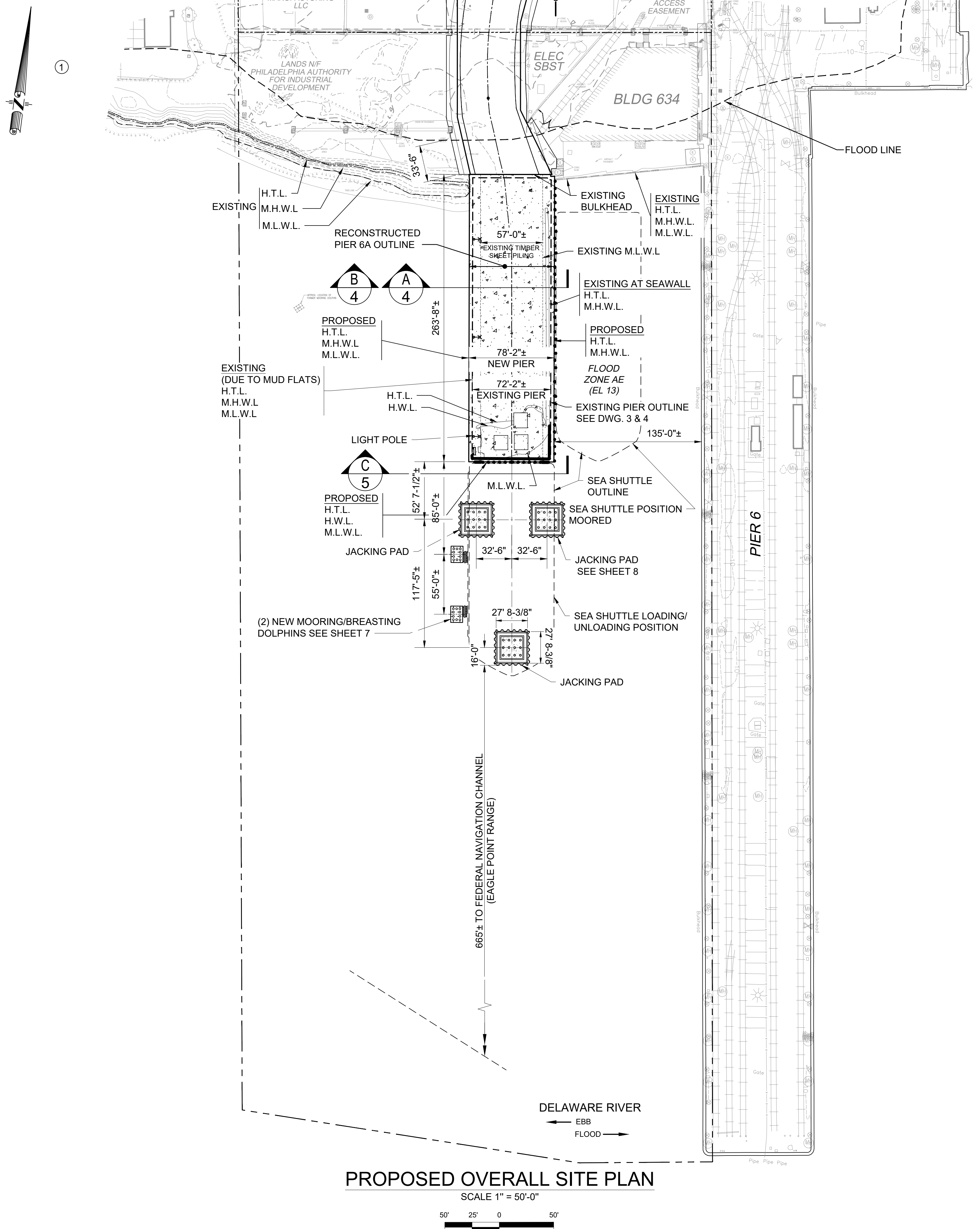
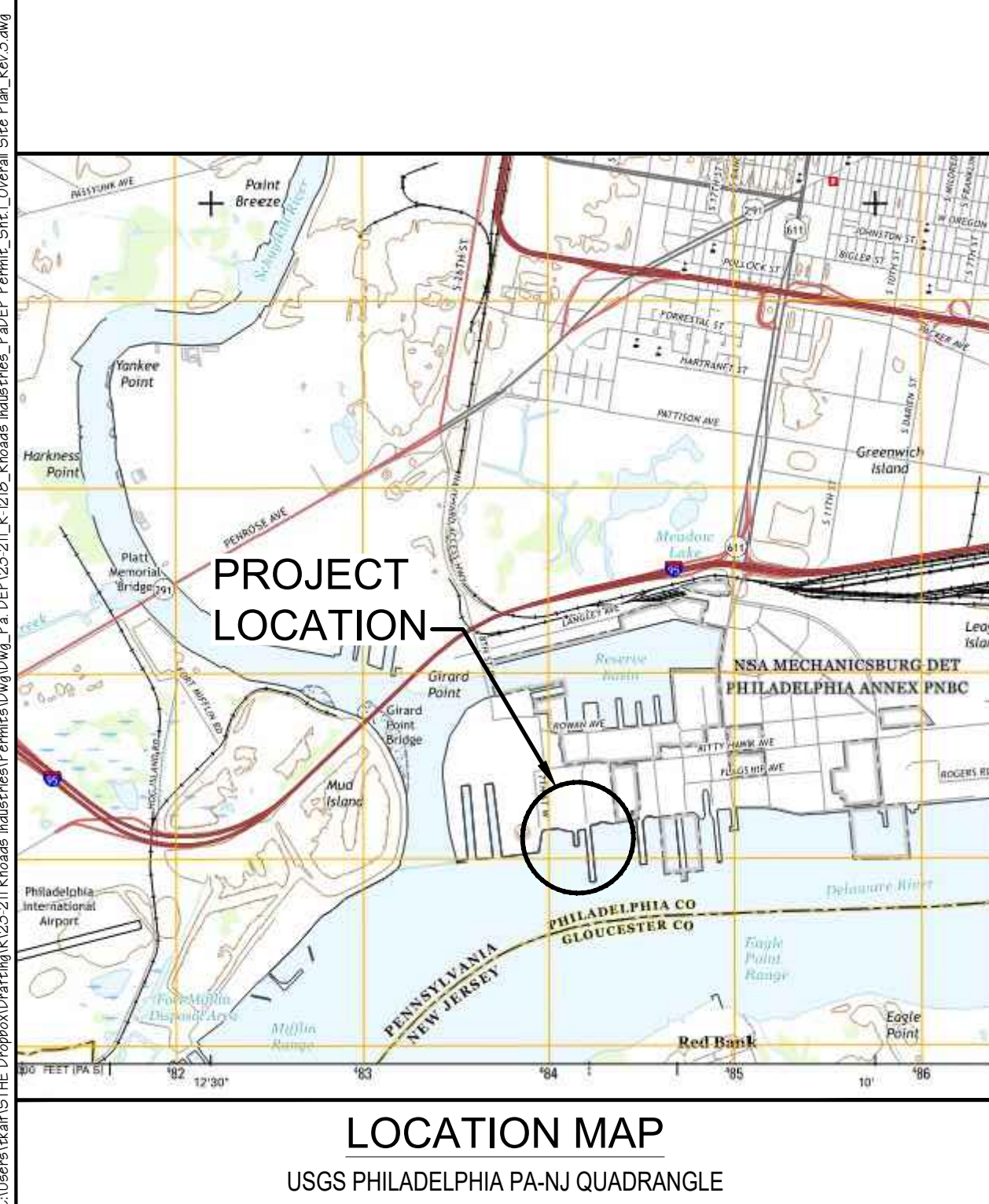




SHEET LEGEND

	RECONSTRUCTED PIER 6A STRUCTURE
---	---------------------------------

DATUM CHART

DOWNRIVER CORNER	
TOP OF CONCRETE	+13.0 (M.L.W.L.)
HIGH TIDE LINE	+7.2
MEAN HIGH WATER LINE	+6.69
NAVD 88	+3.1 (M.L.W.L.)
MEAN LOW WATER	0.0

13.0'

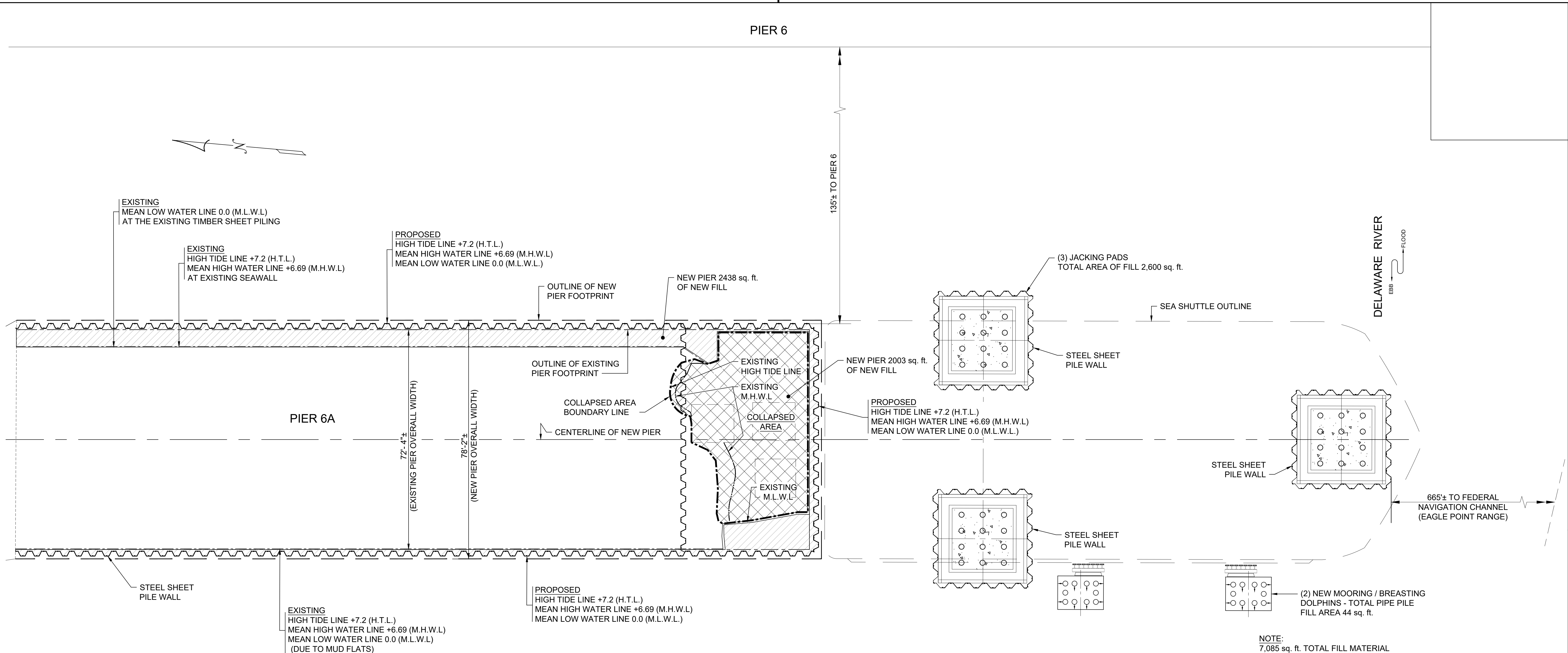
- ### ADJACENT PROPERTY OWNERS
1. PHILADELPHIA SHIPYARD DEV. CORP.
 2. UNITED STATES OF AMERICA

- NOTE:**
1. CUBIC YARD OF FILL MATERIAL FOR ALL 3 JACKING PADS IS 793 C.Y.
 2. SEE SHEET 7 FOR DETAILS FOR THE DOLPHINS.
 3. 20,991.9 SQ. FT. OF PIER.
 4. 410 SQ. FT. NEW MOORING/BREASTING DOLPHIN.

REV. 3	6/21/24	GENERAL REVISIONS
REV. 2	4/8/24	GENERAL REVISIONS
REV. 1	2/28/24	GENERAL REVISIONS

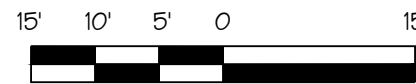
PERMIT APPLICATION <u>NOTE:</u> FINAL DESIGN REQUIRED FOR CONSTRUCTION, AND THIS DRAWING IS FOR PERMIT PURPOSES ONLY.			
PROPOSED: RECONSTRUCTION OF PIER 6A			
AT: PHILADELPHIA NAVY YARD - PIER 6A			
COUNTY OF: PHILADELPHIA COUNTY, PA.			
APPLICATION BY: RHOADS INDUSTRIES			
S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS 900 Dudley Avenue Cherry Hill, N.J. 08002 Phone 856-342-6600 Fax No. 856-342-8323			
drawn STAFF	date 01/19/2024	dwg. no. 1 of 11	rev. 3
contract 23-211	FILE R-1218		
seal P.E. LICENSE No.		seal P.E. LICENSE No.	

C:\Users\blaff\OneDrive\Drafting\023-211 Rhoads Industries\Permits\04\04a_Fs_DEP\023-211_R_210_Rhoads Industries_Fs_DEP Permit_0412_New Fill Plan_Ken3.dwg



NEW FILL PLAN

SCALE 1" = 15'



REV. 5	6/21/24	GENERAL REVISIONS
REV. 4	4/30/24	ADDED SQUARE FOOTAGE OF COLLAPSED AREA
REV. 3	4/23/24	GENERAL REVISIONS
REV. 2	4/8/24	GENERAL REVISIONS
REV. 1	2/28/24	GENERAL REVISIONS

PERMIT APPLICATION

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

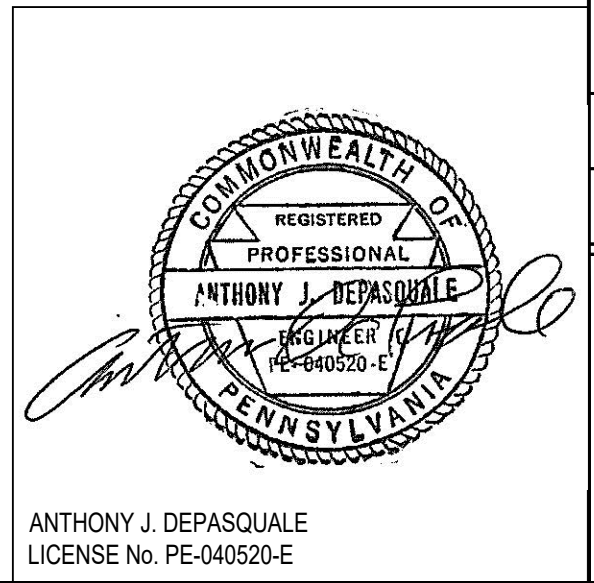
PROPOSED:	RECONSTRUCTION OF PIER 6A
AT:	PHILADELPHIA NAVY YARD - PIER 6A
COUNTY OF:	PHILADELPHIA COUNTY, PA.
APPLICATION BY:	RHOADS INDUSTRIES

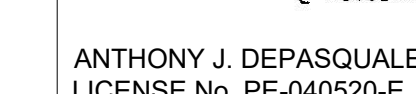
S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS

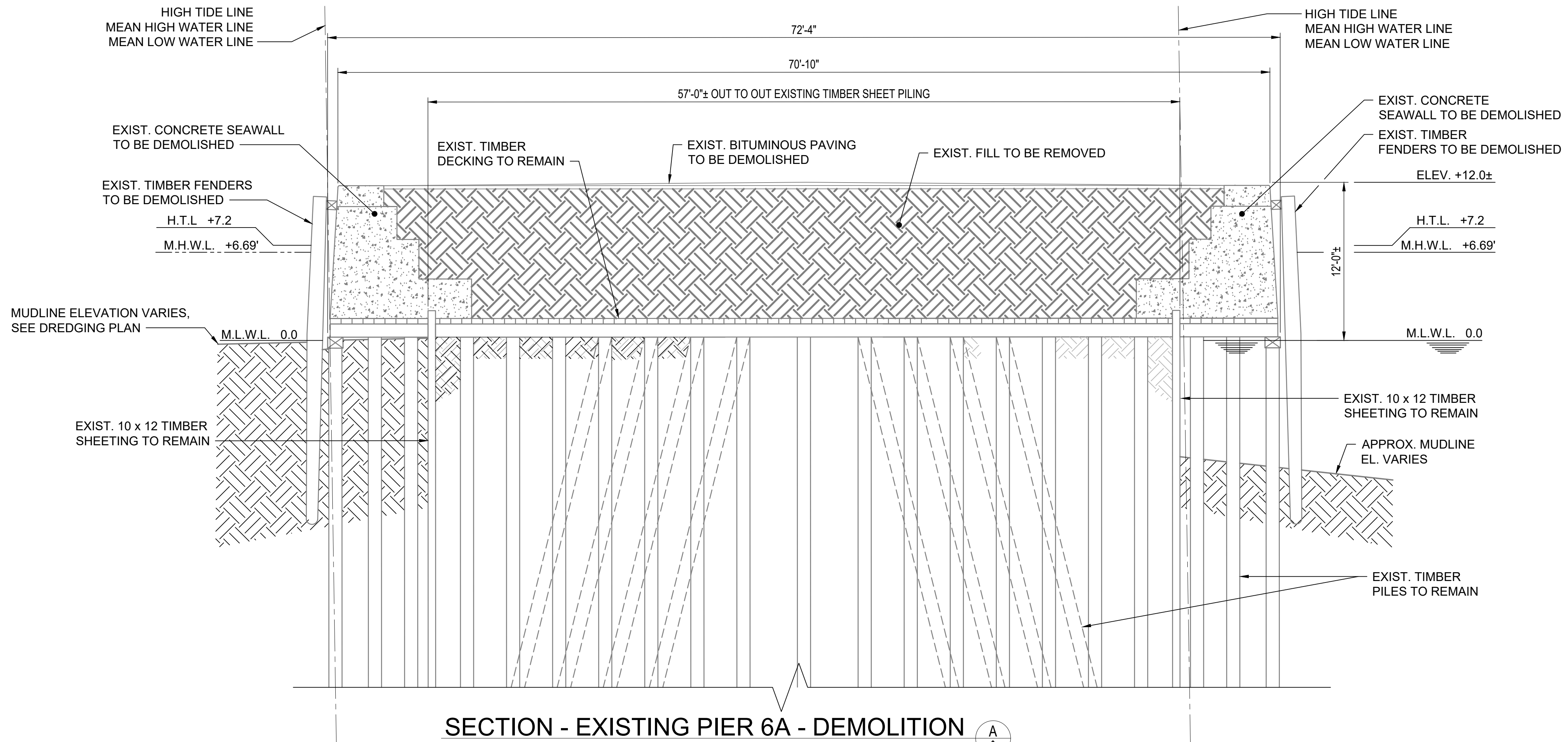
900 Dudley Avenue
Cherry Hill, N.J. 08002
Phone 856-342-6600
Fax No. 856-342-8323

drawn	STAFF	date	01/19/2024	dwg. no.	2 of 11	rev.	5
contract	23-211	FILE	R-1218				

seal	seal
P.E. LICENSE No.	P.E. LICENSE No.

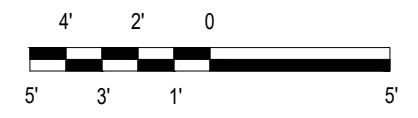




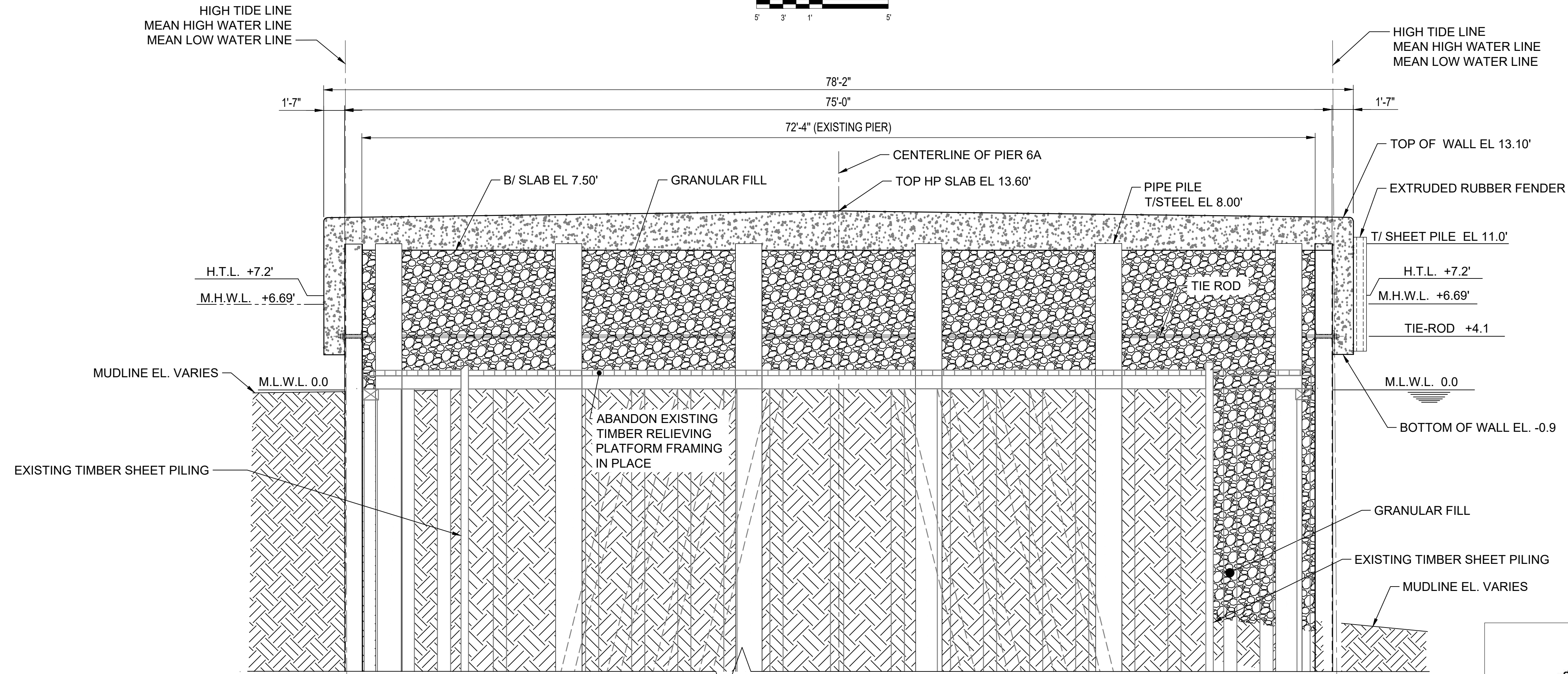


SECTION - EXISTING PIER 6A - DEMOLITION

SCALE: 3/16" = 1'-0"

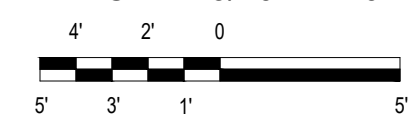


A
3

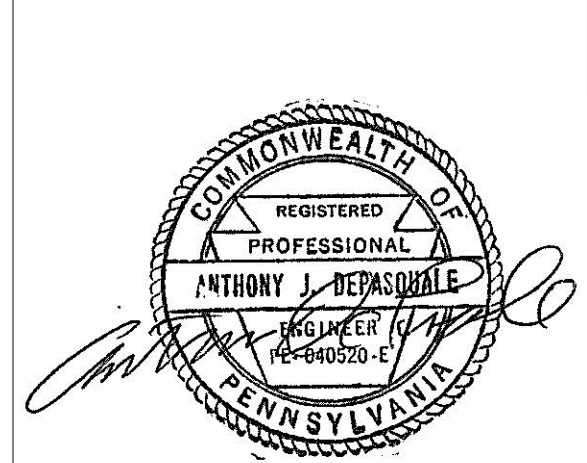


SECTION - NEW PIER 6A - RECONSTRUCTED

SCALE: 3/16" = 1'-0"



B
1



ANTHONY J. DEPASQUALE
LICENSE No. PE-040520-E

REV. 3	4/23/24	ADDED AND CALLED OUT TIDE LINE
REV. 2	4/8/24	GENERAL REVISIONS
REV. 1	2/28/24	GENERAL REVISIONS

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

PROPOSED: **RECONSTRUCTION OF PIER 6A**

AT: **PHILADELPHIA NAVY YARD - PIER 6A**

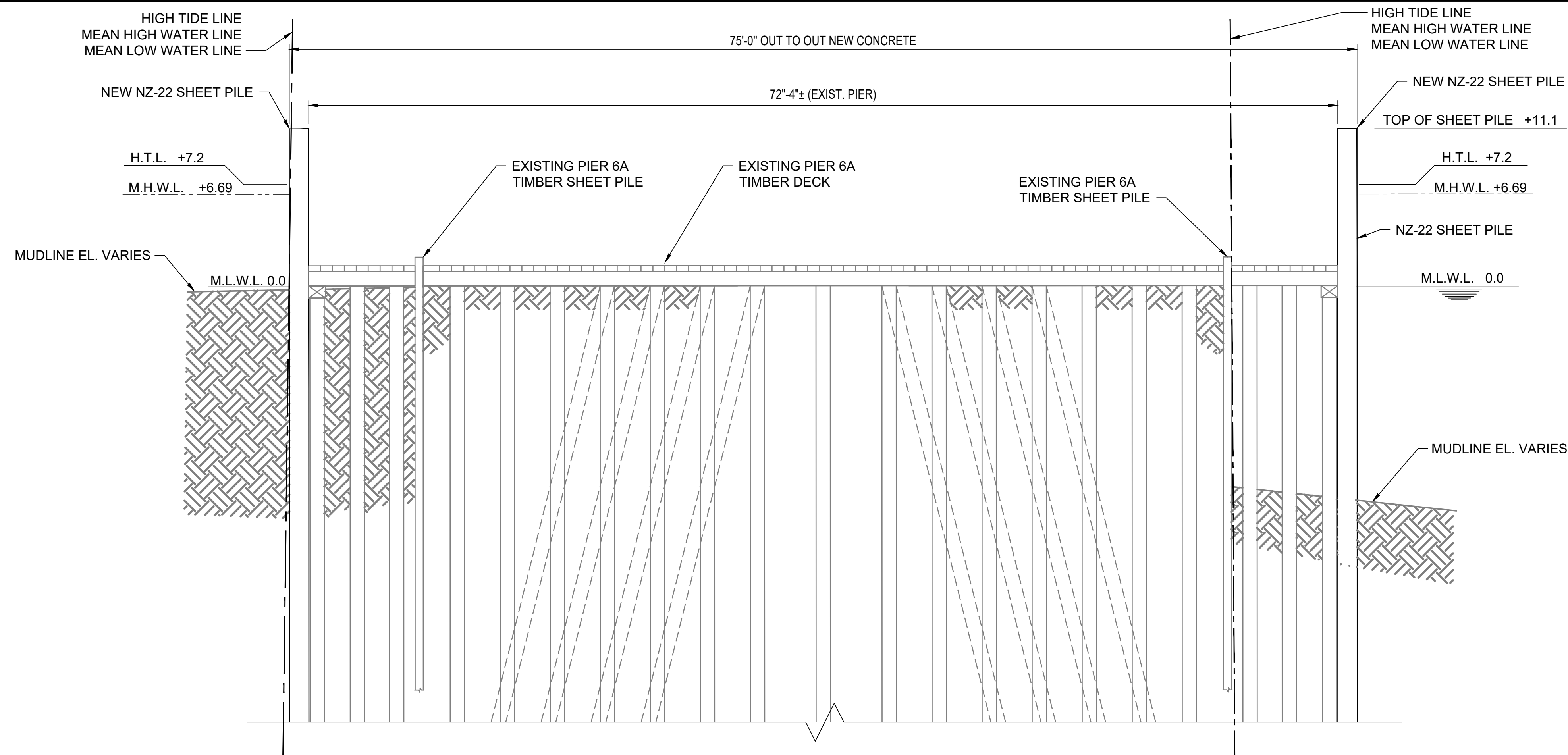
COUNTY OF: **PHILADELPHIA COUNTY, PA.**

APPLICATION BY: **RHOADS INDUSTRIES**

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

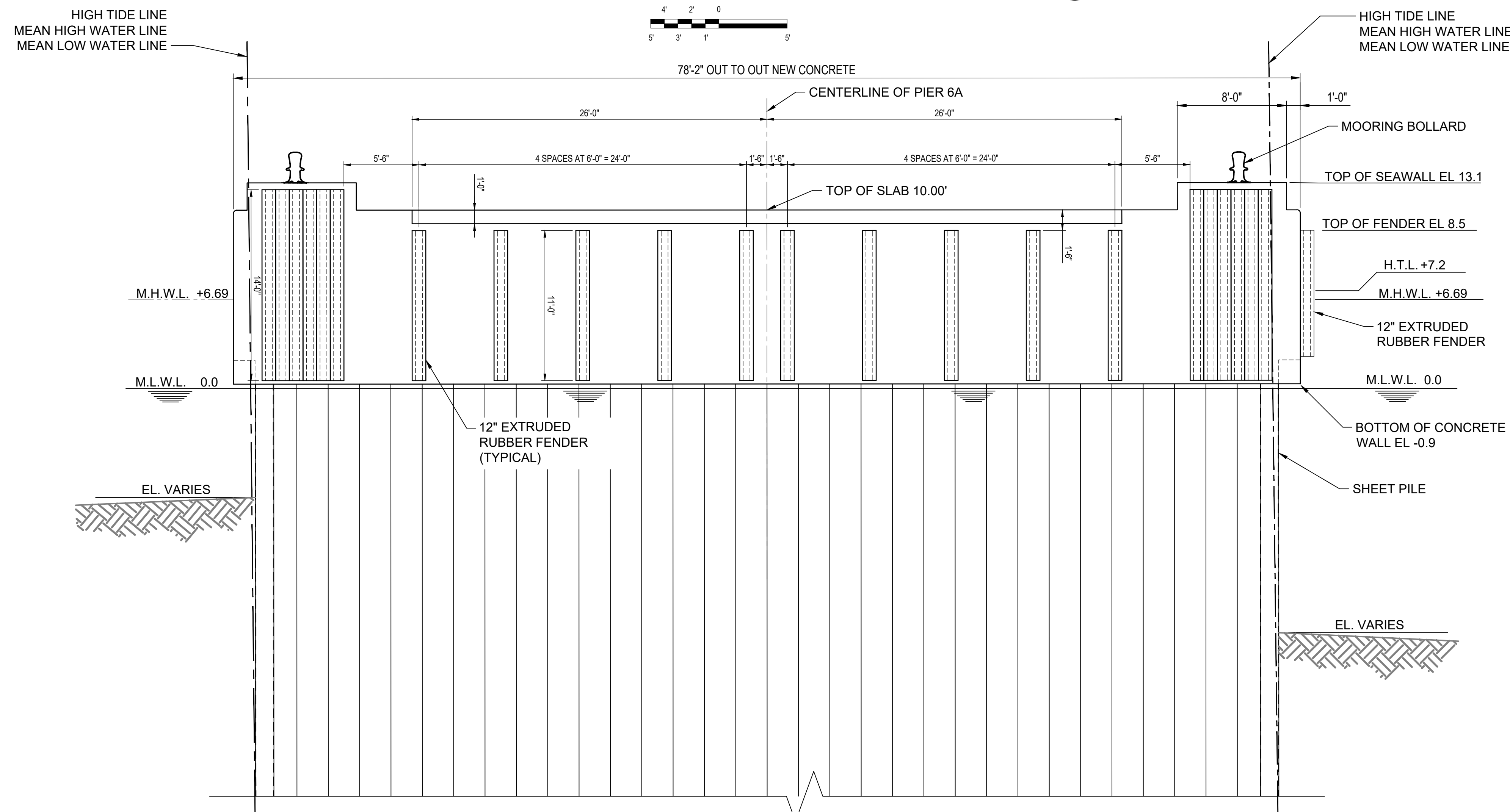
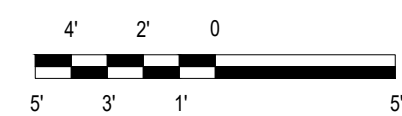
drawn	STAFF	date	01/19/2024	dwg. no.	4 of 11	rev.	3
contract	23-211	FILE	R-1218				

seal	seal
P.E. LICENSE No.	P.E. LICENSE No.



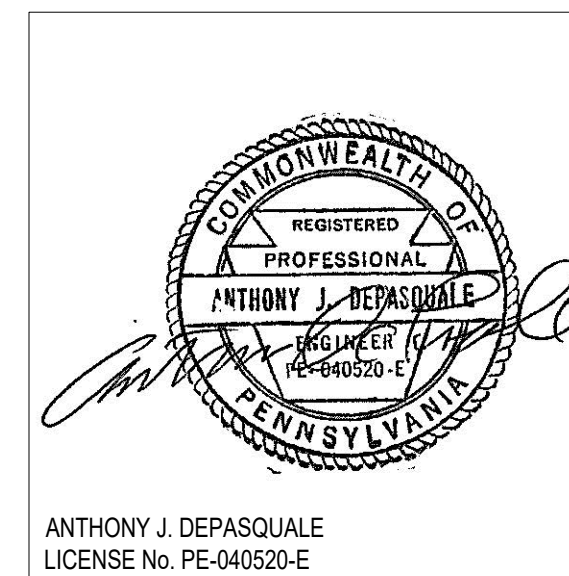
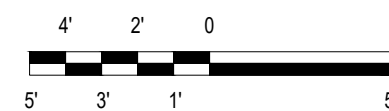
SECTION EXISTING PIER 6A - NEW SHEET PILE WALL

SCALE: 3/16" = 1'-0"



SOUTH ELEVATION - NEW PIER 6A

SCALE: 3/16" = 1'-0"



REV. 3	4/23/24	ADDED AND CALLED OUT TIDE LINE
REV. 2	4/8/24	GENERAL REVISIONS
REV. 1	2/28/24	GENERAL REVISIONS

PERMIT APPLICATION

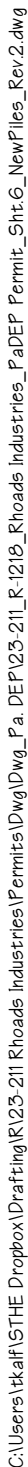
NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION, AND THIS DRAWING IS FOR PERMIT PURPOSES ONLY.

PROPOSED:	RECONSTRUCTION OF PIER 6A
AT:	PHILADELPHIA NAVY YARD - PIER 6A
COUNTY OF:	PHILADELPHIA COUNTY, PA.
APPLICATION BY:	RHOADS INDUSTRIES

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	STAFF	date	01/19/2024	dwg. no.	5 of 11	rev.	2
contract	23-211	FILE	R-1218				

seal	seal
P.E. LICENSE No.	P.E. LICENSE No.

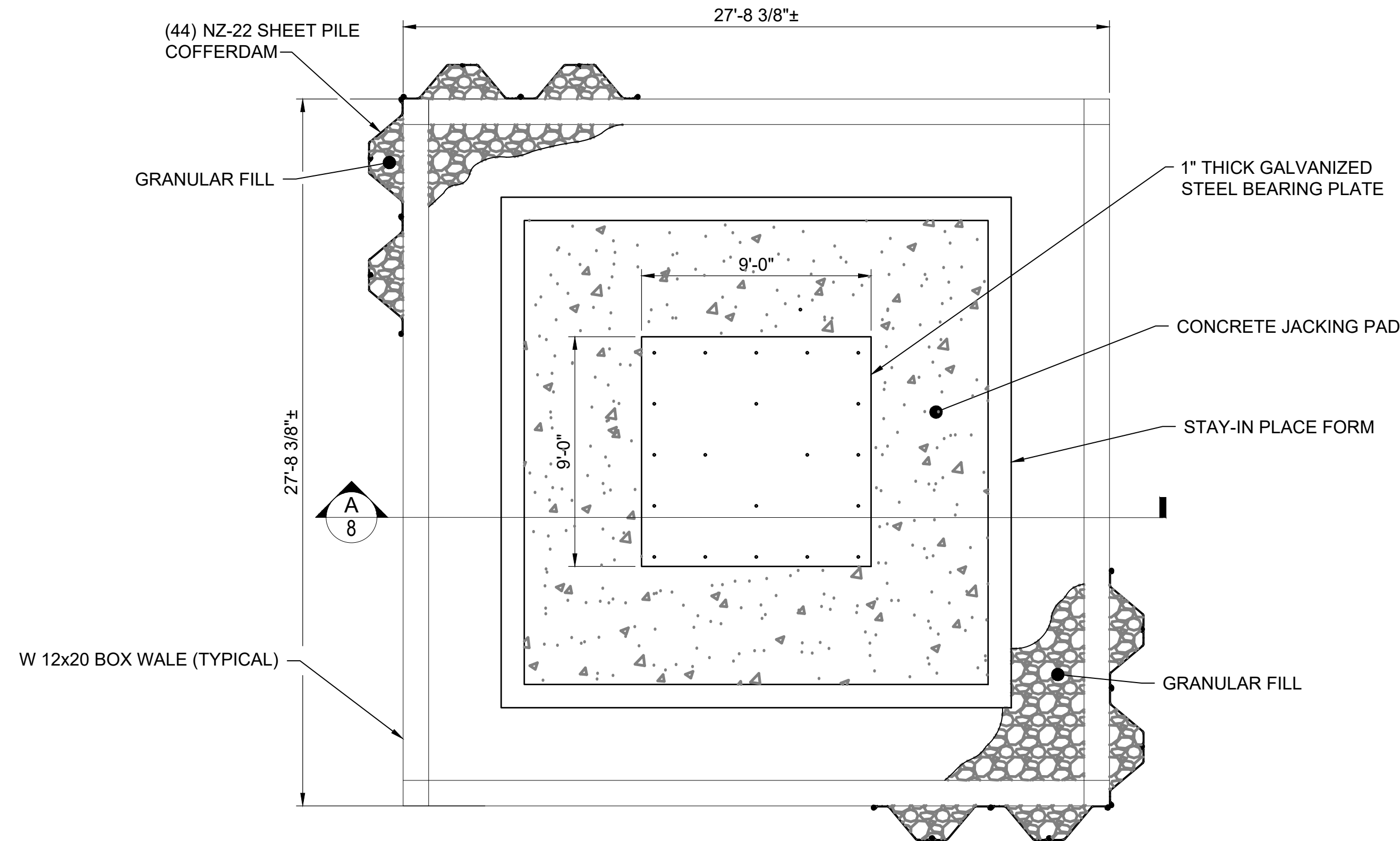


SCALE 1/32" = 1'-0"

A horizontal graphic scale bar. Above the bar, the text "SCALE 1/32" = 1'-0"" is centered. The bar itself is divided into segments. From left to right, the segments are: a black segment labeled "32'", a white segment labeled "16'", a black segment labeled "0", and another black segment labeled "32'". The segments are separated by thin white lines.

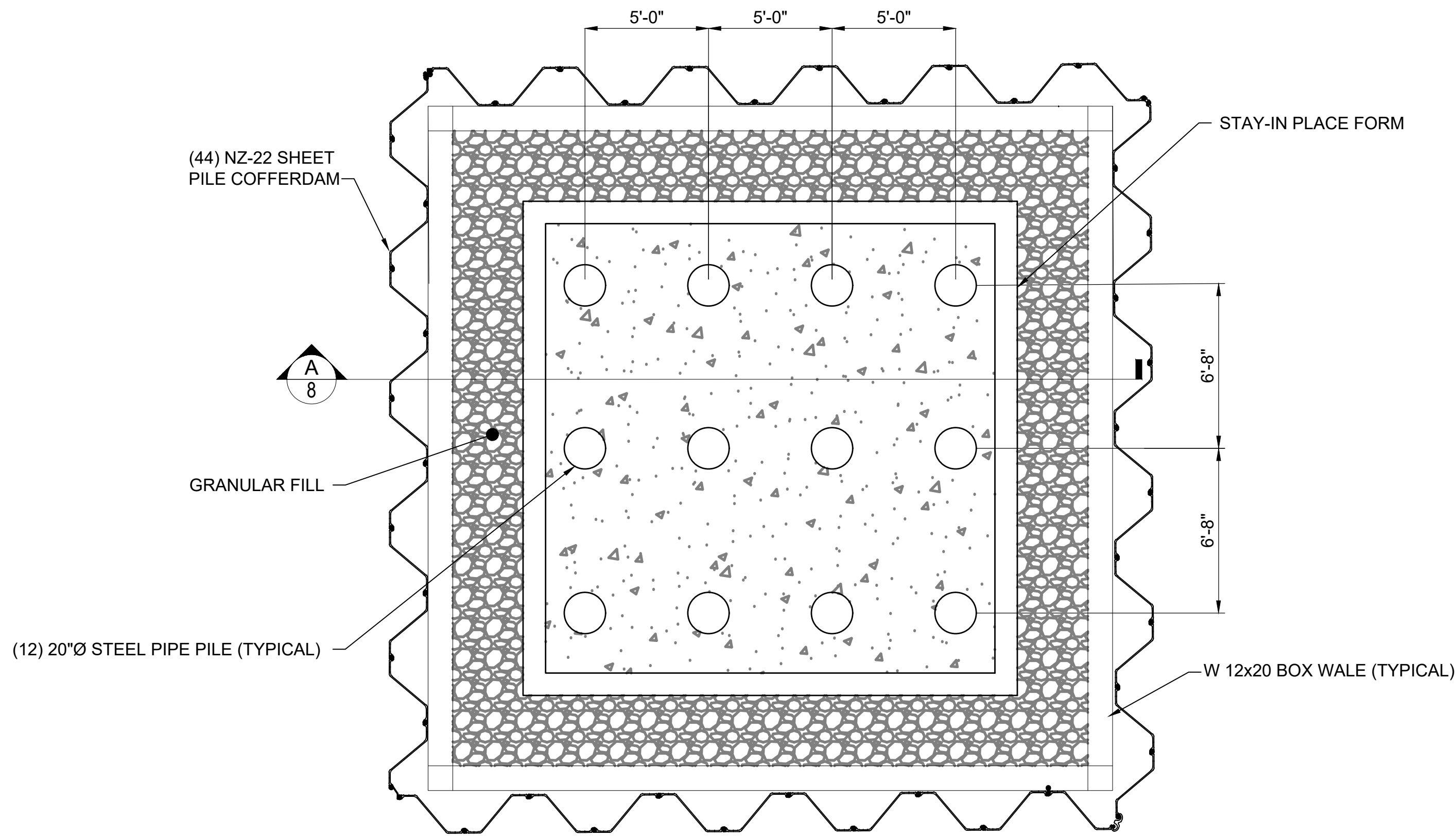
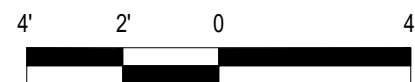
DELAWARE RIVER
← EBB FLOOD →

ANTHONY J. DEPASQUALE
LICENSE No. PE-040520-E



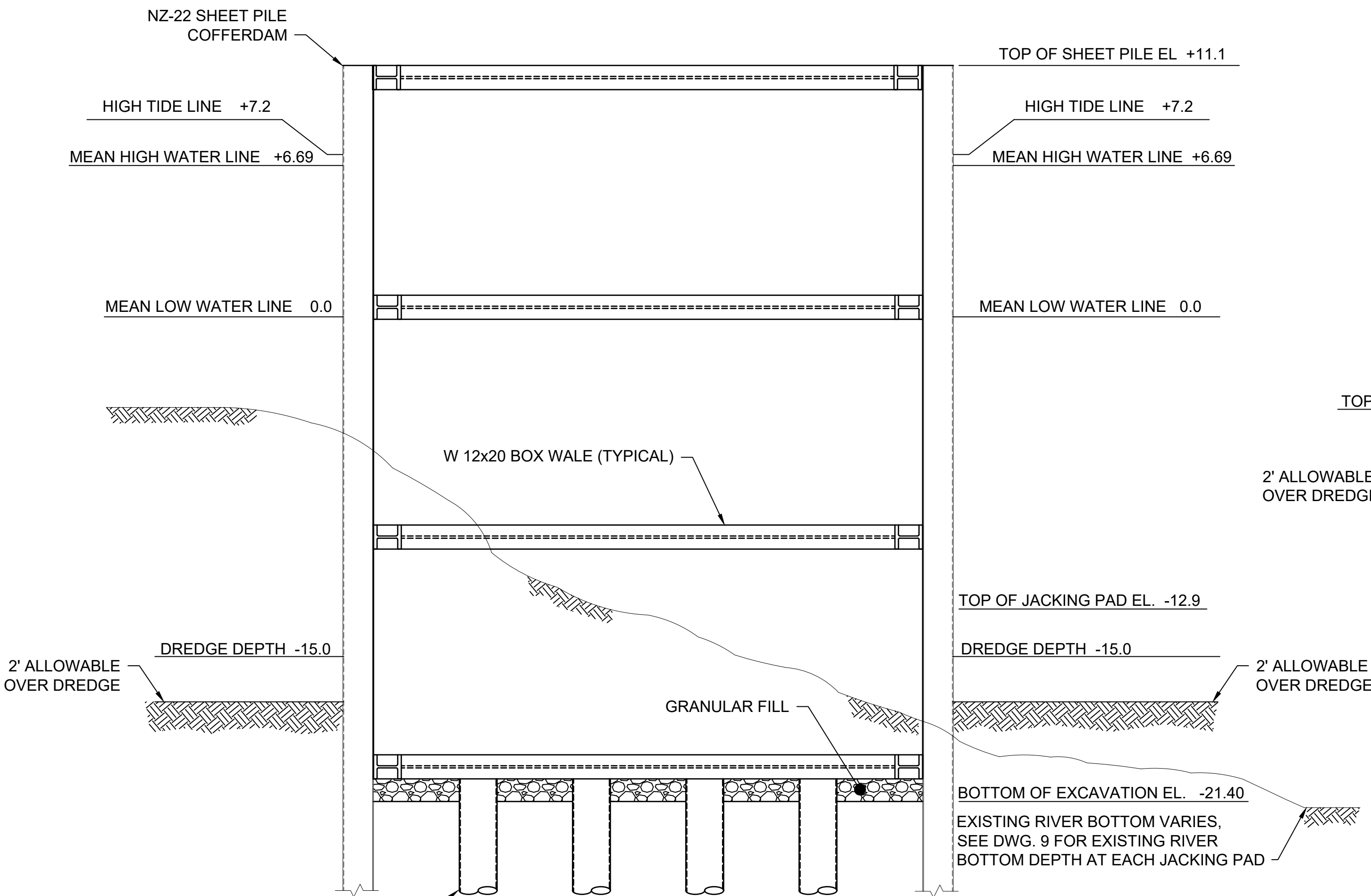
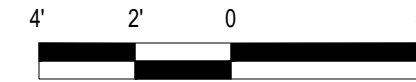
NEW JACKING PAD PLAN

SCALE: 1/4" = 1'-0"



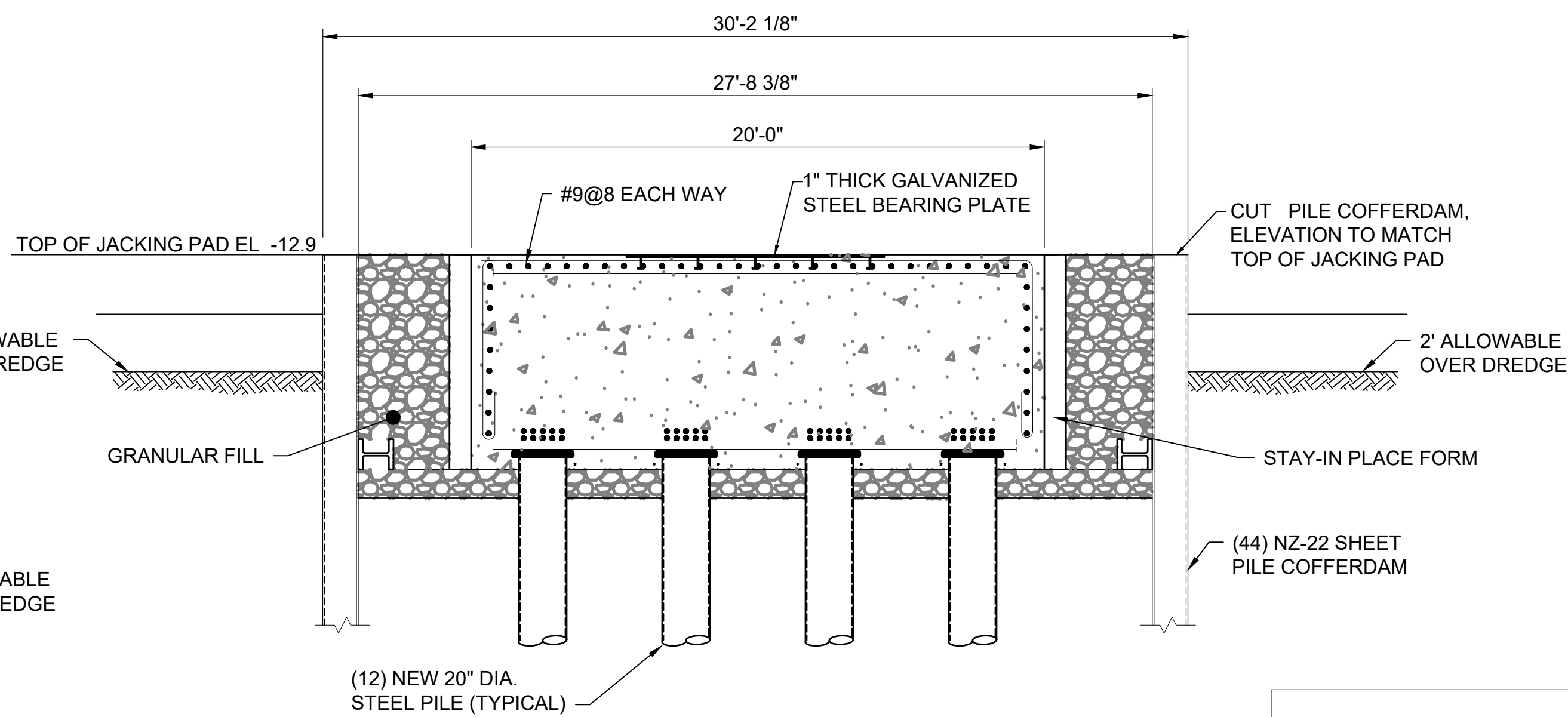
JACKING PAD PILE PLAN

SCALE: 1/4" = 1'-0"



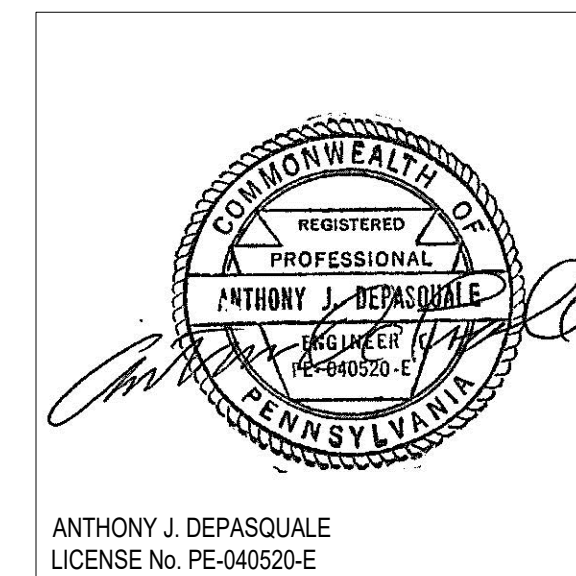
COFFERDAM SECTION PLAN

SCALE: 1/4" = 1'-0"



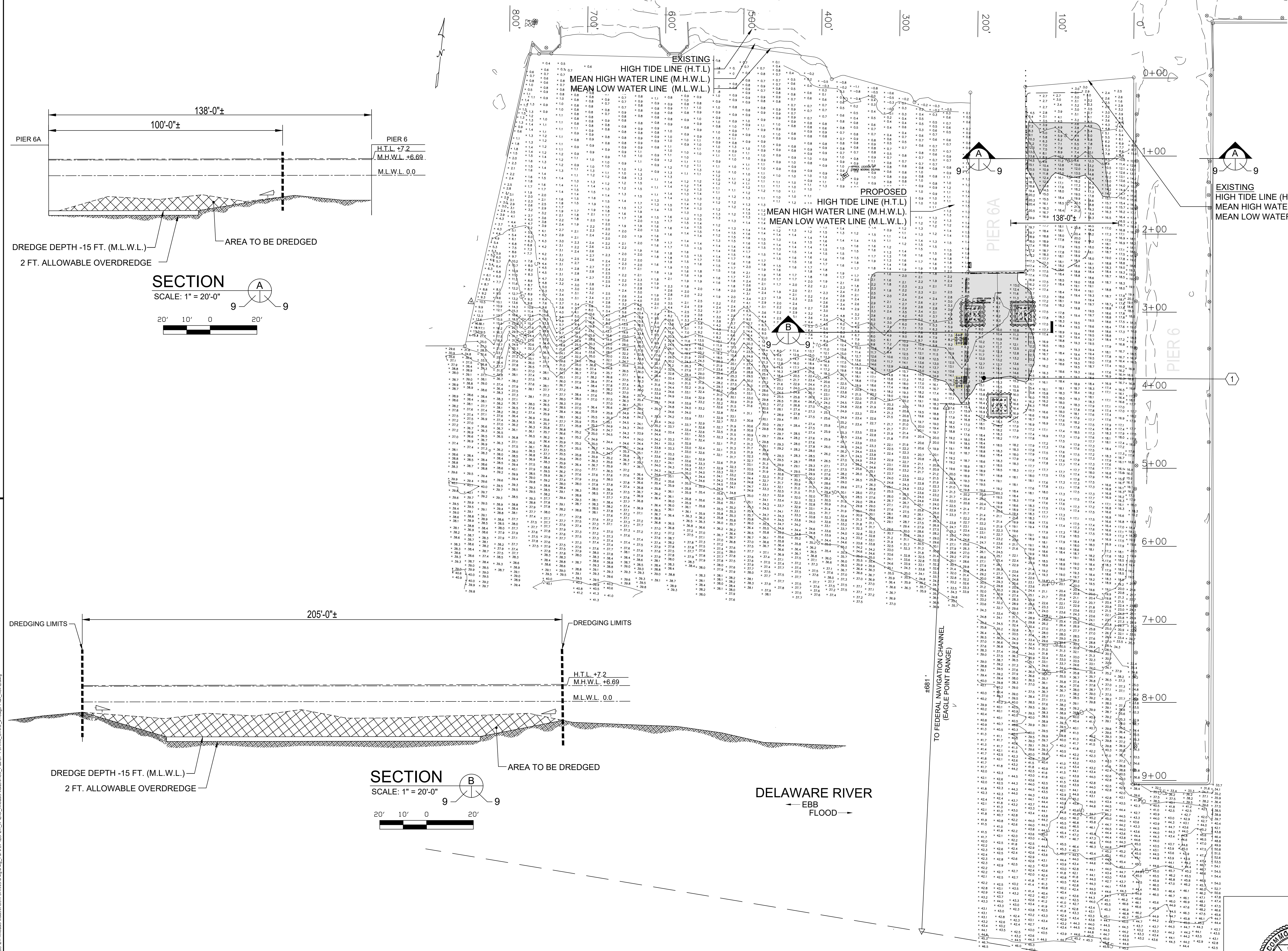
JACKING PAD SECTION

SCALE: 1/4" = 1'-0"



REV. 1	2/28/24	GENERAL REVISIONS			
PERMIT APPLICATION					
NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION, AND THIS DRAWING IS FOR PERMIT PURPOSES ONLY.					
PROPOSED:		RECONSTRUCTION OF PIER 6A			
AT:		PHILADELPHIA NAVY YARD - PIER 6A			
COUNTY OF:		PHILADELPHIA COUNTY, PA.			
APPLICATION BY:		RHOADS INDUSTRIES			
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 STAFF		date 01/19/2024		dwg. no. 8 of 11	
contract 23-211		FILE R-1218		rev. 1	
seal		seal			
P.E.		P.E.			
LICENSE No.		LICENSE No.			

RHOADS INDUSTRIES



ADJACENT PROPERTY OWNERS

- 1) PHILADELPHIA SHIPYARD DEV. CORP.
- 2) UNITED STATES OF AMERICA

SHEET KEYNOTES:

1. DREDGE AREA TO ELEVATION -15.0' M.L.W. PLUS 2 FT. OVER DREDGE ALLOWANCE. APPROXIMATE VOLUME OF DREDGE SPOIL MATERIAL (CUT) AS FOLLOWS:

PIER 6A SOUTH: ± 9,944 CUBIC YARDS
PIER 6A EAST: ± 3,544 CUBIC YARDS
TOTAL ± 13,488 CUBIC YARDS

AREA OF DREDGE LIMITS:
PIER 6A SOUTH: ±27,932 SQUARE FEET
PIER 6A EAST: ±7,212 SQUARE FEET
TOTAL ±35,144 SQUARE FEET

DATUM CHART

DOWNRIVER CORNER
TOP OF CONCRETE +13.1 (M.L.W.L.)
HIGH TIDE LINE +7.2
MEAN HIGH WATER LINE +6.69
NAVD 88 +3.1 (M.L.W.L.)
MEAN LOW WATER 0.0

REV. 3	5/28/24	DREDGE SECTIONS SIDE SLOPES
REV. 2	4/8/24	GENERAL REVISIONS
REV. 1	2/28/24	GENERAL REVISIONS

PERMIT APPLICATION

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

PROPOSED:	RECONSTRUCTION OF PIER 6A
AT:	PHILADELPHIA NAVY YARD - PIER 6A
COUNTY OF:	PHILADELPHIA COUNTY, PA.
APPLICATION BY:	RHOADS INDUSTRIES

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

900 Dudley Avenue
Cherry Hill, N.J. 08002
Phone 856-342-6800
Fax No. 856-342-8323

drawn	STAFF	date	01/19/2024	dwg. no.	rev.
contract	23-211	FILE	R-1218	9 of 11	3



ANTHONY J. DEPASQUALE
LICENSE No. PE-040520-E

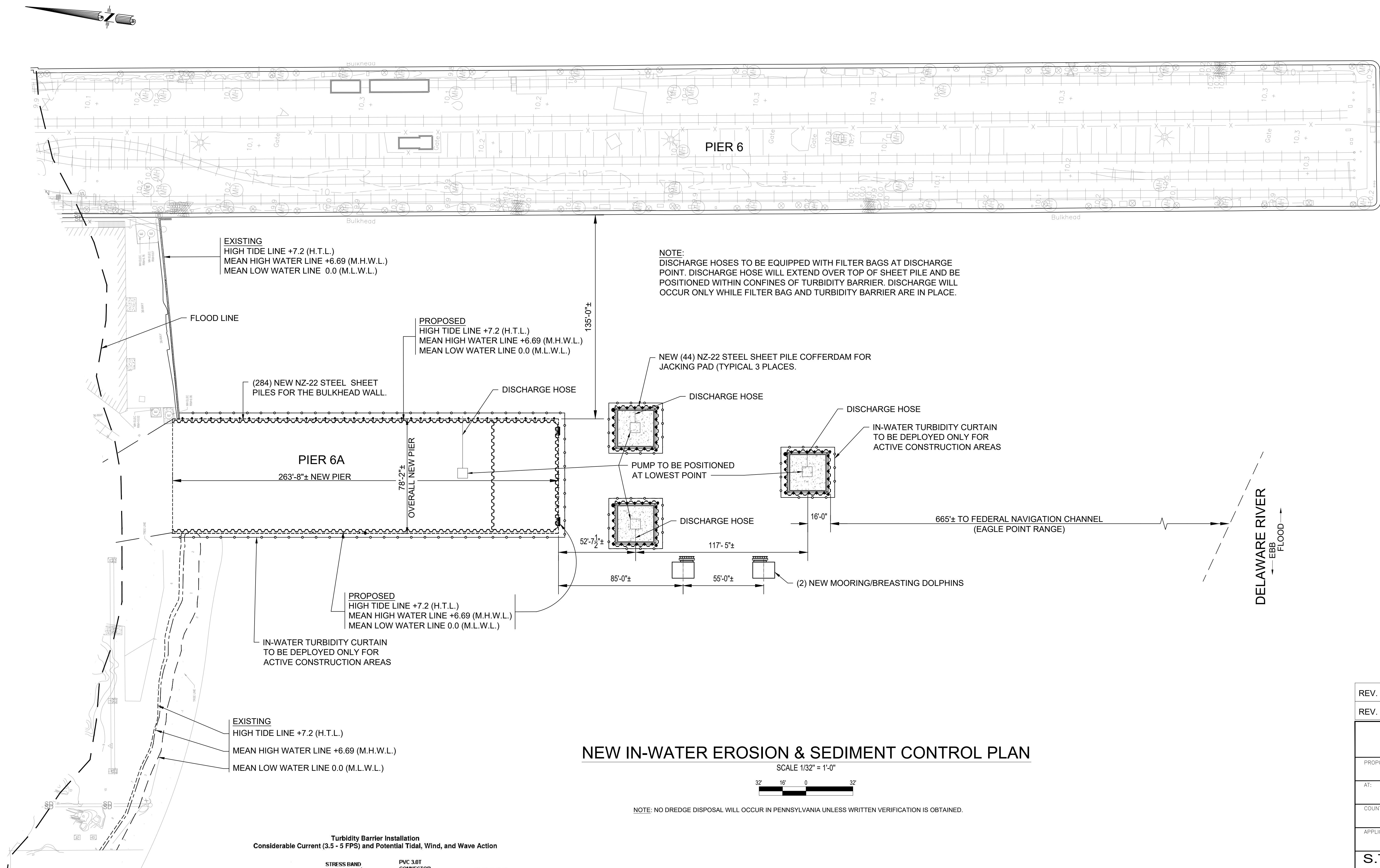
P.E.

LICENSE No.

P.E.

LICENSE No.

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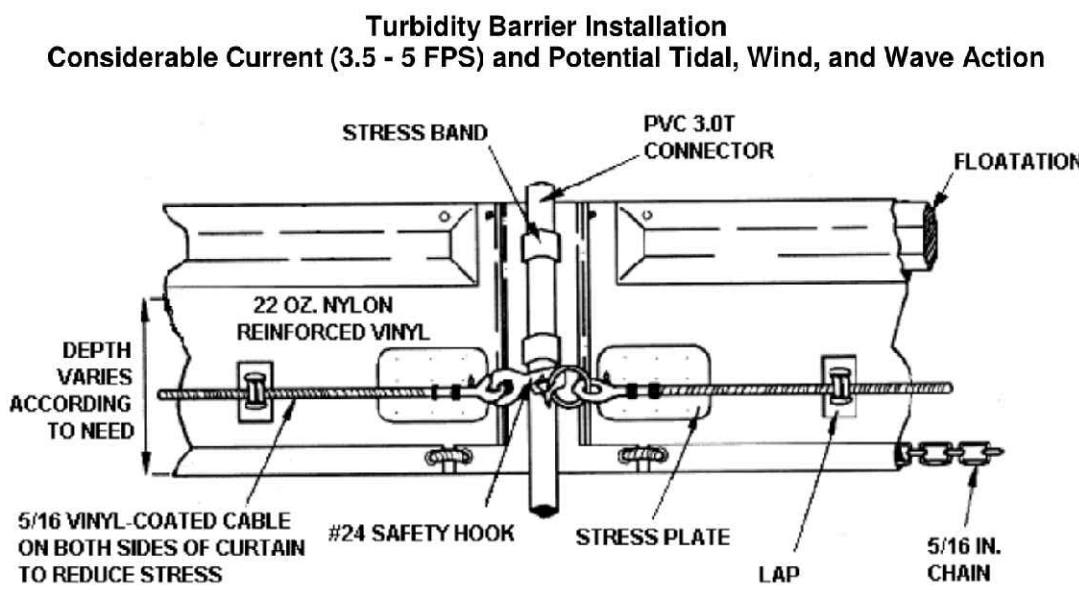


NEW IN-WATER EROSION & SEDIMENT CONTROL PLAN

SCALE 1/32" = 1'-0"

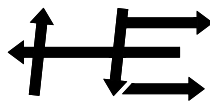


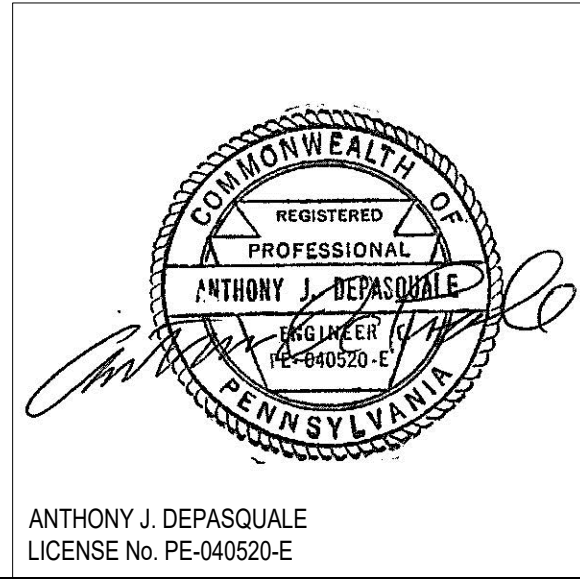
NOTE: NO DREDGE DISPOSAL WILL OCCUR IN PENNSYLVANIA UNLESS WRITTEN VERIFICATION IS OBTAINED.



TURBIDITY BARRIER DETAIL

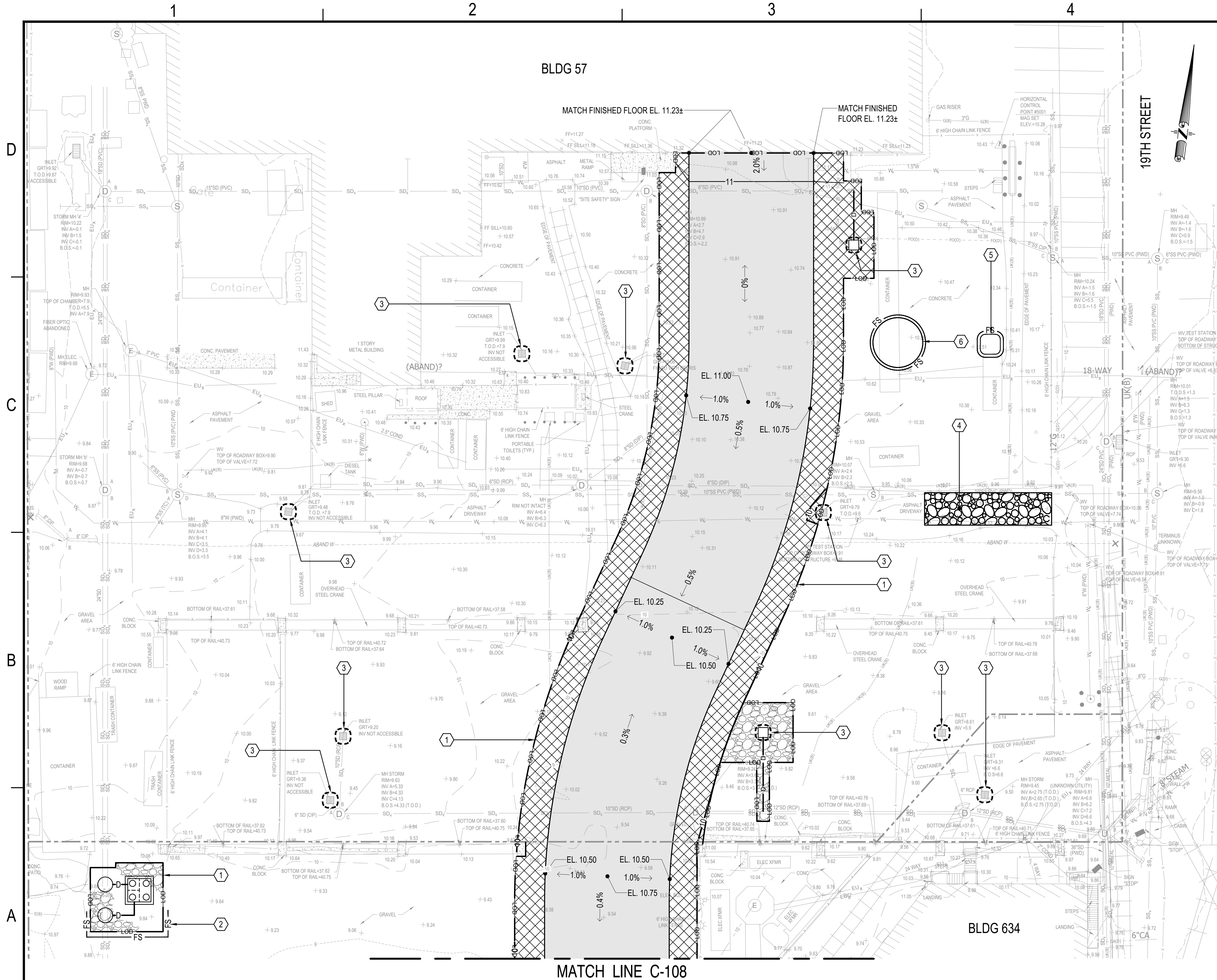
SCALE: NONE

REV. 2	6/21/24	PUMP DISCHARGE HOSE		
REV. 1	4/23/2024	PADEP REQUESTED NOTE FOR DREDGE MATERIAL		
PERMIT APPLICATION				
NOTE: FINAL DESIGN REQUIRED FOR CONSTRUCTION, AND THIS DRAWING IS FOR PERMIT PURPOSES ONLY.				
PROPOSED:	RECONSTRUCTION OF PIER 6A			
AT:	PHILADELPHIA NAVY YARD - PIER 6A			
COUNTY OF:	PHILADELPHIA COUNTY, PA.			
APPLICATION BY:	RHOADS INDUSTRIES			
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	STAFF	date 04/17/2024	dwg. no.	rev
contract	23-211	FILE R-1218	10 of 11	2
seal		seal		
P.E. LICENSE No.		P.E. LICENSE No.		



ANTHONY J. DEPASQUALE
LICENSE No. PE-040520-E

FILE NAME: C:\Users\cdh\Documents\Projects\A107\A107.dwg, LAYOUT NAME: Layout1, PLOTTED: Thursday, January 18, 2024, 3:20pm, USER: cdh



GENERAL SHEET NOTES

- REFER TO SHEET C-001 FOR GENERAL CIVIL NOTES, LEGENDS AND ABBREVIATIONS.
- INSTALL ALL BMP'S IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.
- THE LIMIT OF EARTH DISTURBANCE AREA TOTALS 36,500 SQUARE FEET.
- CONSTRUCTION VEHICLE ACCESS TO AND FROM THE PROJECT MUST ONLY BE THROUGH THE ROCK CONSTRUCTION ENTRANCE IDENTIFIED ON PLAN. ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY AND RETURNED TO THE CONSTRUCTION SITE. WASHING THE ROADWAY OR SWEEPING DEPOSITS INTO ROADWAY DRAINAGE COURSES IS PROHIBITED.
- EXCESS EXCAVATED SOIL, ROCK, OR EARTH MATERIALS WILL BE TEMPORARILY STOCKPILED ON-SITE. STOCKPILES MUST BE NO GREATER THAN 20 FEET IN HEIGHT AND HAVE A SLOPE NO GREATER THAN 2:1. PROVIDE COMPOST FILTER SOCKS TO COMPLETELY SURROUND THE TEMPORARY STOCKPILE.
- REFER TO SHEETS C-505 AND C-506 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
- REFER TO SHEET C-505 FOR SEQUENCE OF CONSTRUCTION.



NOT FOR
CONSTRUCTION
01/18/2024



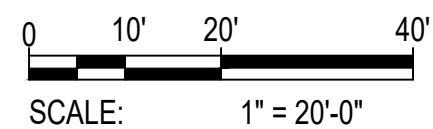
SHEET KEYNOTES

- LIMITS OF DISTURBANCE.
- COMPOST FILTER SOCK. SEE DETAIL A1/C-506.
- FILTER BAG INLET PROTECTION. SEE DETAIL A4/C-505.
- ROCK CONSTRUCTION ENTRANCE. SEE DETAIL C4/C-505.
- CONCRETE WASHOUT. SEE DETAIL A4/C-506.
- TEMPORARY STOCKPILE. SEE GENERAL SHEET NOTE 5.

SHEET LEGEND

- LOD LIMITS OF DISTURBANCE
- FS COMPOST FILTER SOCK (12" MIN. DIAMETER)
- FILTER BAG INLET PROTECTION
- ROCK CONSTRUCTION ENTRANCE
- LAND TRANSPORT PATH - CONCRETE PAVEMENT SUPPORTED ON RIGID INCLUSION GROUND IMPROVEMENT
- BITUMINOUS CONCRETE PAVEMENT

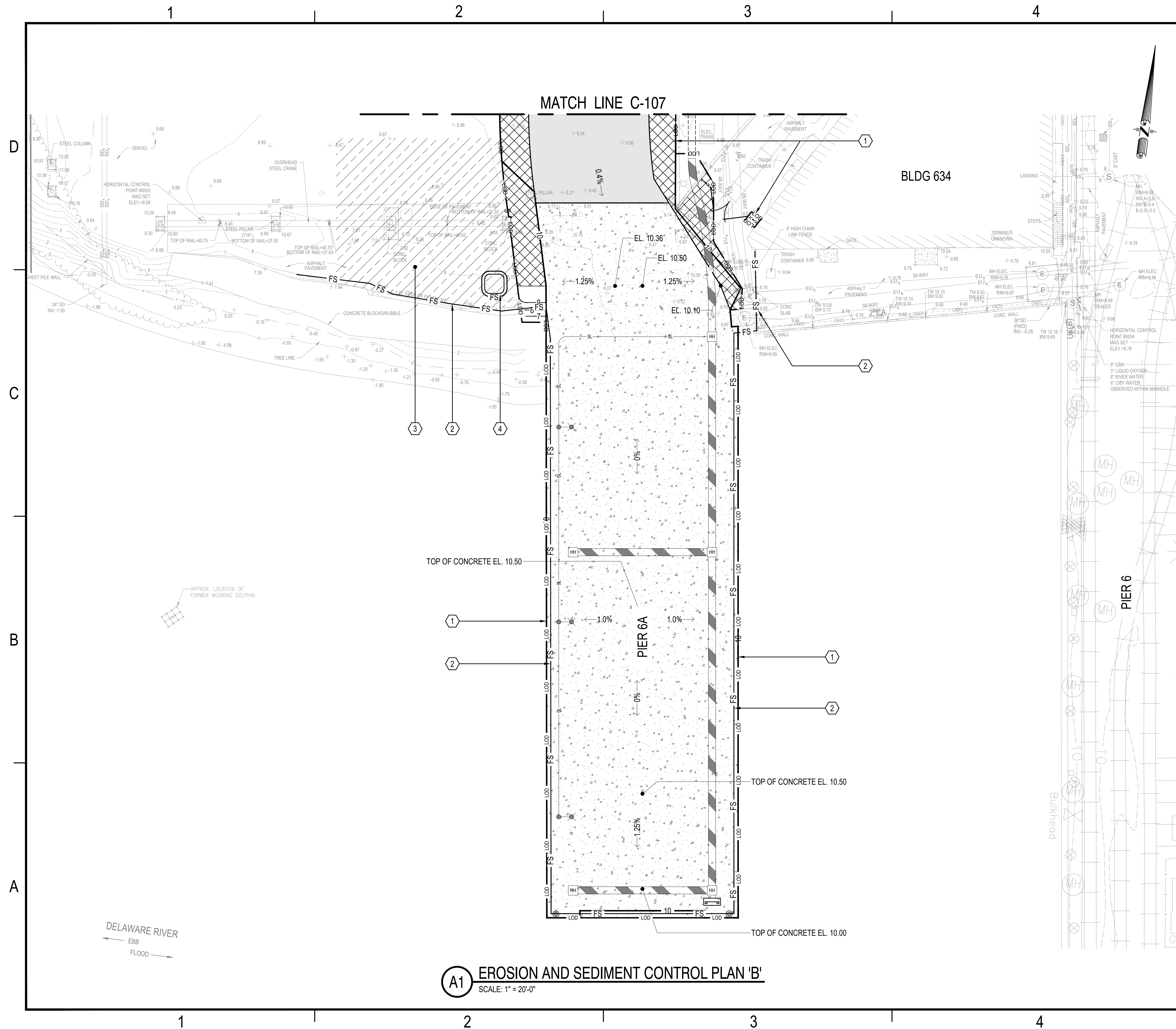
GRAPHIC SCALE



A1 EROSION AND SEDIMENT CONTROL PLAN 'A'
SCALE: 1" = 20'-0"

RHODS INDUSTRIES, INC.
PHILADELPHIA, PENNSYLVANIA
PIER 6A AND PATHWAY
EROSION AND SEDIMENT CONTROL PLAN 'A'

SCALE: AS NOTED
SHEET 16 OF 46
C-107
DRAWING REVISION: 25 AUGUST 2020



GENERAL SHEET NOTES

1. REFER TO SHEET C-001 FOR GENERAL CIVIL NOTES, LEGENDS AND ABBREVIATIONS.
2. INSTALL ALL BMP'S IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.
3. THE LIMIT OF EARTH DISTURBANCE AREA TOTALS 36,500 SQUARE FEET.
4. CONSTRUCTION VEHICLE ACCESS TO AND FROM THE PROJECT MUST ONLY BE THROUGH THE ROCK CONSTRUCTION ENTRANCE IDENTIFIED ON PLAN. ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY AND RETURNED TO THE CONSTRUCTION SITE. WASHING THE ROADWAY OR SWEEPING DEPOSITS INTO ROADWAY DRAINAGE COURSES IS PROHIBITED.
5. EXCESS EXCAVATED SOIL, ROCK, OR EARTH MATERIALS WILL BE TEMPORARILY STOCKPILED ON-SITE. STOCKPILES MUST BE NO GREATER THAN 20 FEET IN HEIGHT AND HAVE A SLOPE NO GREATER THAN 2:1. PROVIDE COMPOST FILTER SOCKS TO COMPLETELY SURROUND THE TEMPORARY STOCKPILE.
6. REFER TO SHEETS C-505 AND C-506 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
7. REFER TO SHEET C-505 FOR SEQUENCE OF CONSTRUCTION.



**NOT FOR
CONSTRUCTION
01/18/2024**



DES	CJK	DRW	CJK	CHK	WCG
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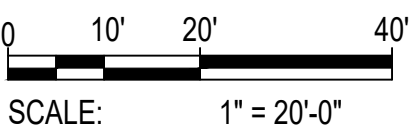
SHEET KEYNOTES

1. LIMITS OF DISTURBANCE.
2. COMPOST FILTER SOCK. SEE DETAIL A1/C-506.
3. DESIGNATED CONTRACTOR'S STAGING, STORAGE, AND TRAILER AREA.
4. CONCRETE WASHOUT. SEE DETAIL A4/C-506.

SHEET LEGEND

- | | |
|---|--|
|  | LIMITS OF DISTURBANCE |
|  | COMPOST FILTER SOCK (12" MIN. DIAMETER) |
|  | FILTER BAG INLET PROTECTION |
|  | LAND TRANSPORT PATH - CONCRETE PAVEMENT
SUPPORTED ON RIGID INCLUSION GROUND IMPROVEMENT |
|  | BITUMINOUS CONCRETE PAVEMENT |
|  | DESIGNATED CONTRACTOR'S STAGING,
STORAGE, AND TRAILER AREA |

GRAPHIC SCALE



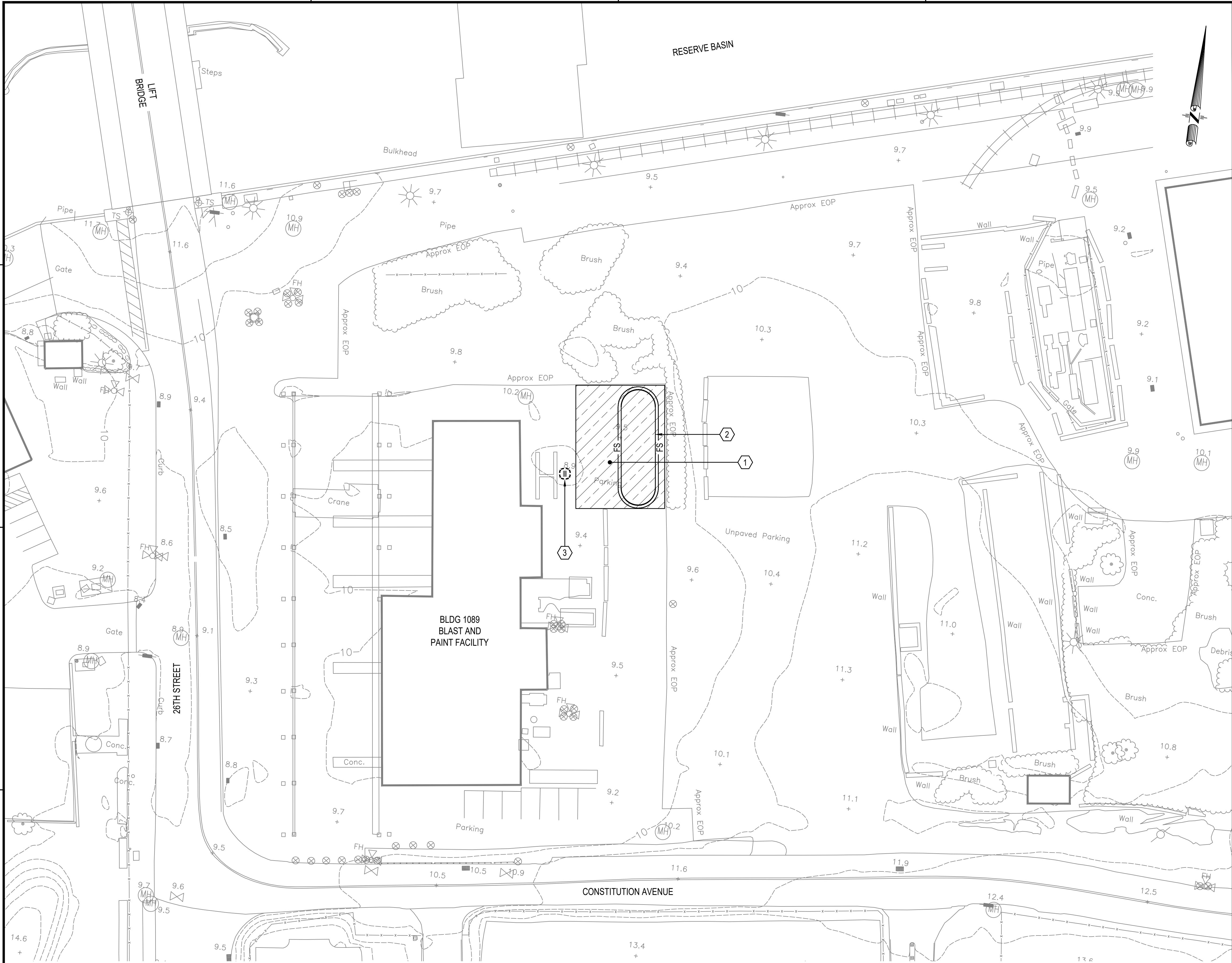
PHILADELPHIA NAVY YARD	RHODES INDUSTRIES, INC.
PHILADELPHIA, PENNSYLVANIA	
PIER 6A AND PATHWAY	
EROSION AND SEDIMENT CONTROL PLAN 'B'	

SCALE: AS NOTED

SHEET 17 OF 46

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: N:\1545-01\CD\BLDG305\CD25555-2\1545.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 19, 2024 - 3:20pm USER: cdd



EROSION AND SEDIMENT CONTROL PLAN 'C' -
OFF-SITE MATERIAL STORAGE AND STAGING AREA
SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

1. REFER TO SHEET C-001 FOR GENERAL CIVIL NOTES, LEGENDS AND ABBREVIATIONS.
2. INSTALL ALL BMP'S IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.
3. THE OFF-SITE MATERIAL STORAGE AND STAGING AREA DEPICTED ON PLAN IS LOCATED ON EXISTING IMPERVIOUS PAVEMENT (ASPHALT/CONCRETE) AND DOES NOT REQUIRE/INCLUDE EARTH DISTURBANCES.
4. CONSTRUCTION VEHICLE ACCESS TO AND FROM THE PROJECT MUST ONLY BE THROUGH THE ROCK CONSTRUCTION ENTRANCE IDENTIFIED ON PLAN. ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY AND RETURNED TO THE CONSTRUCTION SITE. WASHING THE ROADWAY OR SWEEPING DEPOSITS INTO ROADWAY DRAINAGE COURSES IS PROHIBITED.
5. EXCESS EXCAVATED SOIL, ROCK, OR EARTH MATERIALS WILL BE TEMPORARILY STOCKPILED ON-SITE. STOCKPILES MUST BE NO GREATER THAN 20 FEET IN HEIGHT AND HAVE A SLOPE NO GREATER THAN 2:1. PROVIDE COMPOST FILTER SOCKS TO COMPLETELY SURROUND THE TEMPORARY STOCKPILE.
6. REFER TO SHEETS C-505 AND C-506 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
7. REFER TO SHEET C-505 FOR SEQUENCE OF CONSTRUCTION.



**NOT FOR
CONSTRUCTION**
01/18/2024



CSJ CJK DRH CJK CHK WCG

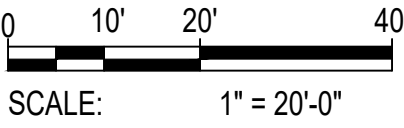
SHEET KEYNOTES

1. DESIGNATED CONTRACTOR'S STAGING, STORAGE, AND TRAILER AREA.
2. TEMPORARY STOCKPILE. SEE GENERAL SHEET NOTE 5.
3. FILTER BAG INLET PROTECTION. SEE DETAIL A4/C-505.

SHEET LEGEND

- FS COMPOST FILTER SOCK (12" MIN. DIAMETER)
- Filter Bag Inlet Protection
- DESIGNATED CONTRACTOR'S STAGING, STORAGE, AND TRAILER AREA

GRAPHIC SCALE



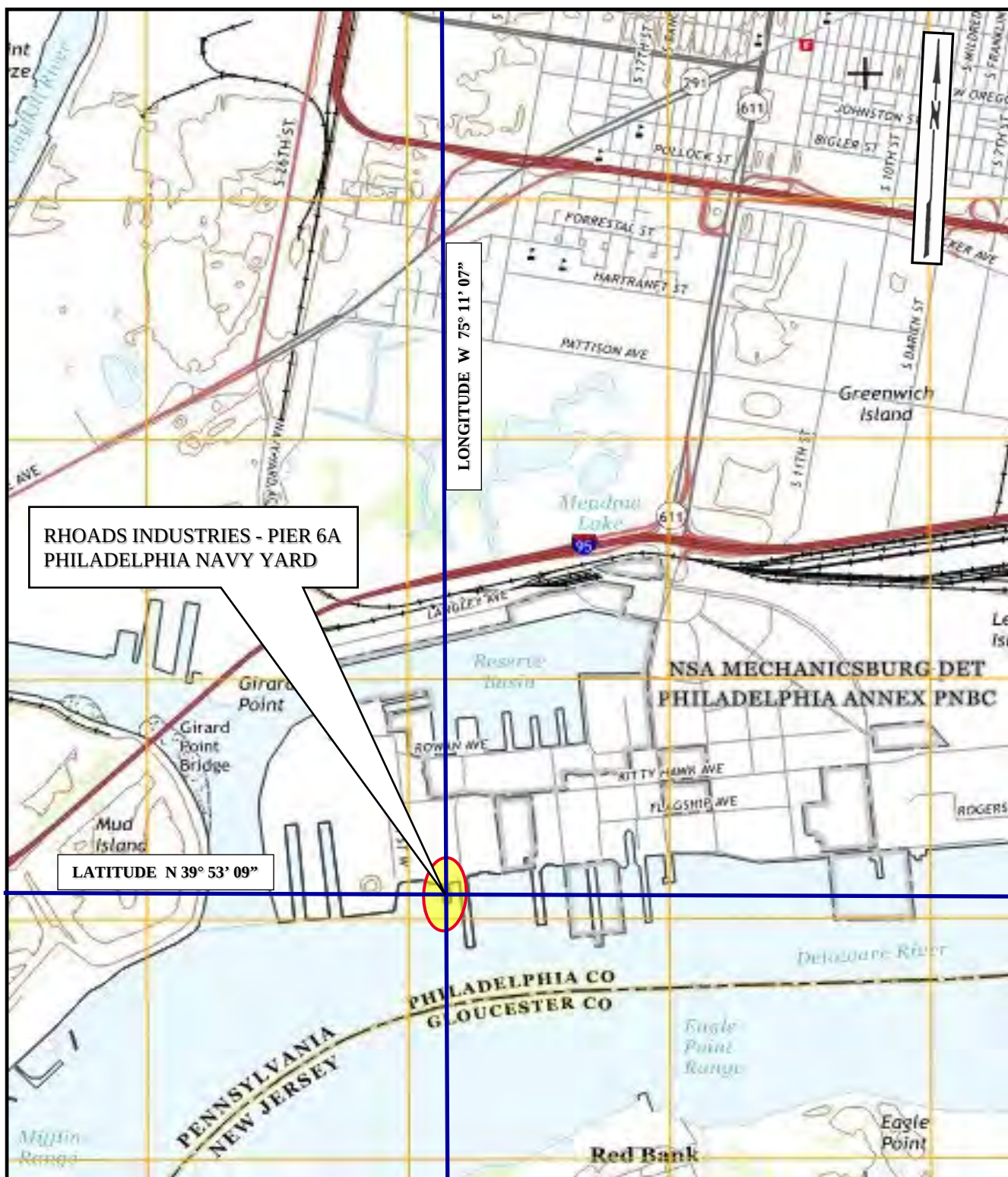
RHODS INDUSTRIES, INC.
PHILADELPHIA, PENNSYLVANIA
PHILADELPHIA NAVY YARD
PIER 6A AND PATHWAY
EROSION AND SEDIMENT CONTROL PLAN 'C' -
OFF-SITE MATERIAL STORAGE AND STAGING AREA

SCALE: AS NOTED

SHEET 18 OF 46

C-109

DRAWING REVISION: 25 AUGUST 2020



PROJECT SITE LOCATION MAP

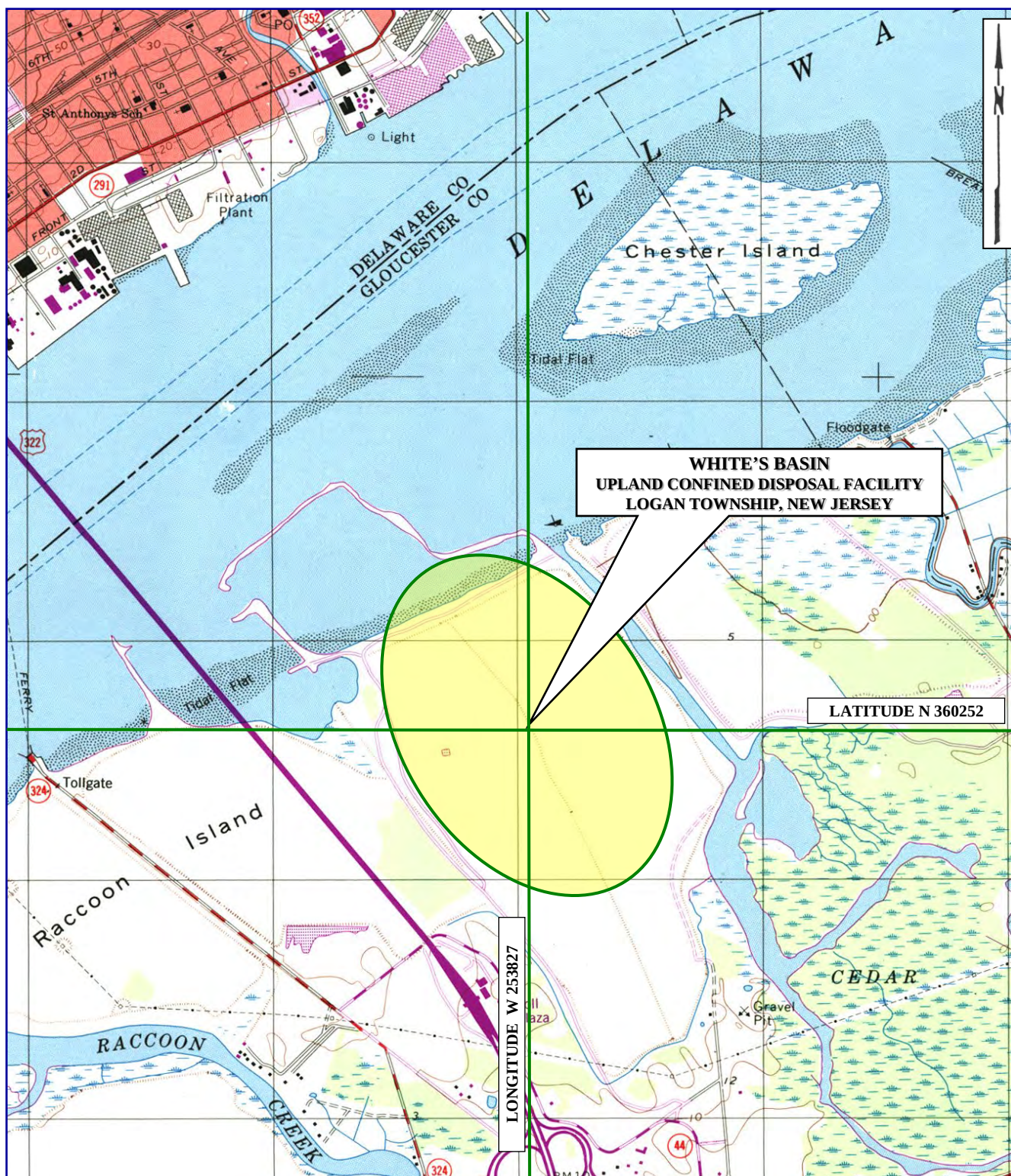
UNITED STATES GEOLOGIC SURVEY QUADRANGLE

PHILADELPHIA, PA-NJ

SCALE: 1:24000

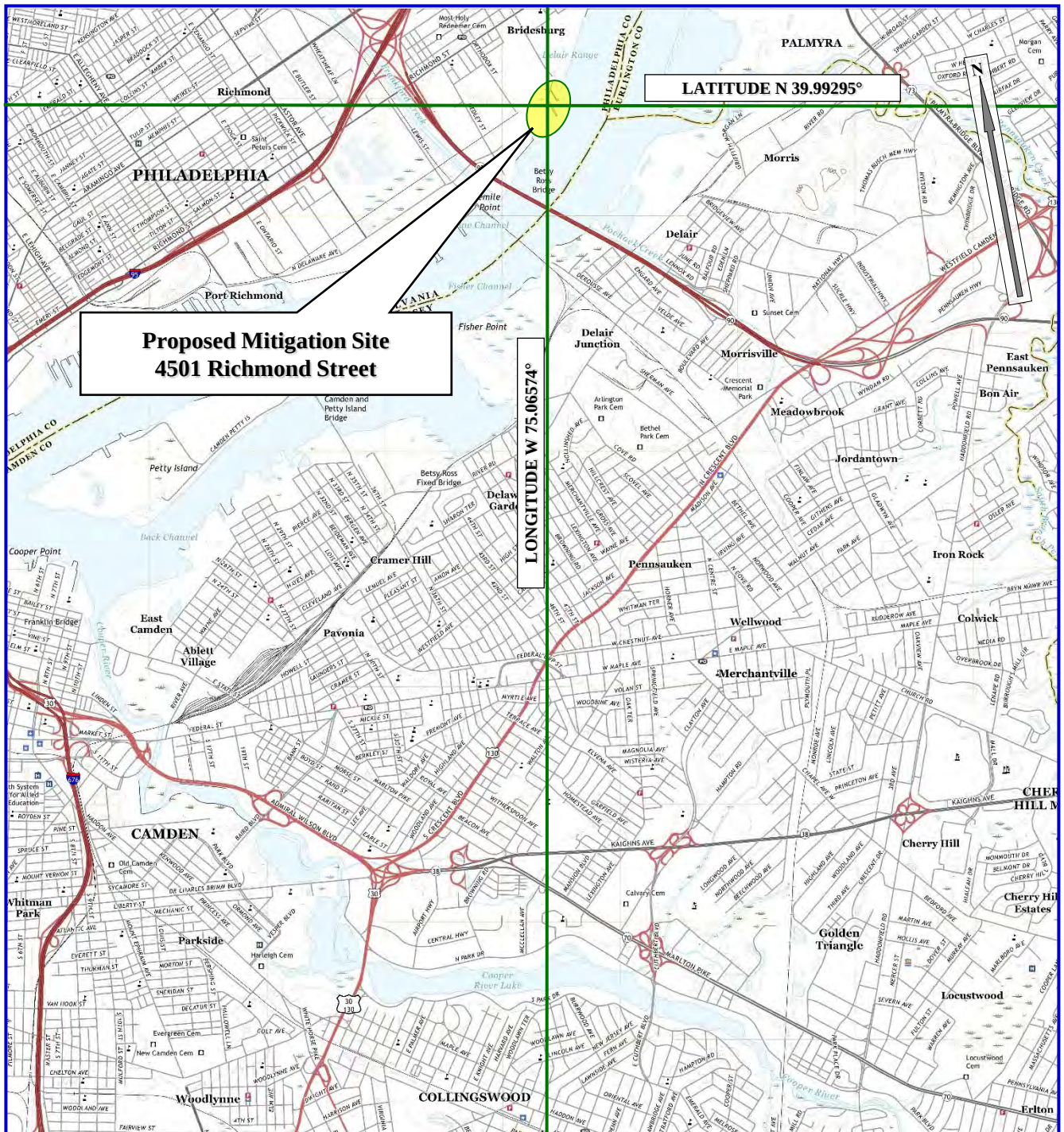
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PROJECT SITE LOCATION MAP

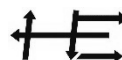
UNITED STATES GEOLOGIC SURVEY QUADRANGLE
BRIDGEPORT, NEW JERSEY - PENNSYLVANIA
SCALE 1:24000 (1"=2000')



PROJECT SITE LOCATION MAP
UNITED STATES GEOLOGIC SURVEY QUADRANGLE
CAMDEN QUADRANGLE - NEW JERSEY - PENNSYLVANIA
SCALE 1:24000

E-3

23-211



S. T. HUDSON ENGINEERS, INC.
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