



**US Army Corps
of Engineers**
Philadelphia District
1650 Arch Street
Philadelphia, PA 19103-2004
Attn: CENAP-OPR

Public Notice

Comment Period Begins: November 20, 2023

Comment Period Ends: December 20, 2023

File Number: NAP-2002-02304, NAP-2013-00189, NAP-2013-00190,
NAP-2013-00191, NAP-2013-00192, NAP- 2013-00193, NAP-2013-
00194

File Name: Philadelphia Regional Port Authority

Contact: Genevieve Sarlo

Email: Genevieve.t.sarlo@usace.army.mil

This District 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).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: Philadelphia Regional Port Authority

AGENT: S.T. Hudson Engineers, Incorporated
900 Dudley Ave
Cherry Hill, NJ 08002

LOCATION: Multiple facilities located along Delaware Avenue from Tioga Street to Pattison Avenue (see attached list for specific locations of each facility) in the City of Philadelphia, Pennsylvania.

PURPOSE: The project purpose is to maintain the safe and efficient loading and unloading of cargo from maritime vessels at multiple Philadelphia Regional Port Authority locations.

PROJECT DESCRIPTION:

The applicant is proposing to perform mechanical maintenance dredging at the Packer Avenue Marine Terminal, Tioga Marine Terminal, Tioga Bulk Liquids (Kinder Morgan) facility, Pier 80 South, Pier 82 South, Pier 84 South, and Pier 122 South. It should be noted that, except for Tioga Marine Terminal, all the subject facilities are currently approved for mechanical maintenance dredging to the depths approved and identified herein under the Weeks Marine "blanket" maintenance dredging individual permit NAP-2002-01681. All dredged material would be disposed by bottom-dump barge at the Weeks Marine Whites Basin re-handling facility (Logan Township, Gloucester County, New Jersey) currently approved for operation by this office under individual permit NAP-2002-01686. Alternatively, the applicant has received approvals to dispose of dredged material

at Fort Mifflin and Biles Island. The applicant has requested a 10-year maintenance dredging approval for each site.

Please see the attached list of sites for their specific Corps of Engineers action identification numbers, locations, dredging depths, design volumes of sediments to be removed from each location per dredging event, and design volume of sediments to be removed from each location over a 10-year period. The applicant has stated that dredging would occur to depths ranging from 32 to 42 feet below mean low water depending upon the specific facility (see attached table) and would not occur between March 15 and May 31 of the same year.

MITIGATION

The applicant has stated that the proposed project has been designed to avoid and minimize adverse effects on the aquatic environment to the maximum extent practicable. Information provided in the application and on plans indicates that there will be no discharge of dredged or fill material in waters of the United States and as such, compensatory mitigation for the proposed structure(s) and/or work is not proposed

CORPS EVALUATION FACTORS

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof. Among these factors are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people.

ENDANGERED SPECIES

A preliminary review of this application indicates that species and/or their critical habitat pursuant to Section 7 of the Endangered Species Act (ESA) may be present in the action area. This office will forward this Public Notice to the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) with a request for technical assistance on whether any ESA-listed species or their critical habitat may be present in the area which would be affected by the proposed activity. This office will evaluate the potential effects of the proposed actions on ESA-listed species or their critical habitat and will consult with the USFWS and/or NMFS, as appropriate. ESA Section 7 consultation would be concluded prior to the final decision on this permit application.

CULTURAL RESOURCES AND TRIBAL TRUST

The District's Cultural Resource Specialist and Tribal Liaison is currently reviewing the proposed permit action for potential impacts to Historic Properties eligible for or listed on the National Register of Historic Places and for potential issues concerning the Tribes. A determination of effects will be coordinated with the State Historic Preservation Office, the Tribes and other consulting parties as necessary.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) requires all federal agencies to consult with the NMFS for all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). A preliminary review of this application indicates that EFH is present within the project area. This office will evaluate the potential effects of the proposed actions on EFH and will consult with NMFS, as appropriate. Consultation would be concluded prior to the final decision on this permit application.

WATER QUALITY CERTIFICATE

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate (WQC) is required from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

COASTAL ZONE MANAGEMENT ACT

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management (CZM) Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State CZM Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact on the State's coastal zone should be sent to this office with a copy to the State's CZM office.

SUBMISSION OF COMMENTS AND PUBLIC HEARING REQUEST

Any comments received will be considered by this office to determine whether to issue, modify, condition, or deny a permit for this proposed project. To make this decision, comments are used to assess the probable impact on the public interest.

Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work must be submitted, in writing, within the comment period indicated in the header above. Any person may request, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing must be in writing and state the reasons for holding a public hearing.

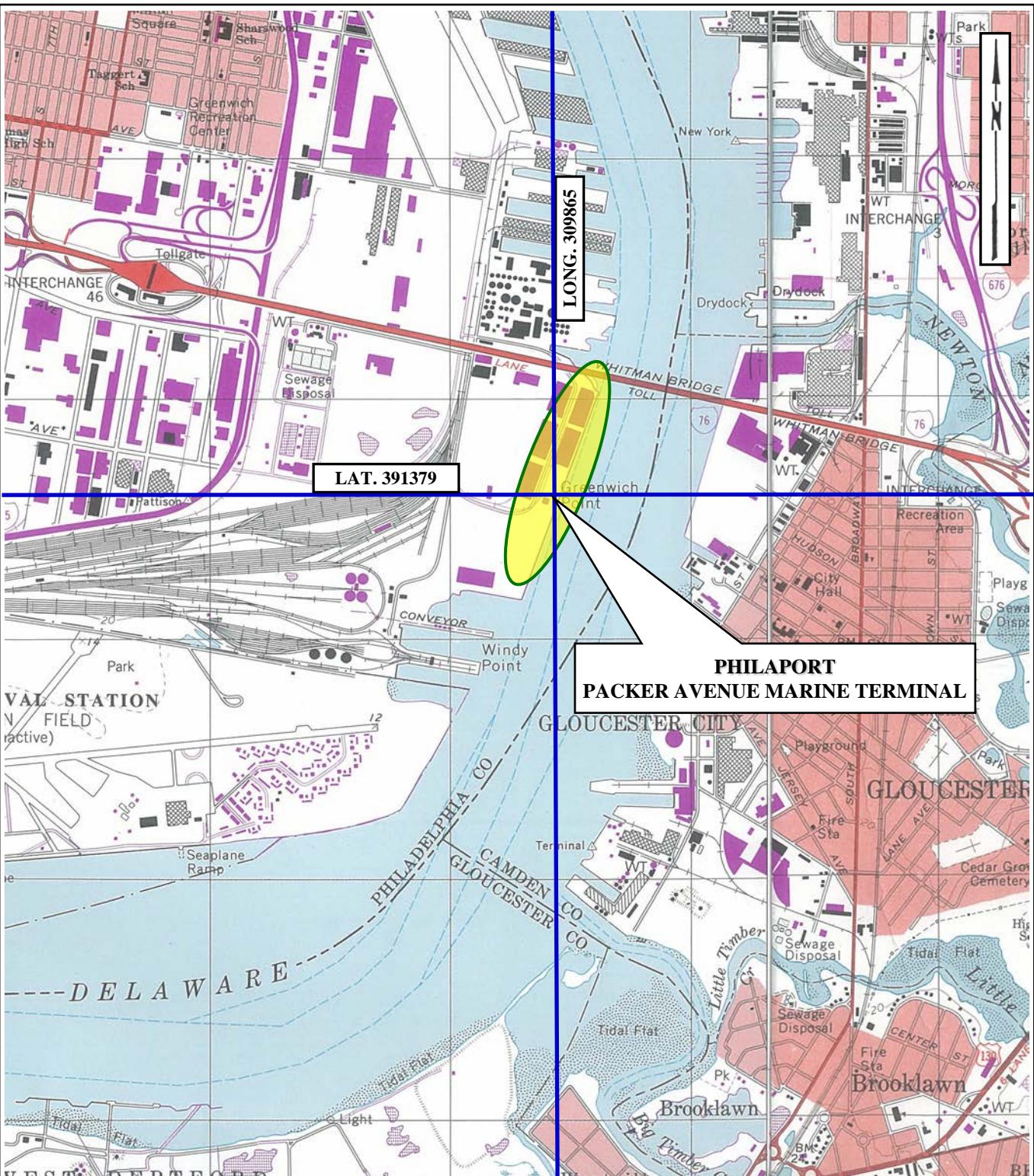
Please provide any comments, request for a public hearing, or requests for additional information to the Regulatory Project Manager indicated above. All Public Notices are posted on our website at:

<https://www.nap.usace.army.mil/Missions/Regulatory/Public-Notices/>

FOR: Todd A. Schaible
Chief, Regulatory Branch

CENAP-OPR-2002-02304

PACKER AVENUE

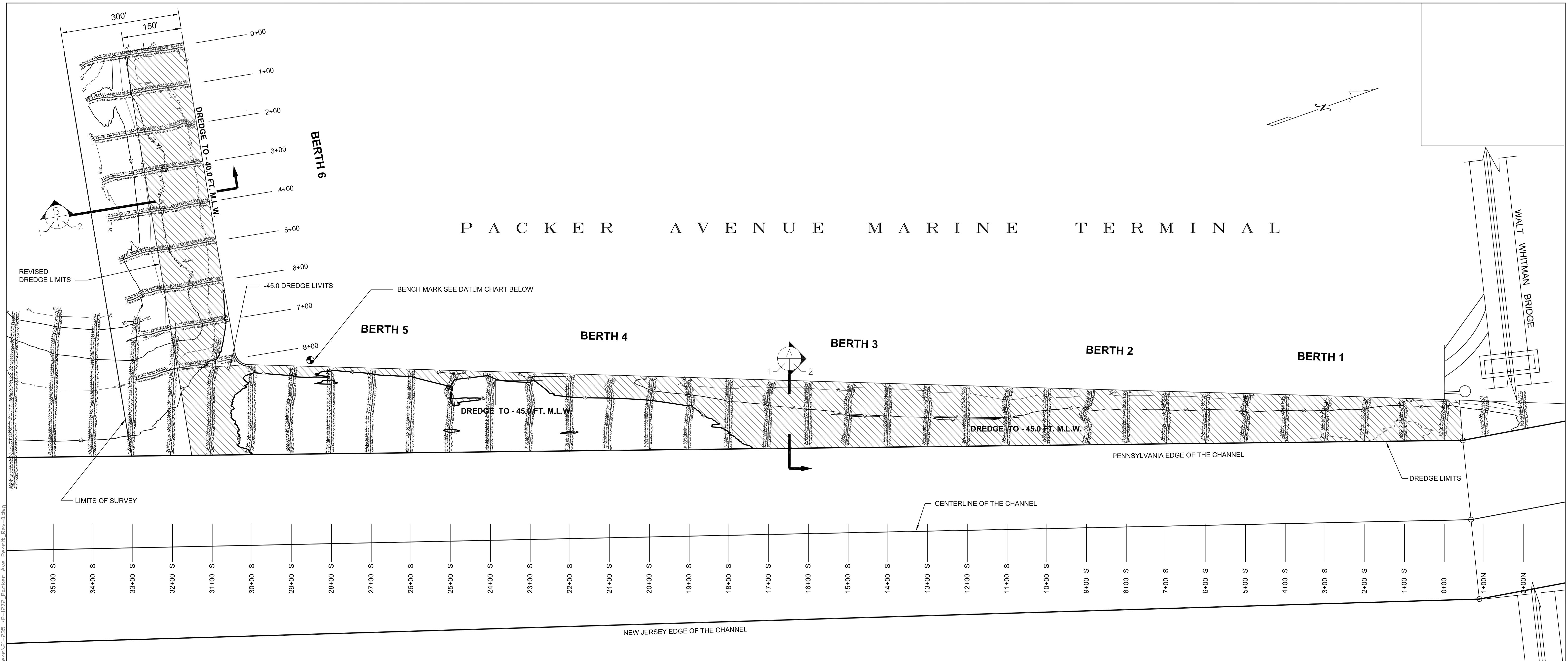


PROJECT SITE LOCATION MAP

UNITED STATES GEOLOGIC SURVEY QUADRANGLE

PHILADELPHIA, PA-NJ & CAMDEN, NJ-PA

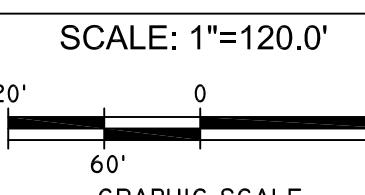
SCALE: 1:24000



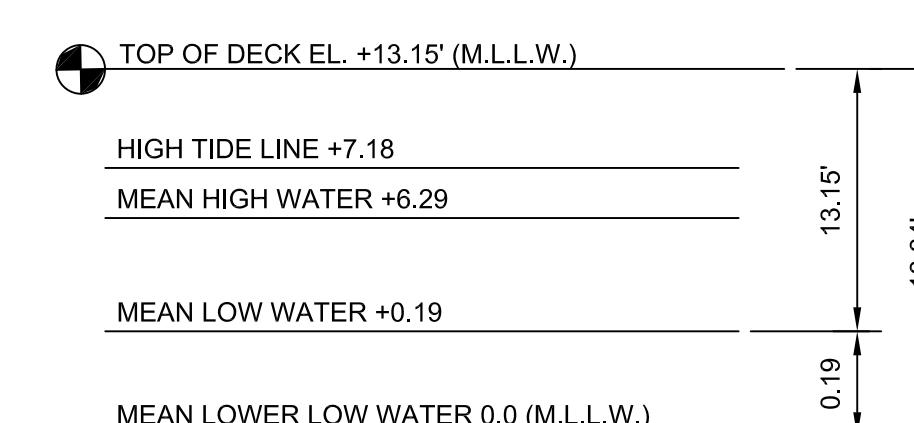
HYDROGRAPHIC SURVEY NOTES:

- ALL SOUNDINGS WERE CONDUCTED USING:
 - TRIMBLE SPS 855 DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) WITH RTK.
 - HYPACK MAX SOFTWARE.
 - TELEDYNE ODOM HYDROTRAC CONTINUOUS RECORDING FATHOMETER.
- SOUNDINGS WERE CONDUCTED ON THURSDAY OCTOBER 7, 2021.
- DECIMAL POINT (•) DENOTES SOUNDING LOCATION.
- SOUNDINGS ARE REFERENCED TO MEAN LOWER LOW WATER (M.L.L.W. IS 0.19' BELOW MEAN LOW WATER) AND ARE EXPRESSED IN FEET AND TENTHS OF A FOOT.
- HORIZONTAL CONTROL IS BASED ON PENNSYLVANIA SOUTH (3702) STATE PLANE COORDINATES, NAD 83, AS ESTABLISHED IN THE FIELD AND SOLELY FOR THE USE OF THIS HYDROGRAPHIC SURVEY.
- VERTICAL CONTROL WAS OBTAINED FROM KEYNET GPS (TRIMBLE VIRTUAL REFERENCE STATION [VRS] NETWORK) REAL-TIME KINEMATIC (RTK) CORRECTIONS TO NORTH AMERICAN VERTICAL DATUM of 1988 (NAVD88), AND CONVERTED TO UNITED STATES ARMY CORPS OF ENGINEERS (USACE) MEAN LOWER LOW WATER (M.L.L.W.).
- CONTOURS WERE INTERPOLATED WITH TRIMBLE NAVIGATION LIMITED, TERRAMODEL VERSION 10.11.
- CHANNEL LOCATION LINES WERE PROVIDED BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE), PHILADELPHIA DISTRICT.
- THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF THE SURVEY CONDUCTED ON THE DATE INDICATED, AND CAN ONLY BE CONSIDERED AS INDICATING GENERAL CONDITIONS EXISTING AT THAT TIME.

SITE PLAN



DATUM CHART

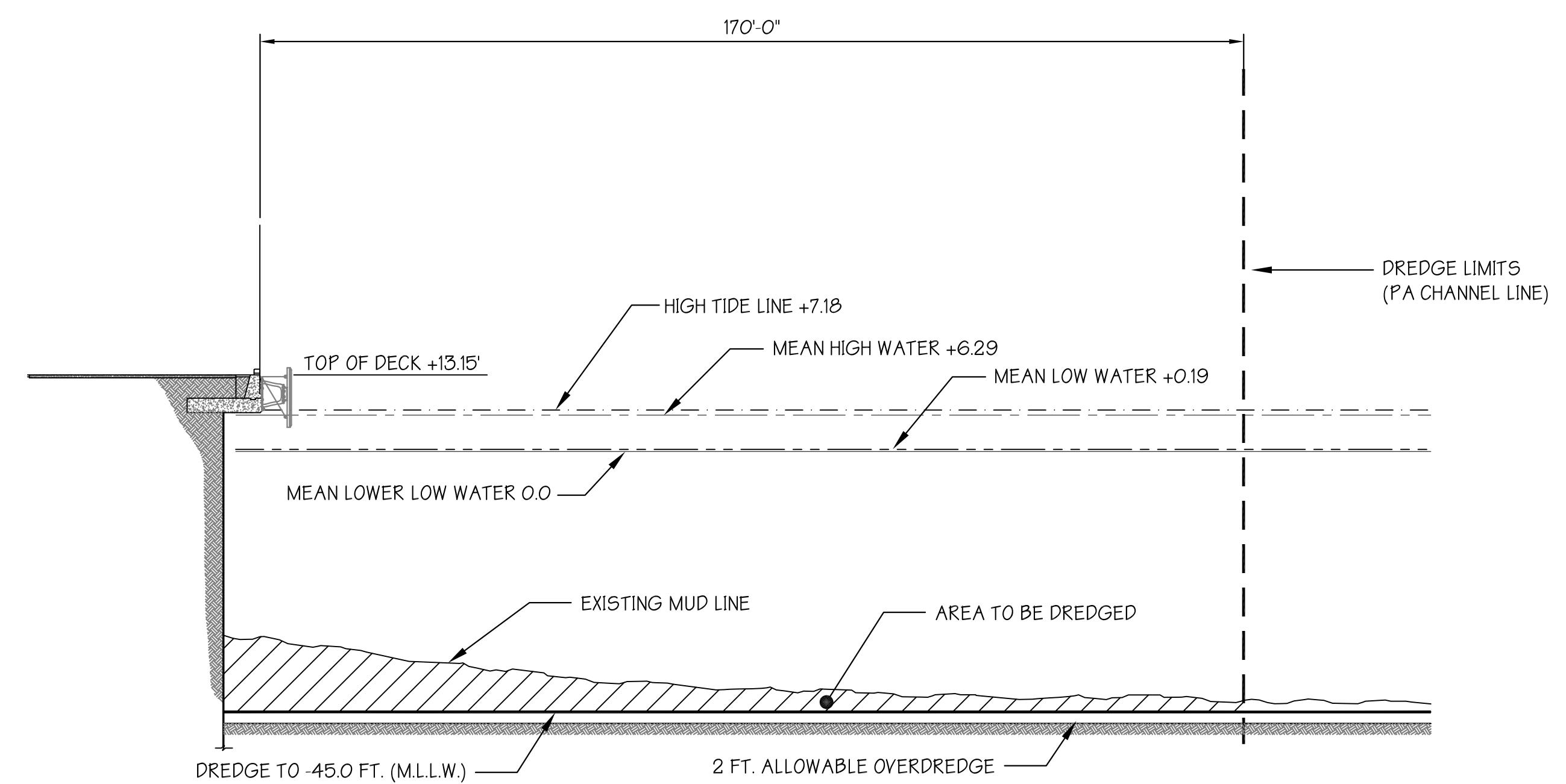


DREDGE VOLUME BERTHS 1-5 = 77,800 CUBIC YARDS (-45'+2)
 DREDGE VOLUME BERTH 6 = 55,100 CUBIC YARDS (-40'+2)
 TOTAL DREDGE VOLUME = 132,900 CUBIC YARDS (INCLUDING OVER DREDGE)
 TOTAL DREDGE AREA = 454,846 SQUARE FEET OR 12.5 ACRES

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED:	MAINTENANCE DREDGING		
AT:	PACKER AVENUE MARINE TERMINAL		
COUNTY OF:	PHILADELPHIA		
APPLICATION BY:	PHILAPORT		
S.T. HUDSON ENGINEERS, INC.			
PROFESSIONAL ENGINEERS & CONSULTANTS			
900 Dudley Avenue			
Cherry Hill, NJ 08002			
Phone 856-342-6600			
Fax No. 856-342-8323			
drawn	MP	date	1/11/2022
contract	21-235	FILE	P-1272
		dwg. no.	1 of 2
			O



PACKER AVENUE MARINE TERMINAL

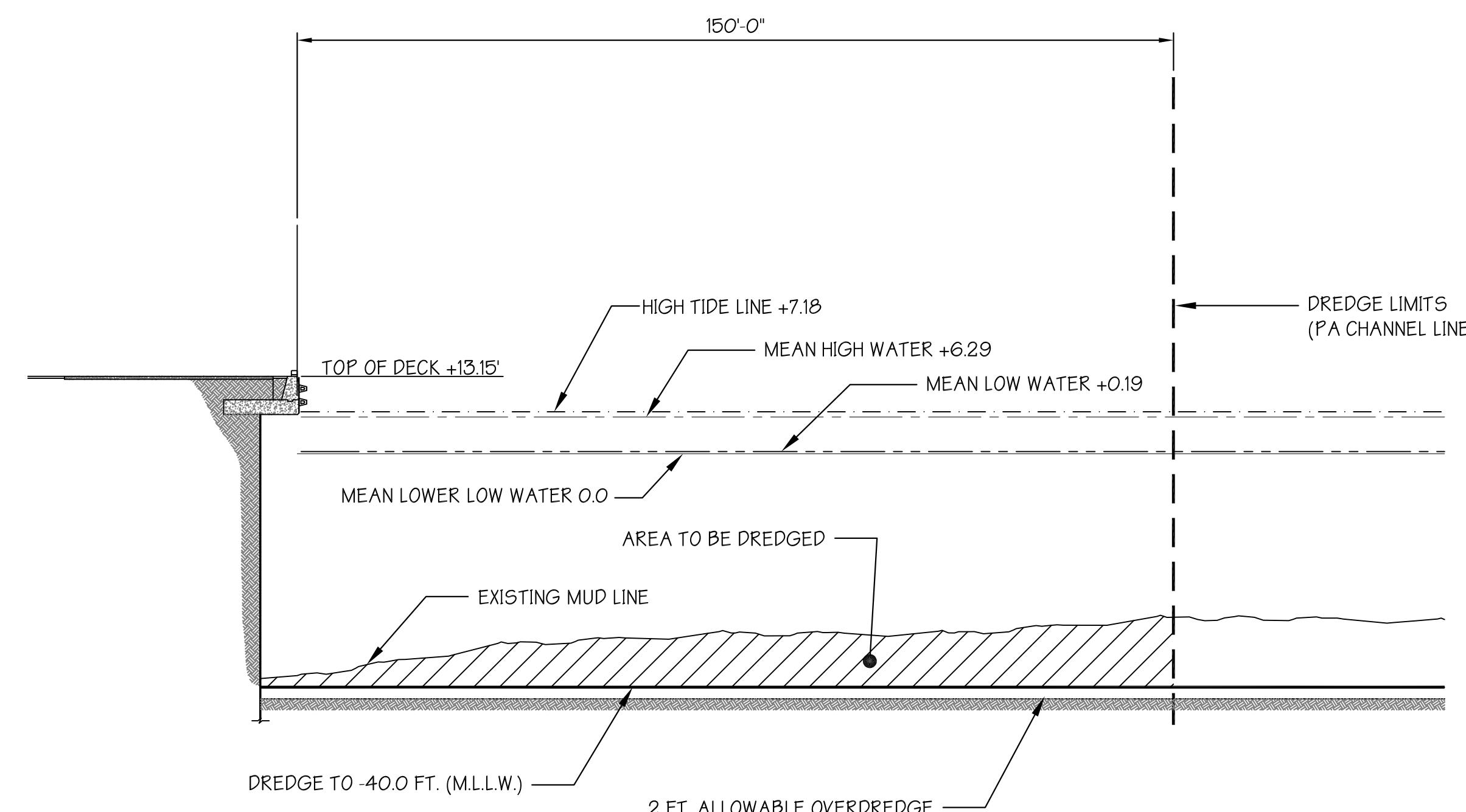
SECTION

SCALE: 1"=20'

1 2

20' 10' 0 20'

SCALE: 1"=20'



PACKER AVENUE MARINE TERMINAL

SECTION

SCALE: 1"=20'

1 2

20' 10' 0 20'

SCALE: 1"=20'

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED: MAINTENANCE DREDGING

AT: PACKER AVENUE MARINE TERMINAL

COUNTY OF: PHILADELPHIA

APPLICATION BY: PHILAPORT

S.T. HUDSON ENGINEERS, INC.

PROFESSIONAL ENGINEERS & CONSULTANTS
900 Dudley Avenue
Cherry Hill, NJ 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn MP date 1/11/2022 dwg. no. rev.

contract 21-235 FILE P-1272 2 of 2 O

CENAP-OPR-2013-00189

TIOGA MARINE TERMINAL





ADJACENT PROPERTY OWNER:

BWC TERMINALS

TOTAL DREDGE AREA = 2,400,000 SQUARE FEET or 56 ACRES

TOTAL DREDGE VOLUME = 53,700 CUBIC YARDS
(INCLUDING OVERDREDGE)

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION, AND
THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED: MAINTENANCE DREDGING

AT: TIOGA MARINE TERMINAL

COUNTY OF: PHILADELPHIA

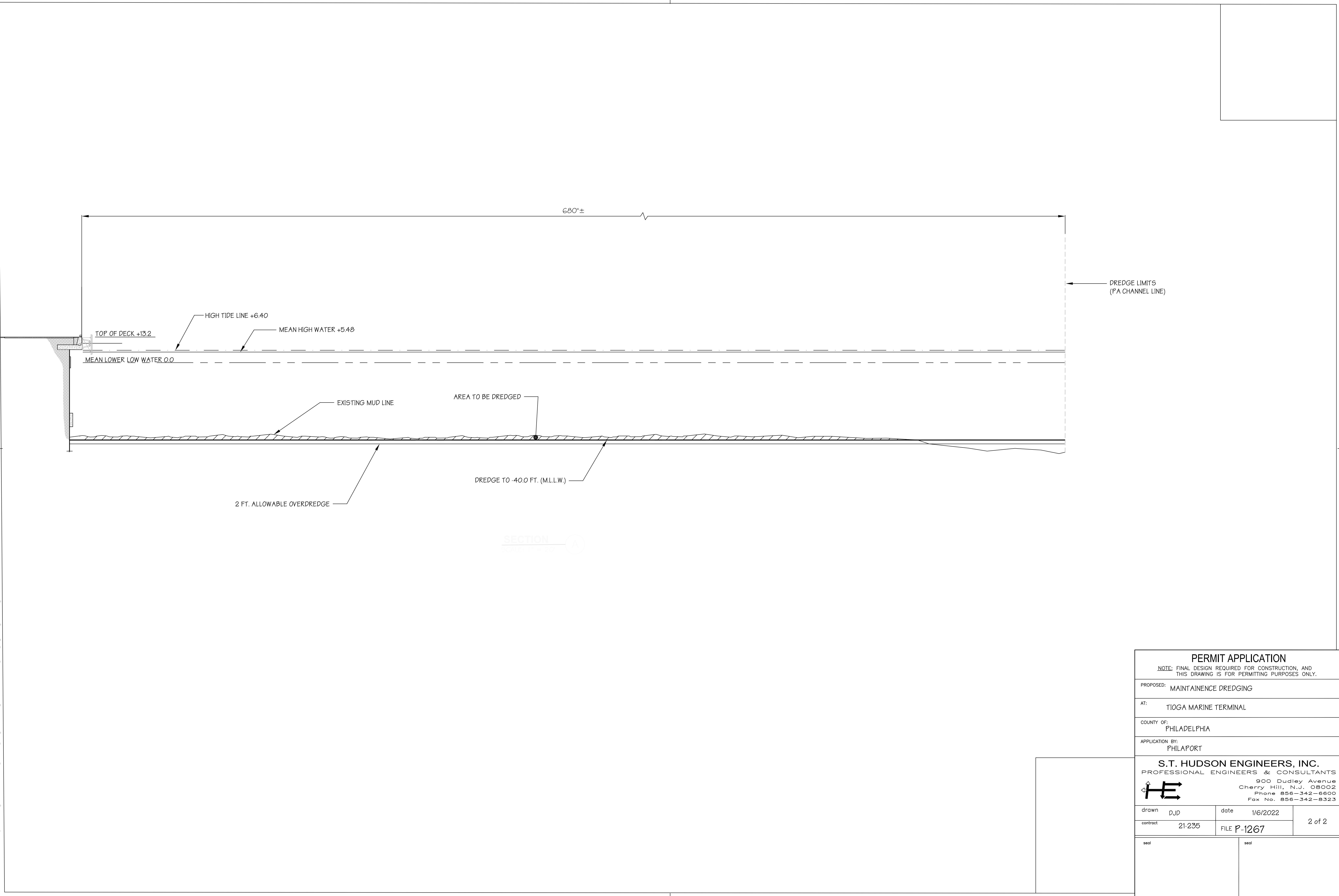
APPLICATION BY:
PHILAPORT

S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS

900 Dudley Avenue
Cherry Hill, N.J. 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn DJD	date 1/6/2022	1 of 2
contract 21-235	FILE P-1267	

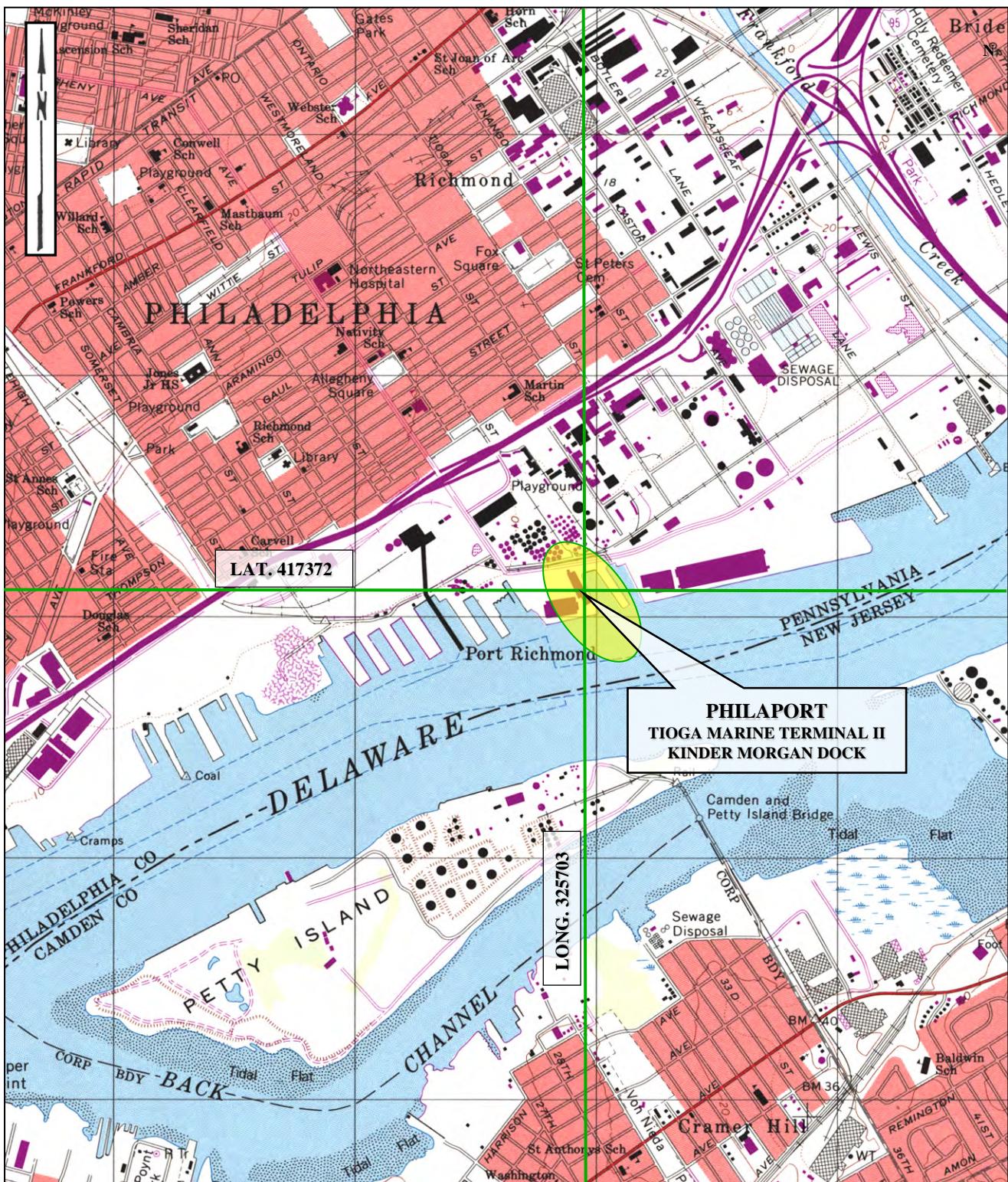
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CENAP-OPR-2013-190

TIOGA BULK LIQUIDS TERMINAL

(KINDER MORGAN FACILITY)



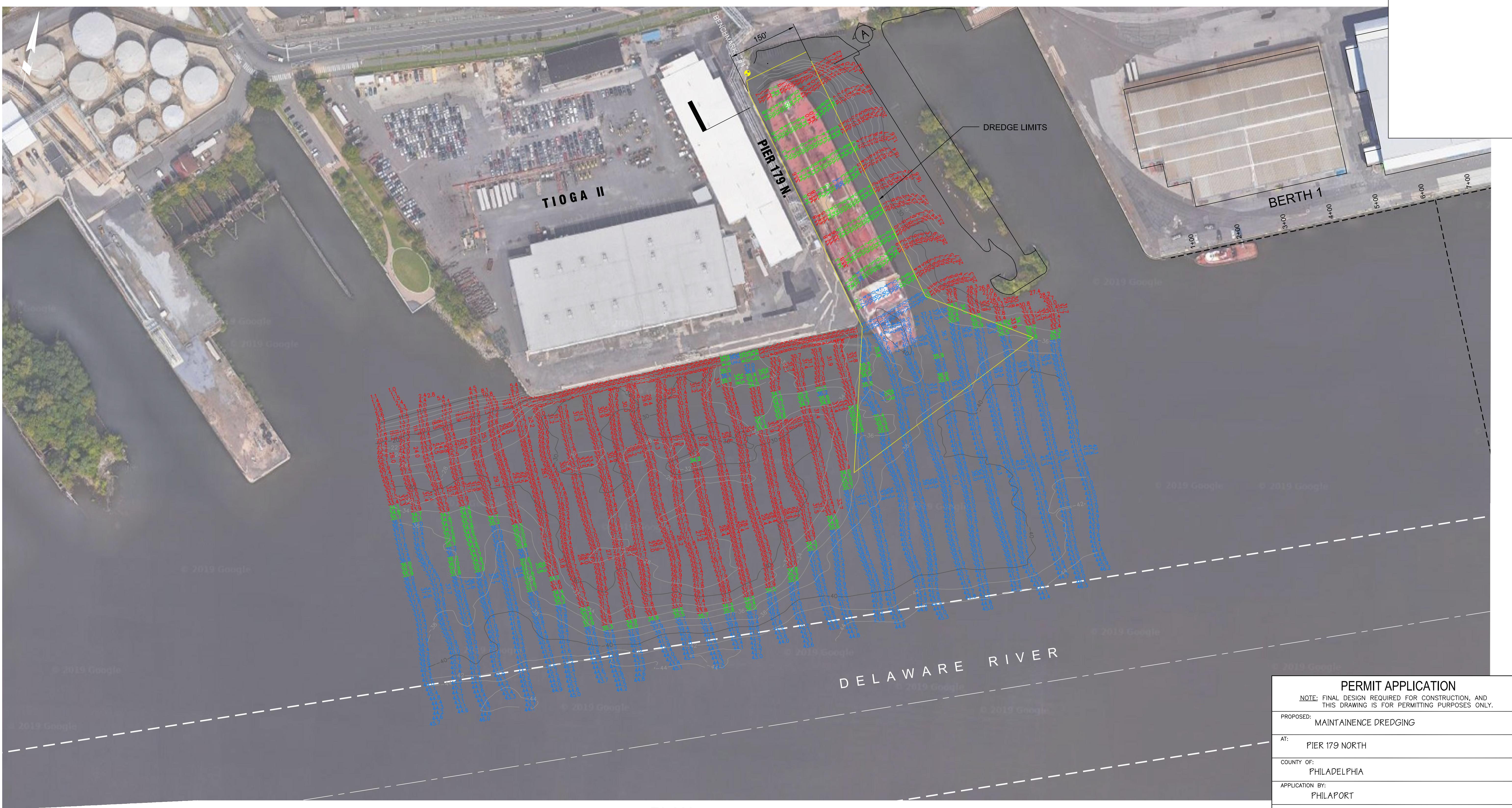
PROJECT SITE LOCATION MAP

UNITED STATES GEOLOGIC SURVEY QUADRANGLE

CAMDEN, NEW JERSEY

SCALE 1:24000

PHILAPORT



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TOTAL DREDGE AREA = 155,000 SQUARE FEET or 3.5 ACRES
TOTAL DREDGE VOLUME = 8,300 CUBIC YARDS
(INCLUDING OVERDREDGE)

- NOTES:**

 1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATES SHOWN AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.
 2. AERIAL IMAGE IS FROM OCTOBER 2011 GOOGLE MAP.
 3. SURVEYED AUG. 18 & 19, 2021 BY GAHAGAN & BRYANT ASSOCIATES, INC.
 4. TIDES WERE OBTAINED FROM NOAA TIDE STATION 8545240 PHILADELPHIA, PA.
 5. EQUIPMENT USED:
VESSEL: "SEA FIX"
ECHO SOUNDER: ODOM CV 200 (200/33kHz)
HORIZONTAL POSITIONING: POSMV 320 w/ U.S. COAST GUARD DPGS.
 6. THE PLANE OF MLLW IS 3.11 FEET BELOW NAVD88 AND 0.19 FEET BELOW MLW.

**REFERENCE DRAWING:
DRAWING BACKGROUND AND SOUNDING INFORMATION
GBA ENGINEERS & SURVEYORS
GAHAGAN & BRYANT ASSOCIATES, INC.
BALTIMORE, MARYLAND
(410) 682-5595**

A graphic titled "SOUNDING LEGS" featuring three horizontal bars: red, green, and blue, each with a dashed diagonal line across it.

DATUM

ADJACENT PROPERTY OWNER:

LEGEND

- ■ — CHANNEL CENTER LINE
- ■ ■ ■ ■ CHANNEL TOE
- 22 — EXISTING 2 FT CONTOURS
- 20 — EXISTING 10 FT CONTOURS
- DREDGING TEMPLATE CHANNEL TOE

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION, AND
THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED:
MAINTAINENCE DREDGING

AT:
PIER 179 NORTH

COUNTY OF:
PHILADELPHIA

APPLICATION BY:
PHILAPORT

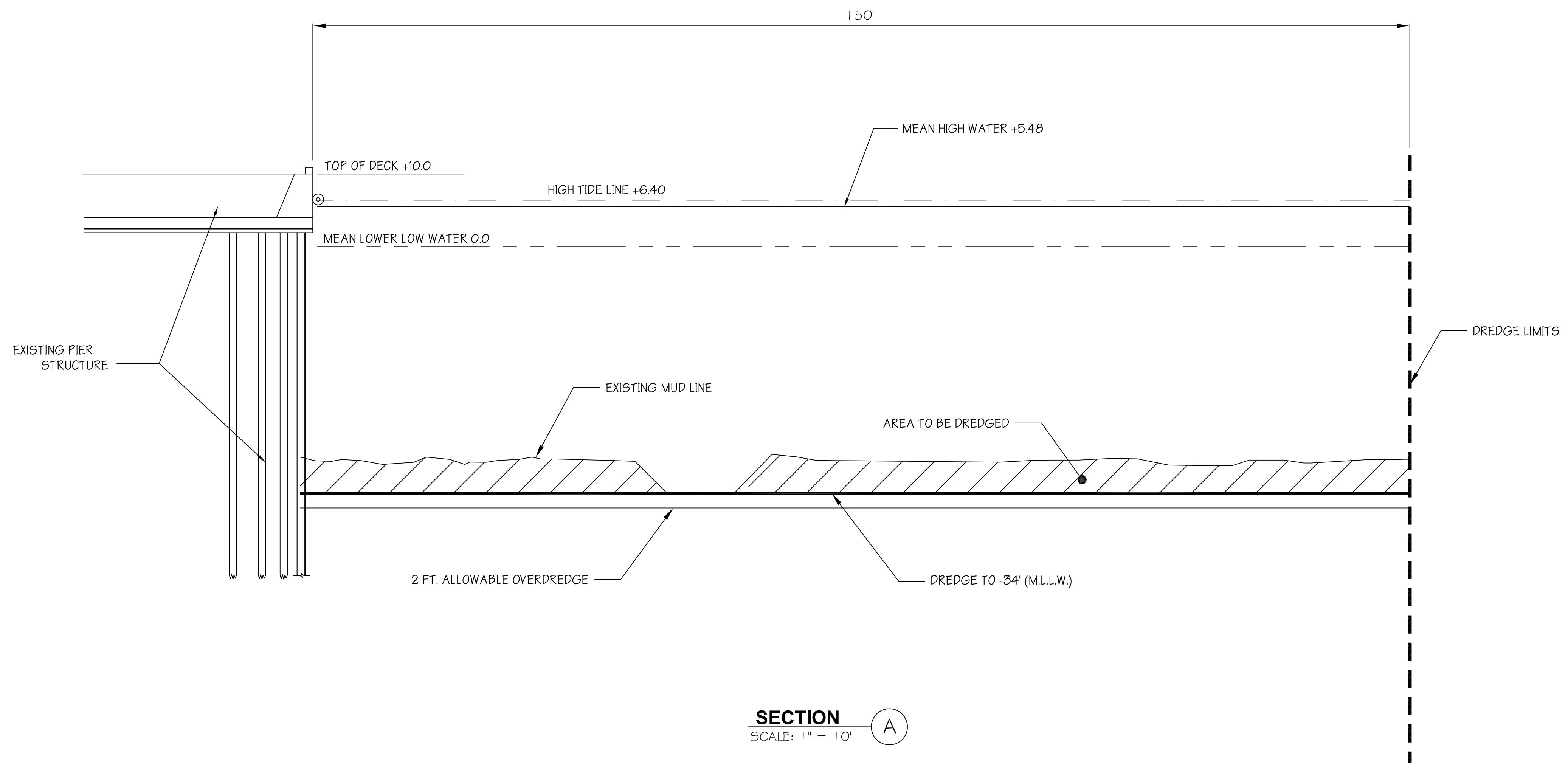
S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS

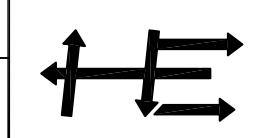
900 Dudley Avenue
Cherry Hill, N.J. 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn	DJD	date	1/6/2022	dwg. no. 10F 2
contract	21-235	FILE	P-1266	

seal

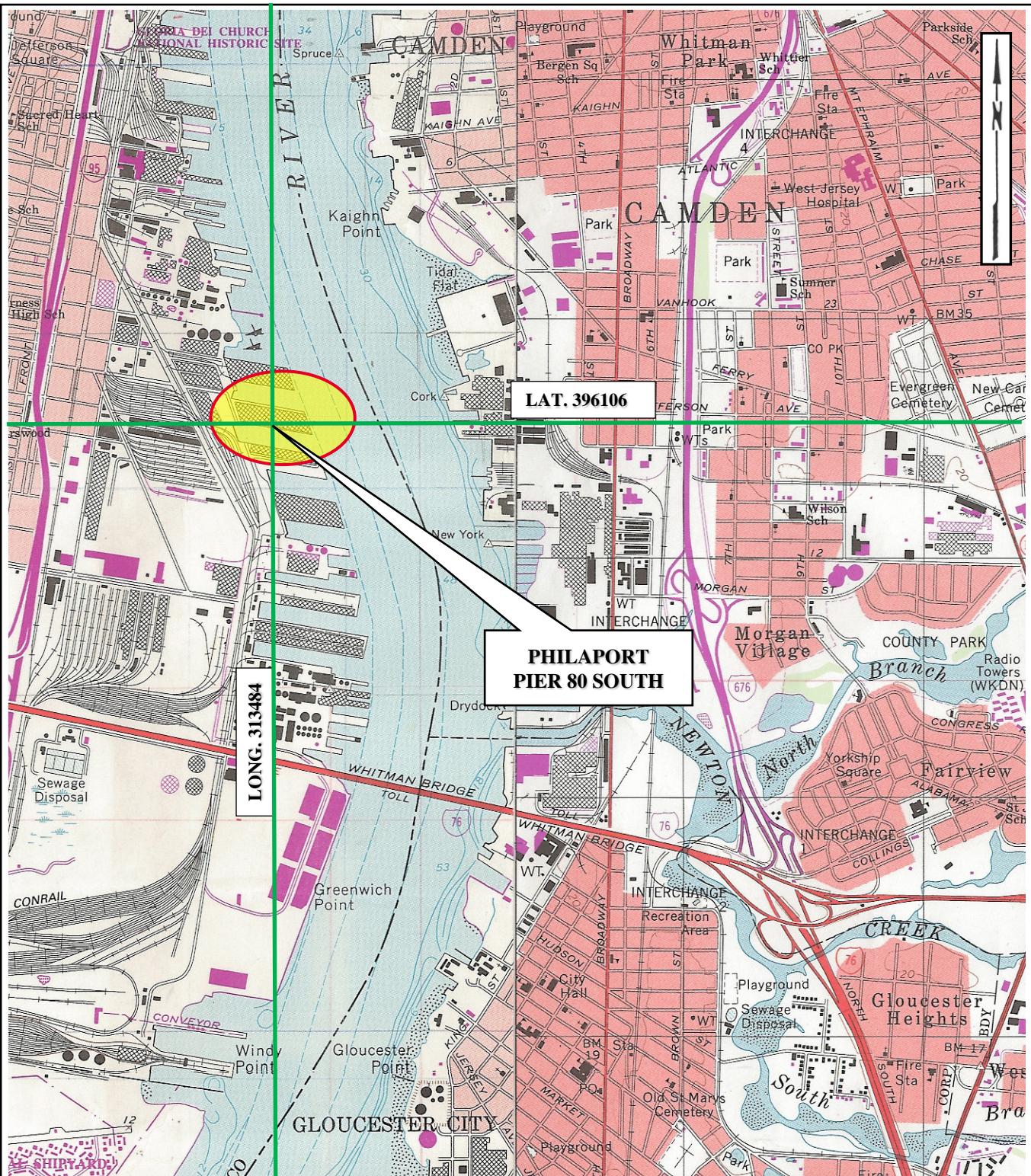
seal



PERMIT APPLICATION			
NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION, AND THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.			
PROPOSED: MAINTAINENCE DREDGING			
AT: PIER 179 NORTH			
COUNTY OF: PHILADELPHIA			
APPLICATION BY: PHILAPORT			
S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS  900 Dudley Avenue Cherry Hill, N.J. 08002 Phone 856-342-6600 Fax No. 856-342-8323			
drawn	DJD	date	1/6/2022
contract	21-235	FILE	P-1266
dwg. no.		2 OF 2	
seal		seal	

CENAP-OPR-2013-00191

PIER 80 SOUTH



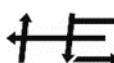
PROJECT SITE LOCATION MAP

UNITED STATES GEOLOGIC SURVEY QUADRANGLE

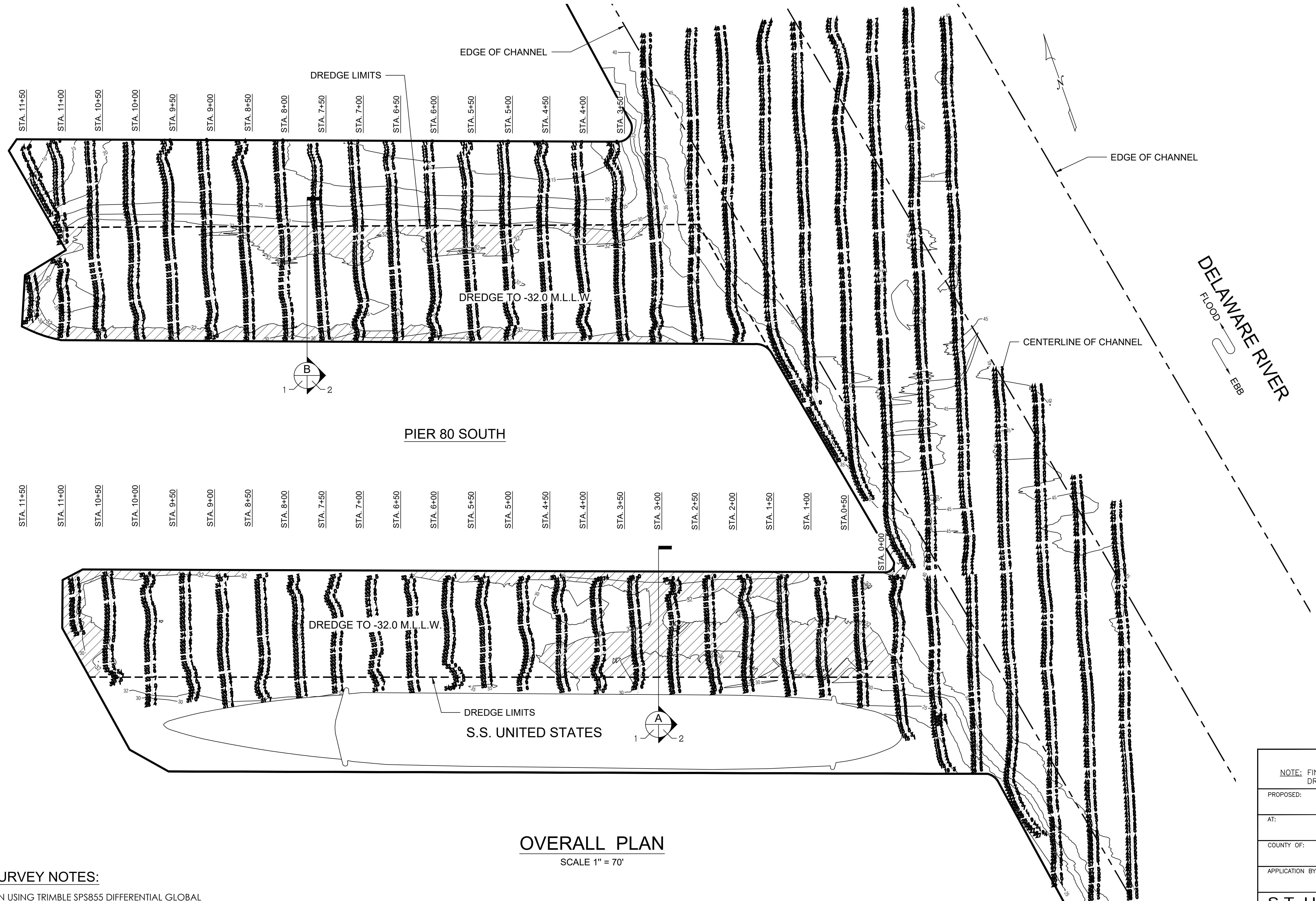
PHILADELPHIA, PA-NJ & CAMDEN, NJ-PA

SCALE: 1:24000

PHILAPORT



► S. T. HUDSON ENGINEERS, INC.
► PROFESSIONAL ENGINEERS & CONSULTANTS



OVERALL PLAN

SCALE 1" = 70'

HYDROGRAPHIC SURVEY NOTES:

1. ALL SOUNDINGS WERE TAKEN USING TRIMBLE SPS855 DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) WITH FIXED RTK, HYPACK MAX SOFTWARE AND AN INNERSPACE 448 CONTINUOUS RECORDING SURVEY FATHOMETER.
2. SOUNDINGS WERE TAKEN ON MONDAY, OCTOBER 17, 2022 AND WEDNESDAY, OCTOBER 19, 2022.
3. DECIMAL POINT (.) DENOTES SOUNDING LOCATION.
4. SOUNDINGS ARE REFERENCED TO MEAN LOWER LOW WATER (M.L.L.W.) AND ARE EXPRESSED IN FEET AND TENTHS OF A FOOT.
5. HORIZONTAL CONTROL IS BASED ON NEW JERSEY STATE PLANE COORDINATES, NAD 83, AS ESTABLISHED IN THE FIELD AND SOLELY FOR THE USE OF THIS HYDROGRAPHIC SURVEY.
6. CONTOURS WERE INTERPOLATED WITH TRIMBLE NAVIGATION LIMITED, TERRAMODEL VERSION 10.11.
7. CHANNEL LINES WERE OBTAINED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE).

DATUM CHART

HIGH TIDE LINE	+7.4
MEAN HIGH WATER	+6.2
MEAN LOWER LOW WATER	0.0

AREA TO BE DREDGED = 1.885 ACRES

CALCULATED VOLUME OF MATERIAL
TO BE REMOVED = 15,134 CUBIC YARDS

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED: MAINTENANCE DREDGING

AT: PIER 80 SOUTH
PHILADELPHIA, PA

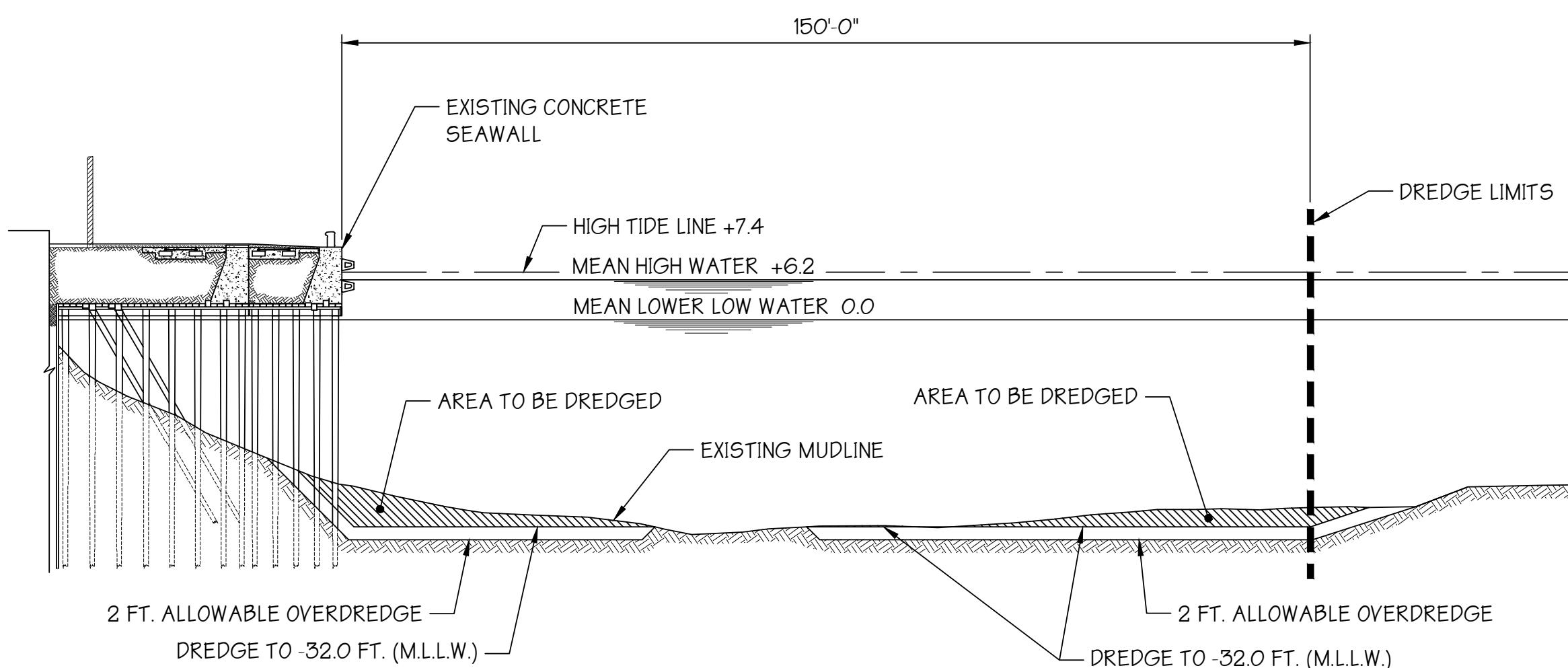
COUNTY OF: PHILADELPHIA COUNTY

APPLICATION BY: PHILAPORT

S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS
900 Dudley Avenue
Cherry Hill, NJ 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn Staff date Jan. 14, 2023 dwg. no. rev.

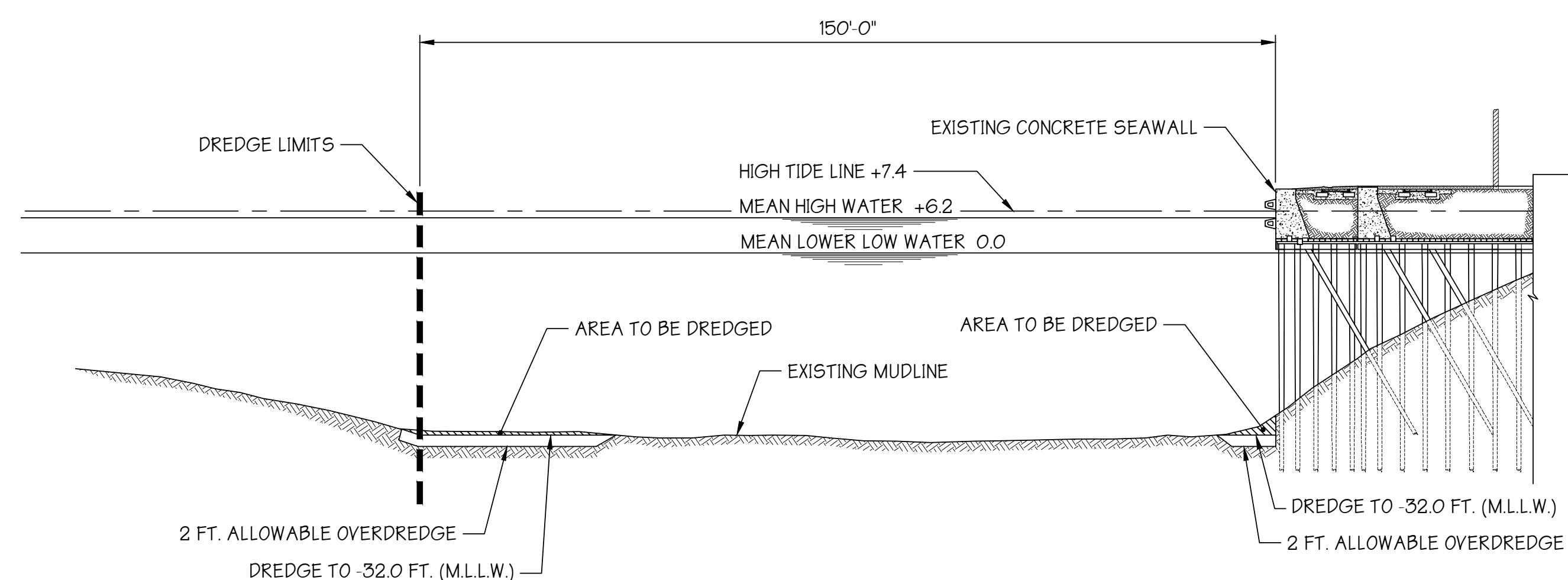
contract 22-189 FILE P-1291 1 of 2 0



PIER 80 SOUTH (SOUTH BERTH)

SECTION
SCALE: 1" = 20'
1 2

20' 10' 0 20'
SCALE: 1"=20'



PIER 80 SOUTH (NORTH BERTH)

SECTION
SCALE: 1" = 20'
1 2

20' 10' 0 20'
SCALE: 1"=20'

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- CHANNEL LINES WERE OBTAINED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE).

DATUM CHART

HIGH TIDE LINE	+7.4
MEAN HIGH WATER	+6.2
MEAN LOWER LOW WATER	0.0

PERMIT APPLICATION
NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED: MAINTENANCE DREDGING

AT: PIER 80 SOUTH
PHILADELPHIA, PA

COUNTY OF: PHILADELPHIA COUNTY

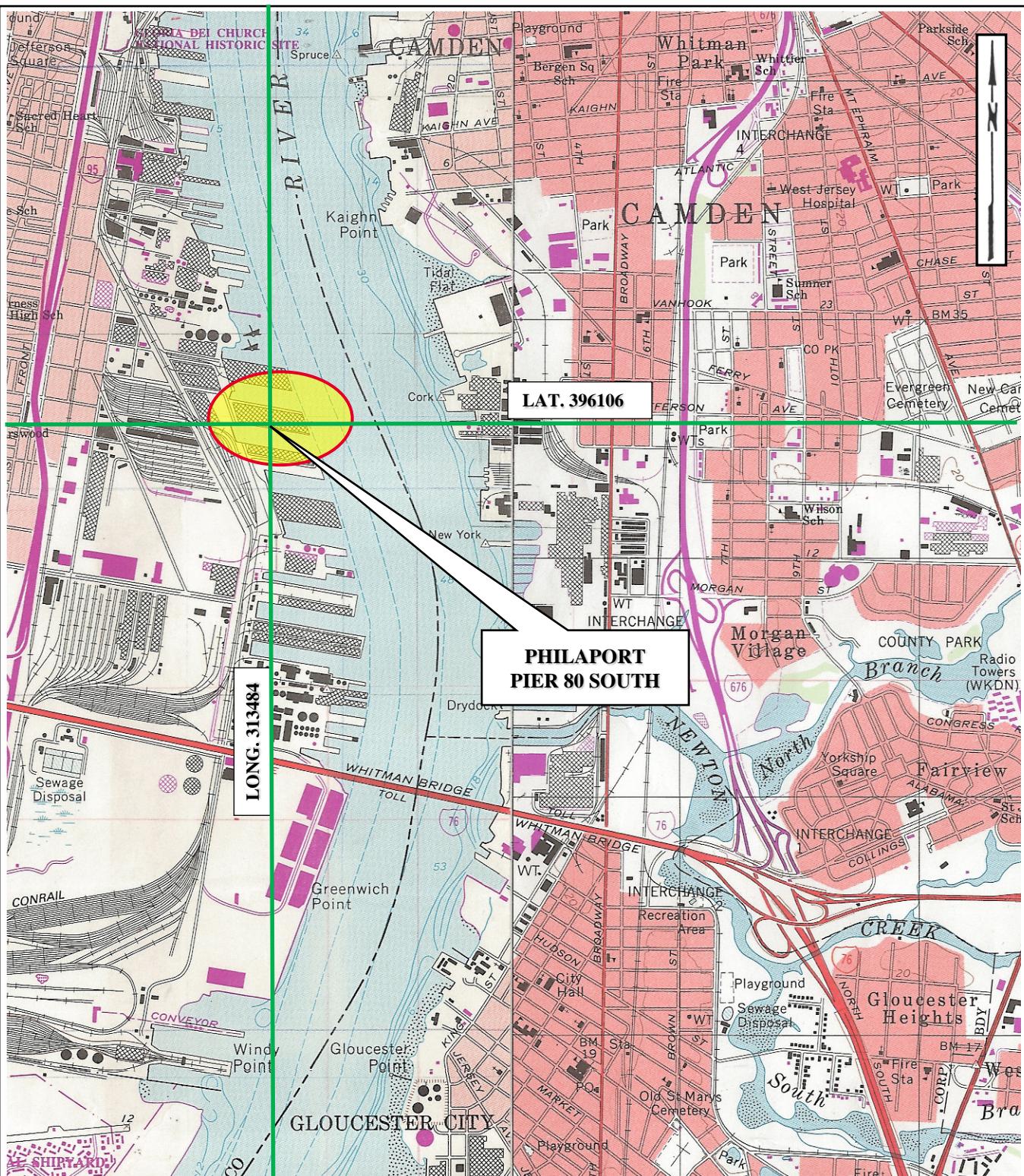
APPLICATION BY: PHILAPORT

S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS
900 Dudley Avenue
Cherry Hill, NJ 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn Staff	date Jan. 14, 2023	dwg. no. rev.
contract 22-189	FILE P-1291	2 of 2 0

CENAP-OPR-2013-00192

PIER 82 SOUTH



PROJECT SITE LOCATION MAP

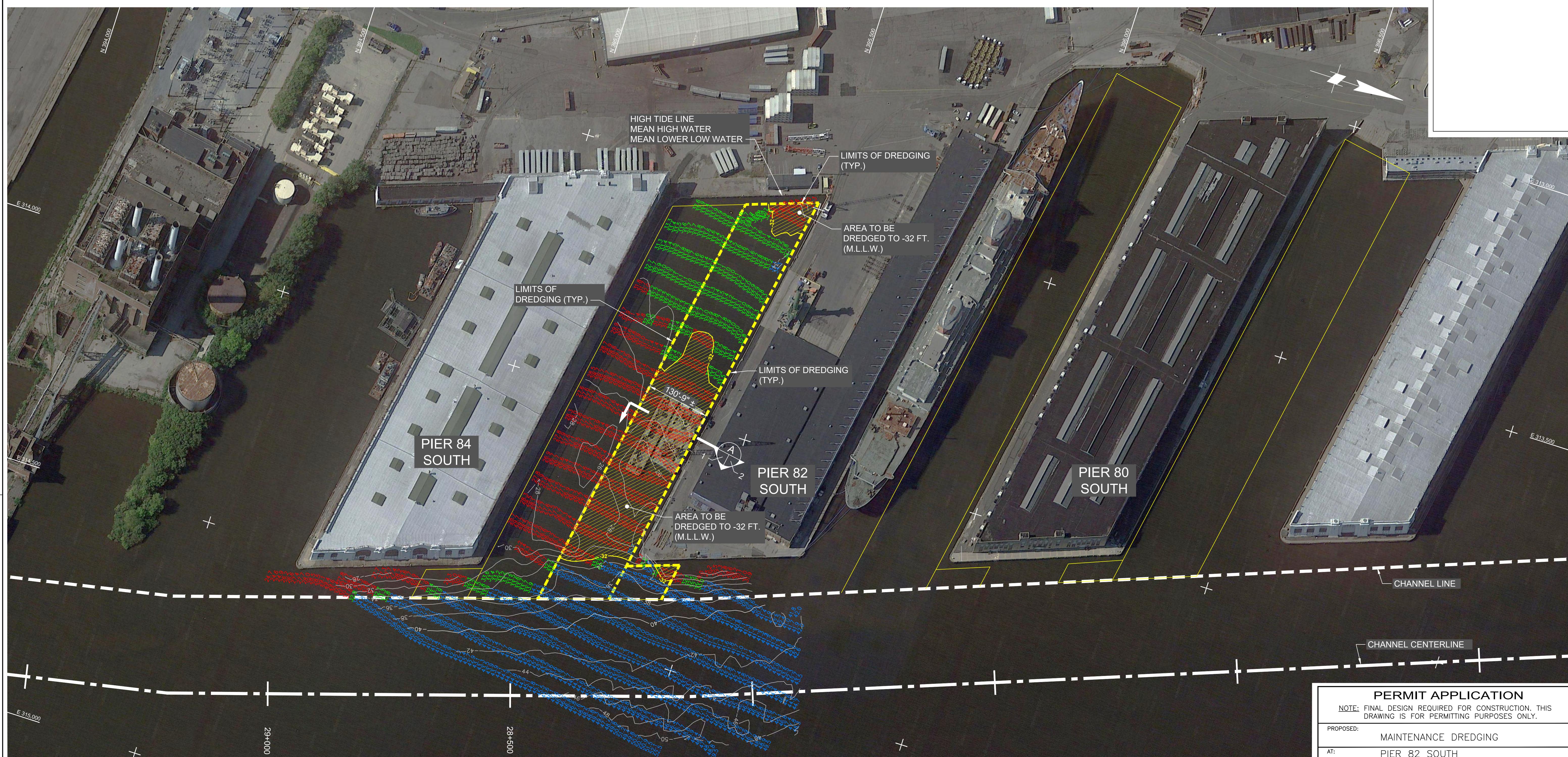
UNITED STATES GEOLOGIC SURVEY QUADRANGLE

PHILADELPHIA, PA-NJ & CAMDEN, NJ-PA

SCALE: 1:24000

22-189

PHILAPORT



HYDROGRAPHIC SURVEY NOTES:
 1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS CONDUCTED ON THE DATES SHOWN AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.
 2. AERIAL IMAGE IS FROM OCTOBER 2011 GOOGLE MAP.
 3. SURVEYED AUG. 18 & 19, 2021 BY GAHAGAN & BRYANT ASSOCIATES, INC.
 4. TIDES WERE OBTAINED FROM NOAA TIDE STATION 8545240 PHILADELPHIA, PA.
 5. EQUIPMENT USED:
 VESSEL: "SEA FIX"
 ECHO SOUNDER: QDOM CV 300 200/304-2
 HORIZONTAL POSITIONING: POSMV 320 w/ U.S. COAST GUARD DGPS.
 6. THE PLANE OF MLLW IS 3.11 FEET BELOW NAVD88 AND 0.19 FEET BELOW MLW.

LEGEND

- CHANNEL CENTER LINE
- CHANNEL TOE
- EXISTING 2 FT CONTOURS
- EXISTING 10 FT CONTOURS
- DREDGING TEMPLATE CHANNEL TOE

SOUNDING LEGEND

■	ABOVE 32' MLLW
■	32' to 34' MLLW
■	BELOW 34' MLLW

PIER 82 SOUTH
PLAN

SCALE: 1"=100'
GRAPHIC SCALE

0 100' 200'

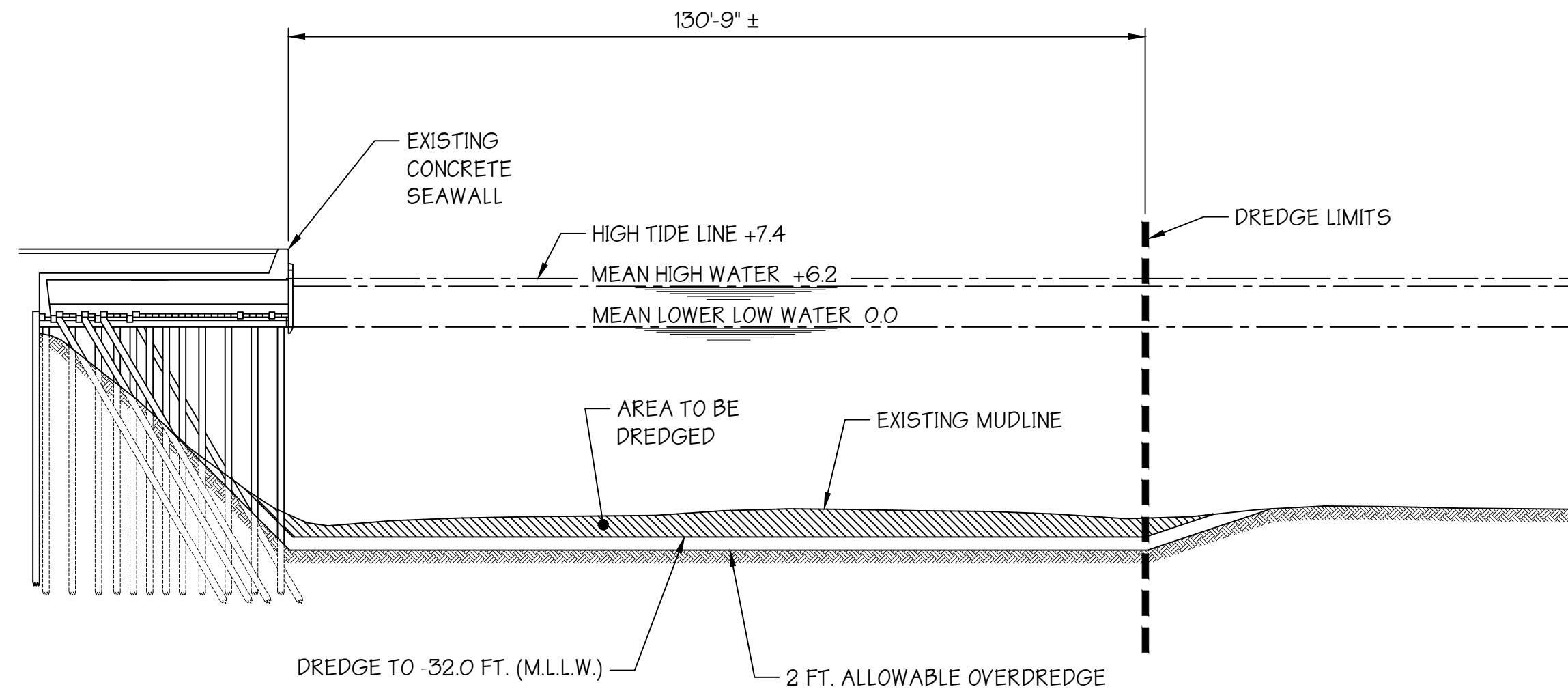
DATUM CHART

HIGH TIDE LINE +7.4
MEAN HIGH WATER +6.2
MEAN LOWER LOW WATER 0.0

PIER 82 SOUTH - (SOUTH BERTH)

AREA OF DREDGE LIMITS = 128,246 SQ. FT.
AREA TO BE DREDGED = 67,015 SQ. FT.
TOTAL DREDGE VOLUME = 14,467 CUBIC YARDS

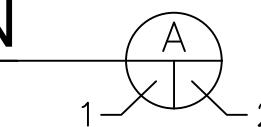
PERMIT APPLICATION		
NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.		
PROPOSED: MAINTENANCE DREDGING		
AT: PIER 82 SOUTH PHILADELPHIA, PA		
COUNTY OF: PHILADELPHIA COUNTY		
APPLICATION BY: PHILAPORT		
S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS 900 Dudley Avenue Cherry Hill, NJ 08002 Phone 856-342-6600 Fax No. 856-342-8323		
drawn ATF	date 1/10/2022	dwg. no. rev.
contract 21-235	FILE P-1269	1 of 2 0



PIER 82 SOUTH (SOUTH BERTH)

SECTION

SCALE: 1"=20'



20' 10' 0 20'

SCALE: 1"=20'

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

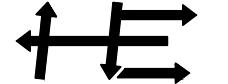
PROPOSED: MAINTENANCE DREDGING

AT: PIER 82 SOUTH
PHILADELPHIA, PA

COUNTY OF: PHILADELPHIA COUNTY

APPLICATION BY: PHILAPORT

S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS
900 Dudley Avenue
Cherry Hill, NJ 08002
Phone 856-342-6600
Fax No. 856-342-8323

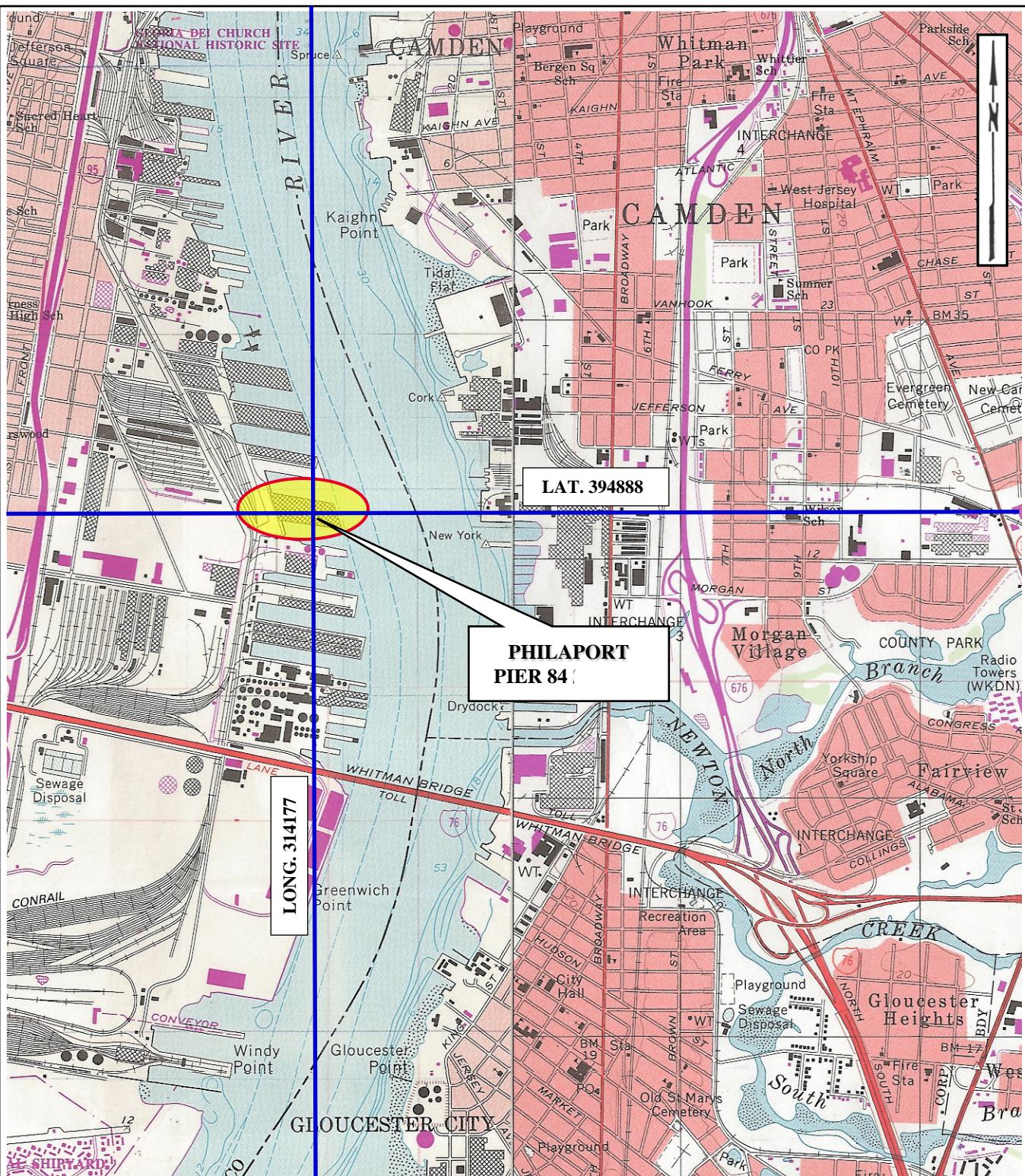


drawn ATF date 1/10/2022 dwg. no. rev.

contract 21-235 FILE P-1269 2 of 2 0

CENAP-OPR-2013-00193

PIER 84 SOUTH



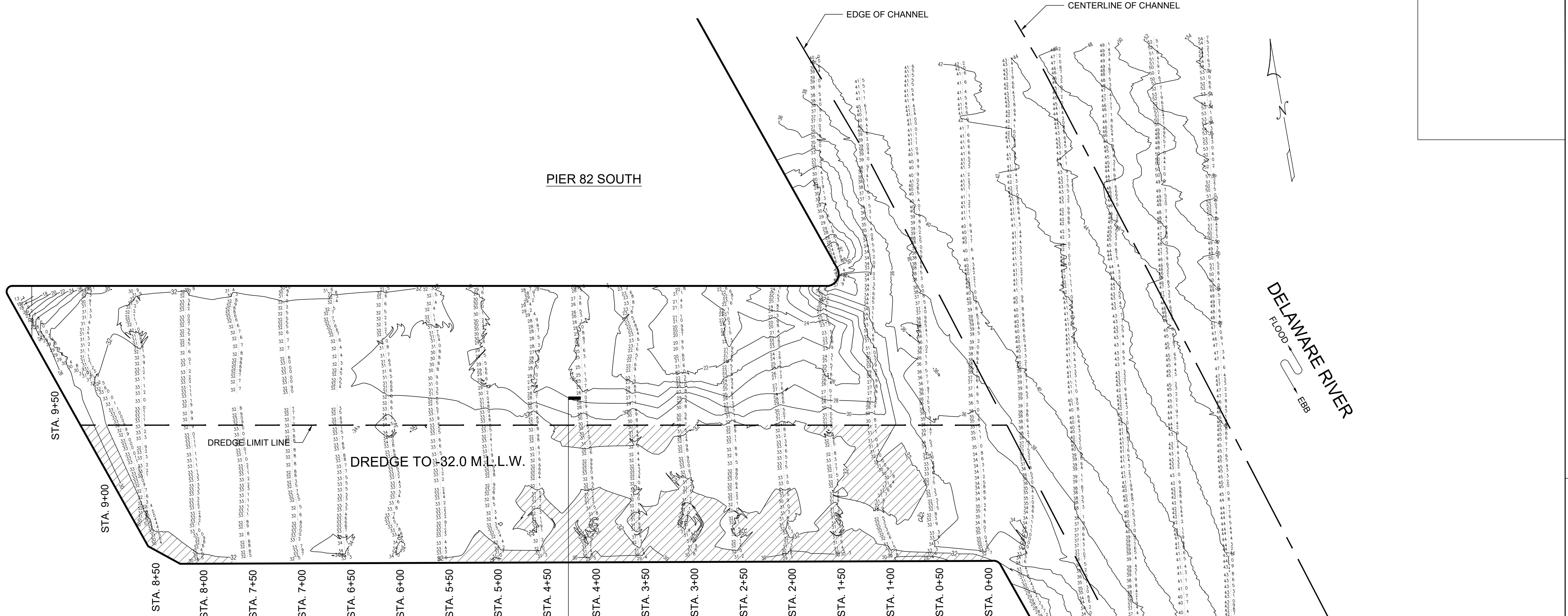
PROJECT SITE LOCATION MAP

UNITED STATES GEOLOGIC SURVEY QUADRANGLE

PHILADELPHIA, PA-NJ & CAMDEN, NJ-PA

SCALE: 1:24000

PHILAPORT

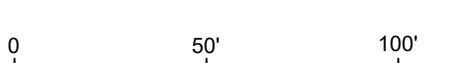


HYDROGRAPHIC SURVEY NOTES:

- ALL SOUNDINGS WERE TAKEN USING TRIMBLE SPS855 DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) WITH FIXED RTK, HYPACK MAX SOFTWARE AND AN INNERSPACE 448 CONTINUOUS RECORDING SURVEY FATHOMETER.
- SOUNDINGS WERE TAKEN ON TUESDAY, OCTOBER 18, 2022.
- DECIMAL POINT (.) DENOTES SOUNDING LOCATION.
- SOUNDINGS ARE REFERENCED TO MEAN LOWER LOW WATER (M.L.L.W.) AND ARE EXPRESSED IN FEET AND TENTHS OF A FOOT.
- HORIZONTAL CONTROL IS BASED ON NEW JERSEY STATE PLANE COORDINATES, NAD 83, AS ESTABLISHED IN THE FIELD AND SOLELY FOR THE USE OF THIS HYDROGRAPHIC SURVEY.
- CONTOURS WERE INTERPOLATED WITH TRIMBLE NAVIGATION LIMITED, TERRAMODEL VERSION 10.11.
- CHANNEL LINES WERE OBTAINED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE).

SITE PLAN

SCALE: 1" = 50'



DATUM CHART

HIGH TIDE LINE	+7.4
MEAN HIGH WATER	+6.2
MEAN LOWER LOW WATER	0.0

PIER 84 SOUTH - (NORTH BERTH)

AREA OF DREDGE LIMITS = 130,992 SQ. FT.

AREA TO BE DREDGED = 34,172 SQ. FT.

TOTAL DREDGE VOLUME = 6,122 CUBIC YARDS

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED:
MAINTENANCE DREDGING

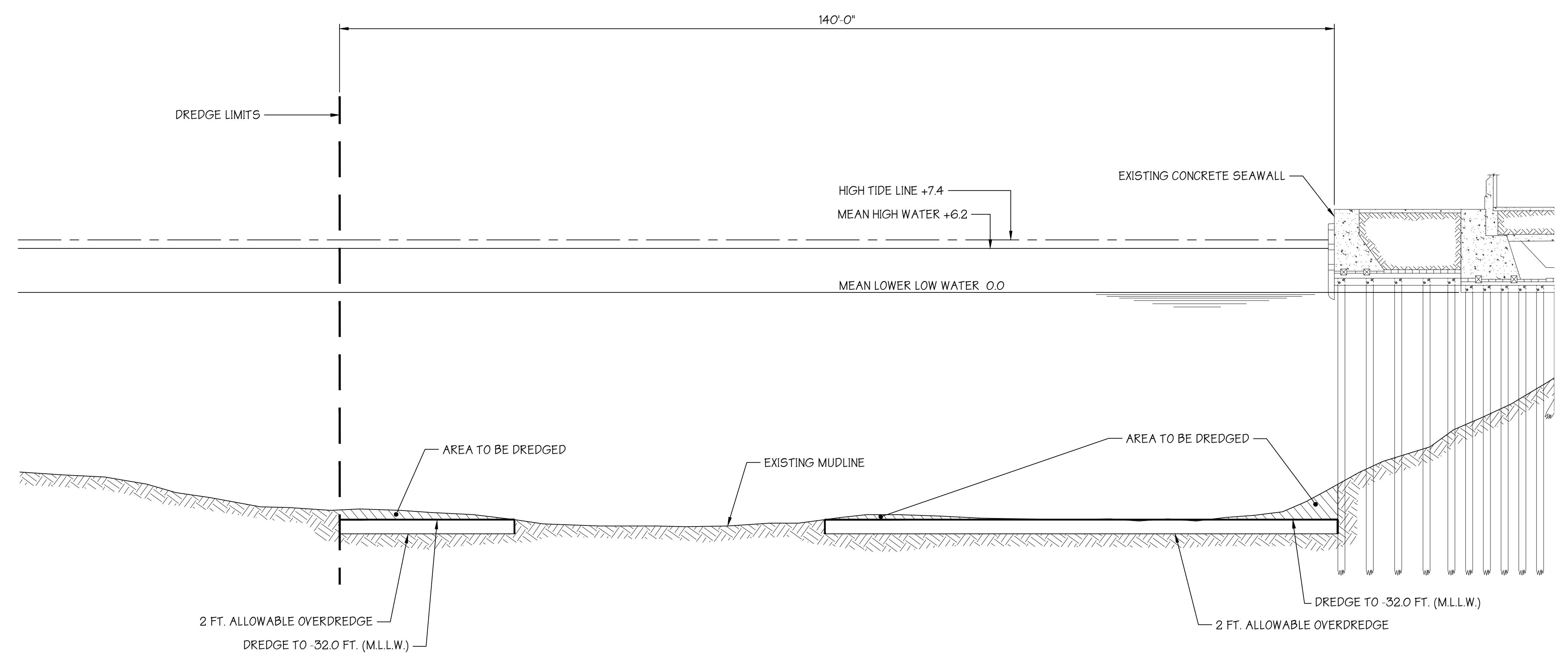
AT:
PIER 84 SOUTH

COUNTY OF:
PHILADELPHIA COUNTY

APPLICATION BY:
PHILAPORT

S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS
900 Dudley Avenue
Cherry Hill, NJ 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn Staff	date Jan. 17, 2023	dwg. no. rev.
contract 22-189	FILE P-1292	1 of 2 0



PIER 84 SOUTH (NORTH BERTH)

SECTION
SCALE: 1" = 10'
1 2
10' 5' 0 10'

HYDROGRAPHIC SURVEY NOTES:

1. ALL SOUNDINGS WERE TAKEN USING TRIMBLE SPS855 DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) WITH FIXED RTK, HYPACK MAX SOFTWARE AND AN INNERSPACE 448 CONTINUOUS RECORDING SURVEY FATHOMETER.
2. SOUNDINGS WERE TAKEN ON TUESDAY, OCTOBER 18, 2022.
3. DECIMAL POINT (.) DENOTES SOUNDING LOCATION.
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6. CONTOURS WERE INTERPOLATED WITH TRIMBLE NAVIGATION LIMITED, TERRAMODEL VERSION 10.11.
7. CHANNEL LINES WERE OBTAINED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE).

DATUM CHART

HIGH TIDE LINE	+7.4
MEAN HIGH WATER	+6.2
MEAN LOWER LOW WATER	0.0

PERMIT APPLICATION
NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED:
MAINTENANCE DREDGING

AT:
PIER 84 SOUTH

COUNTY OF:
PHILADELPHIA COUNTY

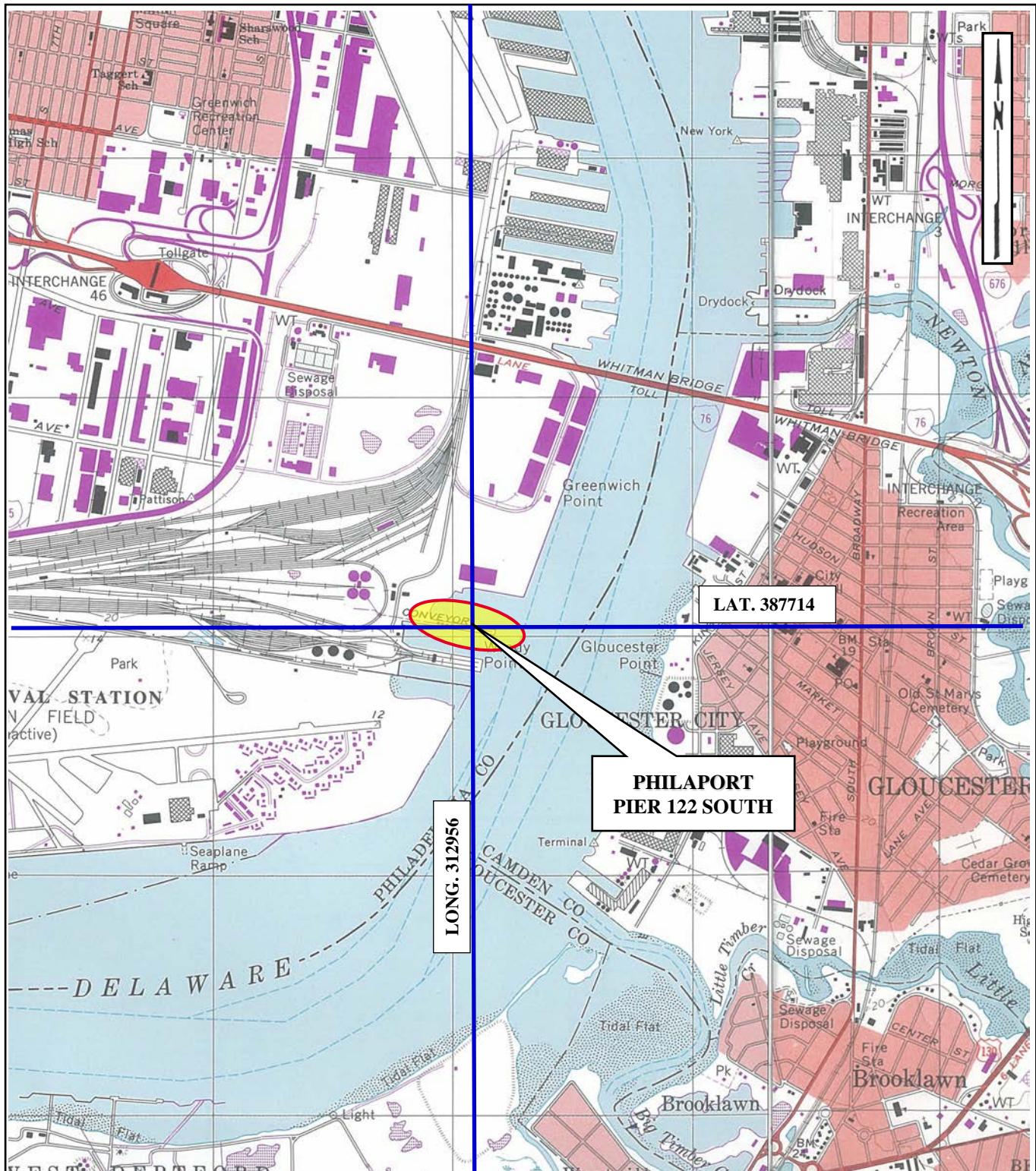
APPLICATION BY:
PHILAPORT

S.T. HUDSON ENGINEERS, INC.
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900 Dudley Avenue
Cherry Hill, NJ 08002
Phone 856-342-6600
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drawn Staff	date Jan. 17, 2023	dwg. no. rev.
contract 22-189	FILE P-1292	2 of 2 0

CENAP-OPR-2013-194

PIER 122 SOUTH

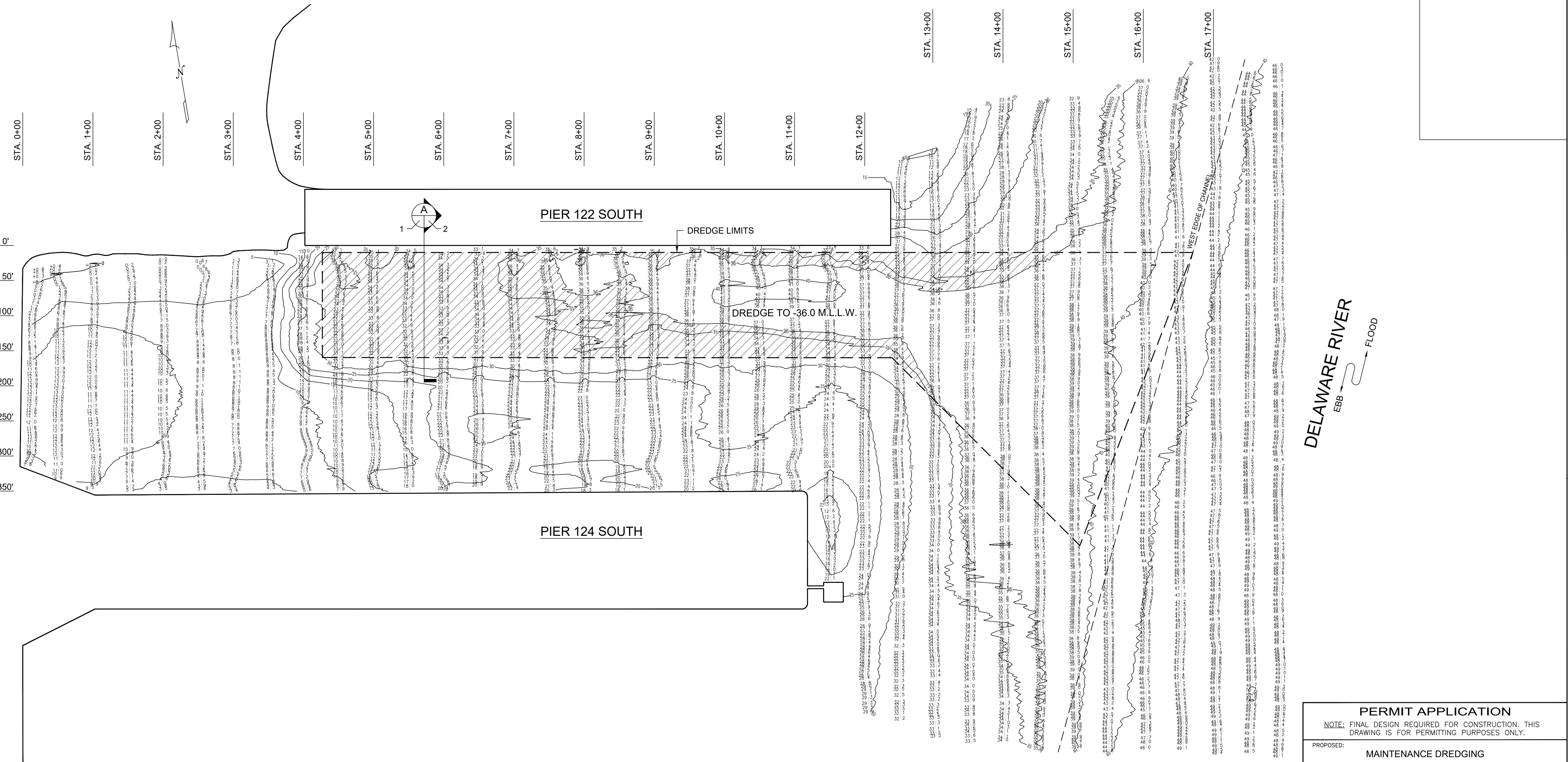


PROJECT SITE LOCATION MAP

UNITED STATES GEOLOGIC SURVEY QUADRANGLE

PHILADELPHIA, PA-NJ & CAMDEN, NJ-PA

SCALE: 1:24000



HYDROGRAPHIC SURVEY NOTES:

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- CHANNEL LINES WERE OBTAINED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE).

DATUM CHART

HIGH TIDE LINE	+6.4
MEAN HIGH WATER	+6.2
MEAN LOWER LOW WATER	0.0

PIER 122 SOUTH

AREA OF DREDGE LIMITS = 231,212 SQ. FT.

AREA TO BE DREDGED = 93,612 SQ. FT.

TOTAL DREDGE VOLUME = 30,500 CUBIC YARDS

PERMIT APPLICATION

NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY.

PROPOSED:
MAINTENANCE DREDGING

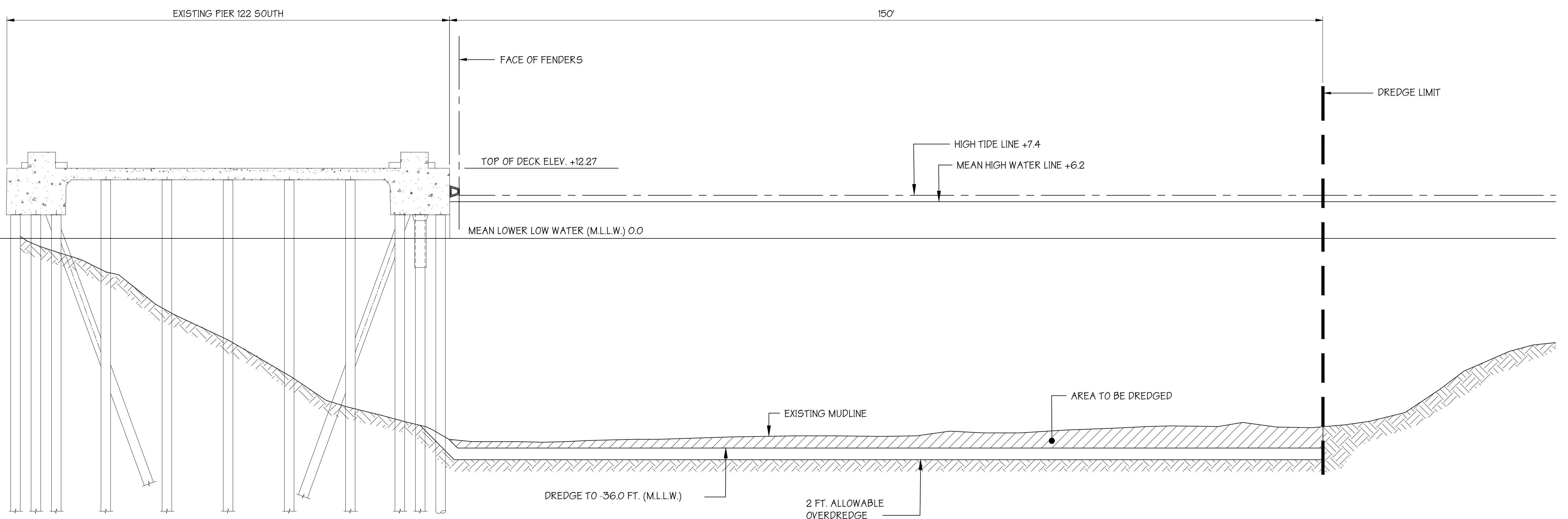
AT:
PIER 122 SOUTH

COUNTY OF:
PHILADELPHIA COUNTY

APPLICATION BY:
PHILAPORT

S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS
900 Dudley Avenue
Cherry Hill, NJ 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn Staff	date Jan. 18, 2023	dwg. no. rev.
contract 22-189	FILE P-1294	1 of 2 0



PIER 122 SOUTH

SECTION

SCALE: 1'' = 10'
1 2
10' 5' 0 10'

HYDROGRAPHIC SURVEY NOTES:

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DATUM CHART

HIGH TIDE LINE	+6.4
MEAN HIGH WATER	+6.2
MEAN LOWER LOW WATER	0.0

PERMIT APPLICATION
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PROPOSED:
MAINTENANCE DREDGING

AT:
PIER 122 SOUTH

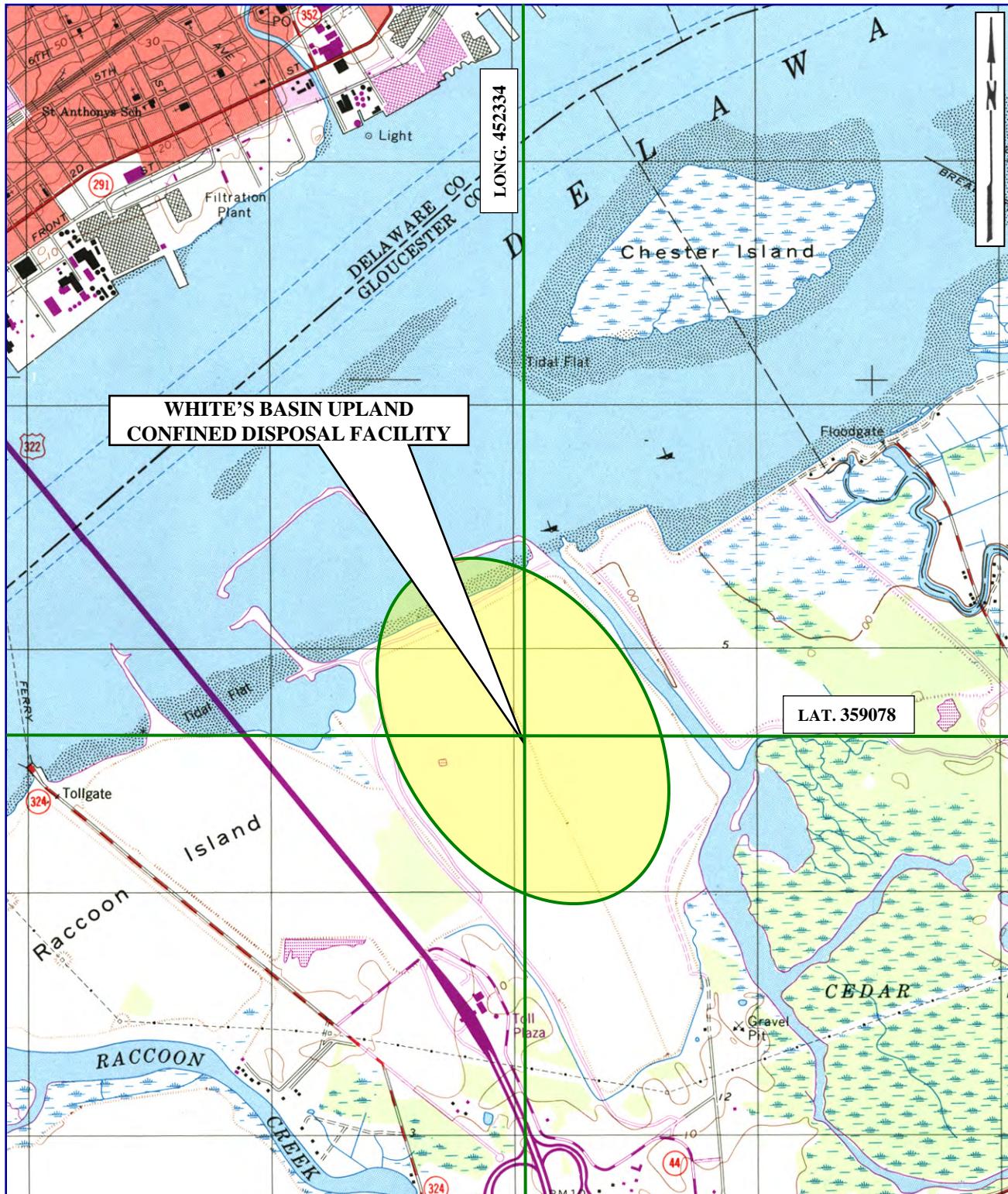
COUNTY OF:
PHILADELPHIA COUNTY

APPLICATION BY:
PHILAPORT

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Fax No. 856-342-8323

drawn Staff	date Jan. 18, 2023	dwg. no. rev.
contract 22-189	FILE P-1293	2 of 2 0

DISPOSAL SITES

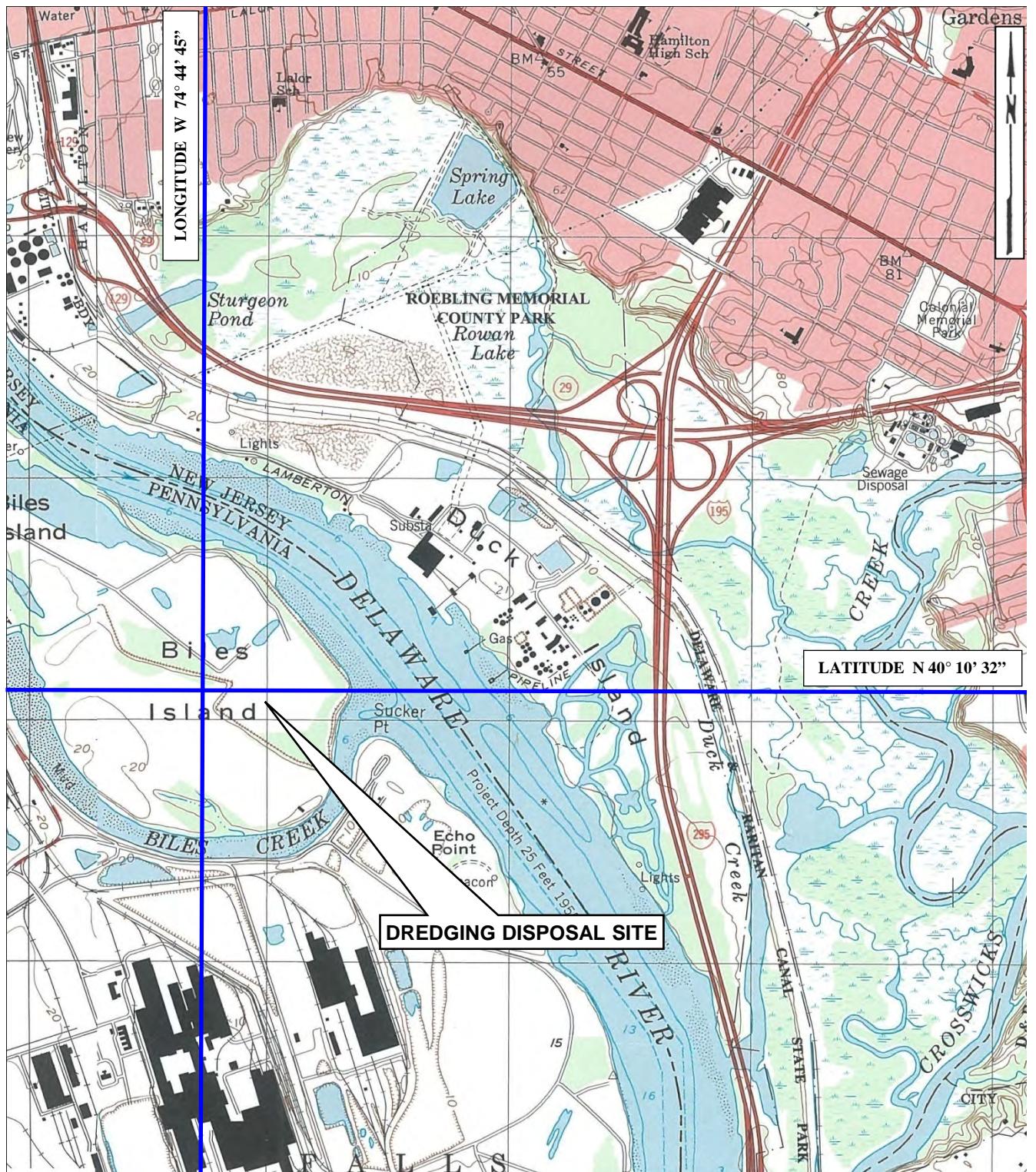


UNITED STATES GEOLOGIC SURVEY QUADRANGLE

BRIDGEPORT, NEW JERSEY

SCALE 1:24000

PHILAPORT



PROJECT SITE LOCATION MAP

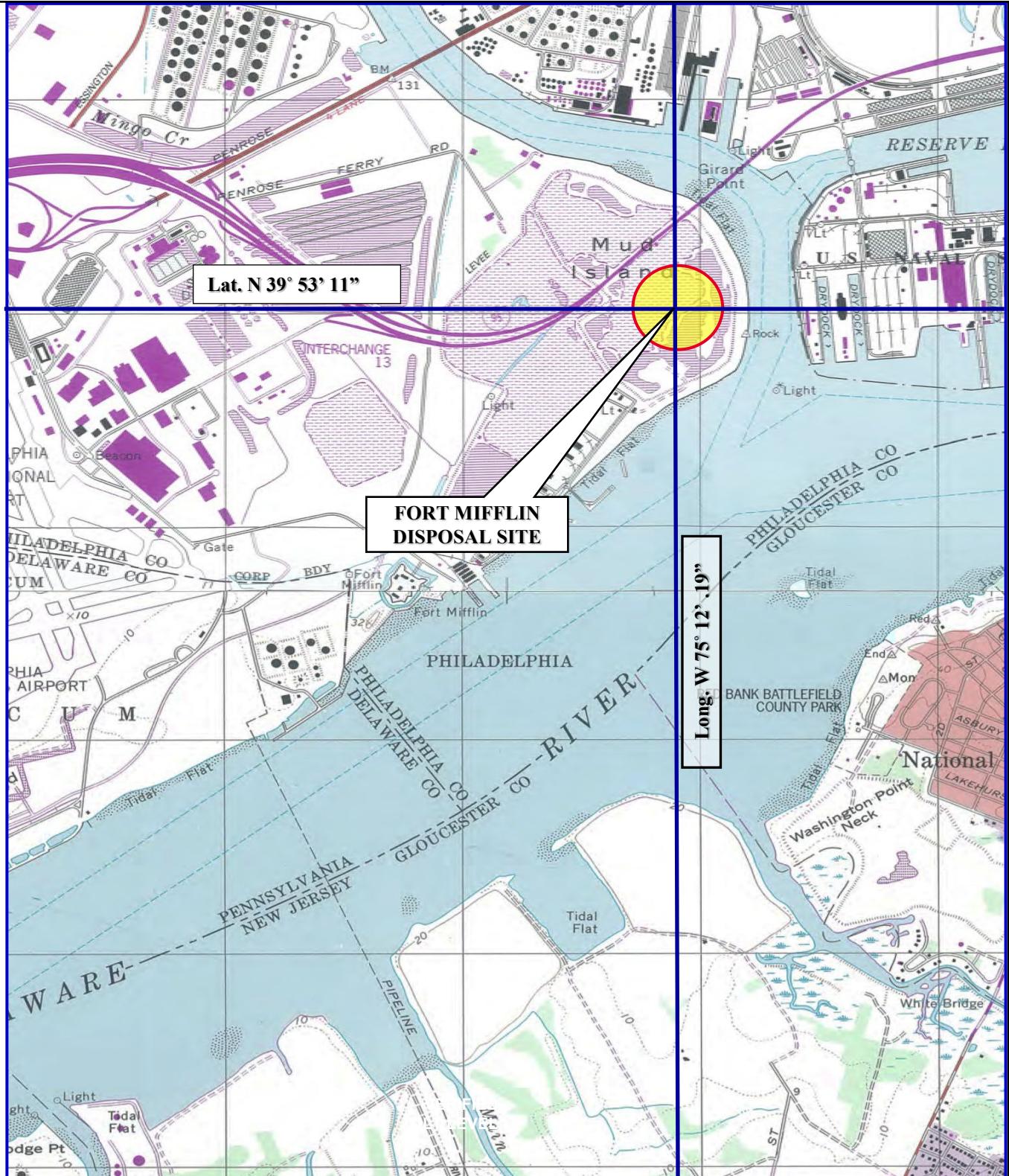
UNITED STATES GEOLOGIC SURVEY QUADRANGLE

TRENTON EAST, NJ - PA

SCALE 1:24000



S. T. HUDSON ENGINEERS, INC.



PROJECT SITE LOCATION MAP

UNITED STATES GEOLOGIC SURVEY QUADRANGLE

PHILADELPHIA, PA-NJ & CAMDEN, NJ-PA

SCALE: 1:24000

22-189



S. T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS