



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-2019-00616
Issue Date: JUN 10 2019
Expiration Date: JUL 10 2019

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: Port Authority of New York and New Jersey
c/o Marc Helman
4 World Trade Center
20th Floor, 150 Greenwich St.
New York, New York 10007

ACTIVITY: Ten (10) year maintenance dredging with return flow to the Hudson River.

WATERWAY: Hudson River (Hudson River Watershed)

LOCATION: City of New York, New York 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.

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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 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

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Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. 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 or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation
- New York State Department of State
- New York City Department of City Planning

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) 790-8520 or Katherine.Pijanowski@usace.army.mil and ask for Katherine Pijanowski.

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, Port Authority of New York and New Jersey has requested Department of the Army authorization for 10-year maintenance dredging in the Hudson River, City of New York, New York County, New York.

The work would involve: The hydraulic dredging of approximately 2,600 cubic yards of material to elevation -26.45 NAVD88 beneath 6,841 square feet of a pile supported esplanade and within water intake tunnels. The material would be placed in a scow and allowed to settle for a minimum of 24 hours before being decanted. The decanted water would then be returned to the Hudson River. The applicant proposes to transport the dredged material to a State Approved Upland Facility.

To access intake tunnels for sediment removal, the security gate and trash racks would be temporarily removed and reinstalled immediately after the dredging of each intake tunnel. The intake tunnels would be dredged one at a time.

The applicant proposes a total of three (3) dredge events over a ten year period, each removing up to 2,600 cubic yards of material, for a total of 7,800 cubic yards of dredged material. Each dredge event would be authorized to elevation -26.45 NAVD88 with no over depth.

The applicant has not proposed mitigation for the proposed activity.

The stated purpose of this project is to maintain proper operation of the World Trade Center River Water Intake Station.

THE PORT AUTHORITY OF NY & NJ

**NEW YORK MARINE TERMINALS
MAINTENANCE DREDGING
VIA WORK ORDER**

(W.O. NO. 001)

CONTRACT No. MFP-924.650

100% SUBMISSION
05/06/2019

No.	Date	Revision	Approved

CHIEF OF DESIGN
E/A DESIGN DIVISION

DATE

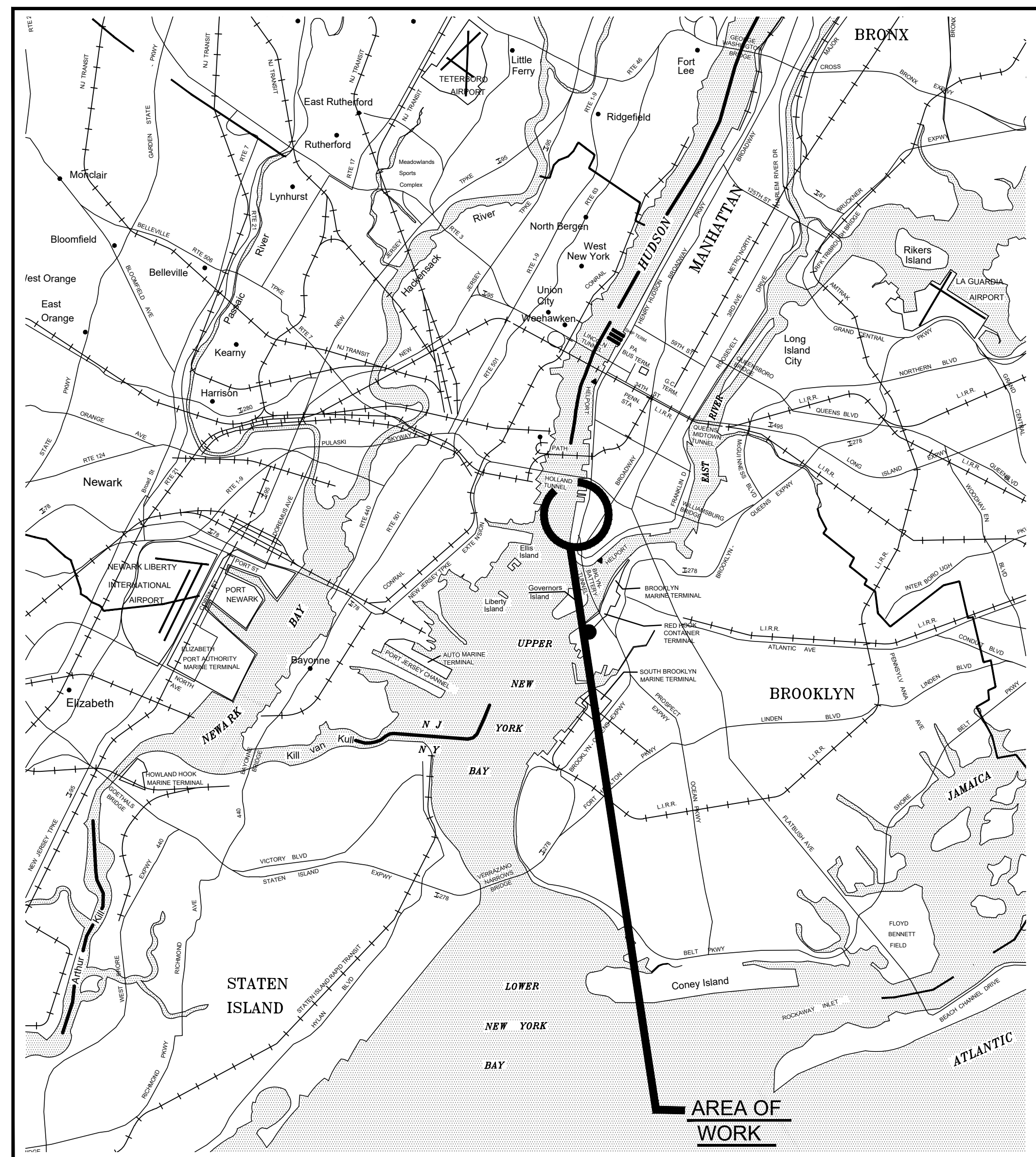
SR. PROGRAM MANAGER / PROGRAM MANAGER

DATE

Drawing
Number

G001

PID# 19982000

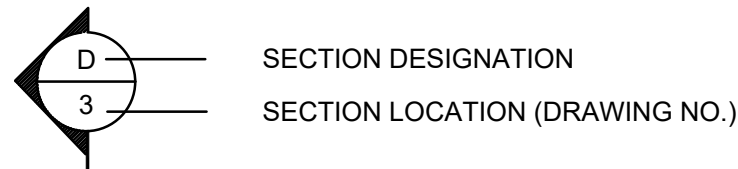


LOCATION MAP

N.T.S.

ABBREVIATIONS:

H.R.R.F.	HUDSON RIVER RESOURCES FACILITY
R.E.O.	RESIDENT ENGINEER OFFICE
B.P.C.	BATTERY PARK CITY
W.T.C.	WORLD TRADE CENTER
M.H.W.	MEAN HIGH WATER
DIA.	DIAMETER
DWG.	DRAWING
M.L.W.	MEAN LOW WATER
ELEV.	ELEVATION
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
SIMD	STATEN ISLAND MARINE DEVELOPMENT
NGVD29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NAD83	NORTH AMERICAN DATUM OF 1983



INDEX OF DRAWINGS	
DWG. NO	TITLE
G001	TITLE SHEET
GT001	LOCATION MAP, INDEX OF DRAWINGS, LEGEND, ABBREVIATIONS AND GENERAL NOTES
GT002	SITE PLAN
GT003	SEDIMENT REMOVAL LOCATION PLAN
GT004	PROFILE AND SECTION
S001	SCREEN UNIT REMOVAL DETAILS AND NOTES

GENERAL NOTES:

- HORIZONTAL CONTROL
HORIZONTAL COORDINATES ARE BASED ON THE STATE PLANE NAD 83 NEW YORK EAST.
- VERTICAL CONTROL
A. MEAN LOW WATER (M.L.W.) DEFINED AS FACILITY ELEVATION 295.87 IS 2.58 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- NO LANDSIDE AREA WILL BE AVAILABLE TO THE CONTRACTOR. BARGE SHALL BE POSITIONED A MINIMUM DISTANCE OF 15 FEET FROM THE SEA WALL AND TIED DOWN VIA SPUDS. TYING DOWN TO THE PIER WILL NOT BE PERMITTED.
- ALL SEDIMENT REMOVAL OPERATIONS SHALL BE CONDUCTED BY DIVERS UTILIZING THE AIR-LIFT AND/OR JET-LIFT DREDGE METHODS AND SHALL BE IN CONFORMANCE WITH SPECIFICATION SECTION 350151, ENTITLED "SUCTION DREDGING - NO BARGE OVERFLOW PERMITTED".
- PERFORM SEDIMENT REMOVAL IN FRONT OF AND INSIDE THE RIVER WATER PUMP STATION INTAKE STRUCTURES. REMOVE SEDIMENT MATERIAL IN FRONT OF THE INTAKE STRUCTURES FIRST TO THE LIMITS SHOWN ON THE CONTRACT DRAWINGS. SEDIMENT REMOVAL SHALL BE PERFORMED IN TWO (2) FOOT LIFTS FROM THE TOP OF THE SEDIMENT TO THE TOP OF CONCRETE MUD SLAB. ADJACENT TO MUD SLAB, REMOVE SEDIMENT IN TWO (2) FOOT LIFTS TO A H1.5:V1 SLOPE OR TO RIPRAP/STONE, WHICHEVER IS ENCOUNTERED FIRST..
- REMOVAL OF SEDIMENT FROM INSIDE THE INTAKE STRUCTURES SHALL BE PERFORMED SEQUENTIALLY, ONE AT A TIME. ACCESS EACH INTAKE STRUCTURE FROM THE WATER SIDE BY REMOVING A SECTION OF THE SCREEN UNIT. THE SCREEN UNIT SHALL BE REINSTALLED AFTER REMOVAL OF ALL SEDIMENT INSIDE EACH INTAKE STRUCTURE. THE REMOVAL AND REINSTALLATION OF SCREEN UNIT SHALL BE AS SHOWN ON CONTRACT DRAWING S001. COORDINATE ACCESS TO INTAKE STRUCTURES WITH W.T.C. OPERATIONS AND R.E.O.
- THE SEDIMENT MATERIAL CONSISTS OF LAYERS OF LIGHT SEDIMENT FOR THE FIRST SEVERAL FEET, FOLLOWED BY COMPACTED MUD BELOW THE LIGHT SEDIMENT AND SOME OCCASIONAL SAND AND GRAVEL. SOME CONSTRUCTION DEBRIS USED FOR PILE JACKETING IS ALSO PRESENT.
- DREDGE SCOWS MAY BE LOADED TO ONLY ONE FOOT BELOW THE GUNWALE TO PRECLUDE ANY ACCIDENTAL BARGE OVERFLOW. THERE SHALL BE NO OVERFLOW FROM THE DREDGE SCOWS.
- DECANTING SHALL TAKE PLACE NO LESS THAN 24 HOURS AFTER THE DREDGED MATERIAL HAS BEEN PUMPED INTO THE SCOW. AFTER DECANTING, ADDITIONAL DREDGE MATERIAL CAN BE PLACED IN THE THE BARGE IF ADEQUATE SPACE IS AVAILABLE.
- TURBIDITY CURTAINS SHALL NOT BE USED DUE TO HIGH TIDAL CURRENT VELOCITIES AT THE PROJECT SITE.
- PRIOR TO START OF DREDGING, THE CONTRACTOR SHALL VERIFY THE LIMITS OF DREDGING WITH THE ENGINEER.
- TWO WEEKS PRIOR TO START OF THE WORK, THE CONTRACTOR SHALL SUBMIT DETAILS OF HIS DREDGING EQUIPMENT AND PROCEDURES TO THE ENGINEER FOR APPROVAL PER ITEM 3.01.B.3 OF SPECIFICATION NO. 350151.
- THE AREAS OF DREDGING CONTAIN DEBRIS, SEDIMENT AND SOILS. PER THE REQUIREMENT OF SPECIFICATION NO. 350151, THE DREDGED MATERIALS SHALL BE PLACED IN A BARGE AND TRANSPORTED TO A PROCESSING FACILITY CAPABLE OF REMOVING DEBRIS, DECANTING WATER, AND PROCESSING THE SEDIMENT AND SOILS FOR UPLAND PLACEMENT. ALL DEBRIS SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL FACILITY. DEBRIS WHICH CANNOT BE REMOVED BY SUCTION DREDGING METHODS SHALL BE REMOVED BY OTHERS APPROVED METHODS AND PAID FOR BY NET COST, AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR WILL BE PROVIDED A MINIMUM OF 30 DAYS FROM ISSUANCE OF EACH WORK ORDER TO COMMENCE DREDGING, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- ALL PROCESSED DREDGED MATERIAL, EXCEPT DEBRIS, SHALL BE DISPOSED OF AT THE H.R.R.F. IN STATEN ISLAND, NY 10314, PER SPECIFICATION SECTION NO. 350151. THE CONTRACTOR SHALL TRANSPORT, DELIVER AND PLACE THE PROCESSED DREDGED MATERIAL AT THE H.R.R.F. NO SUBSTITUTIONS FOR DISPOSAL FACILITY FOR PROCESSED DREDGE MATERIAL WILL BE PERMITTED. THE TIPPING FEE FOR THE DISPOSAL OF PROCESSED DREDGE MATERIAL AT H.R.R.F. WILL BE PAID BY THE AUTHORITY. PROCESSED DREDGE MATERIAL NOT ACCEPTABLE FOR PLACEMENT AT H.R.R.F. FACILITY SHALL BE DISPOSED OF PER ITEM 3.06 OF SPECIFICATION NO. 350151.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND/OR A H.R.R.F. REPRESENTATIVE THE ACCESS TO THE PROCESSING SITE FOR THE SAMPLING OF THE PROCESSED MATERIAL PRIOR TO TRANSPORTATION TO THE H.R.R.F. PER ITEM 3.06 OF SPECIFICATION NO. 350151. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE ENGINEER FOR COLLECTION OF POST-DREDGE SAMPLING AS REQUIRED BY THE PERMITS, NYS DEC, OR OTHER REGULATORY AGENCIES.
- THE POINT OF CONTACT PERSON FOR THE H.R.R.F. IS TONY SEQUENZIA, VICE PRESIDENT, 201 BOWARD CURRY AVE, SUITE 108, STATEN ISLAND, NY 10314, OFFICE PHONE 214-435-2350.

NET COST ITEMS:

WHEN AND AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK AND WILL BE COMPENSATED AT THE NET COST THEREOF, AS DEFINED BELOW:

- COST DUE TO UNANTICIPATED SCHEDULE CHANGES IN TENANT OPERATION REDUCING AVAILABILITY OF DREDGE SITE.
- TRANSPORTATION AND DISPOSAL OF PROCESSED DREDGED MATERIAL UNACCEPTABLE AT H.R.R.F.
- REMOVAL OF DEBRIS NOT PICKED UP BY SUCTION DREDGING.
- REPLACE DAMAGED OR DETERIORATED COMPONENTS OF THE SCREEN UNIT.

"NET COST" SHALL BE COMPUTED IN THE SAME MANNER AS IS COMPENSATION FOR EXTRA WORK, INCLUDING ANY PERCENTAGE ADDITION TO COST, AS SET FORTH IN THE CLAUSE OF THE CONTRACT ENTITLED, "COMPENSATION FOR EXTRA WORK." PERFORMANCE OF SUCH NET COST WORK SHALL BE AS DIRECTED BY THE ENGINEER AND SHALL BE SUBJECT TO ALL PROVISIONS OF THE CONTRACT RELATING TO PERFORMANCE OF EXTRA WORK. COMPENSATION FOR SAID NET COST WORK SHALL NOT BE CHARGED AGAINST THE TOTAL AMOUNT OF COMPENSATION AUTHORIZED FOR EXTRA WORK.

WATER LEVEL ELEVATIONS

	PA DATUM	FT-NAVD 88
MEAN HIGHER HIGH WATER (MHHW)	300.74	2.29
MEAN HIGH WATER (MHW)	300.42	1.97
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)	298.45	0.00
MEAN SEA LEVEL (MSL)	298.22	-0.23
MEAN LOW WATER (MLW)	295.87	-2.58
MEAN LOWER LOW WATER (MLLW)	295.66	-2.79

CHIEF GEOTECHNICAL ENGINEER

100% SUBMISSION
05/06/2019

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

WORLD
TRADE
CENTER

GEOTECHNICAL

Title
RIVER WATER PUMP STATION
UPGRADES - SEDIMENT REMOVAL

LOCATION MAP, LEGEND
INDEX OF DRAWINGS
ABBREVIATIONS AND
GENERAL NOTES

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent. All recipients of Contract documents, including bidders and those who do not bid and their prospective subcontractors and suppliers who may receive all or a part of the Contract documents or copies thereof, shall make every effort to ensure the secure and appropriate disposal of the Contract documents to prevent further disclosure of the information contained in the documents. Secure and appropriate disposal includes methods of document destruction such as shredding or arrangements with refuse handlers that ensure that third persons will not have access to the documents' contents either before, during, or after disposal. Documents may also be returned for disposal purposes to the Contract Desk, 2 Montgomery Street - 1st Floor, Jersey City, NJ 07302 or the office of the Chief Procurement Officer, 4 World Trade Center, 21st Floor, New York, NY 10037. It is a violation of law for any person to alter a document in any way, unless acting under the direction of a licensed professional engineer or registered architect. If this document bearing the seal of an engineer/architect is altered, the altering engineer/architect shall affix to the document their seal and the notation "altered by" followed by their signature and the date of such alteration, and a specific description of the alteration.

Designed by B. BUONTEMPO
Drawn by J. MORALES/K. GRESCHAK/H. LAI
Checked by N. YAKUBOV
Date 07/31/2019

Contract Number MFP-924.650

Drawing Number **GT001**
PID# 19982000

**THE PORT AUTHORITY
OF NY & NJ**

CHIEF GEOTECHNICAL ENGINEER

100% SUBMISSION
05/06/2019

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

**WORLD
TRADE
CENTER**

GEOTECHNICAL

Title
RIVER WATER PUMP STATION
UPGRADES - SEDIMENT REMOVAL

SITE PLAN

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Designed by **B. BUONTEMPO**

Drawn by **J. MORALES/ K. GRESCHAK/ H. LAI**

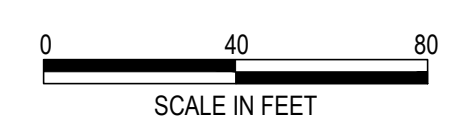
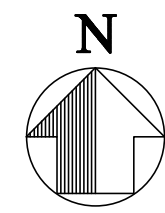
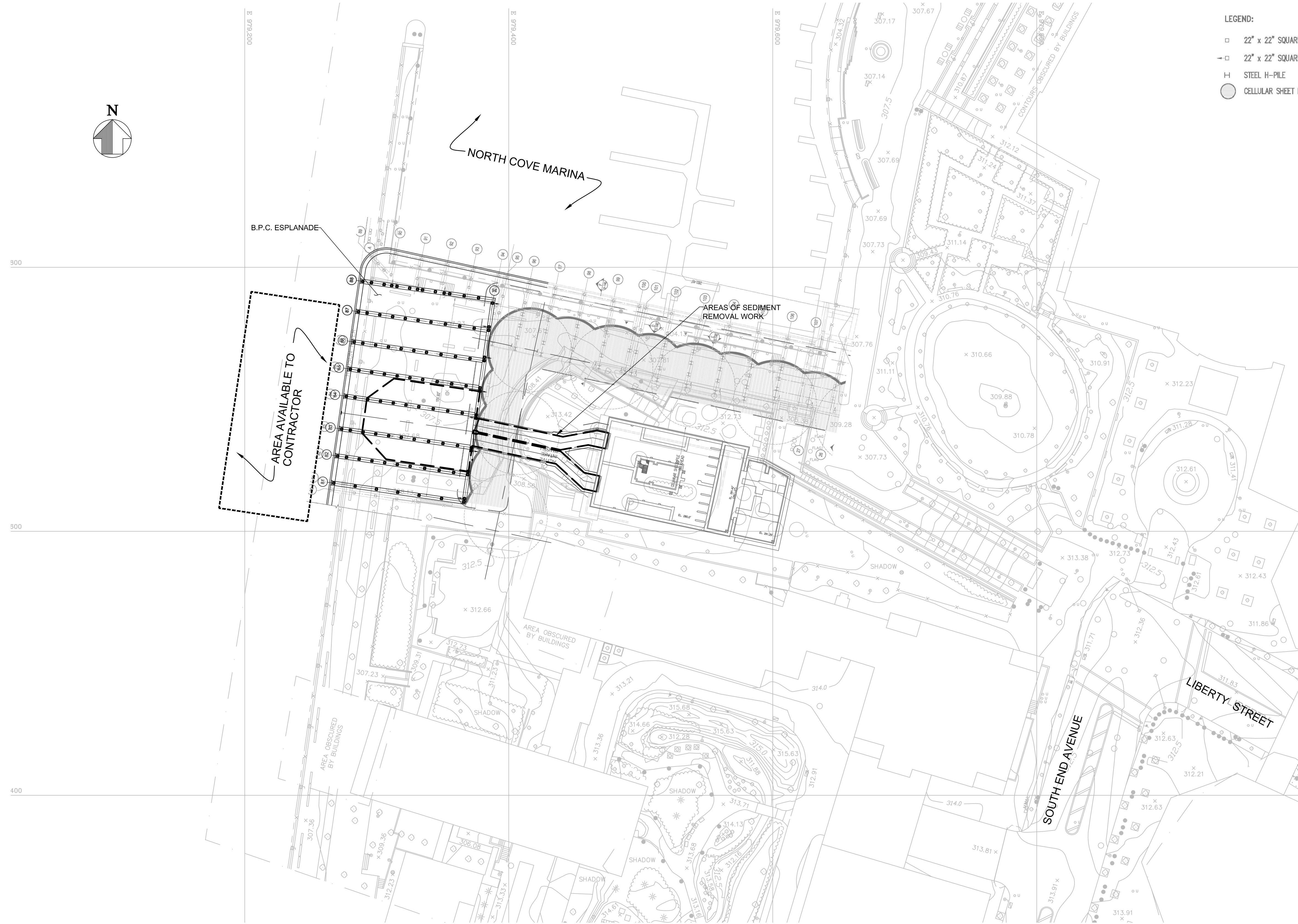
Checked by **N. YAKUBOV**

Date **07/31/2019**

Contract Number **MFP-924.650**

Drawing Number **GT002**

PID# **19982000**



**THE PORT AUTHORITY
OF NY & NJ**

CHIEF GEOTECHNICAL ENGINEER

100% SUBMISSION
05/06/2019

No.	Date	Revision	Approved
ENGINEERING DEPARTMENT			
WORLD TRADE CENTER			
GEOTECHNICAL			
Title			
RIVER WATER PUMP STATION UPGRADES - SEDIMENT REMOVAL			
SEDIMENT REMOVAL LOCATION PLAN			

GEOTECHNICAL

RIVER WATER PUMP STATION UPGRADES - SEDIMENT REMOVAL
SEDIMENT REMOVAL LOCATION PLAN

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Drawn by J. MORALES/ K. GRESCHAK/ H. LAI

Checked by N. YAKUBOV

Date 07/31/2019

Contract Number MFP-924.650

Drawing Number **GT003**

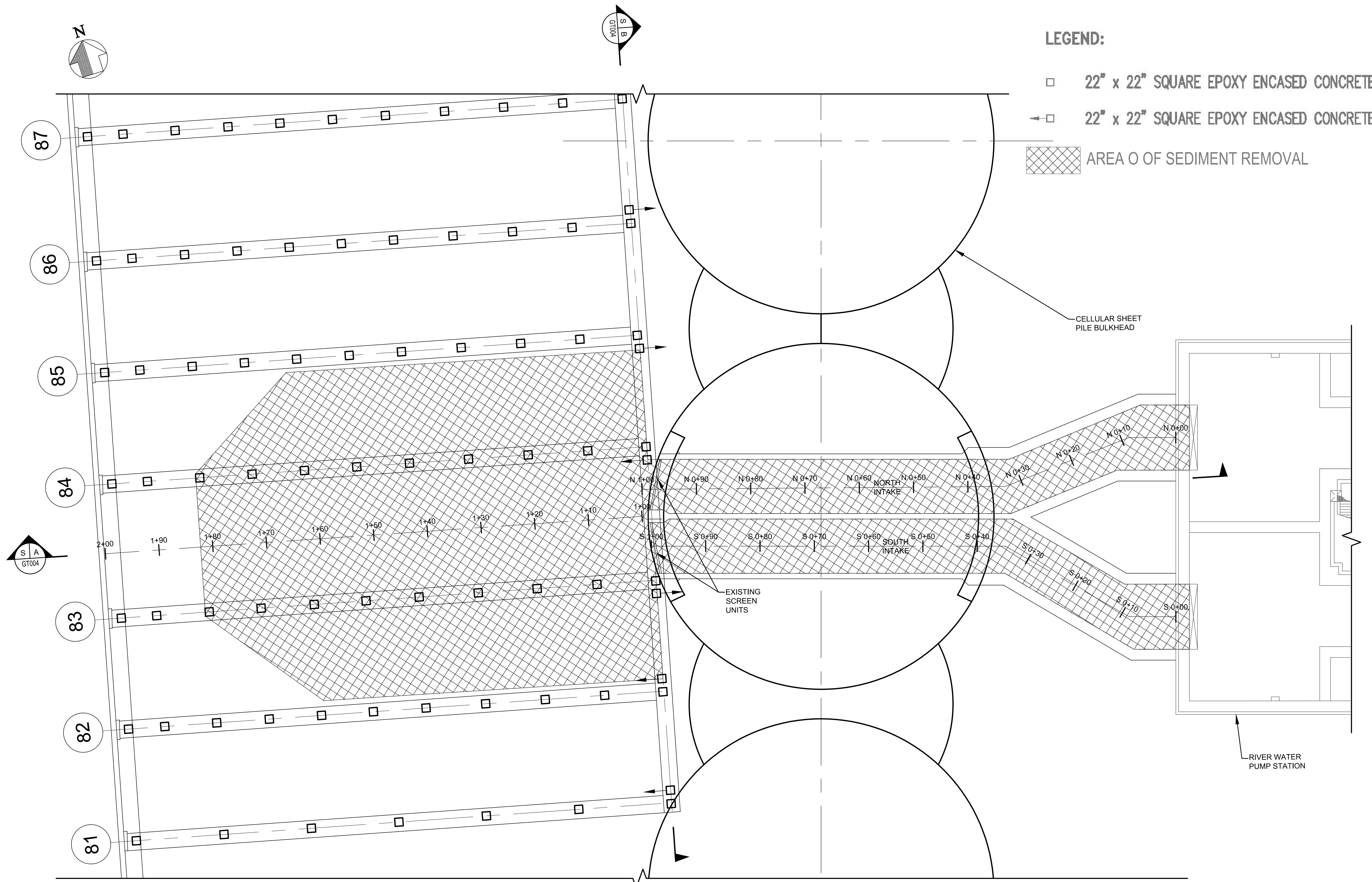
PID# 19982000

LEGEND:

□ 22" x 22" SQUARE EPOXY ENCASED CONCRETE PILE

◄ □ 22" x 22" SQUARE EPOXY ENCASED CONCRETE BATTER PILE

▨ AREA OF SEDIMENT REMOVAL



NOTE:

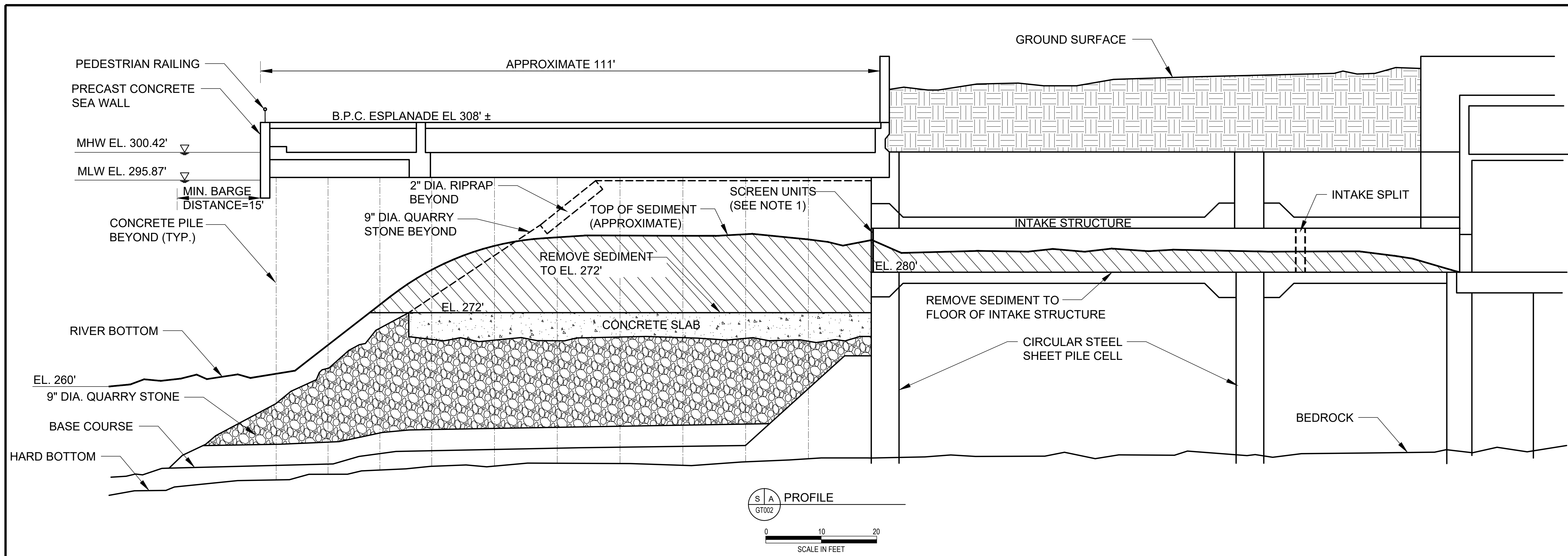
REGION SHADED IS THE ESTIMATED BOUNDARY OF DREDGING BASED ON AVAILABLE DATA. TRUE LIMITS AND EXTENT OF DREDGING TO BE FIELD DETERMINED IN ACCORDANCE WITH THE CRITERIA SPECIFIED IN THIS CONTRACT.

0 10 20
SCALE IN FEET

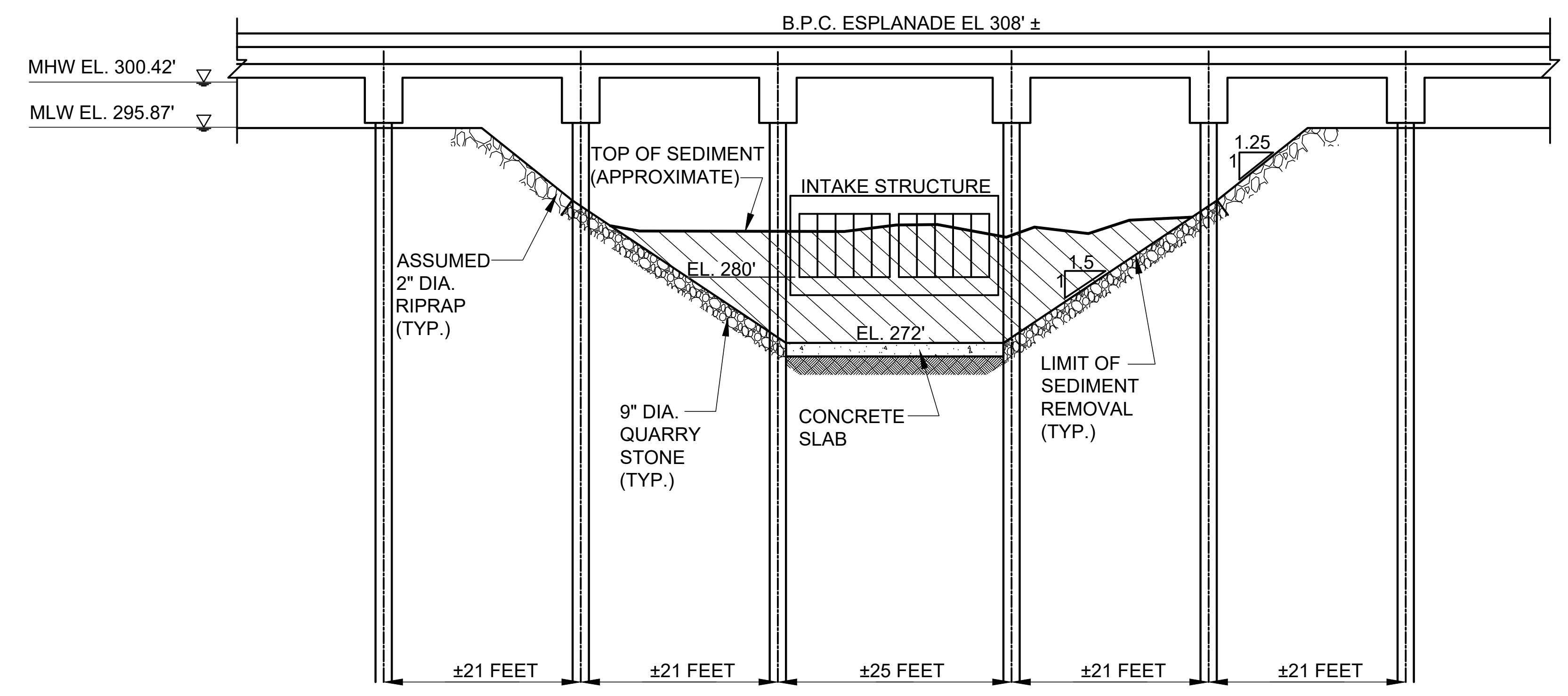
**THE PORT AUTHORITY
OF NY & NJ**

CHIEF GEOTECHNICAL ENGINEER

100% SUBMISSION
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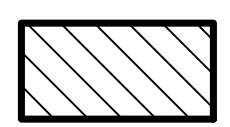
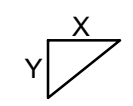


S | A
GT002
PROFILE
0 10 20
SCALE IN FEET



S | B
GT002
SECTION
0 10 20
SCALE IN FEET

NOTE
1. SEE STRUCTURAL DRAWING S001 FOR SCREEN UNIT REMOVAL AND REINSTALLATION REQUIREMENTS AND DETAIL FOR SEDIMENT REMOVAL INSIDE INTAKE STRUCTURES.

LEGEND:
 LIMITS OF SEDIMENT/SOIL DREDGING IN SECTION/PROFILE VIEW.
 PRESUMED RIPRAP SLOPE OF X:Y. (CONTRACTOR TO VERIFY IN FIELD)

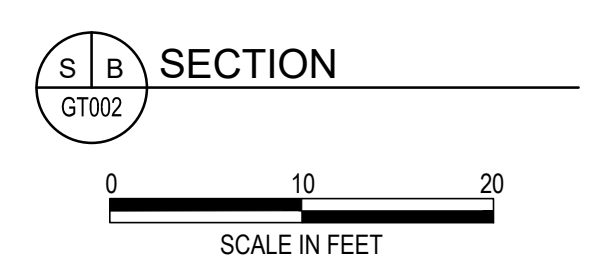
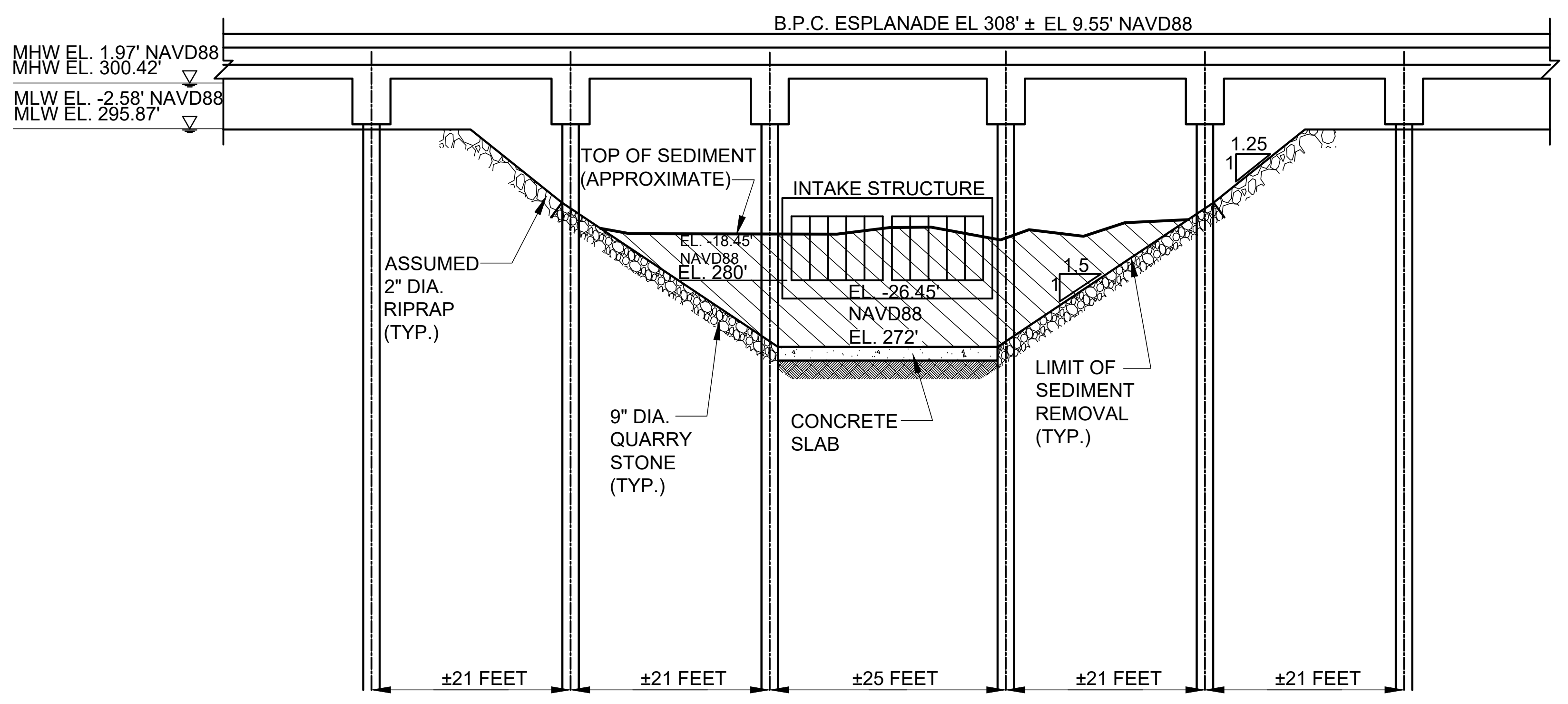
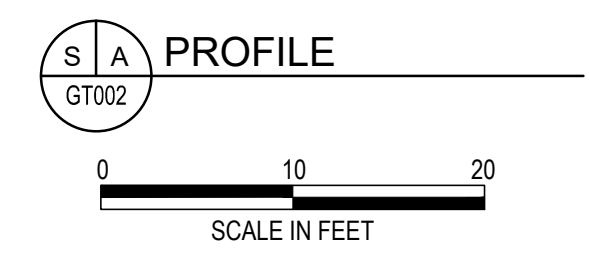
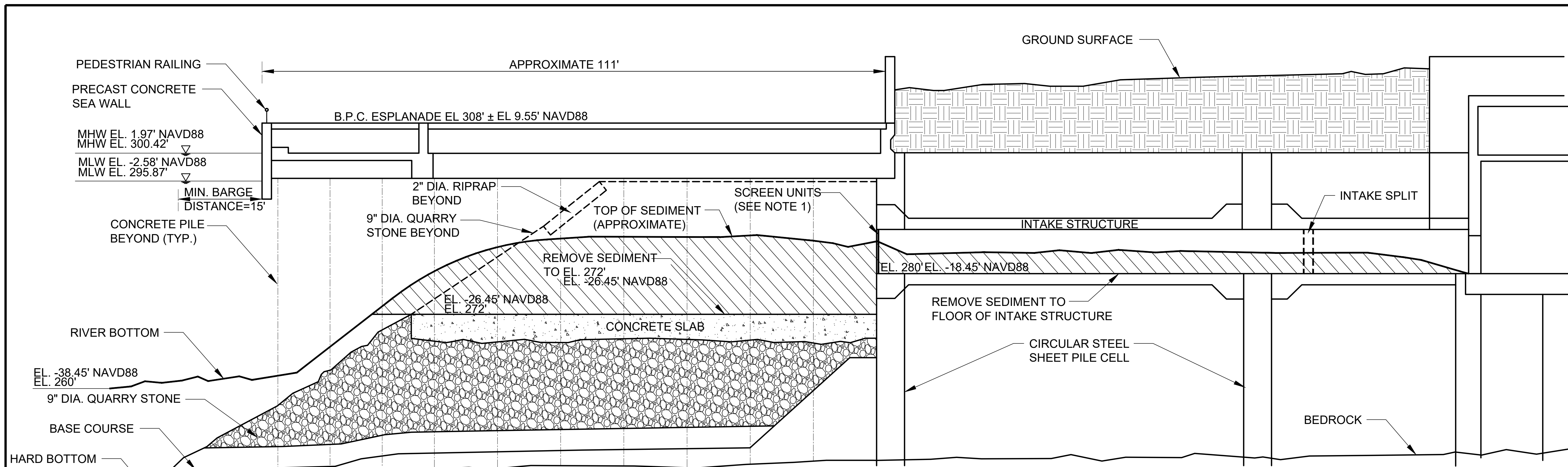
No.	Date	Revision	Approved
ENGINEERING DEPARTMENT			
WORLD TRADE CENTER			

GEOTECHNICAL SECTIONS
Title
RIVER WATER PUMP STATION UPGRADES - SEDIMENT REMOVAL
PROFILE AND SECTION

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Designed by B. BUONTEMPO
 Drawn by J. MORALES/ K. GRESCHAK/ H. LAI
 Checked by N. YAKUBOV
 Date 07/31/2019
 Contract Number MFP-924.650
 Drawing Number **GT004**
 PID# 19982000

100% SUBMISSION
05/06/2019



NOTE

1. SEE STRUCTURAL DRAWING S001 FOR SCREEN UNIT REMOVAL AND REINSTALLATION REQUIREMENTS AND DETAIL FOR SEDIMENT REMOVAL INSIDE INTAKE STRUCTURES.

LEGEND:

LIMITS OF SEDIMENT/SOIL DREDGING IN SECTION/PROFILE VIEW.

PRESUMED RIPRAP SLOPE OF X:Y. (CONTRACTOR TO VERIFY IN FIELD)

No.	Date	Revision	Approved
ENGINEERING DEPARTMENT			
WORLD TRADE CENTER			

GEOTECHNICAL SECTIONS

Title

RIVER WATER PUMP STATION UPGRADES - SEDIMENT REMOVAL

PROFILE AND SECTION

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent. All recipients of Contract documents, including bidders and those who do not bid and their prospective subcontractors and suppliers who may receive all or a part of the Contract documents or copies thereof, shall make every effort to ensure the secure and appropriate disposal of the Contract documents to prevent further disclosure of the information contained in the documents. Secure and appropriate disposal includes methods of document destruction such as shredding or arrangements with refuse handlers that ensure that third persons will not have access to the documents' contents either before, during or after disposal. Documents may also be returned for disposal purposes to the Contract Desk, 2 Montgomery Street - 1st Floor, Jersey City, NJ 07302 or the office of the Chief Procurement Officer, 4 World Trade Center, 21st Floor, New York, NY 10037. It is a violation of law for any person to alter a document in any way, unless acting under the direction of a licensed professional engineer or registered architect. If this document bearing the seal of an engineer/architect is altered, the altering engineer/architect shall affix to the document their seal and the notation "altered by" followed by their signature and the date of such alteration, and a specific description of the alteration.

Designed by B. BUONTEMPO
 Drawn by J. MORALES/ K. GRESCHAK/ H. LAI
 Checked by N. YAKUBOV
 Date 07/31/2019
 Contract Number MFP-924.650
 Drawing Number **GT004**
 PID# 19982000

100% SUBMISSION
05/06/2019

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT			

STRUCTURAL

Title
RIVER WATER PUMP STATION
UPGRADES - SEDIMENT REMOVAL

**SCREEN UNIT REMOVAL
DETAILS AND NOTES**

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Designed by S. COSTELLO
 Drawn by S. COSTELLO
 Checked by K. AU
 Date 07/31/2019

Contract Number MFP-924.650

Drawing Number **S001**

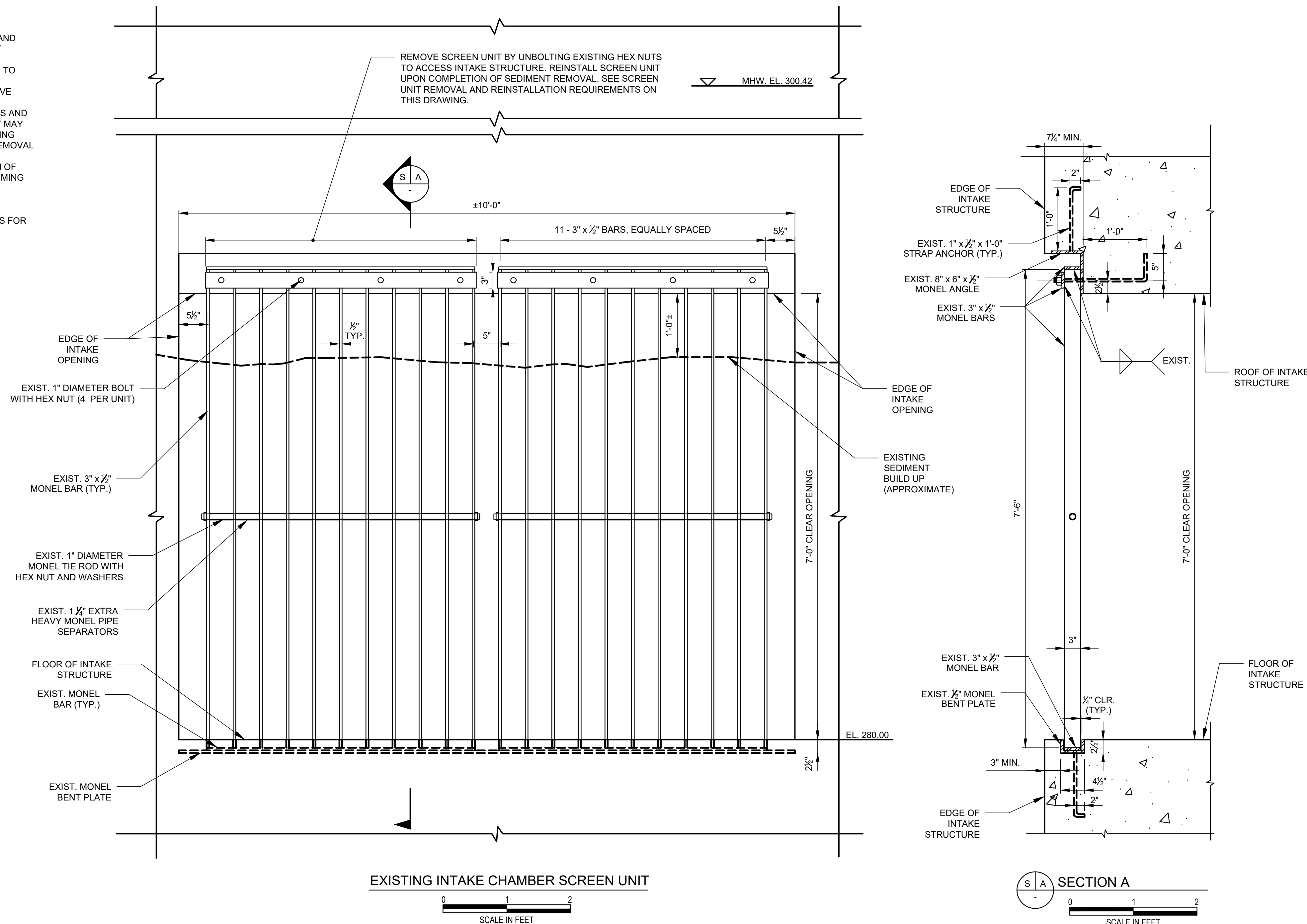
PID# 19982000

GENERAL NOTES:

- DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS HAVE NOT BEEN FIELD VERIFIED AND MAY VARY FROM THE ACTUAL CONDITIONS THAT EXIST AT THE CONSTRUCTION SITE. VERIFY BY FIELD MEASUREMENTS ALL DIMENSIONS, CURVATURES, AND ELEVATIONS OF EXISTING STRUCTURES THAT MAY BE NECESSARY TO LOCATE, ALIGN, DIMENSION, AND DETAIL ANY CONDITION REQUIRED TO PERFORM THE WORK. ALL VARIATIONS FROM THE CONTRACT DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- EXISTING SEDIMENT BUILDUP IN FRONT OF AND WITHIN THE INTAKE STRUCTURE IS PARTIALLY COVERING THE EXISTING SCREEN UNITS.
- PROTECT EXISTING STRUCTURES TO PREVENT DAMAGE DURING THE PERFORMANCE OF THE WORK OF THIS CONTRACT. ANY DAMAGE OR ALTERATION RESULTING FROM THE CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE AUTHORITY, TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- BOTTOM OF INTAKE STRUCTURE (AND BASE OF SCREEN UNIT) IS EL. 280.00, APPROXIMATELY 20 FEET BELOW MEAN HIGH WATER (MHW) LEVEL EL. 300.42.
- THERE IS NO ACCESS TO THE SCREEN UNIT FROM THE PROMENADE DECK ABOVE.
- ACCESS INTO THE EXISTING INTAKE STRUCTURE REQUIRES THE REMOVAL OF A MINIMUM OF ONE SCREEN UNIT PER SIDE OF INTAKE CHAMBER. SCREEN UNITS ARE APPROXIMATELY 5-FEET WIDE BY 7-FEET TALL, SECURED AT THE TOP, AND SHALL BE REMOVED AS A WHOLE, WITHOUT DAMAGE. ESTIMATED WEIGHT OF EACH 5-FOOT WIDE SCREEN UNIT IS APPROXIMATELY 650 LB (NON-BUOYANT).
- SEE THE REFERENCE DRAWING 'WTC-130.027 DRAWING NO. 4' FOR ADDITIONAL INFORMATION OF INTAKE STRUCTURE.

SCREEN UNIT REMOVAL AND REINSTALLATION REQUIREMENTS:

- SUBMIT SCREEN UNIT REMOVAL AND REINSTALLATION PLAN, INCLUDING PROCEDURE, METHOD, AND EQUIPMENT, FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE METHODS OF TEMPORARY SUPPORT OF SCREEN UNIT AND SHALL BE SUBMITTED AS WHOLE.
- THE EXISTING PROMENADE STRUCTURE ABOVE THE INTAKE STRUCTURE SHALL NOT BE UTILIZED TO TEMPORARILY SUPPORT THE SCREEN UNIT AS THIS IS NOT A PORT AUTHORITY STRUCTURE.
- REMOVE SEDIMENT, DEBRIS, RUST, AND OTHER MATERIALS AS REQUIRED TO UNBOLT AND REMOVE EACH SCREEN UNIT.
- TEMPORARILY SUPPORT THE SCREEN UNIT IN PLACE WITH FLOATATION DEVICE OR OTHER MEANS AND METHODS DURING SEDIMENT REMOVAL OPERATION. SUBMIT DETAILS FOR REVIEW. SCREEN UNIT MAY ALSO BE TEMPORARILY SUPPORTED FROM THE ADJACENT SCREEN UNIT BY CLAMPING, OR BOLTING TEMPORARY SUPPORT ELEMENTS TO THE EXISTING SCREEN UNITS. MEANS AND METHODS OF REMOVAL SHALL BE INCLUDED IN THE REMOVAL AND REINSTALLATION PLAN.
- COORDINATE SCREEN UNIT REMOVAL AND REINSTALLATION WITH WTC OPERATIONS. OPERATION OF THE PUMP STATION MUST BE MAINTAINED. SCREEN UNIT SHALL BE REINSTALLED PRIOR TO RESUMING OPERATION OF INTAKE STRUCTURE.
- REPLACE DAMAGED OR DETERIORATED COMPONENTS OF THE SCREEN UNIT AS REQUIRED TO REINSTALL THE UNIT IN ITS ORIGINAL LOCATION. EXISTING SCREEN UNIT AND ANCHORS ARE FABRICATED OF MONEL. MATERIALS AND SIZE SHALL MATCH EXISTING. SUBMIT PRODUCT DETAILS FOR REVIEW AND APPROVAL.



EXISTING INTAKE CHAMBER SCREEN UNIT



NOTE: EXISTING PIER STRUCTURE ABOVE NOT SHOWN. BOTTOM OF PIER IS AT APPROX EL. 297.50. PIER STRUCTURE IS CONTINUOUS AND EXTENDS APPROX. 105 FEET BEYOND EDGE OF INTAKE STRUCTURE. SEE DRAWING GT003 AND GT004 FOR MORE INFORMATION.

SECTION A

