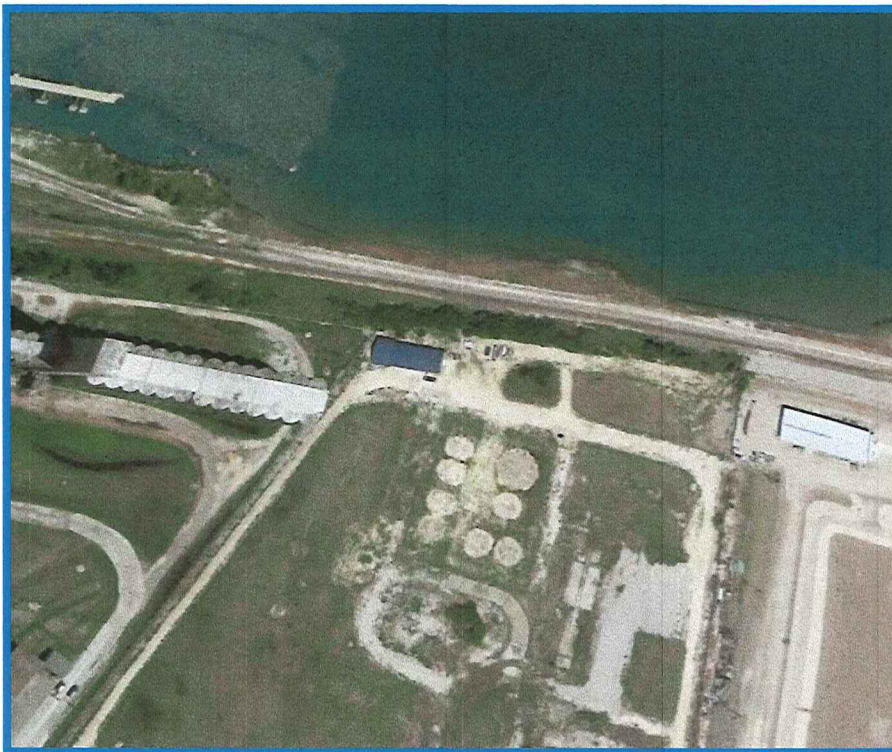


EPIC Crude Oil Terminal

Design Drawings for Proposed Modification to USACE Permit SWG-2014-00559



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C-11	Typical Breasting Dolphin
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General Notes

PROJECT INFORMATION

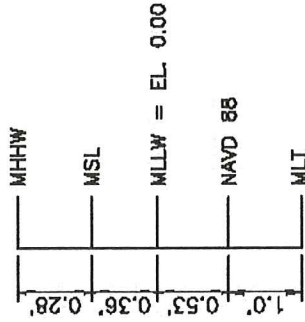
1. THIS PROJECT SCOPE CONSISTS OF THE CONSTRUCTION OF A SUEZMAX/AFRAX CLASS MARINE TERMINAL WITHIN THE PORT OF CORPUS CHRISTI, TX.
2. BATHYMETRIC SURVEY DATA IS FROM ORION MARINE GROUP AFTER DREDGE SURVEY DATED 06-25-19
3. PIPELINE SURVEY WAS PERFORMED BY TMI SOLUTIONS, LLC ON 12/28/2018 AND PROVIDED TO SEC.
4. COORDINATES ARE BASED UPON THE TEXAS COORDINATE SYSTEM FOR THE LAMBERT SOUTH ZONE NAD83 EPOCH 2002. ELEVATIONS ARE BASED ON MEAN LOWER LOW WATER (MLLW).
5. GEOTECHNICAL INFORMATION USED IN THIS DESIGN WAS COMPILED BY REPORTS PERFORMED AT THE SITE AND HISTORICAL REPORTS PERFORMED AT THE ADJACENT EAGLEFORD TERMINAL PROPERTY
 - A. EUSTIS ENGINEERING SERVICES. REFERENCE EUSTIS ENGINEERING PROJECT NO. B0153 DATED 8/20/2014 & PROJECT NO. B0215 DATED 3/3/2015.
 - B. PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI) REPORT NO. 286-1093 DATED 7/23/2014.
 - C. ROCK ENGINEERING TESTING LABORATORIES, INC. REPORT NO. G116113 DATED 3/10/2016.
6. THE TERMINAL DOCK PLATFORM IS SIZED TO SUPPORT UP TO THREE LOADING ARMS, DECK CRANE, SHIP GANGWAY, AND A DOCK HOUSE WITH SPACE TO ACCOMMODATE MECHANICAL SAFETY SKIDS AND ASSOCIATED PIPING.
7. LOADING ARMS AND ALL OTHER MECHANICAL\PIPING AND ELECTRICAL DESIGNS ARE BY OTHERS.
8. THE DESIGN DREDGE DEPTH FOR THE TERMINAL IS EL. -47.0 FT. MLLW, WITH AN ALLOWABLE 2 FT. OF OVER DREDGE, AND 2 FT. OF FUTURE MAINTENANCE WITH PROVISIONS FOR A FUTURE DREDGE DEPTH OF EL. -54.0 FT. MLLW.

GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND CONDUCT INVESTIGATIONS AND SURVEYS TO ENSURE THAT THEY UNDERSTAND THE EXISTING CONDITIONS AND RESTRAINTS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION.
2. THE CONTRACTOR STAGING AREA SHALL BE LOCATED IN AN AREA DESIGNATED BY THE OWNER.
3. ALL MARINE CONSTRUCTION ACTIVITIES SHALL BE IN CONFORMANCE TO ALL PROJECT PERMIT REQUIREMENTS.
4. CONSTRUCTION AND DREDGING ACTIVITIES SHALL NOT BLOCK OR IMPAIR SHIP TRAFFIC ALONG THE NAVIGATION CHANNEL.
5. ALL BARGES AND FLOATING EQUIPMENT SHALL HAVE NAVIGATIONAL LIGHTS IN ACCORDANCE TO US COAST GUARD (USCG) REQUIREMENTS.
6. ALL CONSTRUCTION LAYOUT SHALL BE PERFORMED BY THE CONTRACTOR. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK.

ELEVATION DATUM:

STRUCTURES: BASED ON NAVD 88 = EL. 0.00
DREDGING: BASED ON NAVD 88= EL. 0.00



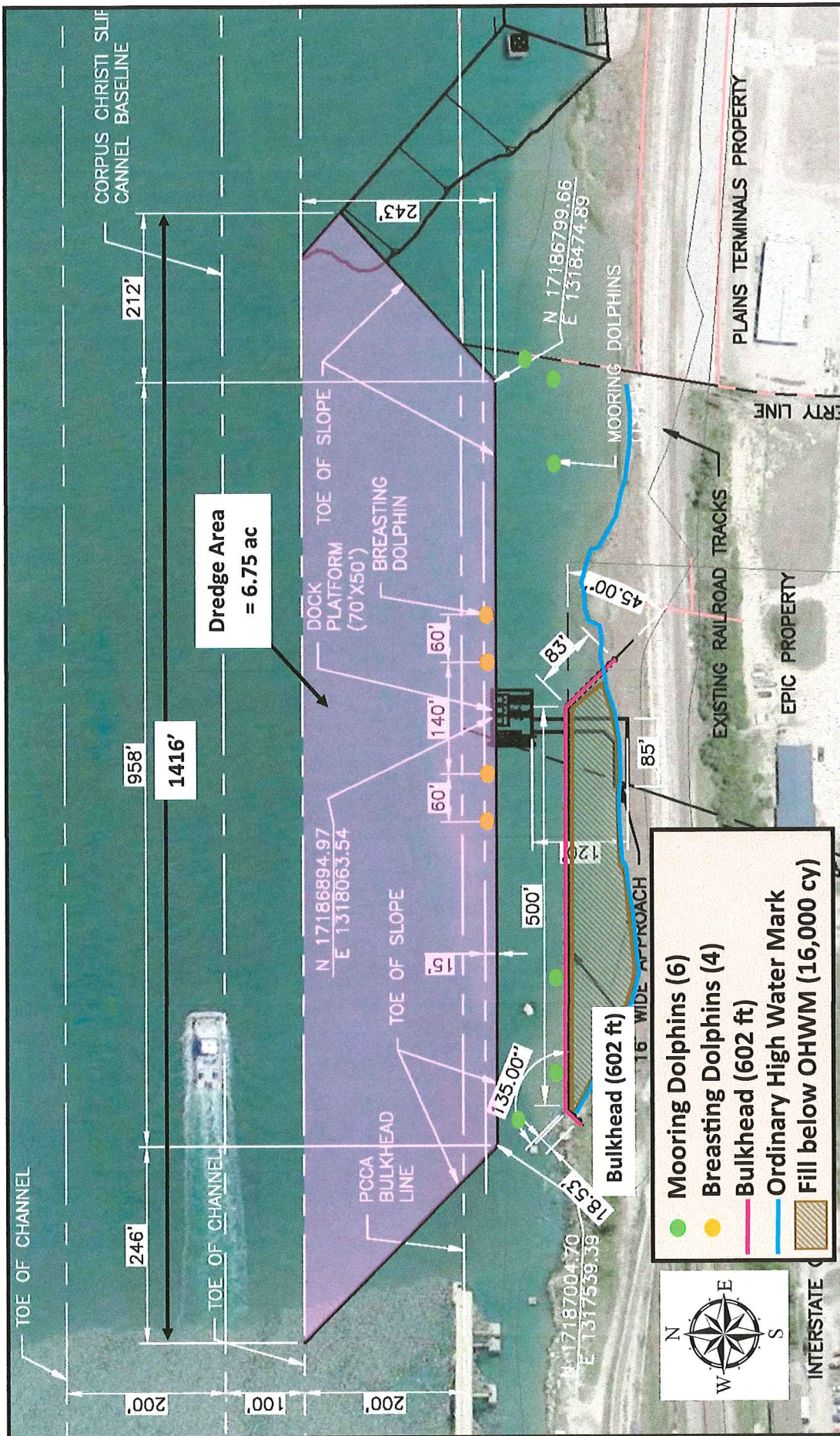
ABBREVIATIONS

BOT.	BOTTOM
CL	CENTERLINE
C/C	CENTER TO CENTER
C.I.P.	CAST-IN-PLACE
CLR.	CLEAR
CONC.	CONCRETE
DWG.	DRAWING
E.W.	EACH WAY
K	KIPS
KSI	KIPS PER SQUARE INCH
LLV	LONG LEG VERTICAL
MLW	MEAN LOW WATER
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPP.	OPPOSITE
P	PLATE
P.C.	PRECAST
REINF.	REINFORCING
SIM.	SIMILAR
SYM	SYMMETRIC
TYP.	TYPICAL

Exhibit C

Bulkhead Design Drawings

Site Plan with Proposed Bulkhead



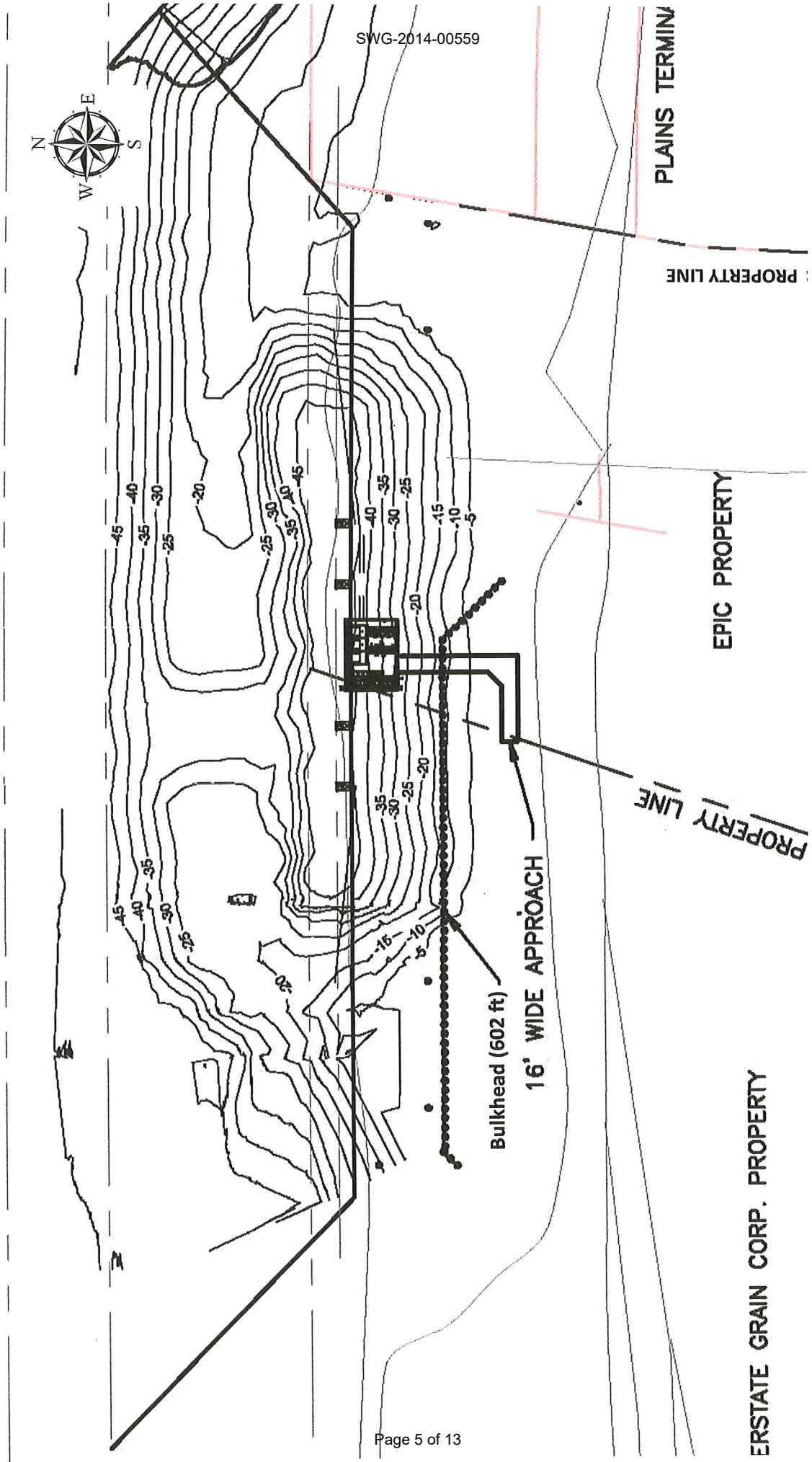
 Bulkhead_Fill

 Impacted Emergent Wetland = 0.001 ac

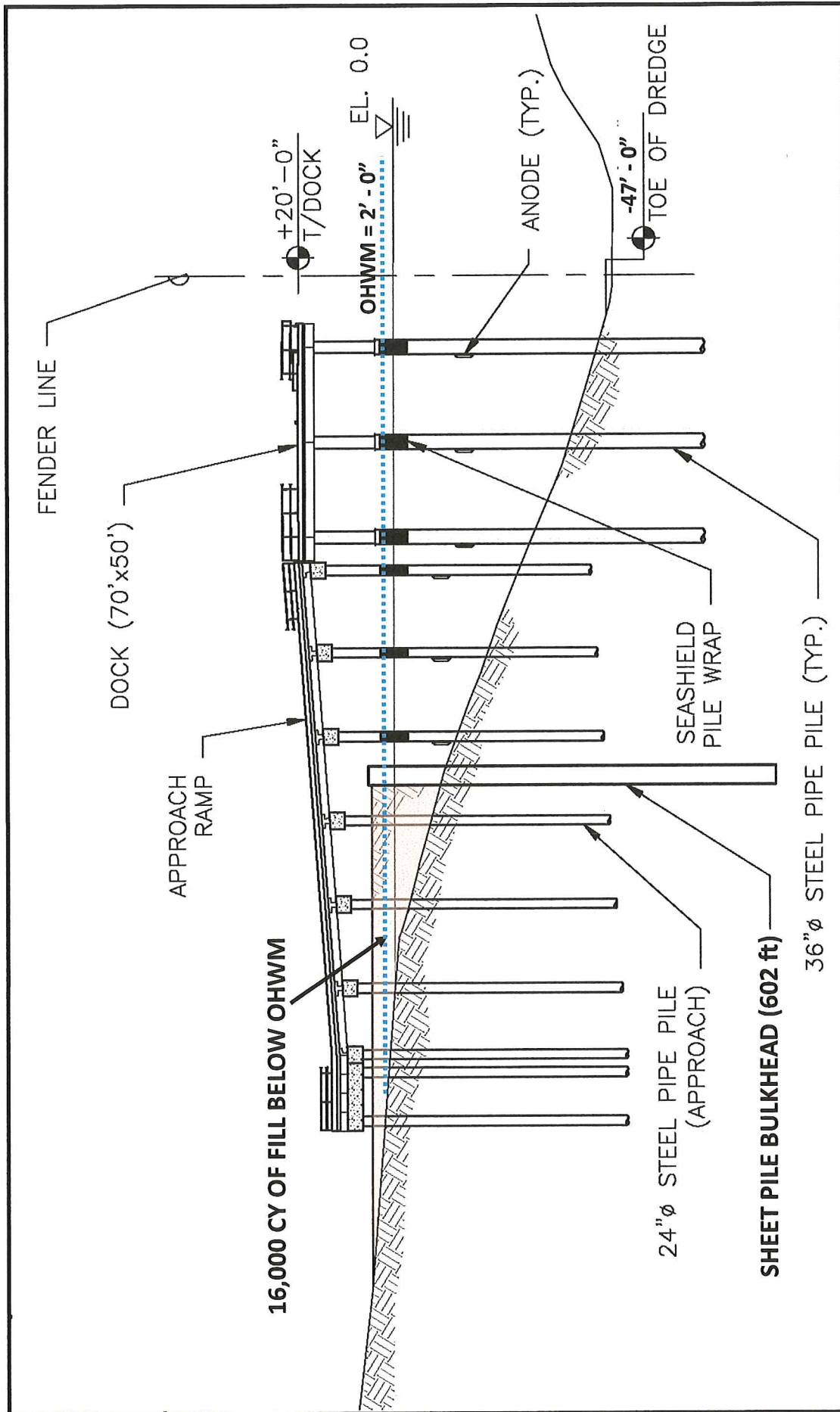
 Delineated Wetland_050620



Contour Site Plan with Proposed Bulkhead



Typical Dock Section



Dock Pile Plan

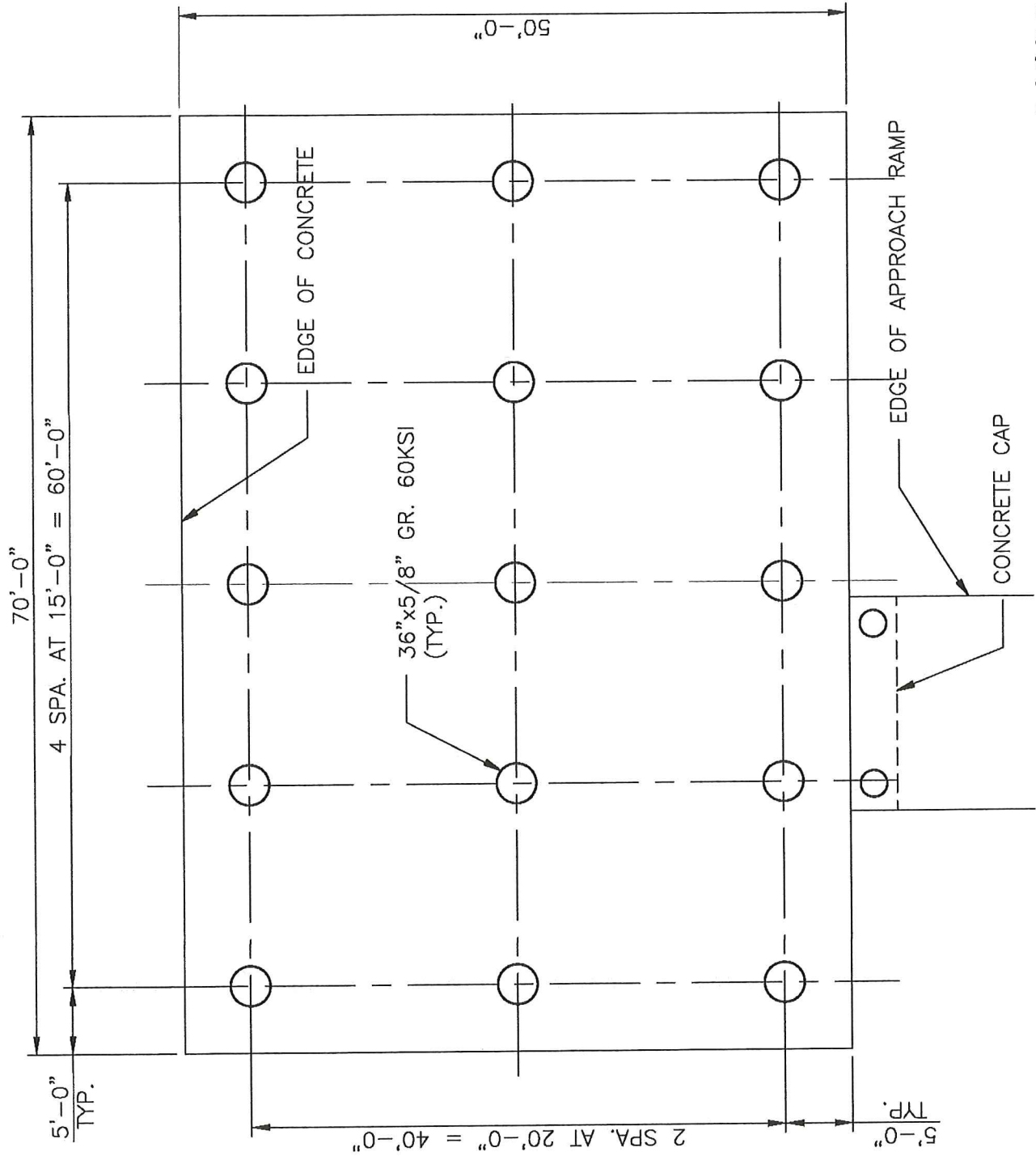
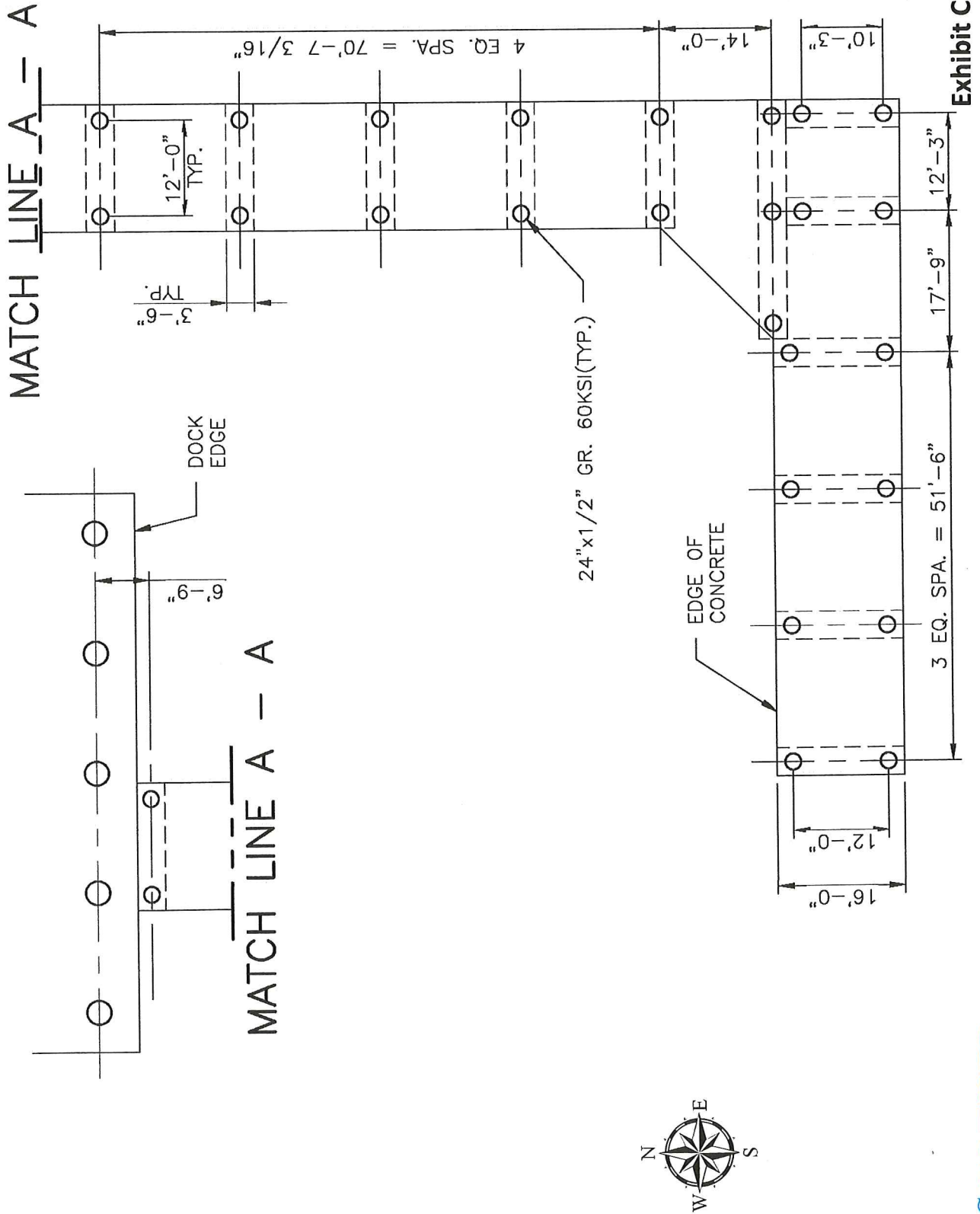


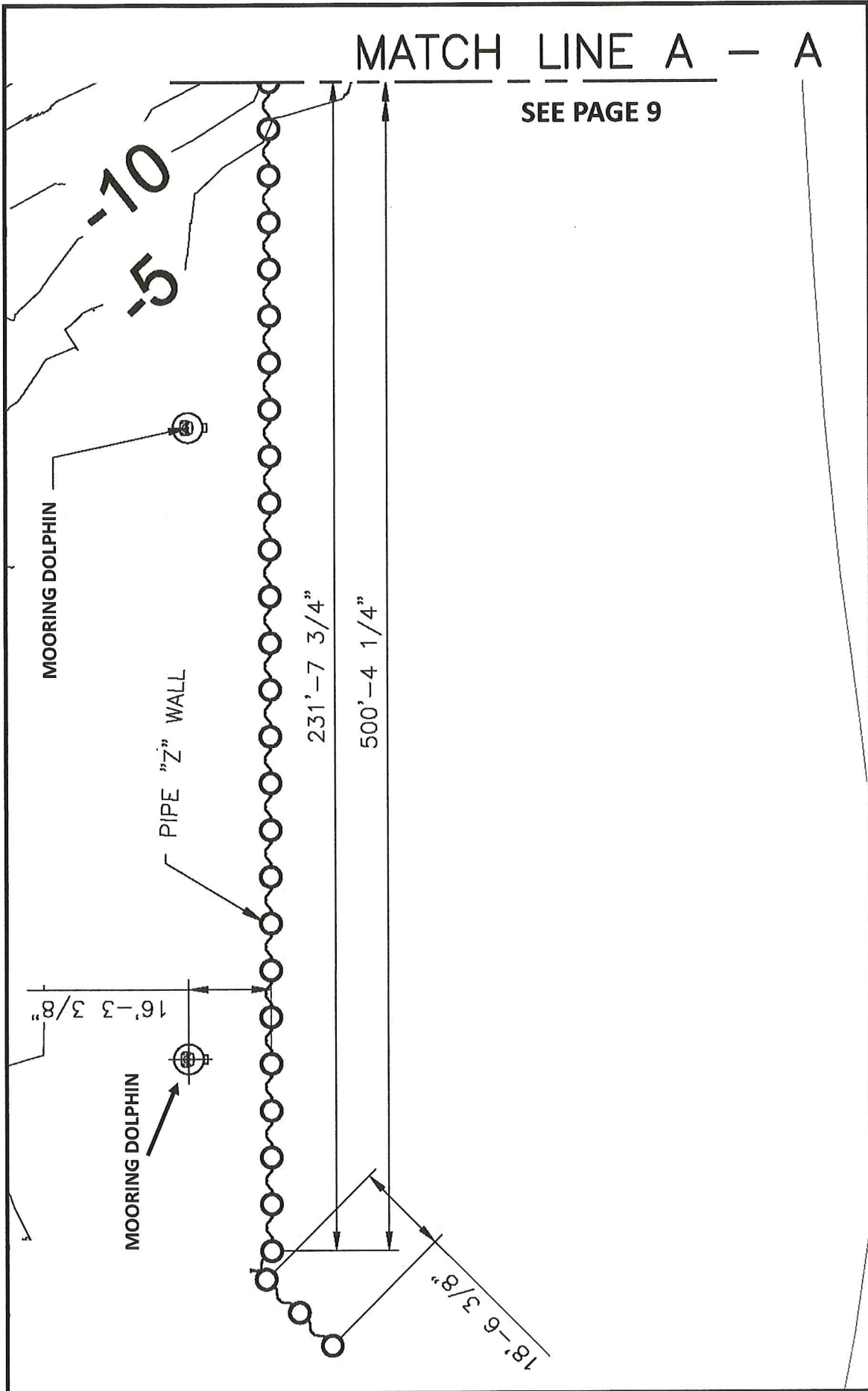
Exhibit C

Bulkhead Design Drawings

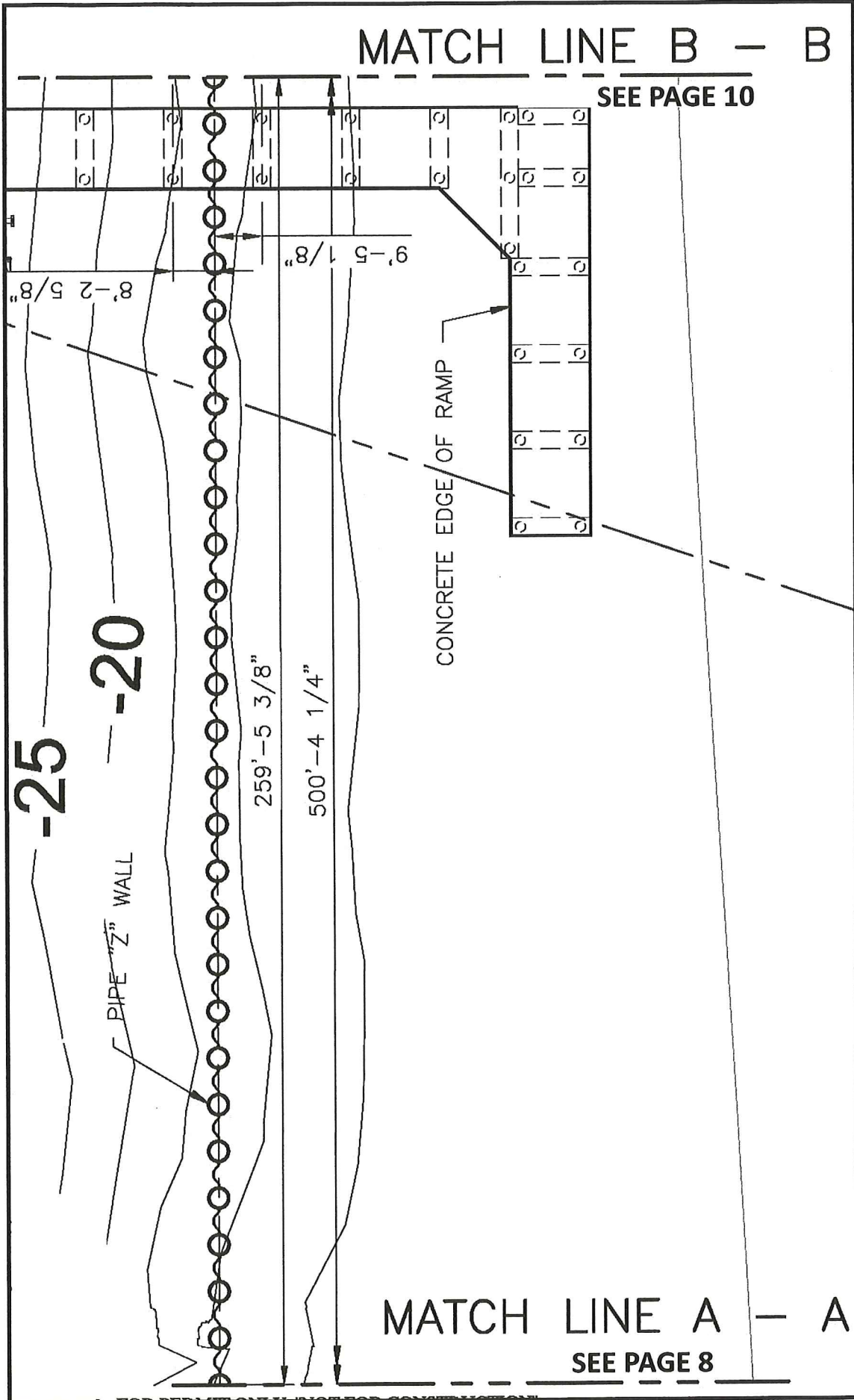
Approach Ramp Pile Plan



Bulkhead Plan—1 of 3



Bulkhead Plan—2 of 3



Bulkhead Plan—3 of 3

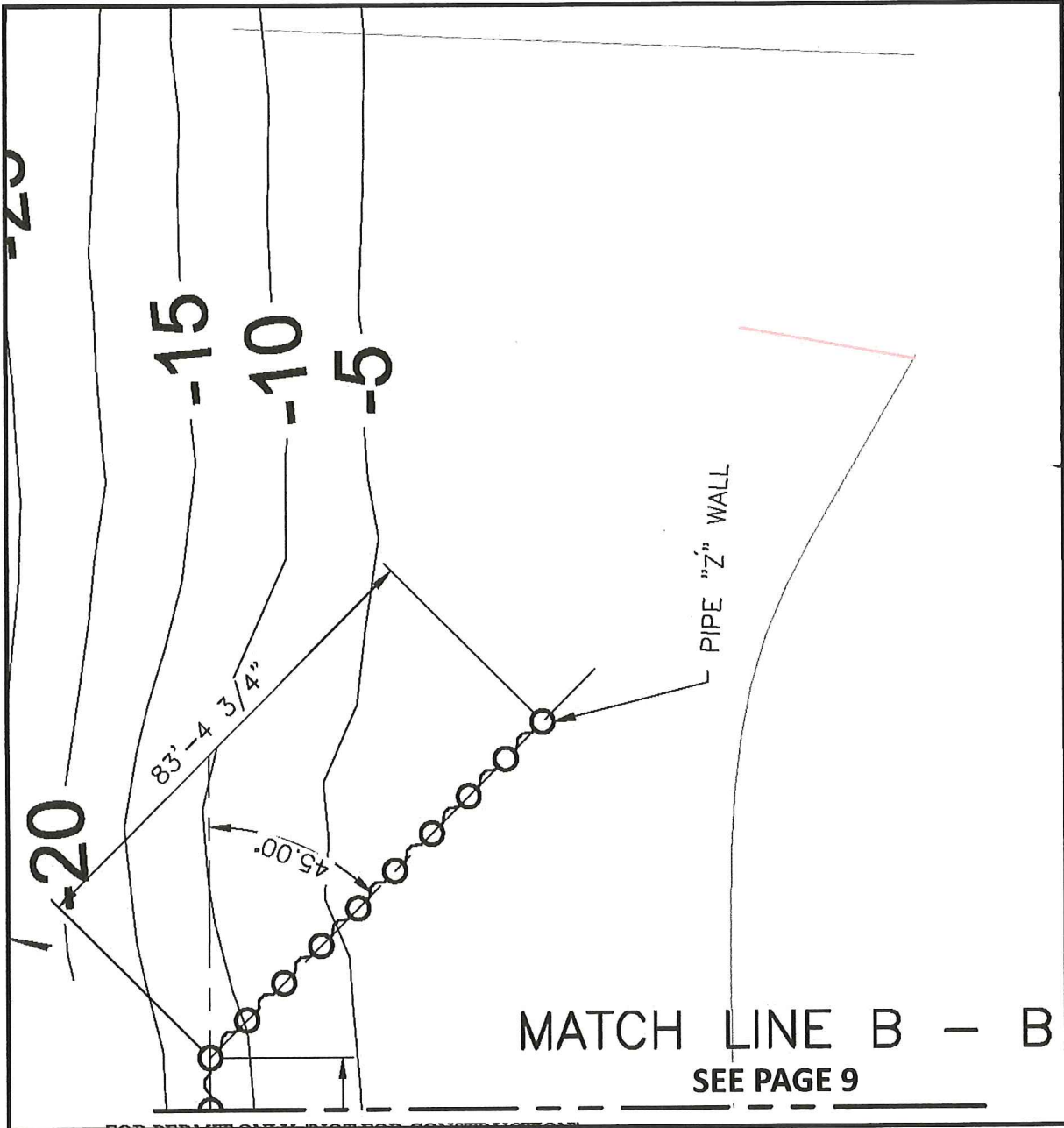


Exhibit C

Bulkhead Design Drawings

Typical Breasting Dolphin (Total of 4)

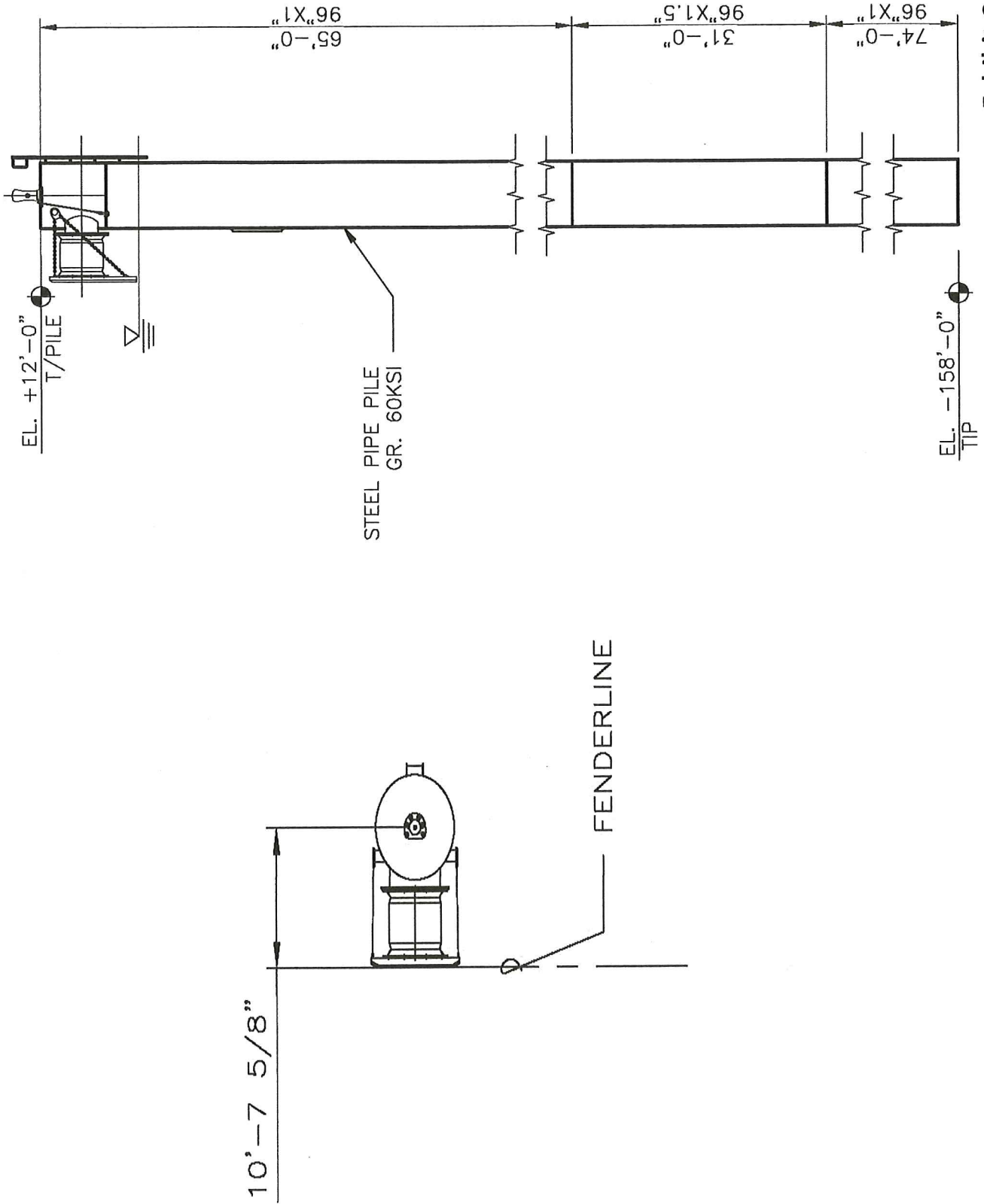


Exhibit C

Bulkhead Design Drawings

Typical Mooring Dolphin (Total of 6)

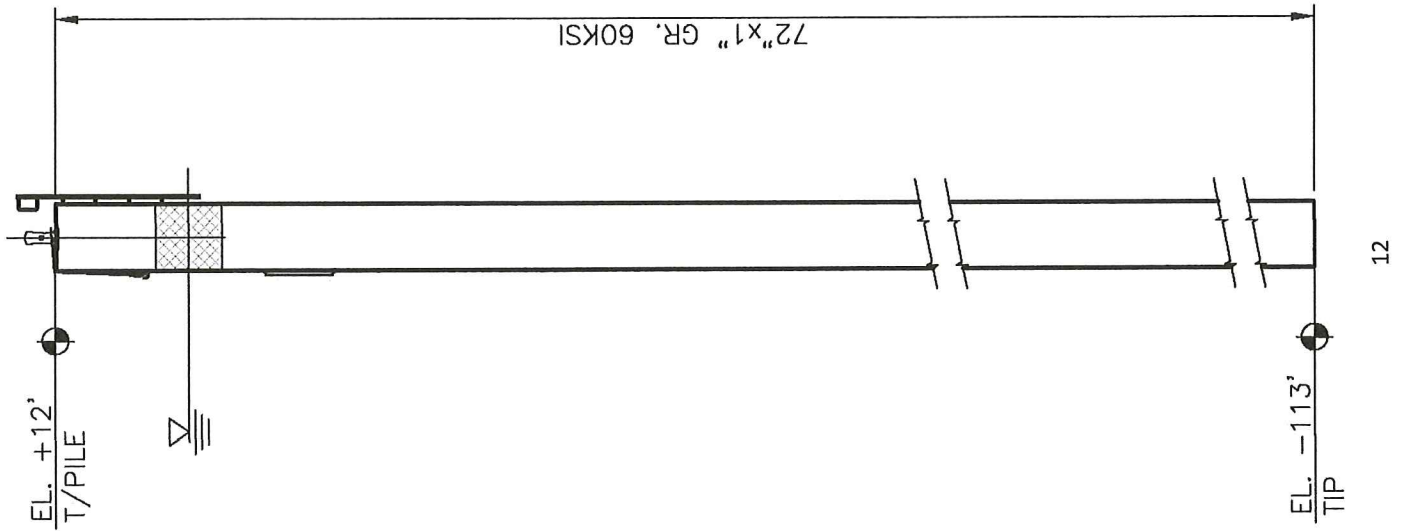


Exhibit C
Bulkhead Design Drawings