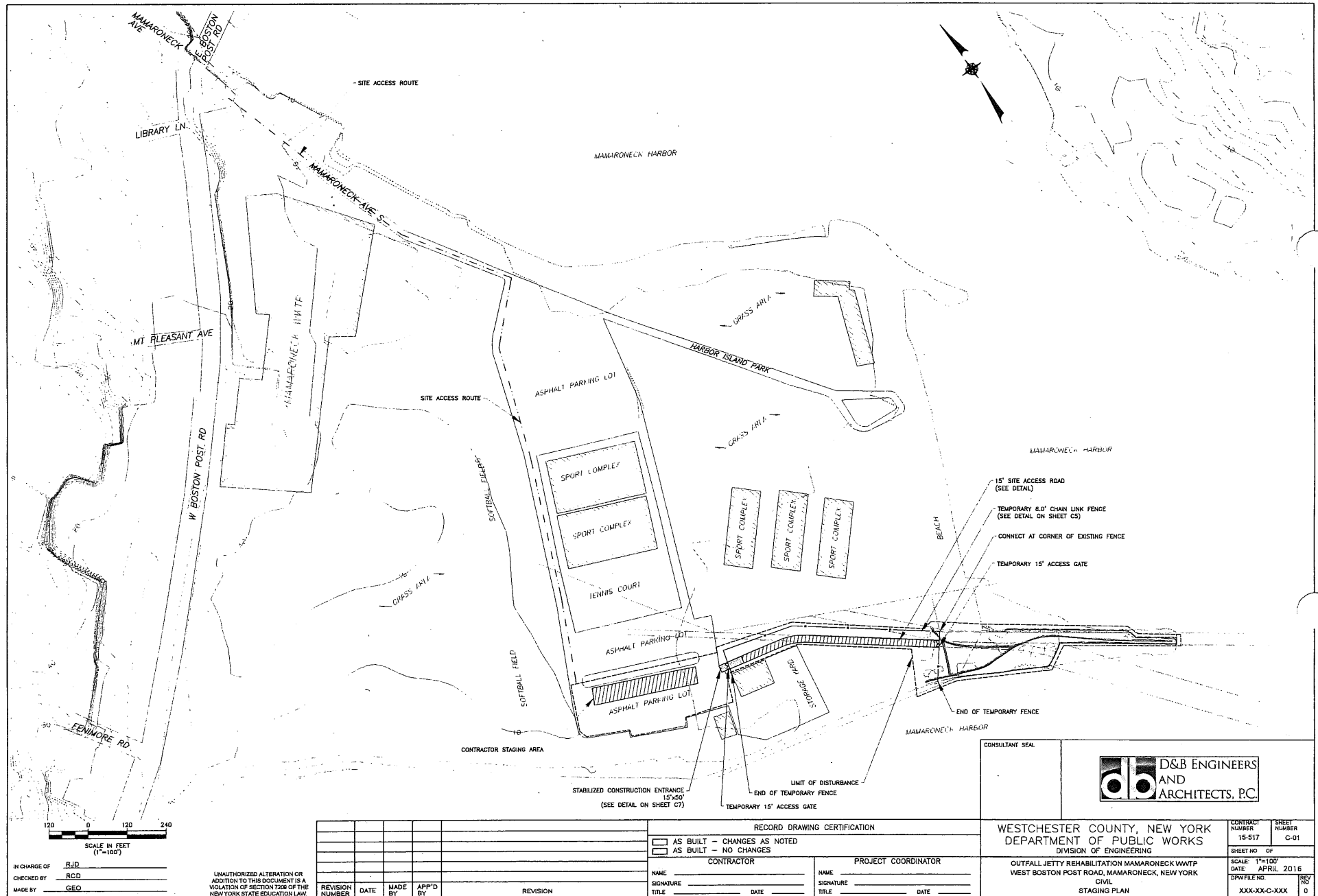
GENERAL NOTES:

- ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO REVISIONS AS PER ACTUAL FIELD CONDITIONS.
- COPIES OF THE ORIGINAL CONTRACT DRAWINGS FOR THE ORIGINAL SHEET PILE BULKHEAD ARE AVAILABLE FOR REVIEW BY THE CONTRACTOR AT THE PLANT.
- CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING BULKHEAD SHEETS, STRUCTURES, PIPING, EQUIPMENT, UTILITIES, ETC. INCLUDING TEST PITS AS NECESSARY PRIOR TO COMMENCEMENT OF ANY NEW WORK.
- ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE PRIVATE UTILITY MARKOUTS FOR ALL UTILITIES IN THE WORK AREAS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED UTILITY SUB-CONTRACTOR FOR APPROVAL.
- THE CONTRACTOR SHALL OBTAIN AND HAVE ON THE JOB SITE, AT ALL TIMES, ALL PERMITS AS REQUIRED BY THE STATE, COUNTY, TOWN/VILLAGE, OR ANY OTHER PERMITTING AGENCY. THE CONTRACTOR SHALL BEAR ALL COSTS OF OBTAINING THESE PERMITS.
- CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS CONSTRUCTION MATERIALS TO THE SATISFACTION OF THE OWNER AND ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL MATERIALS RESULTING FROM THIS CONTRACT.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER AND ENGINEER TO MINIMIZE INTERRUPTIONS TO NORMAL PARK OPERATIONS.
- CONTRACTOR SHALL SUBMIT DETAILED WORK PLAN INCLUDING SEQUENCE OF OPERATIONS PRIOR TO COMMENCING WORK AND SHALL BE SUBJECT TO APPROVAL OF THE OWNER.
- THE CONTRACTOR SHALL AT ALL TIMES, PROVIDE CONVENIENT ACCESS WITH SAFE AND PROPER FACILITIES FOR THE INSPECTION OF ALL PARTS OF THE WORK. NO WORK, EXCEPT SUCH SHOP WORK AS MAY BE SO PERMITTED, SHALL BE DONE EXCEPT WITH THE CONSENT OF THE OWNER OR A REPRESENTATIVE THEREOF.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION. IN ADDITION, IF WORK SHOULD BE STOPPED AND RESTARTED FOR ANY REASON, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE.
- ITEMS SUSTAINING DAMAGE DURING CONSTRUCTION AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AND/OR REPLACED TO THE SATISFACTION AND APPROVAL OF THE OWNER AT THE CONTRACTOR'S EXPENSE. ANY DAMAGE TO PAVEMENT OR GRASS AREAS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRESERVE THE MATERIAL BELOW AND BEYOND THE LINES OF ALL EXCAVATION IN THE SHORTEST POSSIBLE CONDITION. ANY DAMAGE TO ALL WORK DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE EXPENSE OF AND BY THE CONTRACTOR.
- NO MATERIALS OF ANY KIND SHALL BE USED UPON WORK UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER. ALL MATERIALS REJECTED SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE AND SHALL NOT BE OFFERED FOR INSPECTION AGAIN.

- ANY MATERIALS OR WORKMANSHIP FOUND AT ANY TIME TO BE DEFECTIVE SHALL BE REJECTED AT ONCE, REGARDLESS OF PREVIOUS INSPECTION. THE INSPECTION AND OBSERVATION OF WORK BY THE ENGINEER IS INTENDED TO AID THE CONTRACTOR IN APPLYING LABOR AND MATERIAL TO AND IN ACCORDANCE WITH THE SPECIFICATIONS, BUT SUCH INSPECTION SHALL NOT RELEASE THE CONTRACTOR FROM ANY CONTRACT OBLIGATIONS.
- THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER SO AS TO POSE NO DANGER OR HAZARDS TO PERSONS OR PROPERTY. WHERE NECESSARY, TEMPORARY SHIELDS OR OTHER PROTECTIVE DEVICES MUST BE UTILIZED. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE OF ANY AND ALL SAFETY MEASURES. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND NEW YORK STATE DEPARTMENT OF LABOR REQUIREMENTS.
- RESSEED ALL AREAS WHERE WORK OCCURS AND/OR WHERE CONTRACTOR DAMAGES EXISTING GRASS, COMPLY WITH THE SPECIFICATIONS. STAGING AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SHALL BE SEEDING FOLLOWING COMPLETION OF ALL PHYSICAL WORK.
- THE CONTRACTOR SHALL HAVE A COMPETENT REPRESENTATIVE PRESENT WHO SHALL RESPOND TO ANY QUESTIONS OR REQUESTS OF THE ENGINEER IN THE PROSECUTION AND COMPLETION OF THE WORK IN CONFORMITY WITH THIS CONTRACT, AND SHALL HAVE FULL AUTHORITY TO SUPPLY LABOR AND MATERIAL IMMEDIATELY. THE CONTRACTOR SHALL ALSO HAVE A COMPETENT REPRESENTATIVE AVAILABLE TO RECEIVE TELEPHONE MESSAGES AND PROVIDE A REASONABLE REPLY AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS.
- NEITHER THE OWNER OR ENGINEER SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR SITE SAFETY AND THE SAFETY OF THE CONTRACTOR'S WORK FORCE.
- BACKFILL AT ANY EXCAVATIONS SHALL BE PLACED IN 6" LIFTS AND SHALL ACHIEVE A COMPACTION NOT LESS THAN 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY UNDER THE TERMS OF THE CONTRACT. THE CONTRACTOR SHALL PERFORM FIELD TESTS BY AN APPROVED LABORATORY TO ASSURE THIS COMPACTION RATE AT VARYING DEPTHS. THE CONTRACTOR SHALL HAVE THE APPROVED LABORATORY REPRESENTATIVE ON SITE WHEN DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COSTS FOR TESTING AND ANY DELAYS THAT RESULT FROM SUCH TESTING.
- THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES AND COVERS, VALVE COVERS, WATER VALVE BOXES, DRAINAGE INLETS, ETC. AS NECESSARY TO MEET THE SURFACE OF NEW PAVEMENT OR WALKWAY AS REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE RELATED UTILITY COMPANIES, IF APPLICABLE, WARPING OF THE PAVEMENT SURFACE TO MEET THESE ITEMS WILL NOT BE PERMITTED.
- ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTLING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO BURIED AND OVERHEAD UTILITIES LOCATED ON PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO FACILITIES ON PUBLIC AND PRIVATE PROPERTY, SUCH AS, LANDSCAPING, DRIVEWAYS, CURBS, PAVEMENT, SIDEWALK, ETC.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE AND VERIFY THE EXTENT OF ALL DEMOLITION WITH THE ENGINEER PRIOR TO PERFORMING THE WORK.
- CONTRACTOR SHALL RESTORE STAGING AREA BACK TO ITS ORIGINAL CONDITION INCLUDING GRADING, SEEDING, ETC. EXISTING TREES, UTILITIES, LIGHT POLES, STONE, SIDEWALK, CURB, ETC. SHALL BE PROTECTED AND REPLACED IF DAMAGED. PROVIDE ELECTRICAL, POWER, WATER, TELEPHONE, ETC. AS PERMITTED FOR THE ENGINEER'S TRAILER WHICH SHALL BE LOCATED IN THE STAGING AREA.
- CONTRACTOR SHALL COMPLY WITH ALL NYSED PERMIT REQUIREMENTS AND ANY OTHER STATE, CITY, COUNTY OR TOWN AGENCY HAVING JURISDICTION. REFER TO THE CONTRACT SPECIFICATIONS, APPENDIX I, FOR PERMIT REQUIREMENTS.

CONSULTANT SEAL		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		
CONTRACT NUMBER 15-517	SHEET NUMBER G-02	OUTFALL JETTY REHABILITATION MAMARONECK WWTP WEST BOSTON POST ROAD, MAMARONECK, NEW YORK GENERAL
SHEET NO. OF _____ OF _____	SCALE AS SHOWN DATE: APRIL 2016	
IN CHARGE OF RJD CHECKED BY RCD MADE BY GEO	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7206 OF THE NEW YORK STATE EDUCATION LAW	SYMBOLS AND ABBREVIATIONS

RECORD DRAWING CERTIFICATION				CONTRACTOR		PROJECT COORDINATOR	
<input type="checkbox"/>	AS BUILT - CHANGES AS NOTED	NAME	SIGNATURE	NAME	SIGNATURE	DATE	DATE
<input type="checkbox"/>	AS BUILT - NO CHANGES	TITLE	DATE	TITLE	DATE		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION			



IN CHARGE OF: RJD
 CHECKED BY: RCD
 MADE BY: GEO

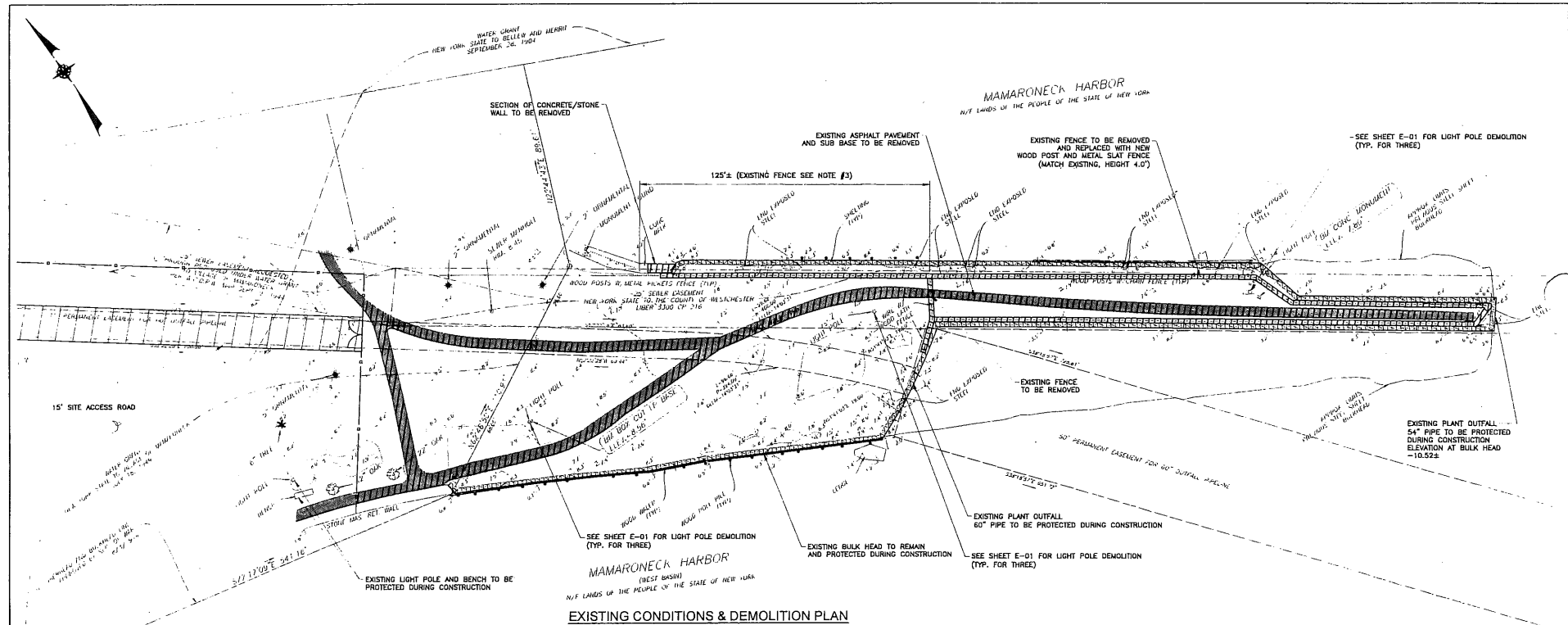
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION			
CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	DATE _____	DATE _____

		CONTRACT NUMBER: 15-S17 SHEET NUMBER: C-01
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		SCALE: 1"=100' DATE: APRIL 2016 DPWF FILE NO: XXX-XX-C-XXX REV NO: 0
OUTFALL JETTY REHABILITATION MAMARONECK WWTP WEST BOSTON POST ROAD, MAMARONECK, NEW YORK CIVIL STAGING PLAN		CONSULTANT SEAL

APPLICANT: WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION



EXISTING CONDITIONS & DEMOLITION PLAN

SITE DEMOLITION NOTES:

- ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY NO LATER THAN 48 HOURS PRIOR TO ANY EXCAVATION THAT MAY AFFECT THAT UTILITY. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DONE BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT ARE TO REMAIN.
- BEFORE THE START OF DEMOLITION, THE CONTRACTOR SHALL COORDINATE THE PROPOSED EXCAVATION WORK WITH THE OWNERS OF THE UTILITIES INVOLVED.
- FOR VILLAGE OWNED UTILITIES, CONTRACTOR SHALL VERIFY DISCONNECT PRIOR TO DEMOLITION.
- WHERE EXISTING CURB, CUTTER, SIDEWALK OR WALK IS TO BE REMOVED, IT SHALL BE SAW CUT OR REMOVED AT THE NEAREST JOINT.
- ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL PERFORM DAILY CLEANUP OPERATIONS WHICH INCLUDE SWEEPING OF THE ROADWAYS, REMOVAL OF DEBRIS (CURB, PAPER BAGS, CANS, ETC.), REMOVAL OF EXCESS CONSTRUCTION MATERIALS, ALL TO THE SATISFACTION OF THE OWNER.
- THE WORK COVERED BY THIS SECTION CONSISTS OF REMOVING AND DISPOSING OF ALL TREES, STUMPS, BRUSHES, ROOTS, SHRUBS, VEGETATION, LOGS, RUBBISH, AND OTHER OBSTACLES MATERIAL FROM THE SITE TO PERFORM THE WORK. REMOVE TREES AND SHRUBS IN SUCH A MANNER TO AVOID DAMAGE TO ADJACENT TREES AND SHRUBS AND THOSE DESIGNATED TO REMAIN. REMOVAL OF TREES AND SHRUBS SHALL INCLUDE THEIR RESPECTIVE STUMPS AND ROOTS. WORK UNDER THIS SECTION ALSO INCLUDES STRIPPING AND STOCKPIPING OF TOPSOIL WHICH MAY BE REUSED.
- THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL RULES, REGULATIONS AND LAWS WHICH SHALL GOVERN THE HAULING AND DISPOSAL OF TREES, SHRUBS, STUMPS, ROOTS, RUBBISH, DEBRIS AND OTHER MATERIAL.
- STREETS, ROADS, ADJACENT PROPERTY AND OTHER WORKS AND STRUCTURES SHALL BE PROTECTED THROUGHOUT THE ENTIRE PROJECT. CONTRACTOR SHALL RESTORE ANY FACILITIES DAMAGED BY CONSTRUCTION TO THEIR ORIGINAL CONDITIONS, SATISFACTORY TO THE ENGINEER.
- NO TREES, SHRUBS, ROOTS, BRANCHES, WOOD, CONCRETE, OR OTHER DEBRIS SHALL BE BURIED IN FILLS, EMBANKMENTS OR STOCK PILES.
- NO CLEANED MATTER, DEBRIS OR SOILS SHALL BE STORED AT CONSTRUCTION SITE.
- CONTRACTOR SHALL GUARANTEE THAT WORK PERFORMED UNDER THIS CONTRACT WILL NOT PERMANENTLY DAMAGE TREES, SHRUBS, TURF OR PLANTS DESIGNATED TO REMAIN, OR OTHER ADJACENT WORK OR FACILITIES. IF DAMAGE RESULTING FROM CONTRACTOR'S OPERATIONS APPEARS DURING THE PERIOD UP TO 24 MONTHS AFTER COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REPLACE DAMAGED ITEMS AT HIS EXPENSE.
- DAMAGE TO ANY EXISTING ITEMS, NOT SHOWN IN CONTRACT DOCUMENTS TO BE REMOVED, SUCH AS PAVEMENT, GRASSY AREAS, UTILITIES, STRUCTURES OR OTHER FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL ASPHALT PAVEMENT, GRASSY AREAS AND LANDSCAPING THAT ARE DAMAGED OR DISTURBED SHALL BE RESTORED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CONTRACT SPECIFICATIONS.
- EXCEPT AS NOTED BELOW, CONTRACTOR SHALL REMOVE FROM THE SITE AND SATISFACTORILY DISPOSE OF ALL TREES, SHRUBS, STUMPS, ROOTS, BRUSH, MISCORNY RUBBISH, SCRAP DEBRIS, PACKAGING, CURBS, FENCES AND MISCELLANEOUS OTHER STRUCTURES NOT COVERED UNDER OTHER SECTIONS AS SHOWN, SPECIFIED OR OTHERWISE REQUIRED TO PERMIT CONSTRUCTION OF THE NEW WORK.
- BURNING OF MATERIALS IS EXPRESSLY FORBIDDEN.
- TREES AND SHRUBS TO BE SAVED:
 - TREES AND SHRUBS WHICH ARE TO REMAIN SHALL BE PROTECTED BY FENCES, BARRICADES, WRAPPING OR OTHER MEANS OF PROTECTION. EQUIPMENT STORAGE, MATERIAL STOCKPILES, ETC., SHALL NOT BE PERMITTED WITHIN TREE BRANCH SPREAD.
 - PROTECT ALL OTHER TREES AND SHRUBS FROM DEFACEMENT, INJURY AND DESTRUCTION. PRESERVE TREES WITHIN THE CONTRACT LIMITS THAT ARE SO DELICATED ON THE PLANS OR AS MARKED IN THE FIELD BY THE ENGINEER. ALSO, ALL TREES TO BE SAVED SHALL BE PROTECTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SURVEY NOTES:

- VERTICAL DATUM: BASED UPON FILED MAP No. 23085
- HORIZONTAL DATUM: N.Y.S. PLANE COORDINATE SYSTEM (EAST ZONE)

NOTES:

- PROTECT ALL EXISTING TREES DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES AND MONUMENTS WITHIN PROPOSED PERMITTED WORK AREA.
- SECTION OF EXISTING WOOD POST AND METAL SLAT FENCE TO BE REMOVED AND REINSTALLED AT COMPLETION OF PROJECT.

CONSULTANT SEAL



WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

CONTRACT NUMBER	15-517	SHEET NUMBER	C-02
SHEET NO. OF	11	DATE	APRIL 2016
SCALE	1"=20'	DRW FILE NO	XXX-XX-C-XXX
REV	NO	BY	NO

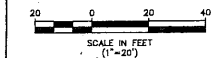
OUTFALL JETTY REHABILITATION MAMARONECK WWTP
WEST BOSTON POST ROAD, MAMARONECK, NEW YORK
CIVIL
EXISTING SITE PLAN

RECORD DRAWING CERTIFICATION

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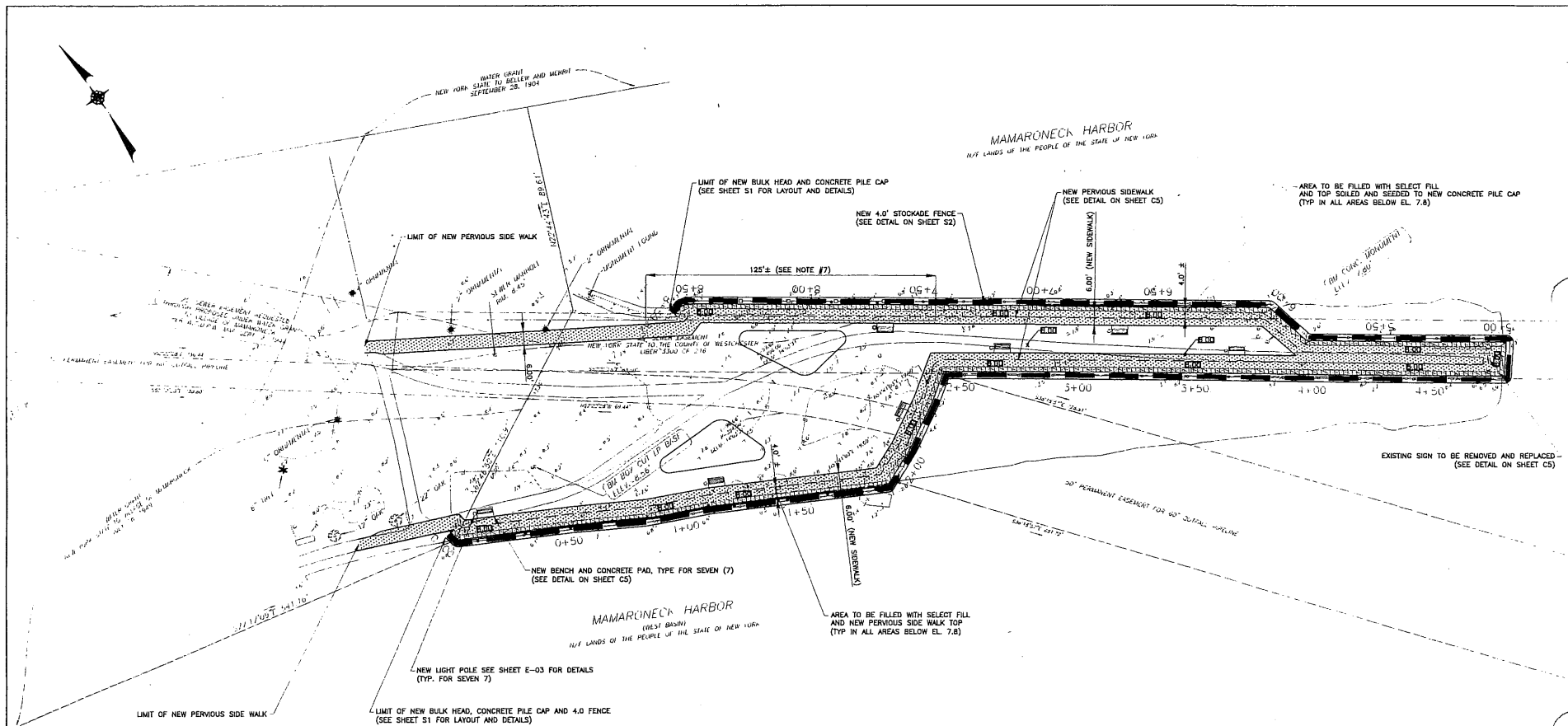
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NAME	DATE	NAME	DATE
SIGNATURE	DATE	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION



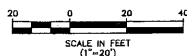
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NOTES:

1. PROTECT ALL EXISTING TREES DURING CONSTRUCTION.
2. PROTECT EXISTING LIGHT POLES DURING CONSTRUCTION. LIGHT POLES MAY BE TAKEN DOWN AND REINSTALLED AT END OF CONSTRUCTION. PRIOR TO PROJECT COMPLETION CONTRACTOR MUST DEMONSTRATE ALL LIGHT POLES ARE FUNCTION AS INTENDED.
3. TWO (2) EXISTING SIGNS ARE WITHIN PERMITTED WORK AREA. "NYS PERMITTED DISCHARGE SIGN" TO BE NEW AND REPLACED IN KIND. SEE DETAIL. "COUNTY PIER CLOSED-ENTER AT YOUR OWN RISK SIGN" TO BE REMOVED.
4. CONTRACTOR TO FURNISH AND INSTALL SEVEN (7) NEW BENCHES. FINAL LOCATION MUST BE APPROVED BY VILLAGE. SEE DETAIL FOR MODEL AND SPECS.
5. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES AND MONUMENTS WITHIN PROPOSED PERMITTED WORK AREA.
6. ALL DISTURBED AREA SHALL BE APPLIED WITH FOUR (4) INCHES OF TOPSOIL AND SEED.
7. EXISTING SECTION OF FENCE TO BE REINSTALLED AND TIED INTO NEW FENCE ALONG BULKHEAD CONCRETE PILE CAP.



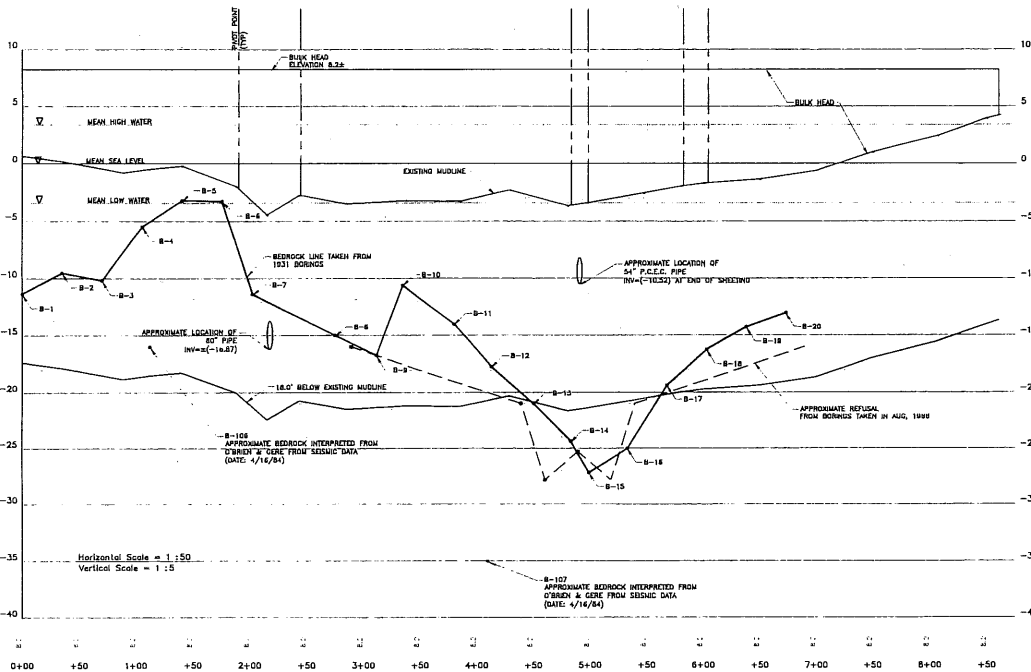
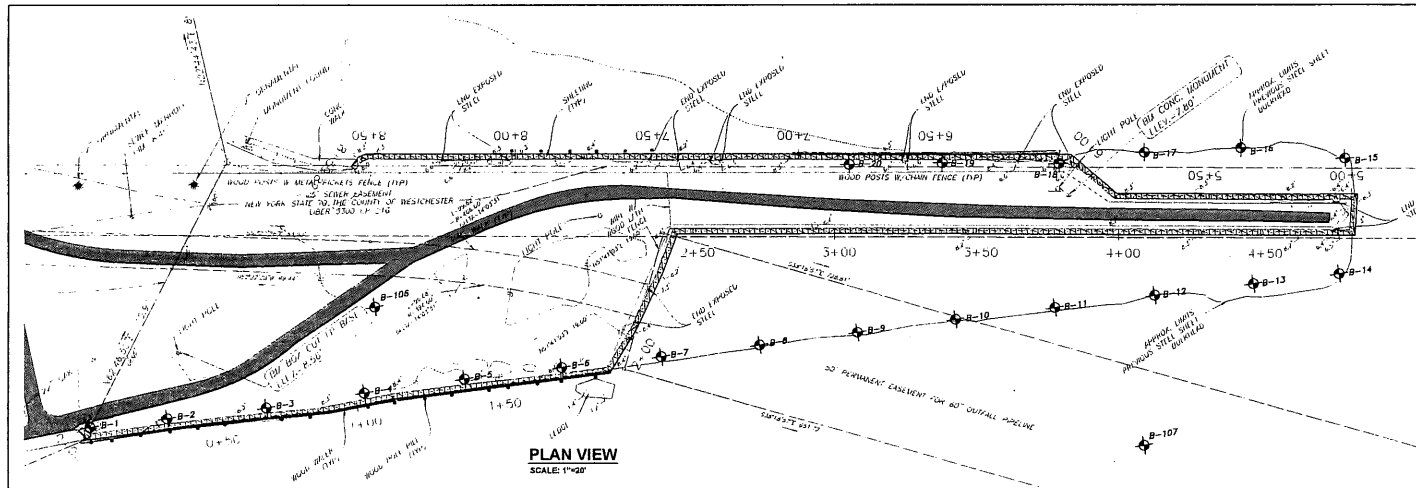
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NAME _____	NAME _____		
SIGNATURE _____	SIGNATURE _____		
TITLE _____	TITLE _____		

CONSULTANT SEAL		CONTRACT NUMBER 15-517	SHEET NUMBER C-03
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		SHEET NO. OF 	
OUTFALL JETTY REHABILITATION MAMARONECK WWTP WEST BOSTON POST ROAD, MAMARONECK, NEW YORK		SCALE 1"=20'	DATE APRIL 2015
CIVIL SITE PLAN		DPW FILE NO XXX-XX-C-XXX	REV NO 0



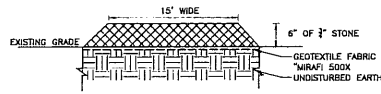
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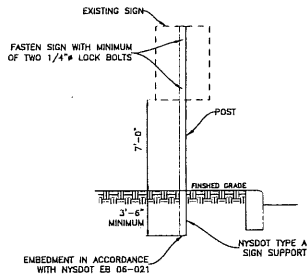
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<input type="checkbox"/>	AS BUILT - NO CHANGES	<input type="checkbox"/>	CONTRACTOR
NAME	SIGNATURE	NAME	SIGNATURE
TITLE	DATE	TITLE	DATE

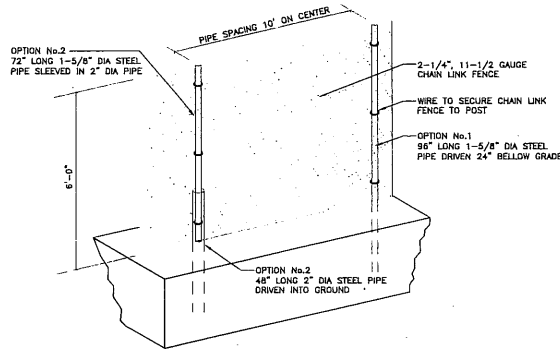
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING			
CONTRACT NUMBER	15-517	SHEET NUMBER	C-04
SHEET NO. OF		SCALE: AS SHOWN	
DATE		DATE	
APRIL 2016		APRIL 2016	
PROJECT TITLE		PROJECT TITLE	
EXISTING BULKHEAD PROFILE		XXX-XX-C-XXX	



TEMPORARY 15' CONSTRUCTION ROAD DETAIL
N.T.S.

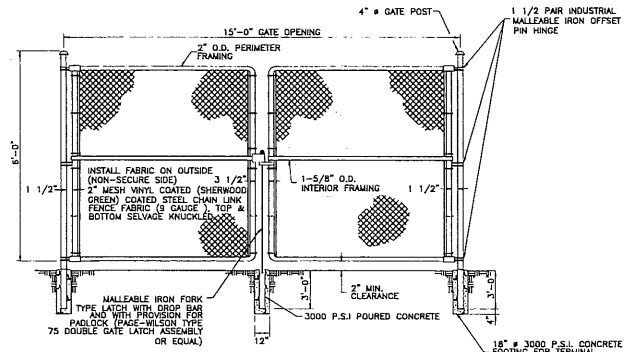


SIGN INSTALLATION DETAIL
N.T.S.



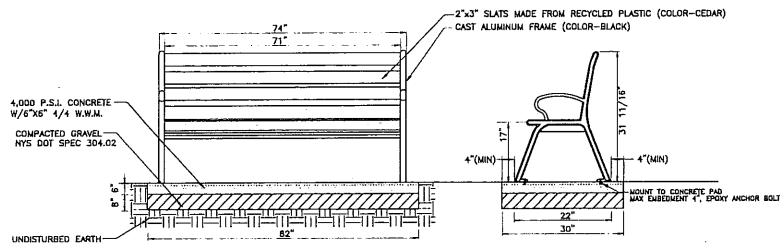
TEMPORARY CHAIN LINK CONSTRUCTION FENCE DETAIL
N.T.S.

NOTE: EITHER OPTION FOR TEMP CONSTRUCTION POST IS ACCEPTABLE



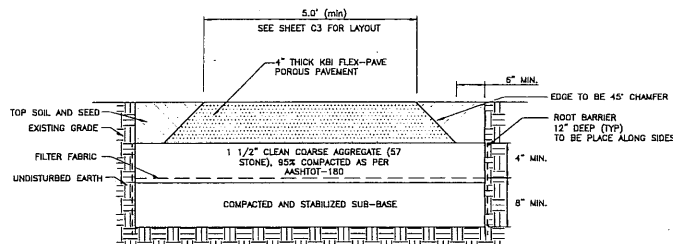
15' WIDE DOUBLE SWING GATE DETAIL
N.T.S.

SEE TEMPORARY FENCE FOR MATERIALS



BENCH DETAIL
N.T.S.

- NOTES:
- 1) MANUFACTURER (Dunbar, Inc.), DRAWING #57-50PL, DATED 12/02/09
 - 2) MODEL - HERITAGE CEDAR RECYCLED BENCH WITH CAST ALUMINUM FRAME
 - 3) ALL STEEL MEMBERS COATED W/ZINC RICH EPOXY THEN FINISHED W/POLYESTER POWDER COATING
 - 4) 1/2\"/>



PERVIOUS WALKWAY DETAIL
N.T.S.

- NOTES:
- 1) FILTER FABRIC MUST HAVE A PERMEABILITY GREATER THAN THE EXISTING SOIL BELOW
 - 2) SUBMIT SHOW DRAWINGS FOR APPROVAL
 - 3) COLOR TO BE APPROVED BY COUNTY AND VILLAGE.
 - 4) MANUFACTURED BY FLEX-PAVE.

CONSULTANT SEAL



WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

CONTRACT NUMBER: 15-517

SHEET NUMBER: C-05

SHEET NO. OF: 1

SCALE: AS SHOWN

DATE: APRIL 2016

DPW FILE NO: XXX-XX-C-XXX

REV: 0

OUTFALL JETTY REHABILITATION MAMARONECK IWWTP
WEST BOSTON POST ROAD, MAMARONECK, NEW YORK
CIVIL
DETAILS

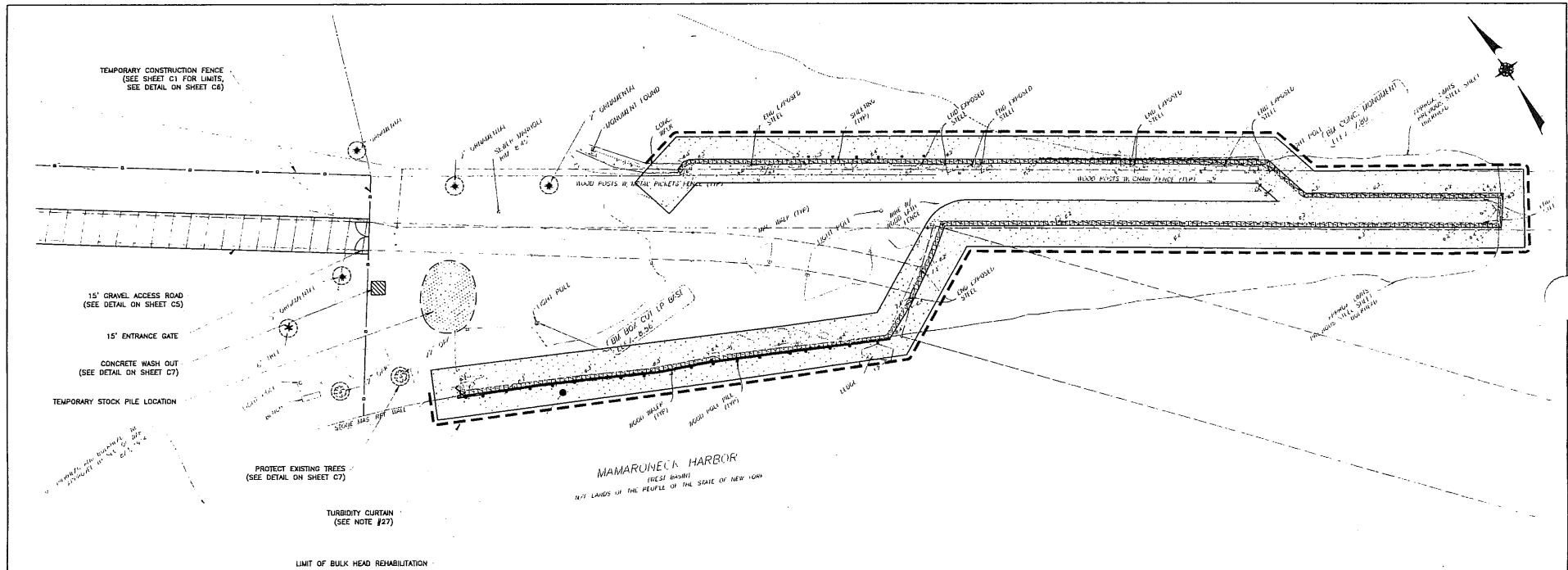
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<input type="checkbox"/>	AS BUILT - NO CHANGES	PROJECT COORDINATOR	SIGNATURE

APPLICANT: WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

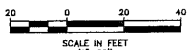


SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN.
2. ANY DISTURBED AREAS THAT WILL NOT RECEIVE PERMANENT RESTORATION WITHIN TEN (10) DAYS AFTER FINAL GRADING, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY COVER. THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
3. PERMANENT VEGETATION TO BE SEEDS ON SLOPES ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING, SUBJECT TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK.
5. A SUB-BASE COURSE DETAIL WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY GRADING.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E., STEEP SLOPES AND ROADWAY DIMANAGEMENTS) WILL RECEIVE A TEMPORARY COVER OF STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO NYS STANDARDS.
7. ANY STEEP SLOPES REQUIRING PIPELIFE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E., SLOPES GREATER THAN 3:1).
8. IN ACCORDANCE WITH THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDING PREPARATION.
9. THE VILLAGE OF MAMARONECK COUNTY, AND THE ENGINEER, SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.

10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROWTH COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE DEPLOYED.
11. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MAINTAIN DUST CONTROL. DIRT Haul ROADS SHALL BE SPRAWLED WITH WATER OR GIVEN A SURFACE OF CRUSHED STONES OR WOODCHIPS AS REQUIRED. VEHICLES SHALL BE CLEANED, AS NECESSARY, PRIOR TO USING PUBLIC STREETS. PAVED ROADS SHALL BE SPRINKLED WITH WATER.
12. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE LOCATED IN THE FIELD AS REQUIRED OR AT THE DISCRETION OF THE ENGINEER. THE CONTRACTOR DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION AND DETAILS FOR ALL SUCH DEVICES BUT ARE TO BE USED AS A REASONABLE GUIDE.
13. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE VILLAGE OF MAMARONECK AND THE ENGINEER. THE REVISED PLANS MUST BE PREPARED BY THE CONTRACTOR AND MUST MEET ALL CURRENT NYS SOIL EROSION AND SEDIMENT CONTROL PRACTICES.
14. CONTRACTOR SHALL OBTAIN ALL REQUIRED SEDIMENT CONTROL PERMITS.
15. UPON COMPLETION OF CONSTRUCTION WORK AND AFTER FINAL GRADING AND WHEN PERMANENT STABILIZATION HAS BEEN ESTABLISHED, SILT FENCES, SILT FENCES AND ALL OTHER SOIL PLAN APPOINTMENTS WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, UNLESS ORDERED TO REMAIN BY THE ENGINEER.
16. ALL EXCESS EXCAVATED MATERIAL, EXCEPT FOR TOP SOIL, WILL BE REMOVED FROM THE SITE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
17. CONDUIT OUTLETS AND CATCH BASIN INLETS MUST BE PROTECTED PRIOR TO START OF CONSTRUCTION.
18. THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION OPERATIONS FOR REVIEW AND SUBMITTAL TO THE VILLAGE OF MAMARONECK AND THE ENGINEER.
19. THE CONTRACTOR SHALL MEET ENGINEER ON-SITE TO DEFINE THOSE AREAS WHICH WILL REQUIRE SOIL EROSION AND SEDIMENT CONTROL FACILITIES, DISCUSS THEIR CONSTRUCTION AND INDICATED PROTECTIVE DETAILED PLANS FOR REVIEW OF SUCH FACILITIES BY THE VILLAGE OF MAMARONECK AND THE ENGINEER.
20. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE WHEN POSSIBLE PRIOR TO, OR IMMEDIATELY FOLLOWING SITE AND ACCESS CLEARING.

21. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE AND MAINTAINED, INCLUDING SILT AND SEDIMENT REMOVAL, UNTIL CONSTRUCTION IS COMPLETED, AREA STABILIZED AND THE ENGINEER SO ORDERS.
22. THE CONTRACTOR SHALL CONTINUE SOIL DISTURBANCE ACTIVITY TO THE AREAS CONTAINED WITHIN THE "LIMIT OF DISTURBANCE" LINES EXCEPT AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE AND COORDINATION WITH ADJACENT CONTRACTS. SUCH ACTIVITY SHALL ESSENTIALLY CONSIST OF CLEARING, GRUBBING, GRADING AND CONSTRUCTION IN AREAS DEFINED AS BUILDINGS, TANKS, PIPELINE, PARKING AREAS, DRIVES AND WALKWAYS OR AS MAY BE REQUIRED DUE TO GRADE CHANGES OR REDUCING WALLS.
23. ALL EXCAVATION OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. SEDIMENT FILTER SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE DETAILS OF DESIGN AND CONSTRUCTION SHALL BE PROVIDED AND SUBMITTED BY THE CONTRACTOR TO THE ENGINEER, AND ALL OTHER PERTINENT AGENCIES FOR REVIEW.
24. THE PROJECT IS ANTICIPATED TO BE COMPLETED WITHIN THE TIME ALLOTMENT IN THE PROJECT SCHEDULE AS SPECIFICALLY DESCRIBED IN THE CONTRACT DOCUMENTS.
25. SOIL STABILIZATION METHODS SHALL BE UNDERSTAND CONSIDERATELY WITH ALL MAJOR SITE IMPROVEMENTS AND CONTINUE DURING THE ENTIRE CONSTRUCTION ACTIVITY PERIOD.
26. THE LIMITS OF FENCING FOR TREE PROTECTION WILL BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION.
27. CONTRACTOR SHALL PROVIDE TURBIDITY CURTAINS/BARRIERS SUSPENDED FROM FLOPING DEVICES AND REACHED DOWN ALONG THE BOTTOM TO CONFINE SUSPENDED MATERIAL AND SILT. CURTAIN SHALL BE ANCHORED ON LAND AT TWO (2) TERMINATION POINTS AND SHALL BE PROVIDED WITH INTERMEDIATE TIDAL ANCHORS/BELTS. TURBIDITY CURTAINS SHALL BE TYPE 3 SILT BARRIERS BY GRANITE ENVIRONMENTAL, INC. OR APPROVED EQUAL. CONTRACTOR TO SUBMIT DETAILS FOR APPROVAL.
28. COMPLY WITH GENERAL PERMIT CR-0-15-002, AS OUTLINED IN THE STORM WATER PREVENTION PLAN (SWPPP).



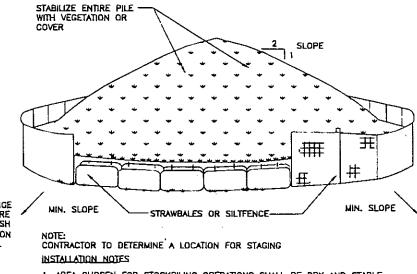
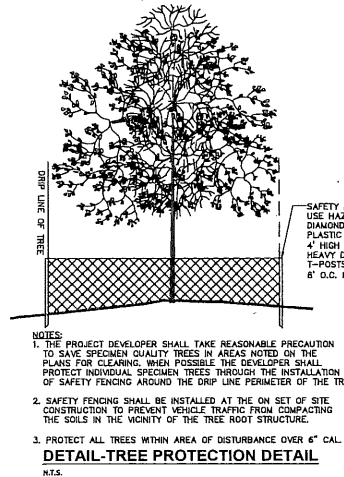
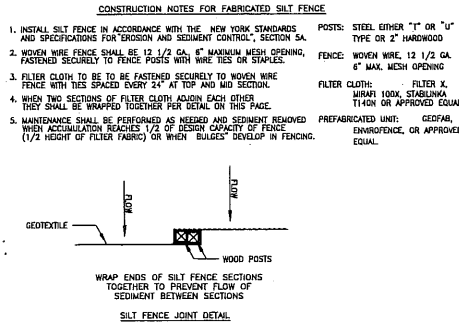
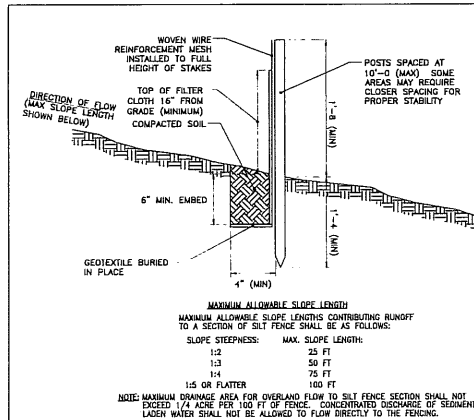
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____		
SIGNATURE _____	SIGNATURE _____		
TITLE _____	TITLE _____	DATE _____	DATE _____

CONSULTANT SEAL			CONTRACT NUMBER 15-517	SHEET NUMBER C-08
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING			SHEET NO. OF 	DATE APRIL 2016
OUTFALL JETTY REHABILITATION MAMARONECK WWTP WEST BOSTON POST ROAD, MAMARONECK, NEW YORK CIVIL		EROSION AND SEDIMENT CONTROL PLAN		DRW FILE NO. XXX-XX-C-XXX



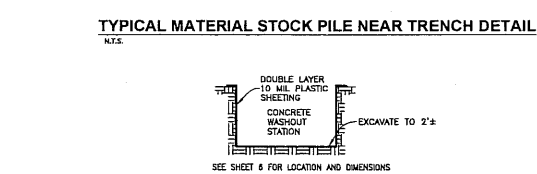
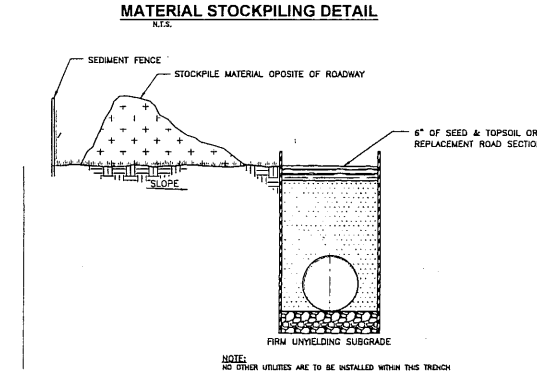
NOTE: CONTRACTOR TO DETERMINE A LOCATION FOR STAGING

INSTALLATION NOTES:

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
- SEE SILT FENCE DETAIL FOR INSTALLATION OF SILT FENCING.

MAINTENANCE:

PERIMETER SEDIMENT CONTROLS MUST BE MAINTAINED ACCORDING TO THE STANDARDS DESCRIBED IN THIS MANUAL. STOCKPILES AND FILL AREAS SHALL BE INSPECTED PERIODICALLY (I.E. WEEKLY) FOR SIGNS OF EROSION OR PROBLEMS WITH PLANT ESTABLISHMENT.



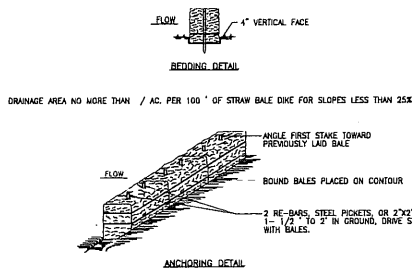
CONCRETE TRUCK WASHOUT SECTION DETAIL
N.T.S.

CONSULTANT SEAL

D&B ENGINEERS AND ARCHITECTS, P.C.

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		CONTRACT NUMBER 15-517	SHEET NUMBER C-07
OUTFALL JETTY REHABILITATION MANARONECK W/MTW WEST BOSTON POST ROAD, MANARONECK, NEW YORK CIVIL		SHEET NO. OF DATE APRIL 2016	SCALE: AS SHOWN
EROSION AND SEDIMENT CONTROL DETAILS		DRW FILE NO. XXX-XX-C-XXX	REV NO 0

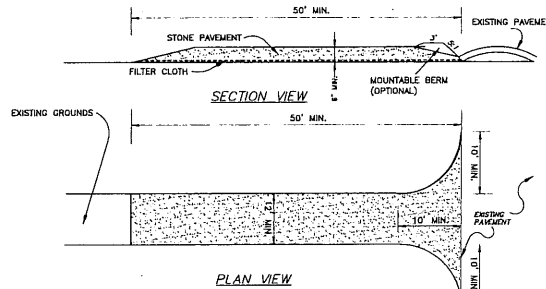
SEDIMENT CONTROL FENCE INSTALLATION DETAIL
N.T.S.



- CONSTRUCTION SPECIFICATIONS**
- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDING ARE HORIZONTAL.
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED
 - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS AS NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

STAW BALE DIKE DETAIL
N.T.S.

NOTE: TO BE USED FOR EMERGENCY STABILIZATION, EROSION CONTROL OR TEMPORARY SEDIMENT CONTROL FENCE REPAIR



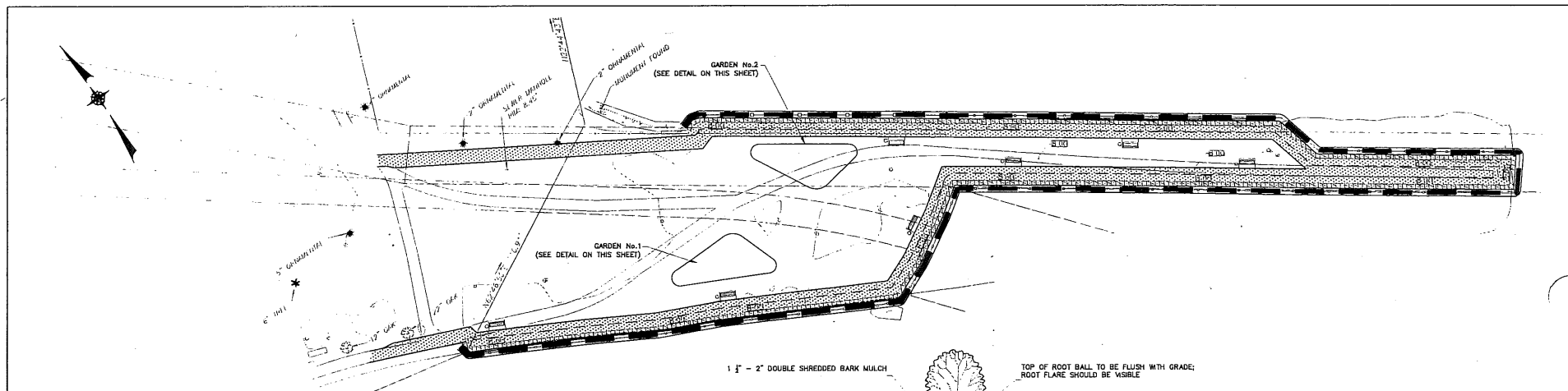
- CONSTRUCTION SPECIFICATIONS**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
 - THICKNESS - NOT LESS THAN (4) INCHES.
 - WIDTH - TWELVE (12) MINIMUM, BUT NOT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

STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.

RECORD DRAWING CERTIFICATION				CONTRACTOR		PROJECT COORDINATOR	
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				NAME _____		NAME _____	
				SIGNATURE _____		SIGNATURE _____	
				DATE _____		DATE _____	
				TITLE _____		TITLE _____	

IN CHARGE OF	RJD	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW
CHECKED BY	RCD	
MADE BY	GEO	

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION



PLANT NOTES:

- ALL PLANT MATERIALS SHALL BE NURSERY GROWN AND CONFORM TO A.A.N. "AMERICAN STANDARDS FOR NURSERY STOCK".
- THE CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH LOCATION OF MECHANICAL EQUIPMENT AND UTILITIES, EXISTING OR PROPOSED, IN THE AREAS TO BE PLANTED.
- VERIFY ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- STAKE OUT LOCATION OF NEW PLANTS AND OBTAIN APPROVAL BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- PLANT MATERIAL SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEER AT THE NURSERY AND AT THE SITE BEFORE PLANTING IS BEGUN.
- ALL PLANT BEDS AND TREE SAUCERS SHALL RECEIVE 2" OF DOUBLE SHREDED BARK MULCH IN ACCORDANCE WITH ATTACHED PLANT DETAILS.
- ALTERNATELY SPACE ("STAGGER") PLANTS IN BEDS UNLESS OTHERWISE NOTED.
- SCARIFY ROOT BALLS REMOVED FROM CONTAINER GROWN STOCK PRIOR TO PLANTING.
- NO PLASTIC, NON-ROT BURLAP OR TWINE SHALL BE USED ON THE PROJECT.
- EXISTING PLANT MATERIALS SO INDICATED TO REMAIN AND BE PROTECTED WHICH ARE INJURED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AND SHALL BE OF THE SAME SIZE AND VARIETY AS THOSE DESTROYED OR DAMAGED.
- NO EXISTING TREES ARE TO BE REMOVED UNLESS AS NOTED ON THE DRAWINGS AND APPROVED BY THE ENGINEER AND OWNER.
- NO SUBSTITUTIONS TO BE MADE WITHOUT WRITTEN APPROVAL BY THE ENGINEER.
- ALL PLANTS PITS TO BACKFILL WITH 2 PARTS EXCAVATED TOPSOIL MIXED WITH ONE PART COMPOST AND BIOSTIMULANT (PLANT HEALTH CARE INC. BISHOP, ROOTSAVER OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS SUGGEST SOURCE OF COMPOST AND BIOSTIMULANT PRODUCT FOR APPROVAL.
- ALL PLANT MATERIAL TO BE CLIMATED FOR 2 YEARS FROM DATE OF INSTALLATION AND WRITTEN ACCEPTANCE BY ENGINEER.
- PROJECT SITE SHALL BE KEPT WEED FREE DURING THE CONTRACT PERIOD.
- CONTRACTOR SHALL REMOVE WEEDS, PRUNE DEAD LIMBS & BRANCHES, STRAIGHTEN TREES SHIFTED BY WIND, REPLACE DEAD OR INJURED PLANTS AS REQUIRED, ADD MULCH, AND BEND LINES RE-CUTTING AS REQUIRED.
- IF NO IRRIGATION IS TO BE INSTALLED, CONTRACTOR SHALL MANUALLY IRRIGATE ALL PLANTINGS AND SEEDED AREAS EQUIVALENT TO 1.5" OF RAIN PER WEEK THROUGHOUT THE CONTRACT PERIOD (INCLUDING RAINFALL).

SEEDING NOTES:

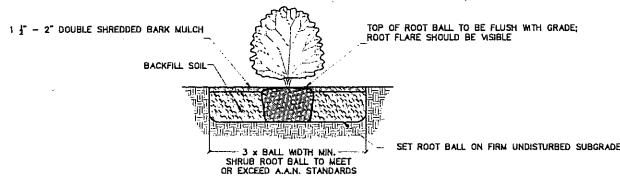
- APPROVED SEEDING WINDOWS:
- APRIL 1st - MAY 31st
- AUGUST 1st - OCTOBER 15th (Preferred Window)
- AREAS TO BE SEEDDED SHALL HAVE A MINIMUM OF 4 INCHES OF PLANTING SOIL MIX, SEE SPECIFICATIONS.
- ALL SEED BEDS SHALL BE SOIL TESTED FOR pH AND NUTRIENTS, VERIFY RESULTS WITH LANDSCAPE ARCHITECT.
- FERTILIZE AS PER LABORATORY RECOMMENDATIONS, WITH A 10 - 8 - 4 SLOW RELEASE NITROGEN FERTILIZER CONSISTING OF 50% MIN. ORGANIC NITROGEN AND 50% MIN. WATER INSOLUBLE NITROGEN.
- ADJUST pH, AS RECOMMENDED BY LABORATORY, WITH EITHER PELLETED DOLOMITE LIMESTONE OR FERROUS SULFATE AT LABORATORY RECOMMENDED RATES.
- SEED BED SHALL BE LOOSENEED TO A DEPTH OF 8 INCHES.
- ALL SEED BEDS SHALL BE WEED-FREE AND RAKED FREE OF DEBRIS (COVER 1 INCH DIAMETER) AND DISPOSED OF OFF SITE.
- CONTRACTOR TO VERIFY ALL FINAL GRADING HAS BEEN COMPLETED PRIOR TO SEEDING.
- ALL SEED BEDS SHALL BE SEEDDED WITHIN 24 HOURS OF PREPARATION.
- ALL SEEDING SHALL BE APPLIED WITH AN ENGINEERED WOOD FIBER HYDROMULCH (SEE SPECIFICATIONS). CONTRACTOR SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION. CONTRACTOR SHALL REVIEW METHOD OF INSTALLATION WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SEED BED SHALL BE IRRIGATED AND MAINTAINED MOIST UNTIL GERMINATION AND ESTABLISHMENT.
- ONCE SEED BEDS HAVE BEEN SEEDDED, ALL ACCESS (PEDESTRIAN AND VEHICULAR) SHALL BE RESTRICTED. CONTRACTOR SHALL TEMPORARILY CORDON OFF ACCESS WITH FENCING, FLAGGING, BARRIERS, ETC.
- CONTRACTOR RESPONSIBLE FOR MIN. 8% SEED ESTABLISHMENT AND MAINTENANCE, RE-SEED ANY BARE SPOTS AS REQUIRED TO MAINTAIN SOIL COVERAGE.

SEED MIX - LOW MAINTENANCE TURF MIX

"ECO-LAWN" SEED MIX AS PRODUCED BY: WILDFLOWER TURF INC.
10155 HWY. 12 WEST
P.O. # 2 COLDWATER, ON LOK 1E2
1 (866) 476-5453
OR APPROVED EQUAL

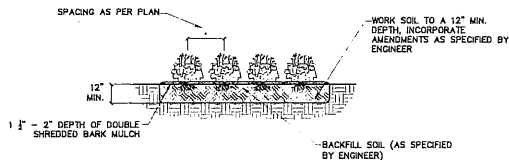
Rate: 220 Pounds per Acre or 5 Pounds per 1,000 Sq.Ft.

- 20 % Festuca rubra ssp. rubra 'Navigator' (Navigator Creeping Red Fescue)
- 20 % Festuca rubra ssp. rubra 'Shantina' (Shantina Slender Creeping Red Fescue)
- 15 % Festuca rubra ssp. commutata 'Longleaf II' (Longleaf II Creeping Fescue)
- 15 % Festuca ovina var. ovina 'Aroy' (Aroy Sheep Fescue)
- 10 % Festuca brevipila 'Quail' (Quail Hard Fescue)
- 10 % Festuca brevipila 'Beacon' (Beacon Hard Fescue)
- 10 % Festuca rubra ssp. rubra 'SR3250' (SR3250 Creeping Red Fescue)



SHRUB PLANTING DETAIL

N.T.S.

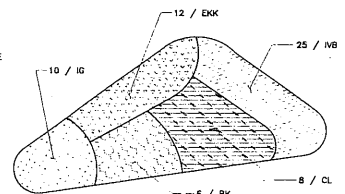


GROUND COVER PLANTING DETAIL

N.T.S.

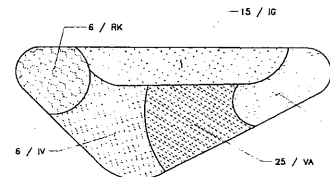
PLANT LIST				
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
12	RK	Rosa 'Youellii'	Rose Rabbittree (Yellow)	2 1/2"
20	IK	Trifolium repens/patens	Lemon Clover	2 1/2"
42	VB	Vicia vesicaria	Wine Flagg	2 1/2"
12	BKK	Burkholderia purpurica 'Wild's Knee High'	Great Purple Cane Flower	4 1/2"
4	CS	Calluna vulgaris	Heather	2 1/2"
12	IG	Ilex Glabra	Galberry, Umberry	1 1/2"
4	IB	Ilex verticillata	Winterberry	2 1/2"

NOTE: LANTING HEIGHT INDICATED WITH PLANT TYPE.



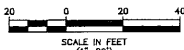
GARDEN No.1 DETAIL

N.T.S.



GARDEN No.2 DETAIL

N.T.S.



IN CHARGE OF: RJD
CHECKED BY: RCD
MADE BY: GEO

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

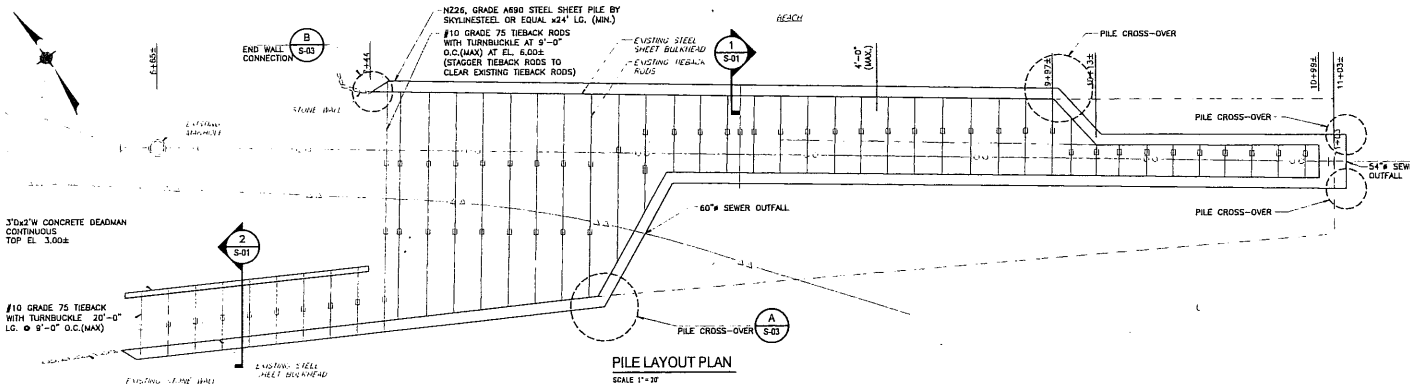
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CONSULTANT SEAL

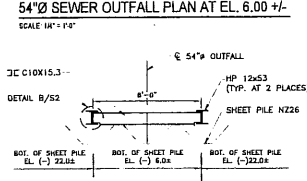
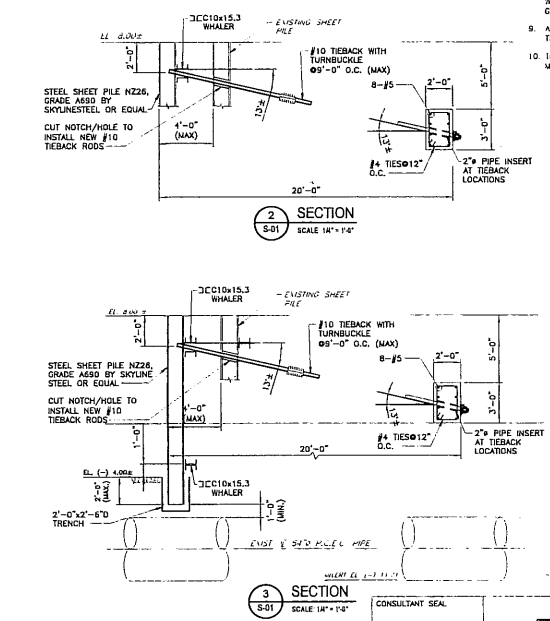
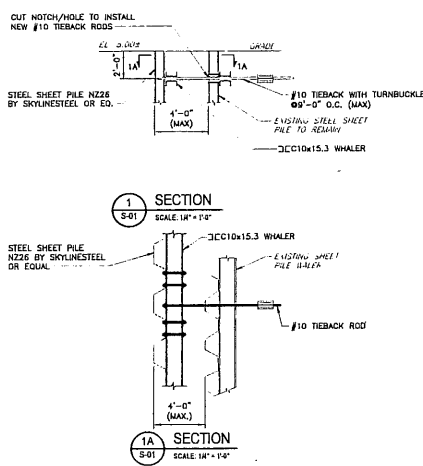
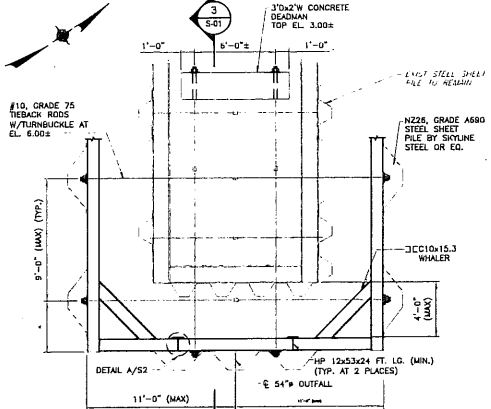
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

OUTFALL JETTY REHABILITATION MAMARONECK WWTP
WEST BOSTON POST ROAD, MAMARONECK, NEW YORK

CONTRACT NUMBER: 15-S17 SHEET NUMBER: C-08
SHEET NO. OF: _____
SCALE: AS SHOWN
DATE: APRIL 2016
DWG FILE NO: _____ REV NO: 0
XXX-XX-C-XXX



- LEGEND**
- EXISTING SHEET PILE TO EL. -8.00
 - EXISTING STEEL SHEET PILE CUT OFF TO EL. +7.00
 - EXISTING STEEL SHEET PILE CUT OFF TO MUD LEVEL
 - EXISTING 6" O.D. 54" COP SEWER LINE
 - EXISTING 6" O.D. 60" MSCP SEWER LINE
 - NEW SHEET PILE TO EL. -8.00
- NOTES**
1. CONTRACTOR TO FIELD VERIFY THE ACTUAL LOCATION AND ELEVATION OF THE EXISTING 60" DIA. SEWER OUTFALL PIPE PRIOR TO SHEET PILING INSTALLATION.
 2. EXCAVATE A 2'-0"x2'-6" TRENCH ABOVE THE EXISTING SEWER LINE BETWEEN THE TWO HP 12x53 PILES. CAREFULLY INSERT THE SHEET PILES INTO THE TRENCH AND ATTACH THEM TO THE WALERS. BACKFILL THE TRENCH WITH THE SELECT FILL AFTER THE SHEET PILES ARE IN PLACE.
 3. CONTRACTOR SHOULD EXERCISE CAUTION TO NOT DESTROY OR DAMAGE THE EXISTING SEWER LINES, SHEET PILING, TE RODS, TRUSSER PILES ECT. DURING THE NEW STEEL PILING INSTALLATIONS.
 4. STEEL SHEET PILES AND H PILES SHALL CONFORM TO ASTM A690.
 5. TE RODS, TURNBUCKLE ASSEMBLIES SHALL BE OF GRADE 75.
 6. ALL STRUCTURAL MEMBERS, WHALERS, TE-ROD ASSEMBLIES SHALL BE HOT-DIP GALVANIZED.
 7. ALL BOLTS, NUTS, WASHERS, ANCHOR RODS SHALL BE STAINLESS STEEL.
 8. PAINT ALL TIEBACK RODS AND TURNBUCKLE ASSEMBLIES WITH 2 COATS OF GENERAL PURPOSE BITUMEN PAINT BY GECO. OR EQUAL. FOLLOW MANUFACTURER'S INSTRUCTIONS.
 9. ALL SHEET PILES, H-PILES SHALL BE DRIVEN TO MINIMUM TP ELEVATION (-16.00).
 10. THE ALL PILING SHALL BE INSTALLED PER MANUFACTURER'S GUIDELINES.



WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

OUTFALL JETTY REHABILITATION MAMARONECK WWTP
WEST BOSTON POST ROAD, MAMARONECK, NEW YORK

STRUCTURAL
DETAILS I

CONTRACT NUMBER: 15-517
SHEET NUMBER: S-01

SHEETING OF SCALE: AS SHOWN
DATE: DATE
DATE: DATE
DW FILE NO: XXX-XX-S-XXX
REV: 0

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

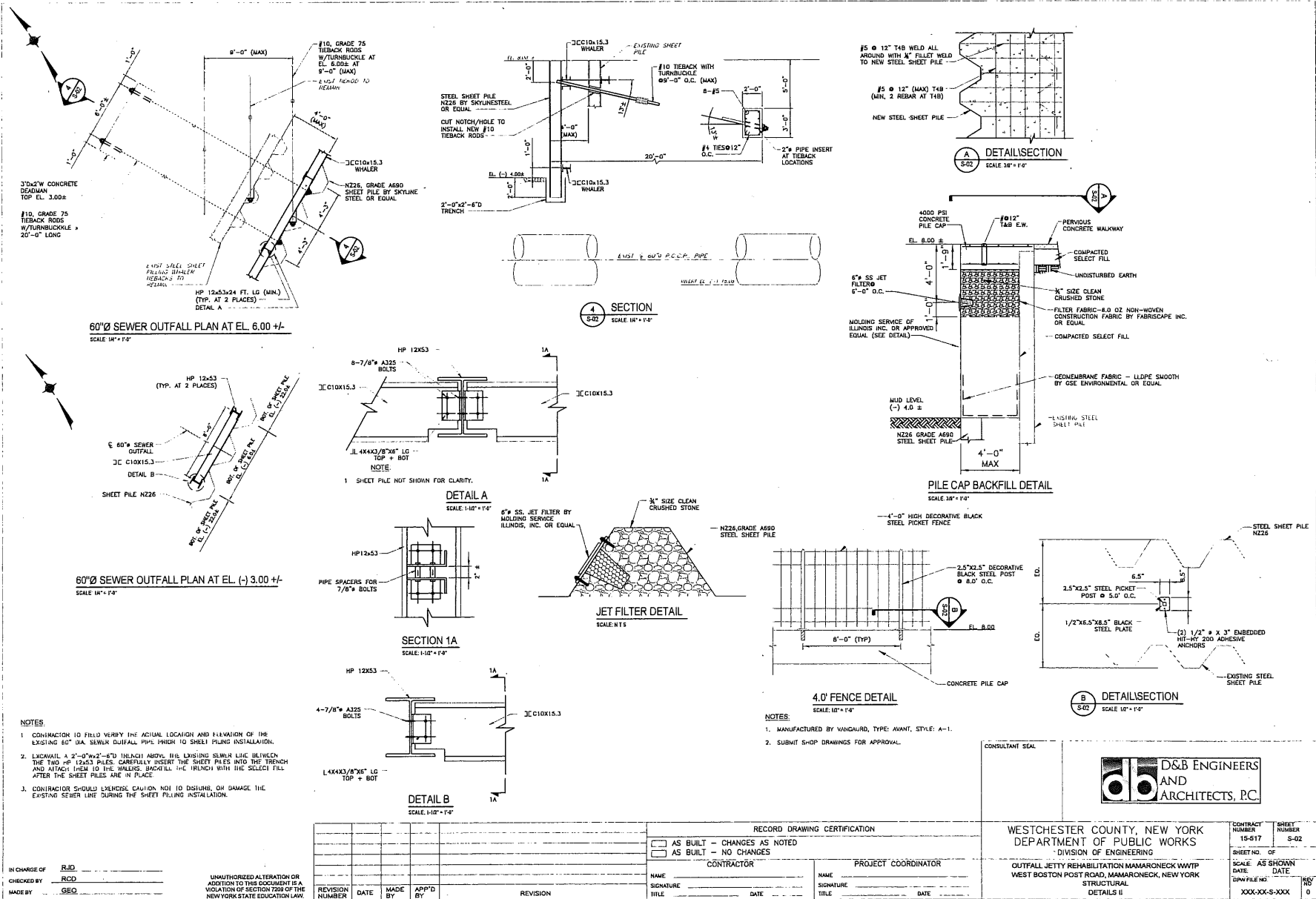
CONTRACTOR
NAME: _____ TITLE: _____
SIGNATURE: _____ DATE: _____

PROJECT COORDINATOR
NAME: _____ TITLE: _____
SIGNATURE: _____ DATE: _____

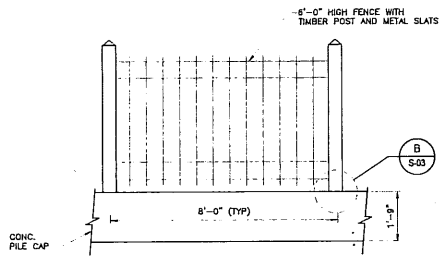
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IN CHARGE OF: RJD
CHECKED BY: ROD
MADE BY: GEO

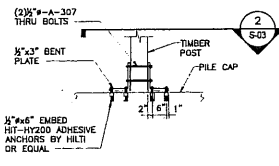
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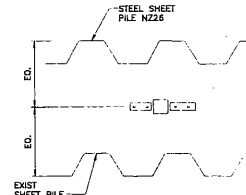
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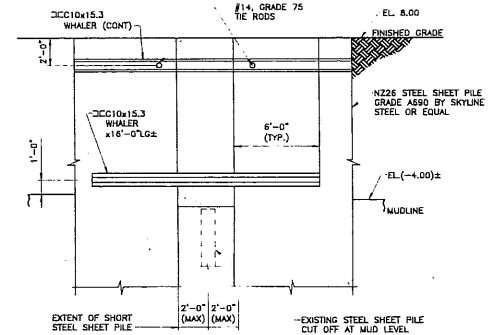
6'-0" FENCE DETAIL
SCALE 1/2" = 1'-0"



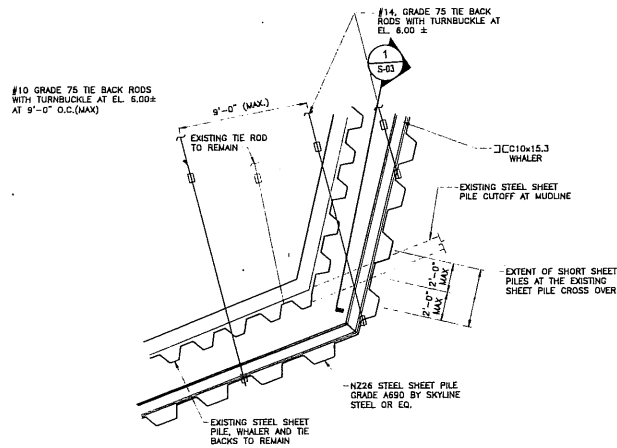
DETAIL
SCALE 1/2" = 1'-0"



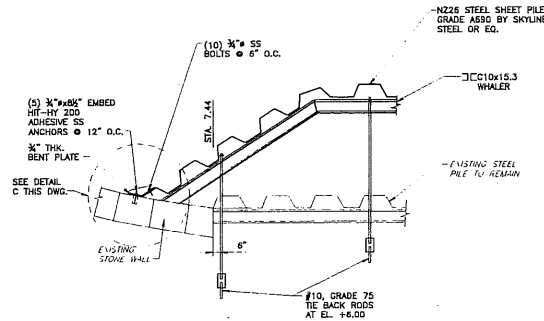
SECTION
SCALE 1/2" = 1'-0"



SECTION
SCALE 1/2" = 1'-0"

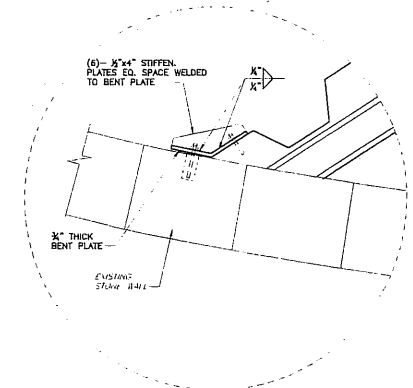


PLAN



PLAN

END WALL CONNECTION
SCALE 1/4" = 1'-0"



DETAIL
SCALE 1/2" = 1'-0"

NOTES
CONTRACTOR TO FIELD VERIFY THE ACTUAL LOCATION AND ELEVATION OF THE EXISTING STEEL SHEET PILE CUT OFF AT MUD LEVEL.

STEEL SHEET PILE CROSS-OVER DETAIL
SCALE 1/4" = 1'-0"

CONSULTANT SEAL			CONTRACT NUMBER 15-517	SHEET NUMBER S-03
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING			SHEET NO. OF	SCALE: AS SHOWN
OUTFALL JETTY REHABILITATION MAMARONECK WWTP WEST BOSTON POST ROAD, MAMARONECK, NEW YORK STRUCTURAL DETAILS III		DATE	DATE	REV NO 0

RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE	DATE
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

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