

# 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 reply refer to:  
Public Notice Number: **NAN-2020-00587-EMI**  
Issue Date: **February 18, 2021**  
Expiration Date: **March 19, 2021**

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: City of South Amboy  
Attn: Fred Henry, Mayor  
140 North Broadway  
South Amboy, New Jersey 08879

ACTIVITY: Construction of a new intermodal ferry terminal complex and maintenance dredging with upland disposal

WATERWAY: Raritan Bay

LOCATION: (40.489268, -74.275611) City of South Amboy, Middlesex 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.

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**ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND EMAILED 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. All written comments, including names and addresses, 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 email is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

New Jersey Department of Transportation (NJDOT) on behalf of the Federal Highway Administration (FHWA), is the lead Federal agency for the project. NJDOT will be relying on the U.S. Army Corps of Engineers (USACE) to coordinate with the appropriate resource agencies for effects determinations.

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 is being conducted and will be concluded prior to the final decision.

In accordance with Section 106 of the National Historic Preservation Act (NHPA), a Memorandum of Agreement (MOA) was executed on July 25, 2003 between the permit applicant, FHWA, NJDOT, and the New Jersey State Historic Preservation Office (SHPO). An amended MOA was then executed on December 22, 2009, superseding the 2003 MOA. On December 17, 2019, the SHPO extended the amended 2009 MOA expiration date an additional five (5) years. NJDOT and USACE are in the process of amending the existing 2009 amended MOA to address the historic properties and cultural resource issues associated with the proposed work.

The City of South Amboy will conduct a virtual public meeting to solicit comments regarding the site design and to discuss changes to the project plans in accordance with Section 106 of the NHPA. As the lead federal agency, NJDOT on behalf of FHWA, is reviewing the project for potential impacts

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to historic properties. The City of South Amboy has stated that a presentation will be provided explaining the proposed project followed by an opportunity for public comments and questions. Interested parties may submit questions to the City of South Amboy in advance of this public meeting via email to [ba@southamboynj.gov](mailto:ba@southamboynj.gov) or via US Mail to Radford Ferry Project, 140 North Broadway, South Amboy, NJ 08879.

Any interested parties are invited to join this virtual public meeting on Thursday, February 25, 2021 from 6:00 PM – 8:00 PM (EST) at the following link: <https://global.gotomeeting.com/join/886848573>. The below link contains additional information regarding this virtual public meeting: <http://www.southamboynj.gov/News/View/436/south-amboy-ferry-project-public-meeting>.

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 Jersey State, the applicant's certification and accompanying information is available from 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 or requested the following governmental authorization for the activity under consideration:

- New Jersey Department of Environmental Protection

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.

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. Please send all comments and questions concerning this permit application to [Christopher.W.Minck@usace.army.mil](mailto:Christopher.W.Minck@usace.army.mil).

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>.

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

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PINZON.RONALD.R.125  
2323453  
Date: 2021.02.12  
16:39:19 -05'00'

**FOR AND IN BEHALF OF**

Stephan A. Ryba  
Chief, Regulatory Branch

Enclosures

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**WORK DESCRIPTION**

The applicant, the City of South Amboy, has requested Department of the Army (DA) authorization to construct an intermodal ferry terminal and dredge in Raritan Bay. The project site is located at (40.489146, -74.276202) in the City of South Amboy, Middlesex County, New Jersey.

To construct the ferry landing, an approximately 28-foot-wide by 130-foot-long floating barge will be constructed and anchored by five (5) spudwells each containing a 20-inch diameter hollow steel pipe pile. An approximately eight-foot-wide by 55-foot-long ramp leading to an eight-foot-wide by six-foot-long fixed platform, an eight-foot-wide by 35-foot-long ramp, an 18-foot-wide by five-foot-long fixed platform and an eight-foot-wide by 35-foot-long ramp will be constructed to access the floating barge. An approximately 12-foot-wide by 100-foot-long access maintenance barge will be constructed perpendicular to the floating barge with an approximately eight-foot-wide by 30-foot-long access ramp. The access maintenance barge will be secured by three (3) spudwells each containing a 20-inch diameter hollow steel pile and extruded fenders. The 28-foot-wide by 130-foot-long floating barge will have three elastomeric fendering systems with mechanical and electrical capabilities to accommodate the ferries. Four (4) seven-pile dolphin clusters will also be installed consisting of six (6) 12-inch diameter timber piles with one (1) 12-inch diameter timber king pile in the center.

The existing bulkhead will be removed and replaced in a new configuration. Starting from the northern side of the permit area, approximately 165 linear feet of new bulkhead will be constructed in the upland to tie into approximately 173 linear feet of bulkhead that will be replaced landward of the existing bulkhead. Continuing from the 173 linear foot section of bulkhead, approximately 865 linear feet of bulkhead will be constructed waterward of the existing deteriorated bulkhead around the existing northern solid filled pier. Approximately 595 cubic yards of material will be discharged over 3,050 square feet below the plane of Spring High Water (SHW) to fill behind the new bulkhead. Continuing from the 865 linear feet of bulkhead, an additional 198 linear feet of bulkhead will be replaced landward of existing and tie into an approximately 360 linear foot section of bulkhead that will be constructed waterward of existing at the southern solid filled pier. Approximately 153 cubic yards of material will be discharged over 720 square feet below the plane of SHW to fill behind the new bulkhead.

Additionally, a new 42-inch diameter outfall will be constructed south and adjacent to the northern solid filled pier with an approximately 17.5-foot-wide by 21-foot-long scour hole of which approximately eight cubic yards of material will be discharged below the plane of Spring High Water over 60 square feet.

The proposed work would initially include mechanical dredging of approximately 15,205 cubic yards of material from an approximately a 148,181 square foot area (3.40 acres). The material will be dredged with a clamshell bucket and will include up to three additional dredge events over a ten-year period with removal of approximately 5,000 cubic yards of material during each additional event. The material would be dredged to a depth of -13 feet below the plane of Mean Low Water (MLW) NAVD 88, plus one foot of allowable over depth dredging. The slope of the dredge area is 4 on 1 on the northern and southern slopes and 7.5 on 1 on the western slope. The dredged material would be decanted from a barge with return flow to the waterway and placed in an upland on-site location.

The applicant has stated that they have avoided, minimized, and mitigated for proposed impacts to the maximum extent practicable by redesigning the project to avoid discharging fill into and dredging in special aquatic sites. The only fill being proposed is to stabilize the existing solid field pier that has lost fill through deterioration over time and for the outfall scour hole.

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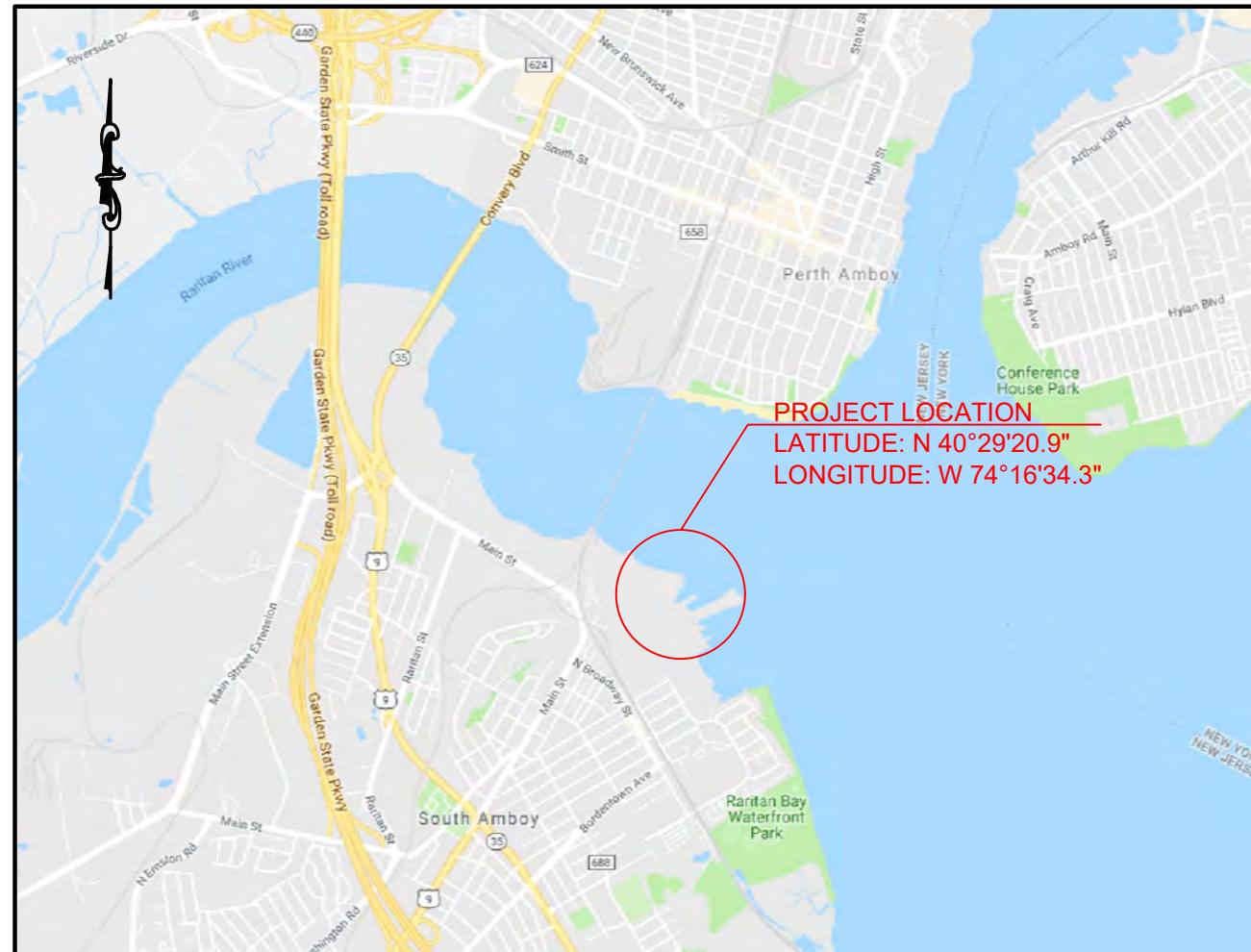
**CENAN-OP-RE**

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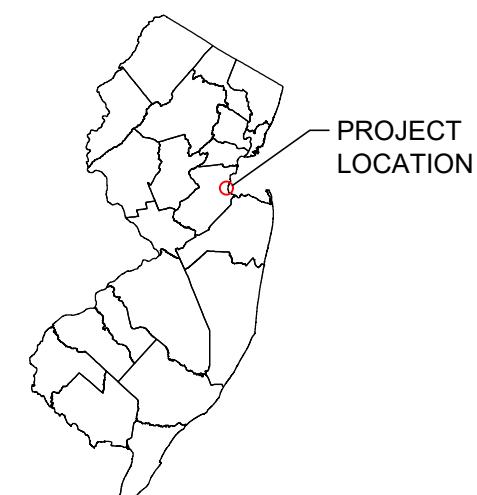
Additional activities being reviewed by the Corps in accordance with Section 106 of the NHPA, include the construction of a ferry terminal building, ferry plaza and canopy, parking lots, roadways, and associated walkways.

The stated purpose of this project is to provide an attractive alternative for the traveling public to mitigate surface roadway and rail congestion.

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**NOTES:**

1. VERTICAL DATUM USED IS NAVD 1988.



O:\13K\13700\13749 - South Amboy Ferry Terminal\Site Design\CADD\DWG\Permit Plans\13749.003 - COVER (8.5x11).dwg TS01

REF: USGS, SOUTH AMBOY QUADRANGLE

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REVISED 08/25/2020

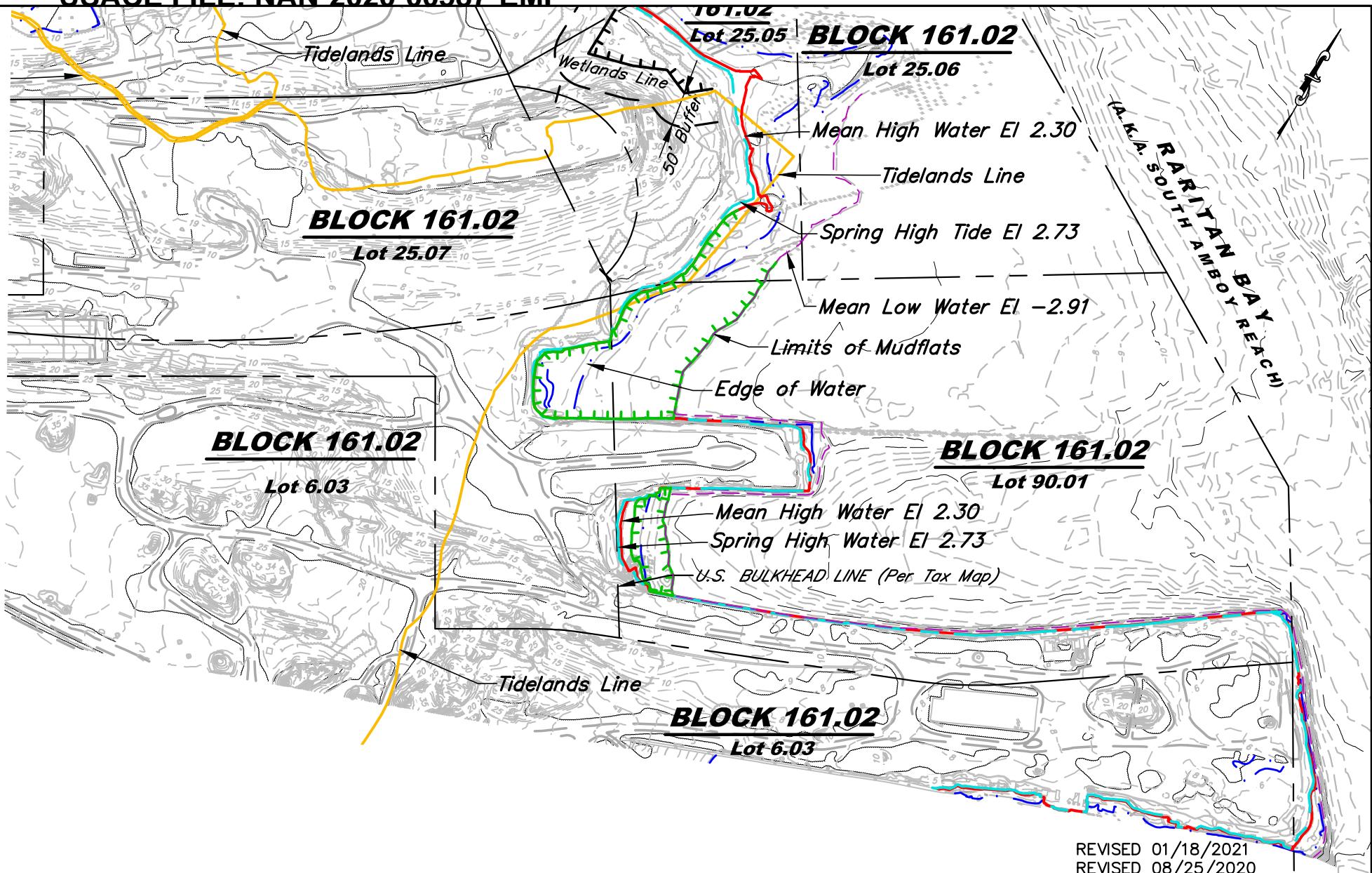


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**VICINITY MAP**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: N.T.S.
CHECKED BY: BF	FIELD BOOK:
DATE: 12/09/2019	SHEET: 1 of 23

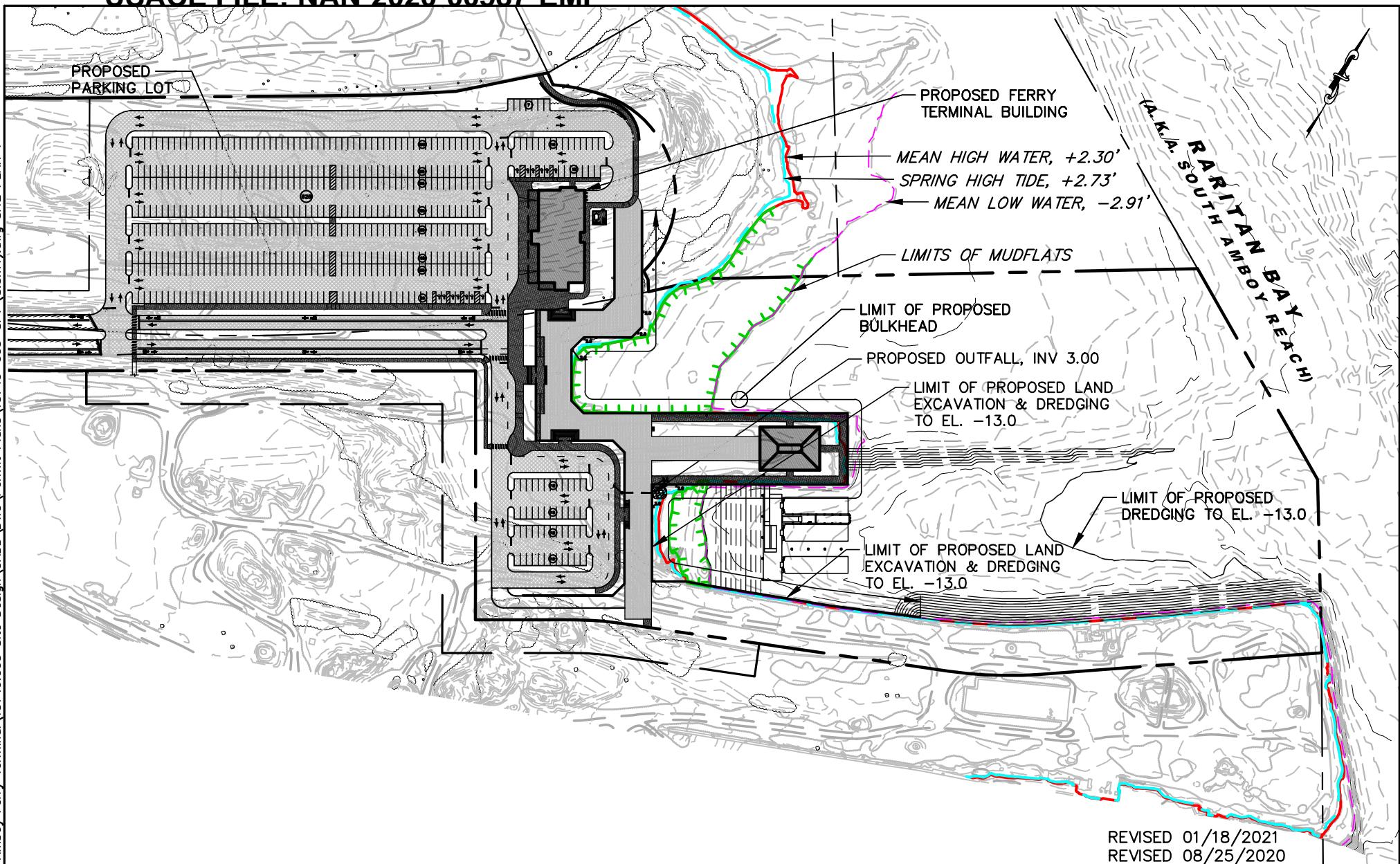


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**EXISTING CONDITIONS PLAN**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

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DS	13749.003
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12/09/2019	2 of 23

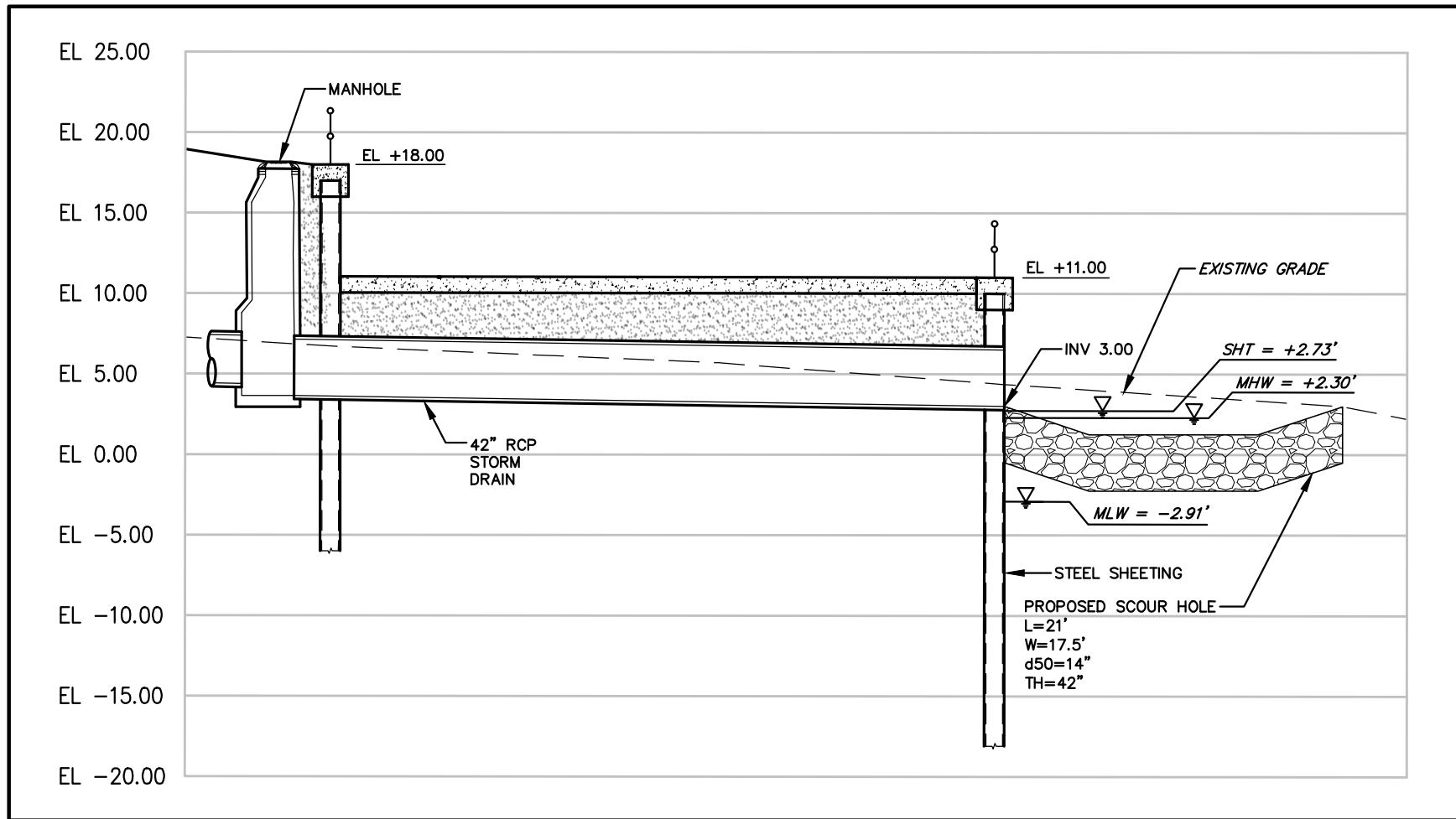


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**SITE PLAN**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

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DS	13749.003
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12/09/2019	3 of 23



SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

10 0 10 20  
SCALE IN FEET

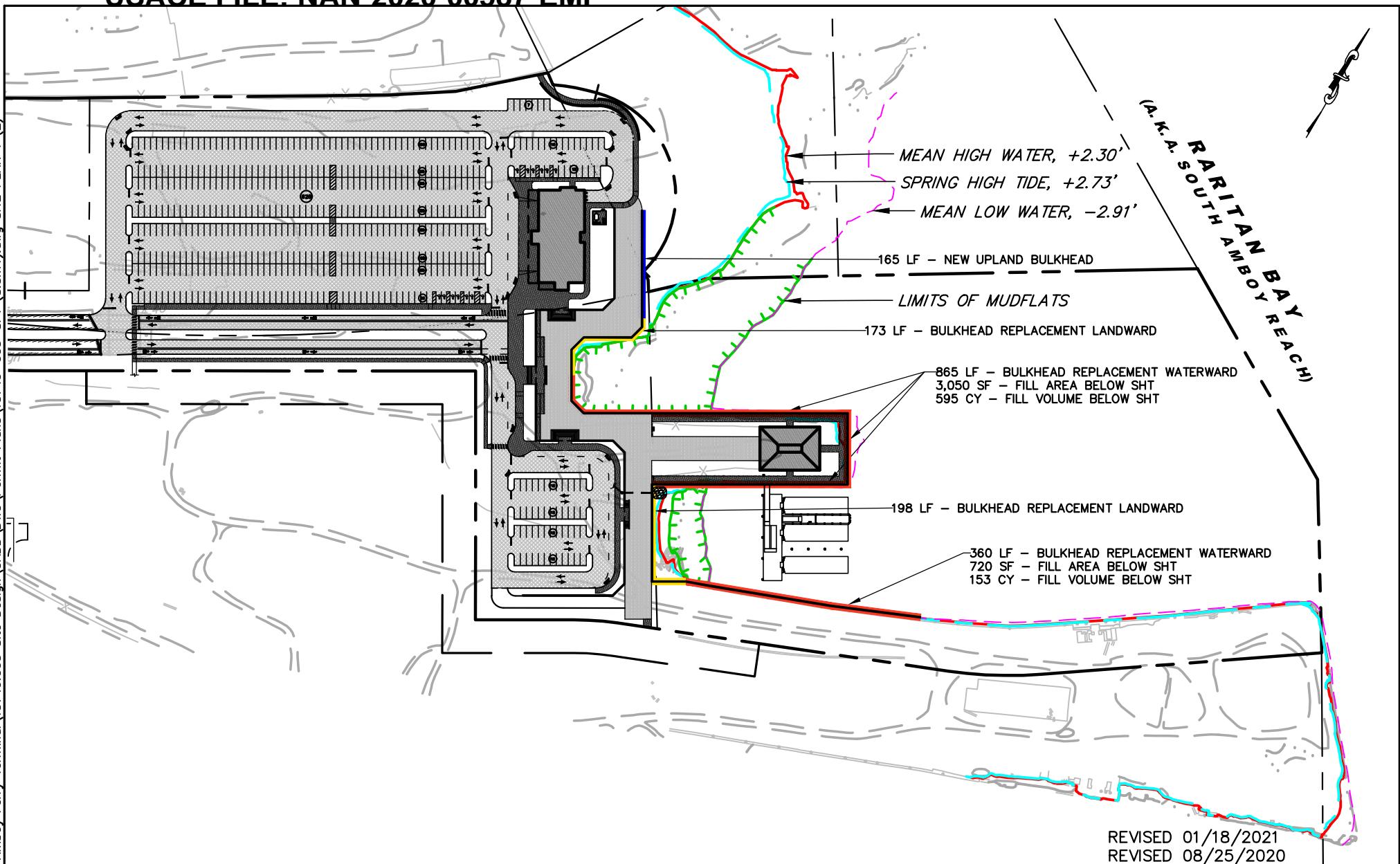
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**OUTFALL PROFILE**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
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DATE: 12/09/2019	SHEET: 4 of 23

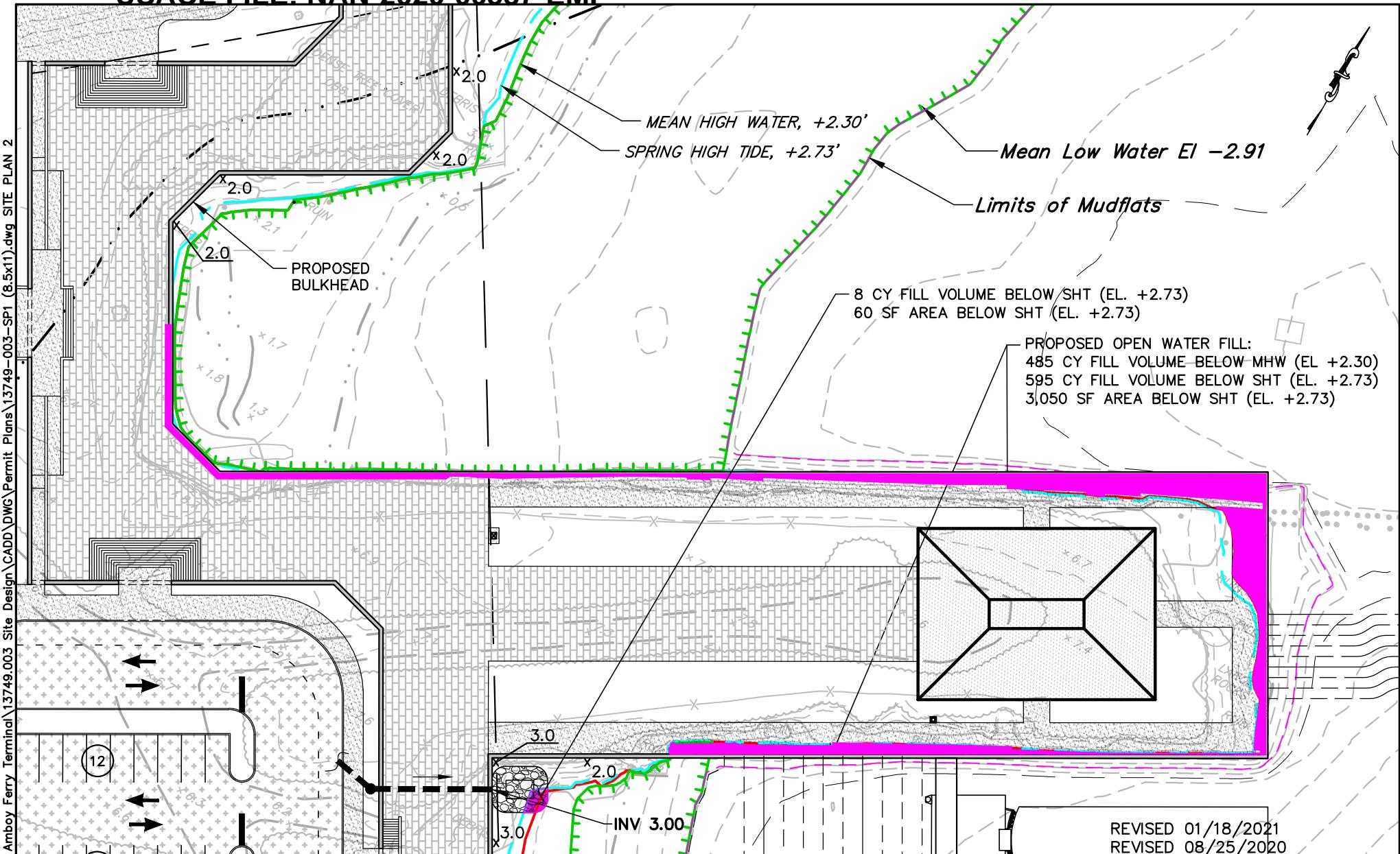


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**SITE PLAN**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

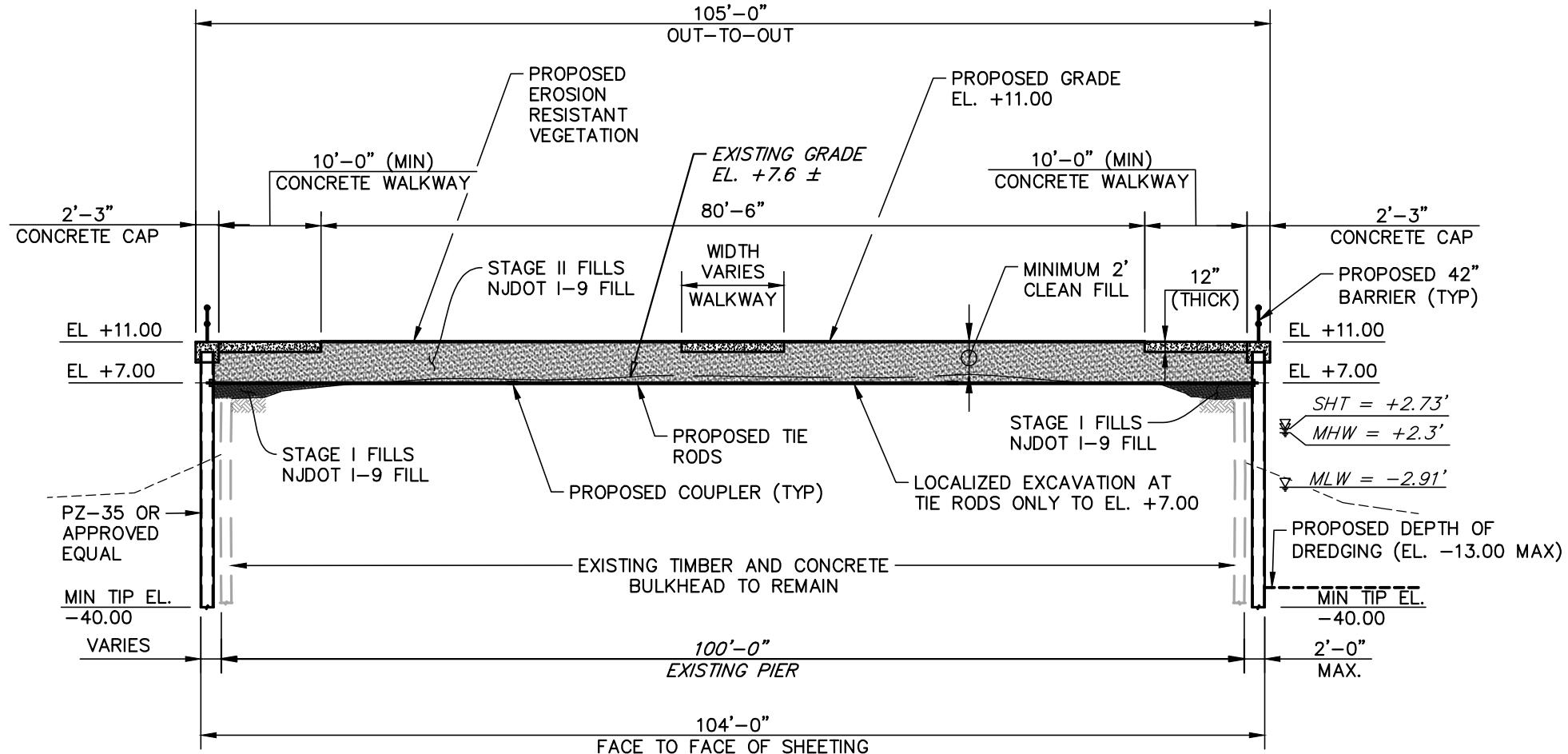
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**ENLARGED SITE PLAN**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

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DS	13749.003
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DS	1" = 50'
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DATE:	SHEET:
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### TYPICAL SECTION AT PIER (LOOKING EAST)

N.T.S.

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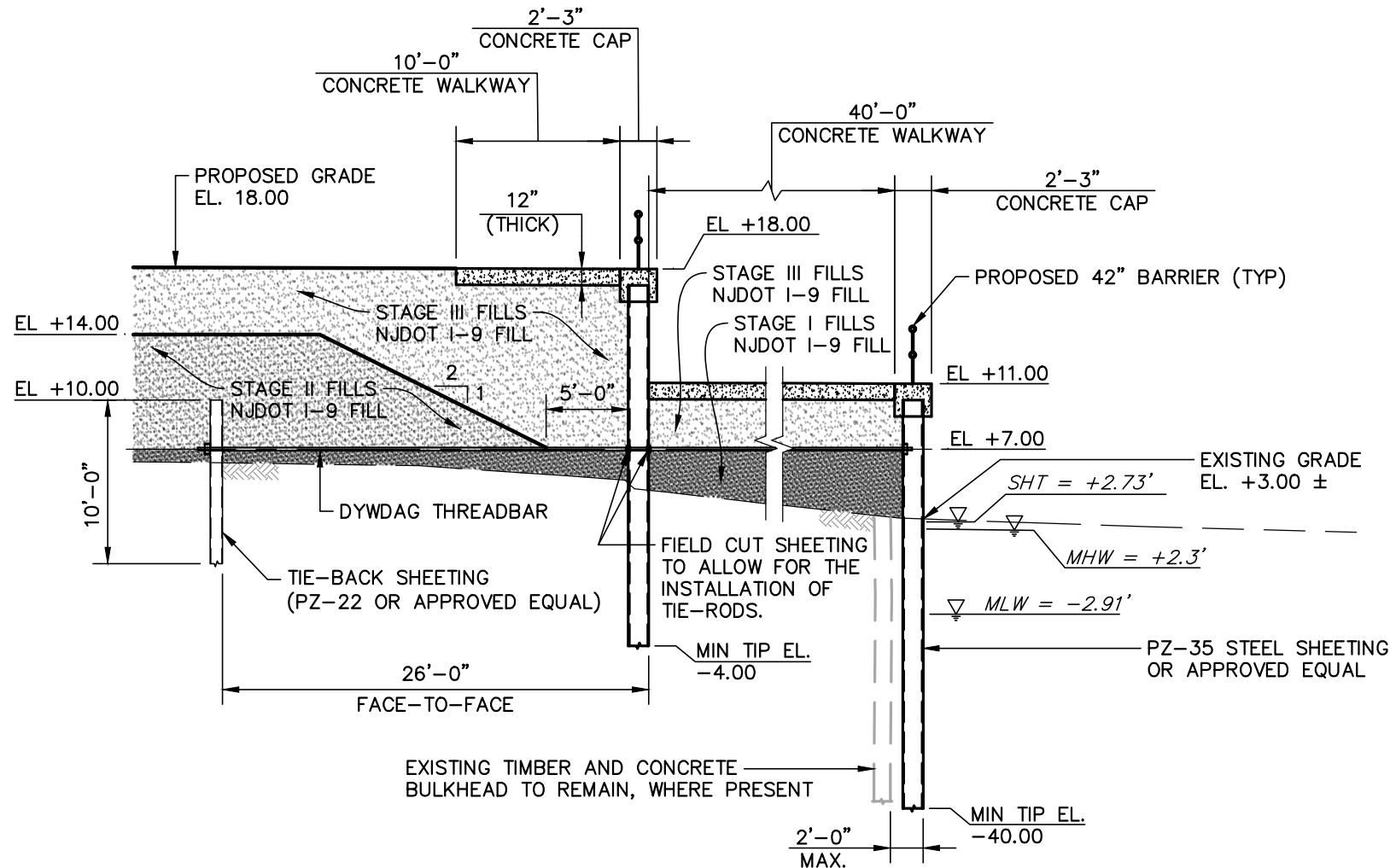
### TYPICAL BULKHEAD SECTION (1 OF 2)

FOR  
**SOUTH AMBOY FERRY TERMINAL**

BLOCK 161.02 LOTS 25.07, 25.08 &amp; 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY:	PROJECT NUMBER:
DS	13749.003
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DS	N.T.S.
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DATE:	SHEET:
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**TYPICAL SECTION ALONG SHORELINE (LOOKING NORTH)**

SCALE 1" = 10'-0"

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**TYPICAL BULKHEAD SECTION (2 OF 2)**

FOR  
**SOUTH AMBOY FERRY TERMINAL**

BLOCK 161.02 LOTS 25.07, 25.08 &amp; 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: N.T.S.
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DATE: 12/09/2019	SHEET: 9 of 23

NOTES:

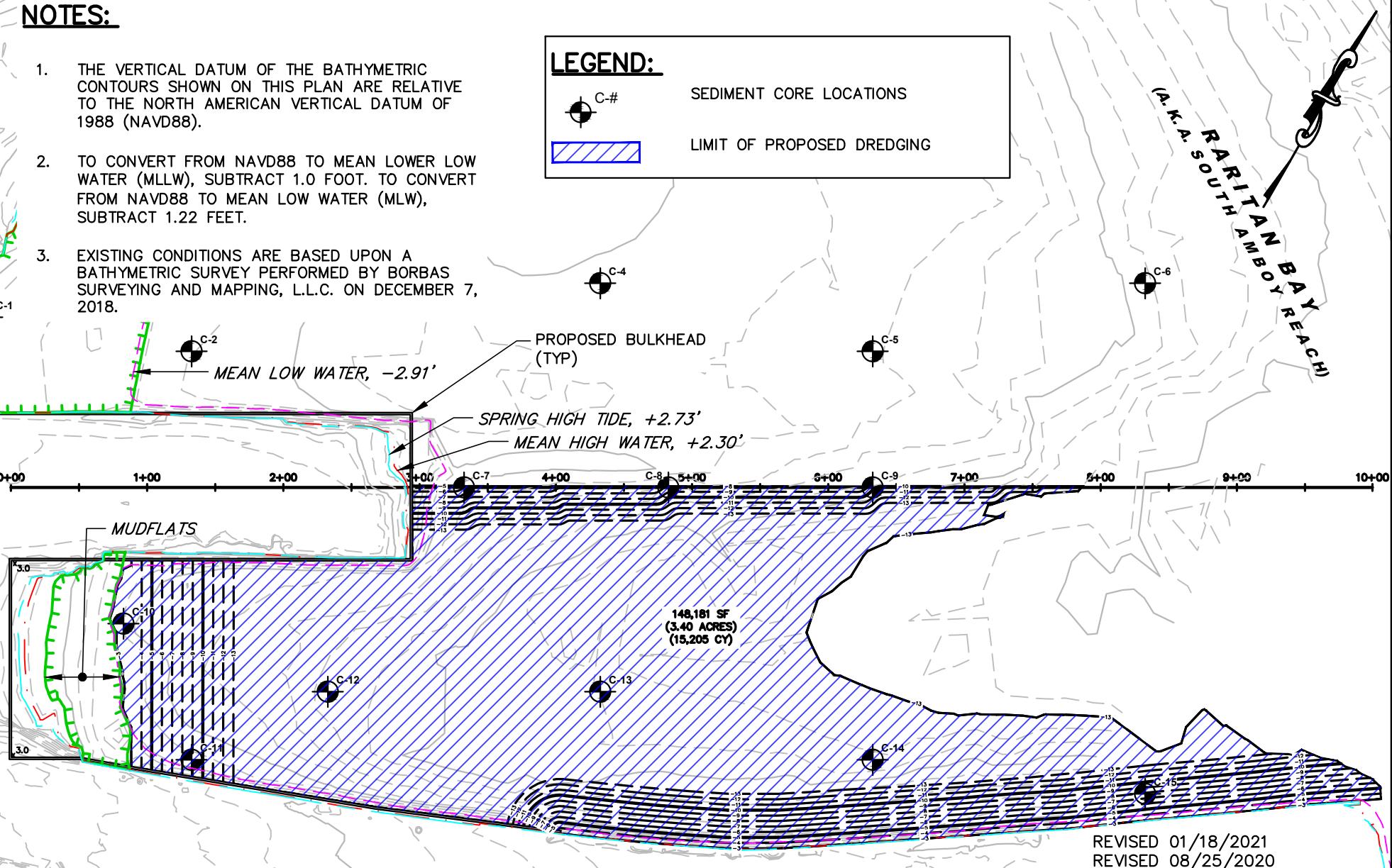
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2. TO CONVERT FROM NAVD88 TO MEAN LOWER LOW WATER (MLLW), SUBTRACT 1.0 FOOT. TO CONVERT FROM NAVD88 TO MEAN LOW WATER (MLW), SUBTRACT 1.22 FEET.
3. EXISTING CONDITIONS ARE BASED UPON A BATHYMETRIC SURVEY PERFORMED BY BORBAS SURVEYING AND MAPPING, L.L.C. ON DECEMBER 7, 2018.

LEGEND:

SEDIMENT CORE LOCATIONS



LIMIT OF PROPOSED DREDGING

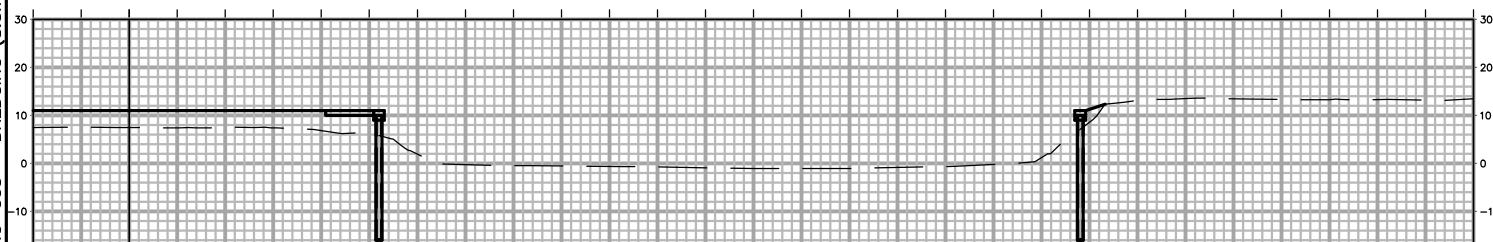


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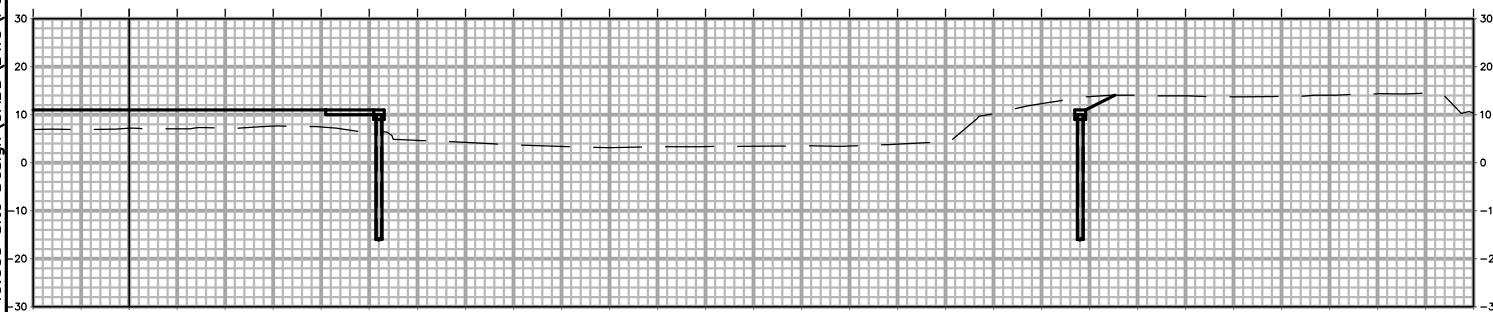
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**DREDGING PLAN**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
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MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1" = 100'
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DATE: 12/09/2019	SHEET: 10 of 23



Material(s) at Station 0+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	0.00	0.00	0.00



Material(s) at Station 0+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	0.00	0.00	0.00

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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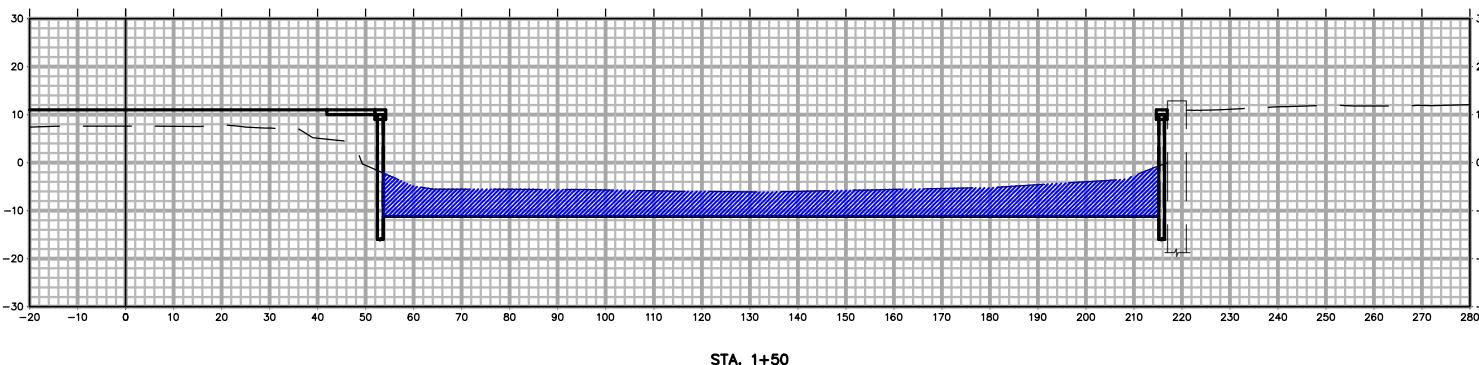
## DREDGING CROSS SECTIONS (1 OF 10)

### FOR SOUTH AMBOY FERRY TERMINAL

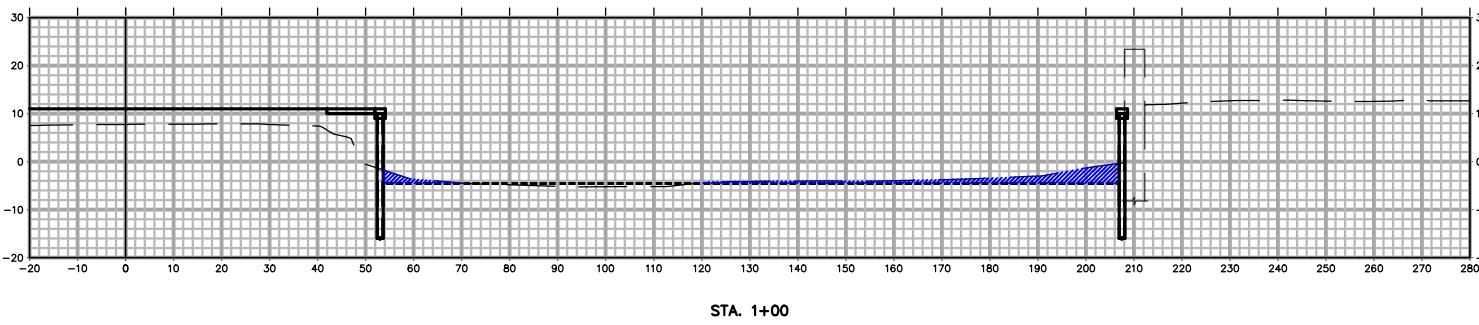
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

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Material(s) at Station 1+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	962.77	995.87	1100.29



Material(s) at Station 1+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	112.78	104.42	104.42

SHT = +2.73'  
 MHW = +2.30'  
 MLW = -2.91'

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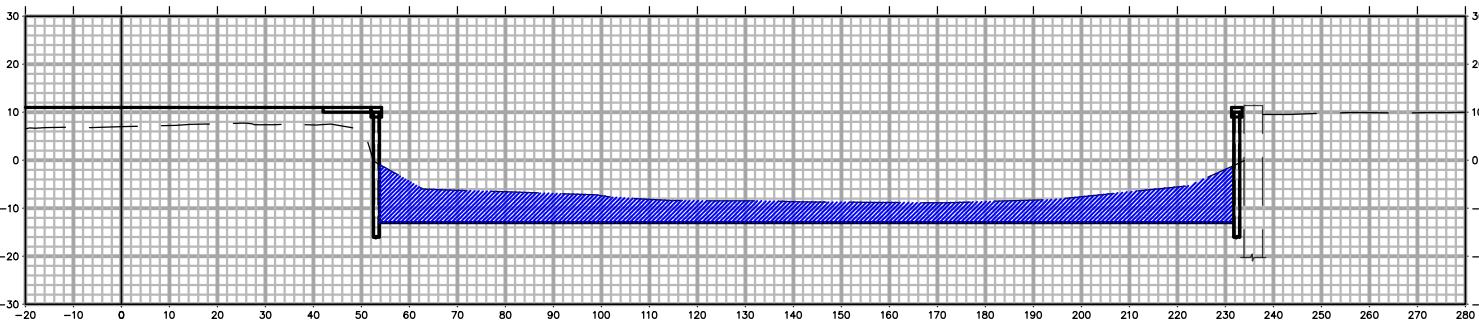
## DREDGING CROSS SECTIONS (2 OF 10)

### FOR SOUTH AMBOY FERRY TERMINAL

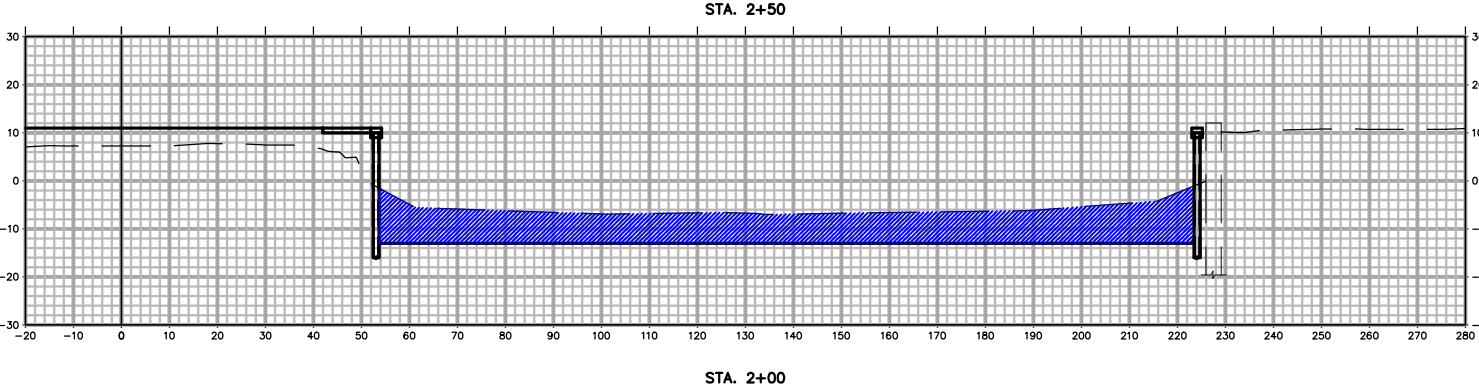
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Material(s) at Station 2+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	1014.43	2034.98	5122.42



Material(s) at Station 2+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	1183.35	1987.15	3087.44

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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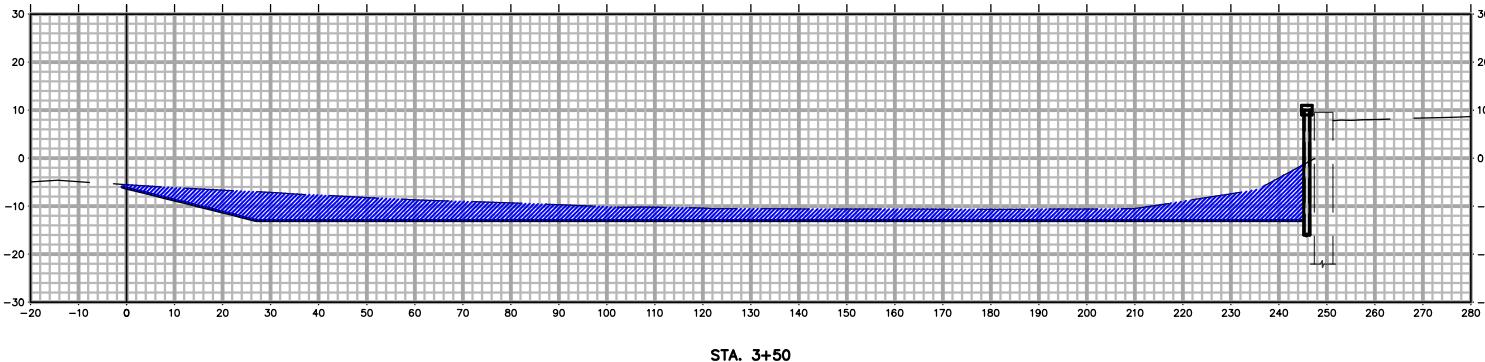
## DREDGING CROSS SECTIONS (3 OF 10)

### FOR SOUTH AMBOY FERRY TERMINAL

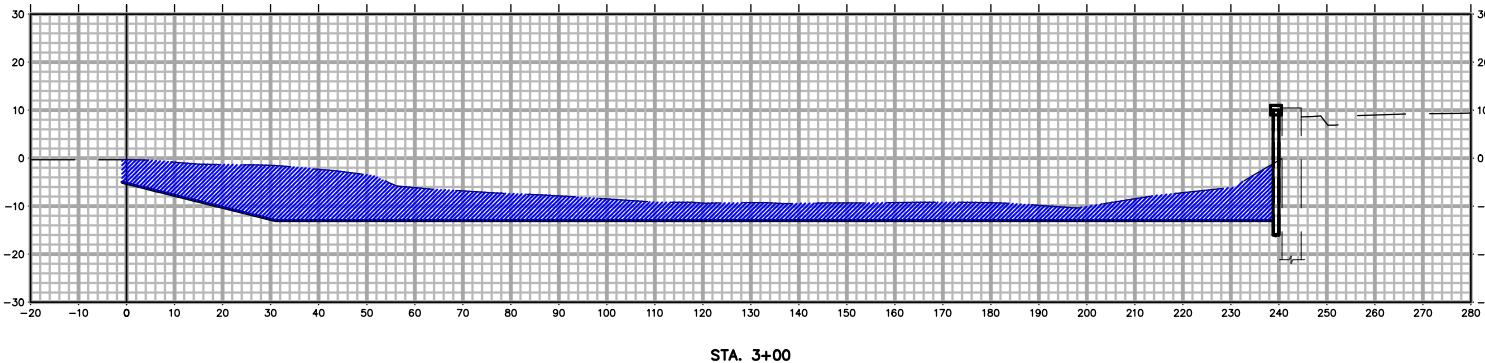
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1: 40
CHECKED BY: BF	FIELD BOOK:
DATE: 12/09/2019	SHEET: 13 of 23



Material(s) at Station 3+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	877.62	2077.07	9403.23



Material(s) at Station 3+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	1365.61	2203.74	7326.16

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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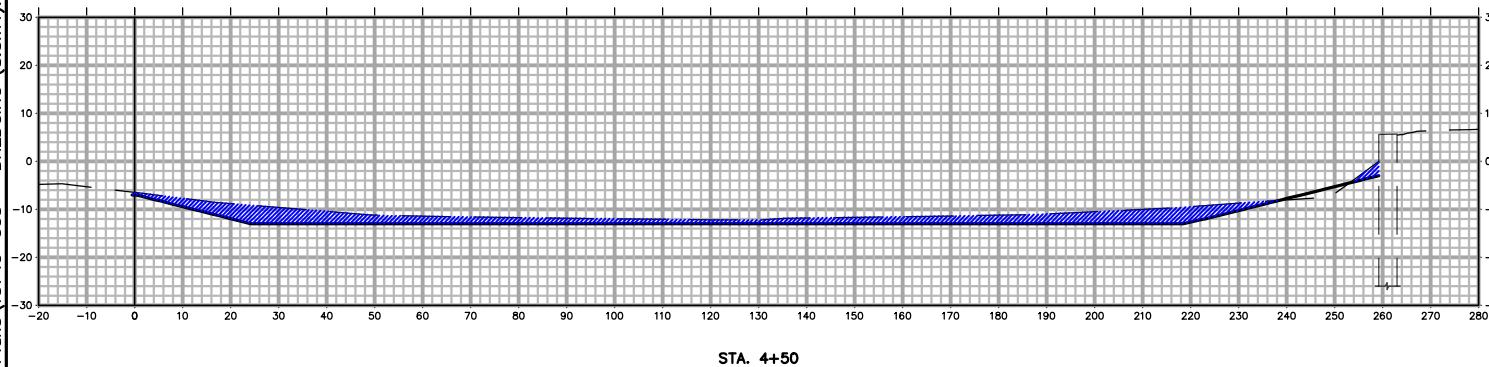
## DREDGING CROSS SECTIONS (4 OF 10)

### FOR SOUTH AMBOY FERRY TERMINAL

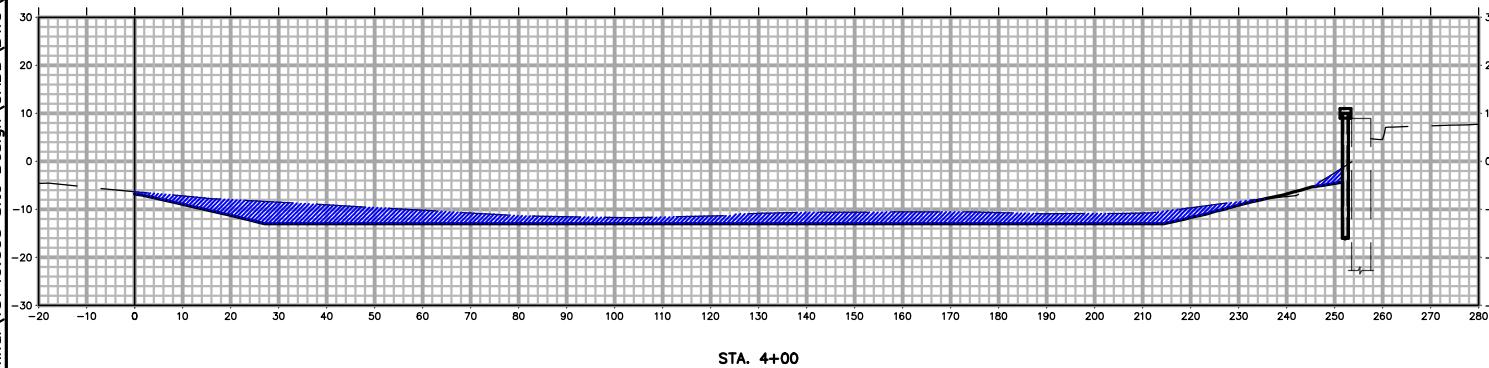
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

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DRAWN BY: DS	SCALE: 1: 40
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Material(s) at Station 4+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	421.90	890.97	11607.14



Material(s) at Station 4+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	540.35	1312.94	10716.17

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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## DREDGING CROSS SECTIONS (5 OF 10)

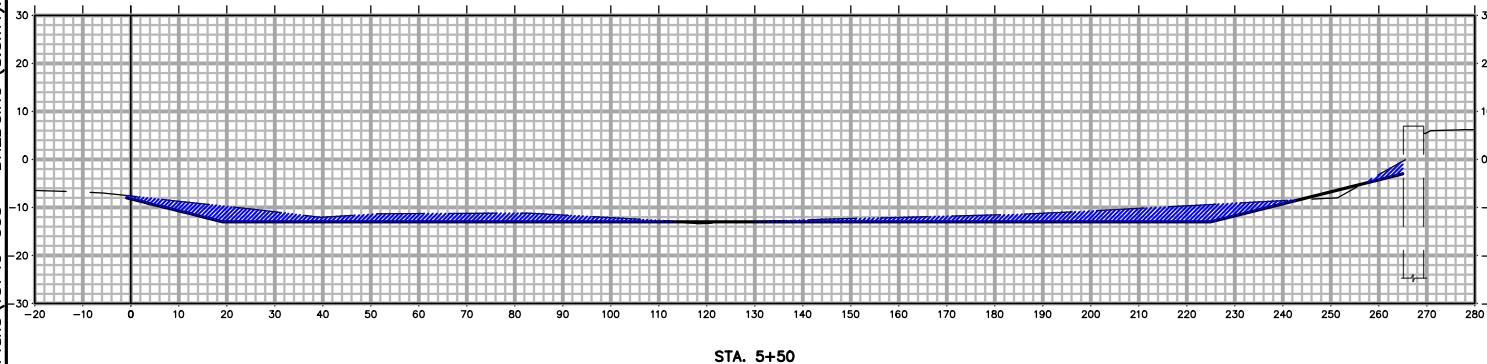
FOR

**SOUTH AMBOY FERRY TERMINAL**

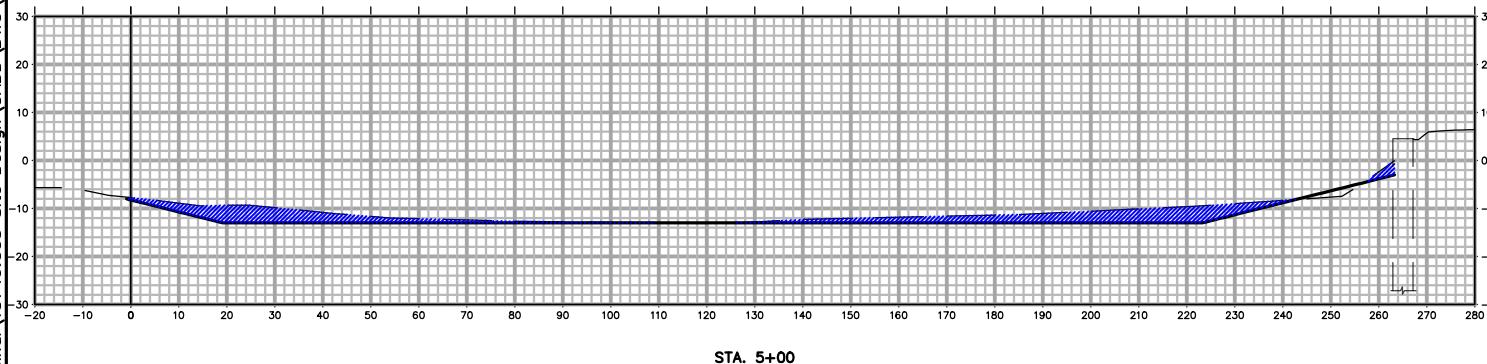
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1: 40
CHECKED BY: BF	FIELD BOOK:
DATE: 12/09/2019	SHEET: 15 of 23



Material(s) at Station 5+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	373.16	670.87	12994.00



Material(s) at Station 5+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	351.38	715.99	12323.13

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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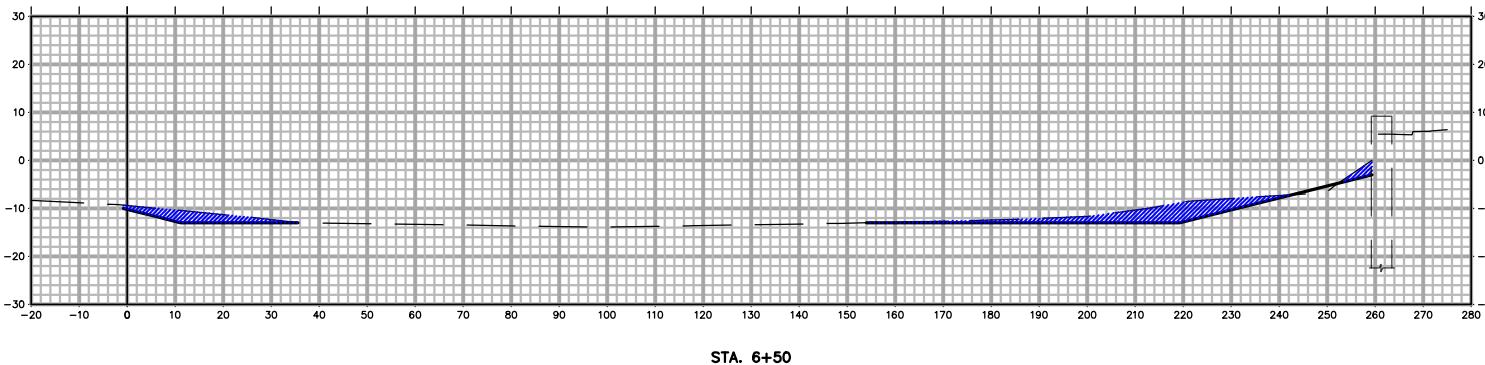
## DREDGING CROSS SECTIONS (6 OF 10)

### FOR SOUTH AMBOY FERRY TERMINAL

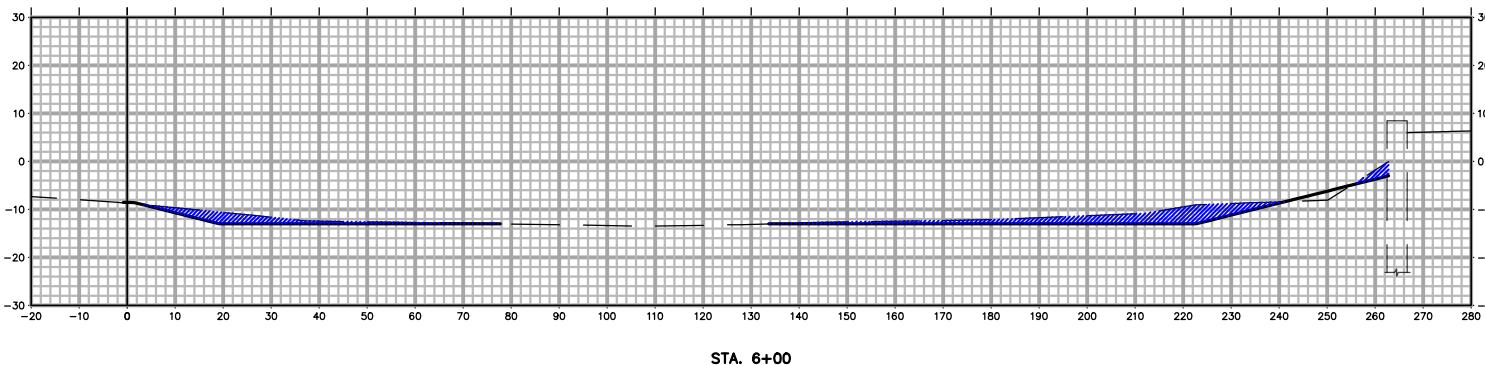
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1: 40
CHECKED BY: BF	FIELD BOOK:
DATE: 12/09/2019	SHEET: 16 of 23



Material(s) at Station 6+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	187.90	370.99	13907.52



Material(s) at Station 6+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	212.77	542.53	13536.53

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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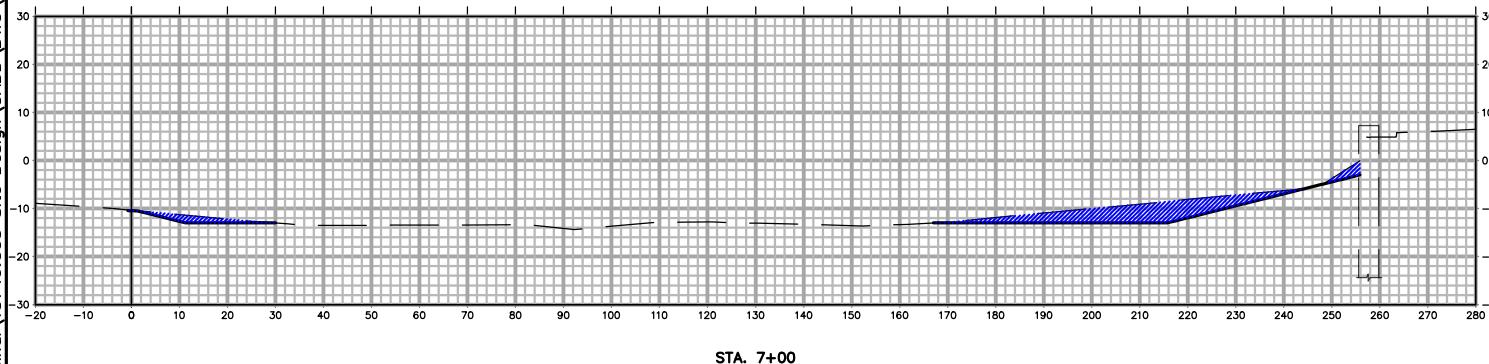
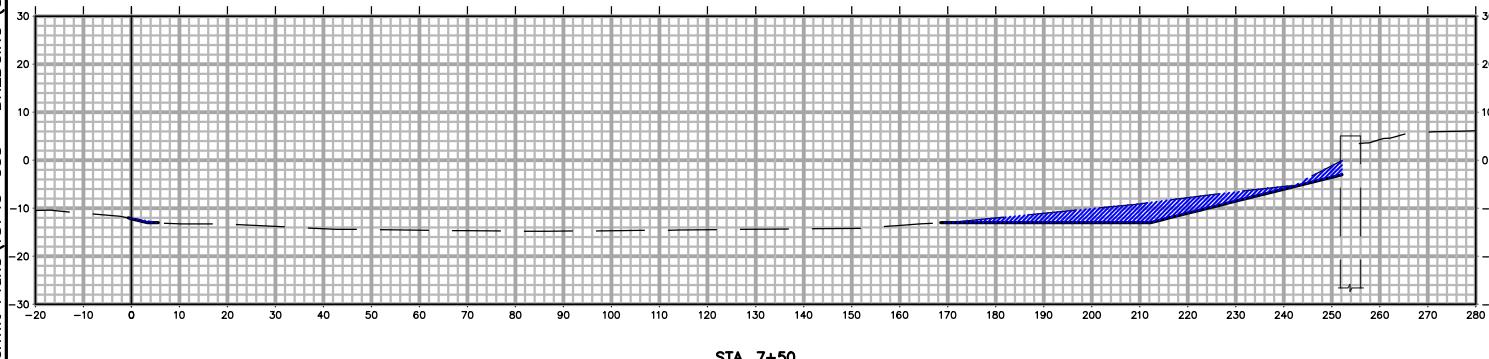
## DREDGING CROSS SECTIONS (7 OF 10)

FOR  
**SOUTH AMBOY FERRY TERMINAL**

BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1: 40
CHECKED BY: BF	FIELD BOOK:
DATE: 12/09/2019	SHEET: 17 of 23



SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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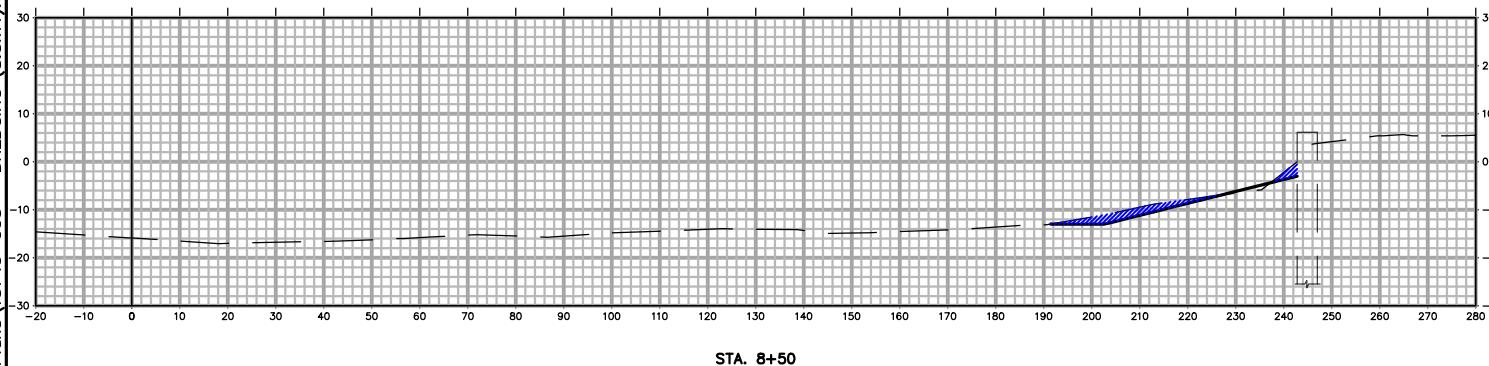
## DREDGING CROSS SECTIONS (8 OF 10)

### FOR SOUTH AMBOY FERRY TERMINAL

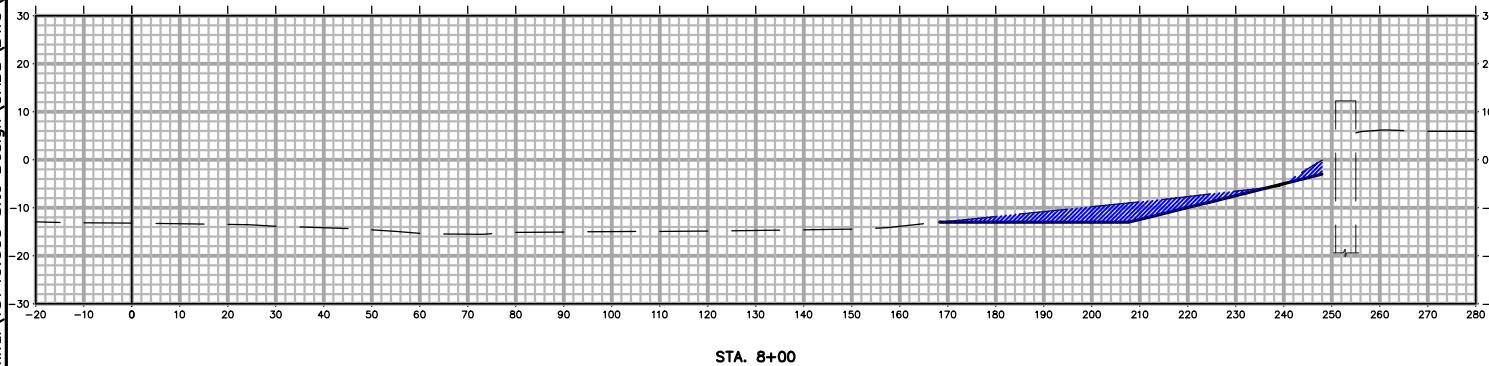
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

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DRAWN BY: DS	SCALE: 1: 40
CHECKED BY: BF	FIELD BOOK:
DATE: 12/09/2019	SHEET: 18 of 23



Material(s) at Station 8+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	48.33	181.78	15098.35



Material(s) at Station 8+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	148.00	296.81	14916.57

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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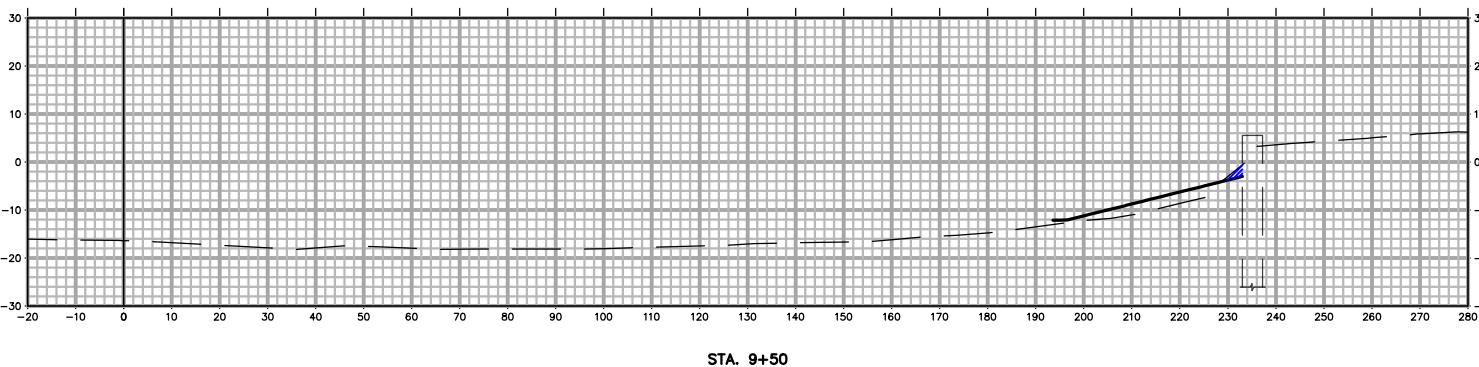
## DREDGING CROSS SECTIONS (9 OF 10)

### FOR SOUTH AMBOY FERRY TERMINAL

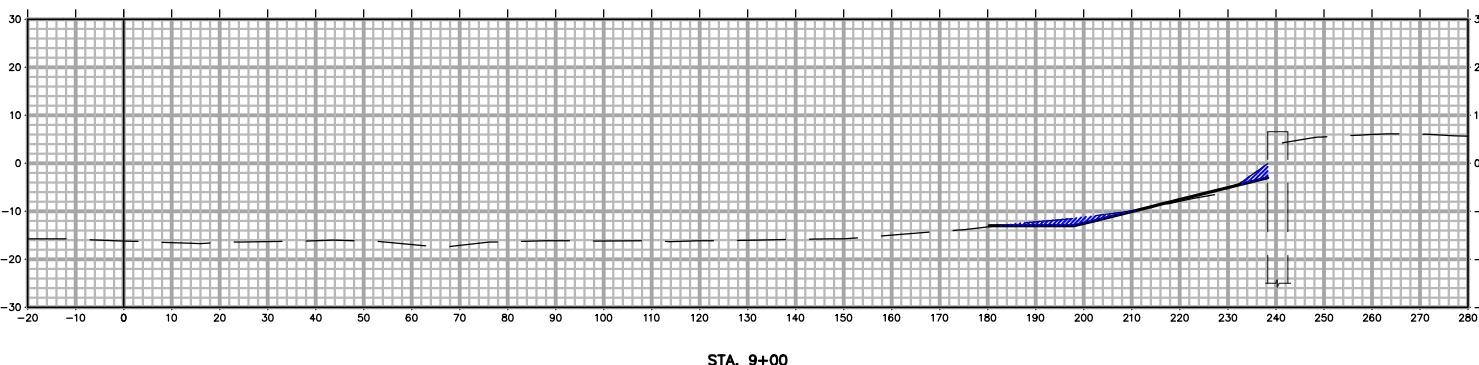
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1: 40
CHECKED BY: BF	FIELD BOOK:
DATE: 12/09/2019	SHEET: 19 of 23



Material(s) at Station 9+50.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	5.25	33.90	15206.04



Material(s) at Station 9+00.00			
Material Name	Area (SF)	Volume (CY)	Cumulative Volume (CY)
Dredging	31.37	73.79	15172.14

SHT = +2.73'  
MHW = +2.30'  
MLW = -2.91'

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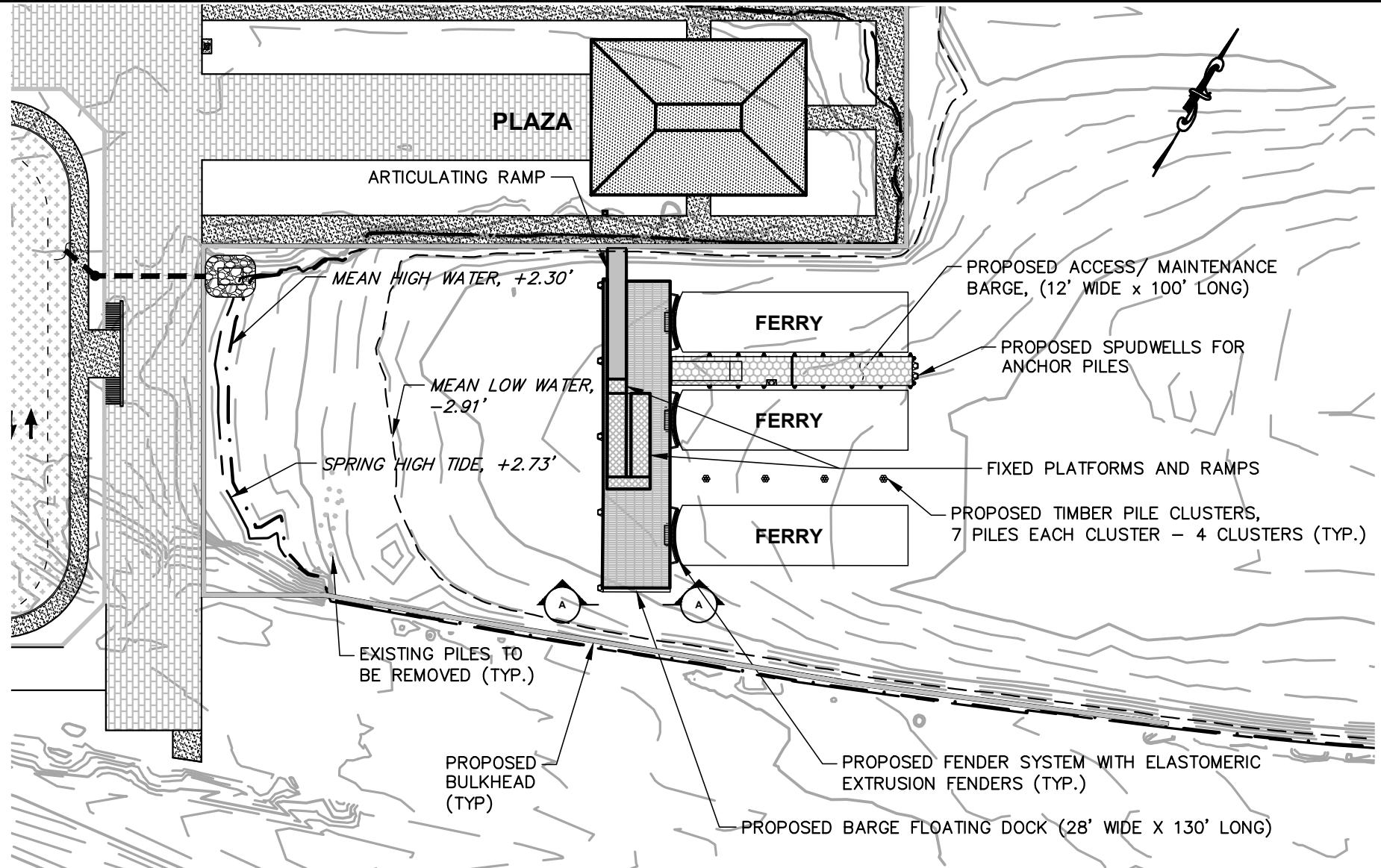
## DREDGING CROSS SECTIONS (10 OF 10)

FOR  
**SOUTH AMBOY FERRY TERMINAL**

BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1: 40
CHECKED BY: BF	FIELD BOOK:
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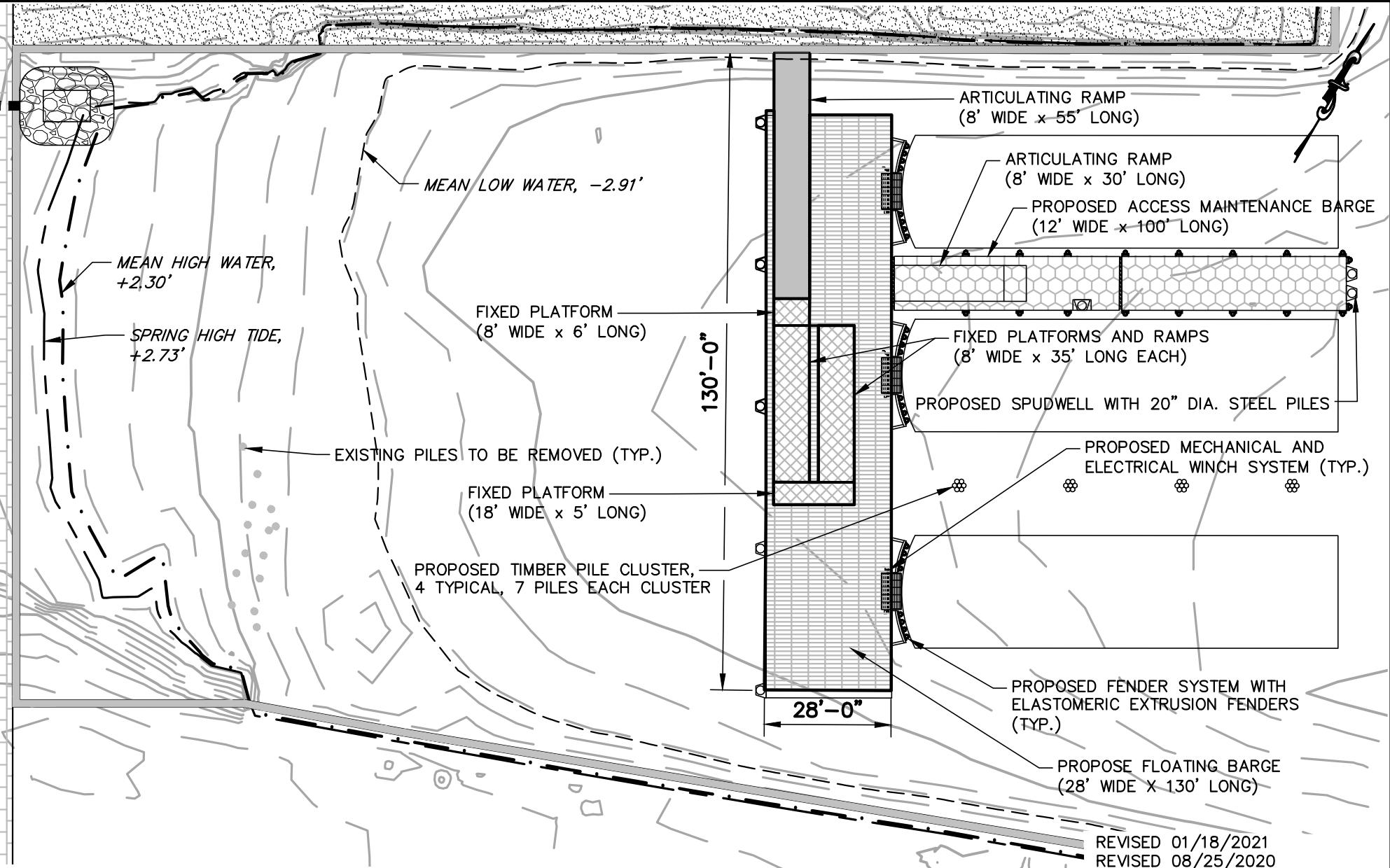
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## OVERALL FERRY DOCKING PLAN FOR SOUTH AMBOY FERRY TERMINAL

BLOCK 161.02 LOTS 25.07, 25.08 & 90.1

CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

DESIGNED BY: DS	PROJECT NUMBER: 13749.003
DRAWN BY: DS	SCALE: 1"=60'
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**FLOATING DOCK PLAN**  
FOR  
**SOUTH AMBOY FERRY TERMINAL**  
BLOCK 161.02 LOTS 25.07, 25.08 & 90.1  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY NEW JERSEY

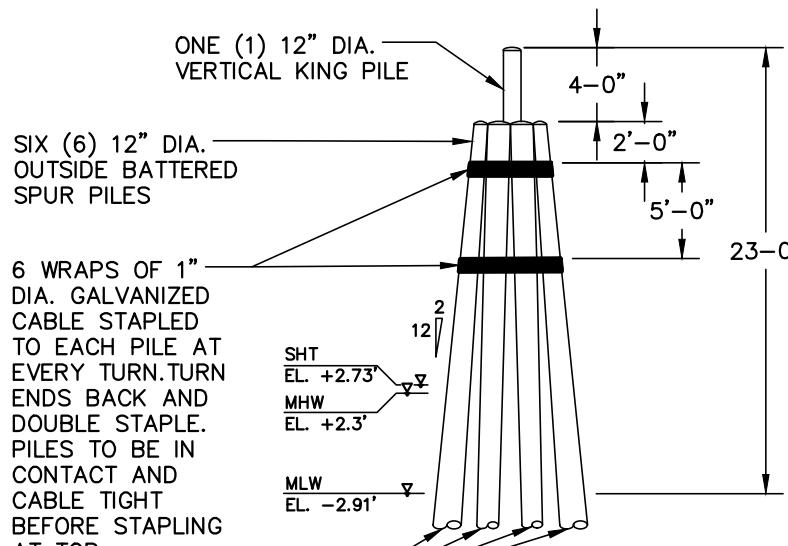
DESIGNED BY:	PROJECT NUMBER:
DS	13749.003
DRAWN BY:	SCALE:
DS	1"=30'
CHECKED BY:	FIELD BOOK:
BF	
DATE:	SHEET:
12/09/2019	22 of 23

NOTE: STRUCTURES TO EXTEND APPROX. 37.3 FEET BELOW MLW

6 WRAPS OF 1" DIA. GALVANIZED CABLE STAPLED TO EACH PILE AT EVERY TURN. TURN ENDS BACK AND DOUBLE STAPLE. PILES TO BE IN CONTACT AND CABLE TIGHT BEFORE STAPLING AT TOP

SIX (6) 12" DIA. OUTSIDE BATTERED SPUR PILES

ONE (1) 12" DIA. VERTICAL KING PILE

**PLAN****ELEVATION****PILE CLUSTER DETAIL**

SCALE: 1" = 10'-0"



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6

WRAPS

OF

1"

DIA.

GALVANIZED

CABLE

STAPLED

TO

EACH

PILE

AT

EVERY

TURN.

TURN

ENDS

BACK

AND

DOUBLE

STAPLE.

PILES

TO

BE

IN

CONTACT

AND

CABLE

TIGHT

BEFORE

STAPLING

AT

TOP

PILE

TIPS

TO

EXTEND

TO

ELEV.

-40

PLAN

ONE

(1)

12"

DIA.

VERTICAL

KING

PILE

PLAN

ONE

(1)

12"

DIA.

VERTICAL

KING

PILE