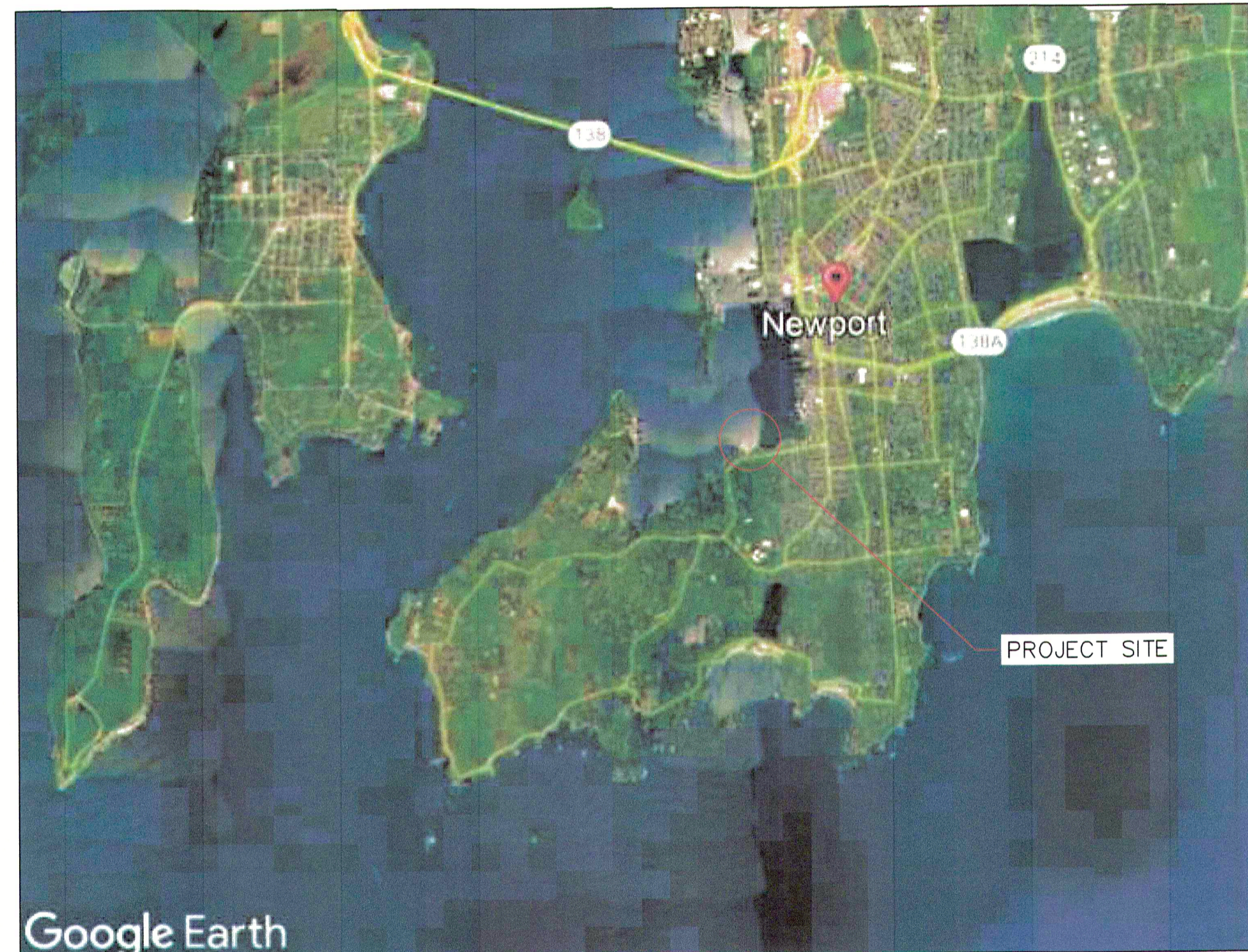


THE CITY OF NEWPORT
43 BROADWAY, NEWPORT, RI 02840

KING PARK DINGHY DOCK EXPANSION



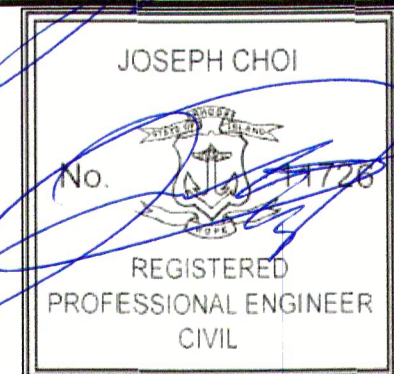
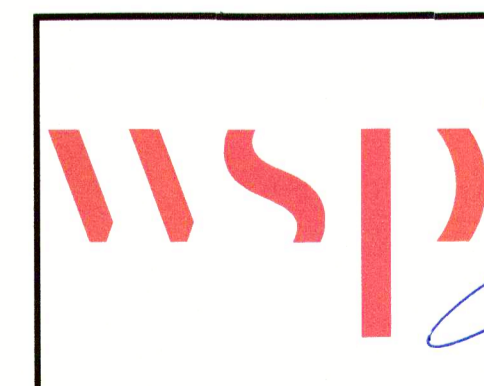
VICINITY MAP
SCALE : N.T.S.



LOCATION MAP
SCALE : 1:40



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*Dated 12/15/2022
1 of 8 sheets*

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GENERAL WATERFRONT CONSTRUCTION NOTES :

- THE NOTES BELOW ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS. SEE THE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.
- TOPOGRAPHIC AND BATHYMETRIC DATA WAS DEVELOPED FROM SURVEYS, COLLECTED BY WSP USA INC, COLLECTED IN DECEMBER 2021.
- THE HORIZONTAL DATUM SHOWN HEREON IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983.
- ALL ELEVATIONS ARE SHOWN IN FEET & ARE REFERENCED TO NAVD88 = 0.0'. SEE DATUM TABLE THIS SHEET.
- WATERFRONT CONSTRUCTION REFERS TO ALL CONSTRUCTION ASSOCIATED WITH THE FLOATING DOCK, AS WELL AS THOSE ITEMS DIRECTLY SUPPORTED THEREON.
- BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY SAFEGUARDS TO MAINTAIN AND PROTECT FROM DAMAGE ALL PARTS OF THE ADJACENT STRUCTURES DURING THE PROSECUTION OF THE WORK.
- DIMENSIONS TO ALL EXISTING STRUCTURES ARE APPROXIMATE. FIELD VERIFY ALL ELEVATIONS, COORDINATES, DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- SITE CONDITIONS MAY CHANGE DUE TO TIDES AND WEATHER. SITE INFORMATION CONTAINED HEREIN IS BASED ON THE HYDROGRAPHIC AND TOPOGRAPHIC SURVEY PERFORMED IN DECEMBER OF 2021.
- REMOVE ANY CONSTRUCTION OR DEMOLITION DEBRIS FALLING INTO THE WATER OR ENTERING TIDAL WETLANDS IMMEDIATELY.

DATUM TABLE :

- TIDAL INFORMATION IS PER NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) AVERAGES BASED ON 1983-2003 TIDAL EPOCH FOR STATION ID 8452660 - NEWPORT, NARRAGANSETT BAY RI, AND IS NOT GUARANTEED TO REPRESENT CONDITIONS WHICH MAY OCCUR DURING CONSTRUCTION. ACTUAL TIDES WILL VARY FROM THE LEVELS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ESTIMATIONS OF TIDES WHICH MAY OCCUR DURING CONSTRUCTION. VARIATION OF TIDAL LEVELS FROM THOSE INDICATED OR THE CONTRACTOR'S ESTIMATION OF THE TIDE LEVELS WILL NOT BE A BASIS FOR CLAIM FOR ADDITIONAL COMPENSATION OR DELAY OF THE WORK.

ITEM	ELEVATION (FEET)
HIGHEST RECORDED TIDE (EXTREME HIGH):	+11.27
MEAN HIGHER HIGH WATER (MHHW):	+1.81
MEAN HIGH WATER (MHW):	+1.56
NORTH AMERICA VERTICAL DATUM (NAVD88):	+0.00
MEAN SEA LEVEL (MSL):	-0.31
MEAN TIDE LEVEL (MTL):	-0.17
MEAN LOW WATER (MLW):	-1.90
MEAN LOWER LOW WATER (MLLW):	-2.04
LOWEST RECORDED TIDE (EXTREME LOW):	-5.94

WATERFRONT DESIGN CRITERIA:

- GOVERNING DESIGN CODES:
 - RHODE ISLAND BUILDING CODE (2021)
 - ICC 2018 INTERNATIONAL BUILDING CODE (2018)
 - ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (2016)
 - NDS 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (2016)
 - ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (2014)
- TIMBER FLOATING DOCK LIVE LOAD: FROM MANUFACTURER
- WIND LOAD:
 - WIND PRESSURE CALCULATION SHALL BE CONSISTENT WITH A 100 YEAR EVENT. 108MPH BASED ON 3 SECOND GUST, RISK CATEGORY I, EXPOSURE CATEGORY D.
- FLOOD LOAD
 - 100 YEAR STILL WATER LEVELS AND WAVE HEIGHTS TAKEN FROM USACE NORTH ATLANTIC , ATLANTIC COAST COMPREHENSIVE STUDY 2015.
 - WAVE LOADS
 - FLOATING DOCK STRUCTURE WAVE LOADS CALCULATED AT 100 YEAR EVENT.
 - Hs = 4.0 FT
 - Tp = 5.6 SECONDS.
- CURRENT = 2.36 FT/S

STRUCTURAL STEEL NOTES:

- ALL STEEL AND MISCELLANEOUS METALS INCLUDING BOLTS, WASHERS, NUTS, SLEEVES, CHANNELS, PLATES, THREADED BAR, INSERTS, WIRE ROPE, ETC. SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123/A153 AS APPLICABLE UNLESS OTHERWISE NOTED.
- ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36.
- STAINLESS STEEL SHALL BE ASTM A240 TYPE 316L.
- GALVANIZED REPAIR: CLEAN FIELD WELDS, BOLTED CONNECTIONS, ABRADED AREAS AND ANY OTHER AREA WHERE THE GALVANIC COATING HAS BEEN DAMAGED AND REPAIR IN ACCORDANCE WITH ASTM A780, ZINC-SOLDER METHODS.

CAST-IN-PLACE CONCRETE:

- ALL CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301-20 SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 5,000 PSI UNO.
- ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
- ALL NEW REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- ALL EMBEDDED ITEMS SHALL BE IN ACCORDANCE WITH ACI 117-10 SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY. ALL EMBEDDED STEEL, NOT COMPLETELY ENCASED IN CONCRETE IN THE FINAL WORK SHALL BE EITHER STAINLESS STEEL OR HOT DIP GALVANIZED, UNO.
- THE MINIMUM COVER OVER REINFORCING STEEL SHALL BE 3 INCHES UNO.
- ALL REINFORCING TENSION LAP SPLICES SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318, CHAPTER 25.
- DO NOT LOCATE SPLICES AT AREAS OF HIGH STRESS. STAGGER SPLICE LOCATIONS 24" MINIMUM, WHERE PRACTICAL.
- PROVIDE 3/4", 45° CHAMFERS ON ALL EXPOSED CORNERS, UNO.
- ALL BENDING OF STEEL REINFORCEMENT SHALL BE DONE IN THE SHOP.

TIMBER NOTES:

- ALL STRUCTURAL LUMBER AND TIMBER SHALL BE SOUTHERN PINE GRADE NO. 2 OR BETTER UNO.
- ALL TIMBER SHALL BE TREATED WITH CHROMATED COPPER ARSENATE (CCA) CONFORMING TO AWPA-U1 STANDARD USE CATEGORY 4B/AC WITH A RETENTION LEVEL OF 2.50 PCF
- ALL HOLES FOR BOLT HEADS SHALL BE COUNTERBORED WHERE INDICATED.
- ALL HOLES SHALL BE DRILLED FOR TIGHT FIT, U.O.N
- FIELD TREAT CUTS, BEVELS, NOTCHES, DAPS, RE-FACING AND ABRASIONS MADE IN THE FIELD IN TREATED TIMBERS (FURNISHED AS PART OF THE WORK OR EXISTING TIMBERS TO REMAIN) IN ACCORDANCE WITH AWPA M4, MSDS AND CIS. WOOD PRESERVATIVES ARE RESTRICTED - USE PESTICIDES AND SHALL BE APPLIED ACCORDING TO AWPA STANDARDS. TRIM CUTS AND ABRASIONS BEFORE FIELD TREATMENT. PAINT DEPRESSIONS OR OPENINGS AROUND BOLT HOLES, JOINTS, OR GAPS INCLUDING RECESSES FORMED BY COUNTERBORING, WITH PRESERVATIVE TREATMENT USED FOR TIMBER.
- ALL BOLTS TO BE 1" DIAMETER UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE FULL SIZE AND HAVE CUT THREADS. ALL BOLTS SHALL HAVE WASHERS (NEW YORK DOCK DEPARTMENT TYPE).
- TIMBER SIZES SHOWN ON DRAWINGS ARE NOMINAL IN INCHES.

PILE DRIVING NOTES:

- OBSTRUCTIONS WILL BE ENCOUNTERED DURING INSTALLATION OF TIMBER PILES INCLUDING BUT NOT LIMITED TO BOULDERS, COBBLES, EXISTING SLOPE RIPRAP, CONCRETE PAVERS, AND/OR OTHER DEBRIS. THE CONTRACTOR SHALL PRE-EXCAVATE TO REMOVE ALL EXISTING OBSTRUCTIONS PRIOR TO INSTALLATION OF PILES.

INDEX OF DRAWINGS:

G-1	TITLE SHEET
G-2	GENERAL NOTES AND ABBREVIATIONS
S-1	EXISTING CONDITIONS AND FEMA FLOOD PLAIN PLAN
S-2	EXISTING CONDITIONS SECTIONS AND DETAILS
S-3	SITE PLAN - PROPOSED DINGHY DOCK
S-4	TIMBER FRAMED FLOATING DOCK SECTIONS AND DETAILS
S-5	GANGWAY - TYPICAL SECTIONS AND DETAILS
S-6	TIMBER PILES - SECTIONS AND DETAILS

ABBREVIATIONS:

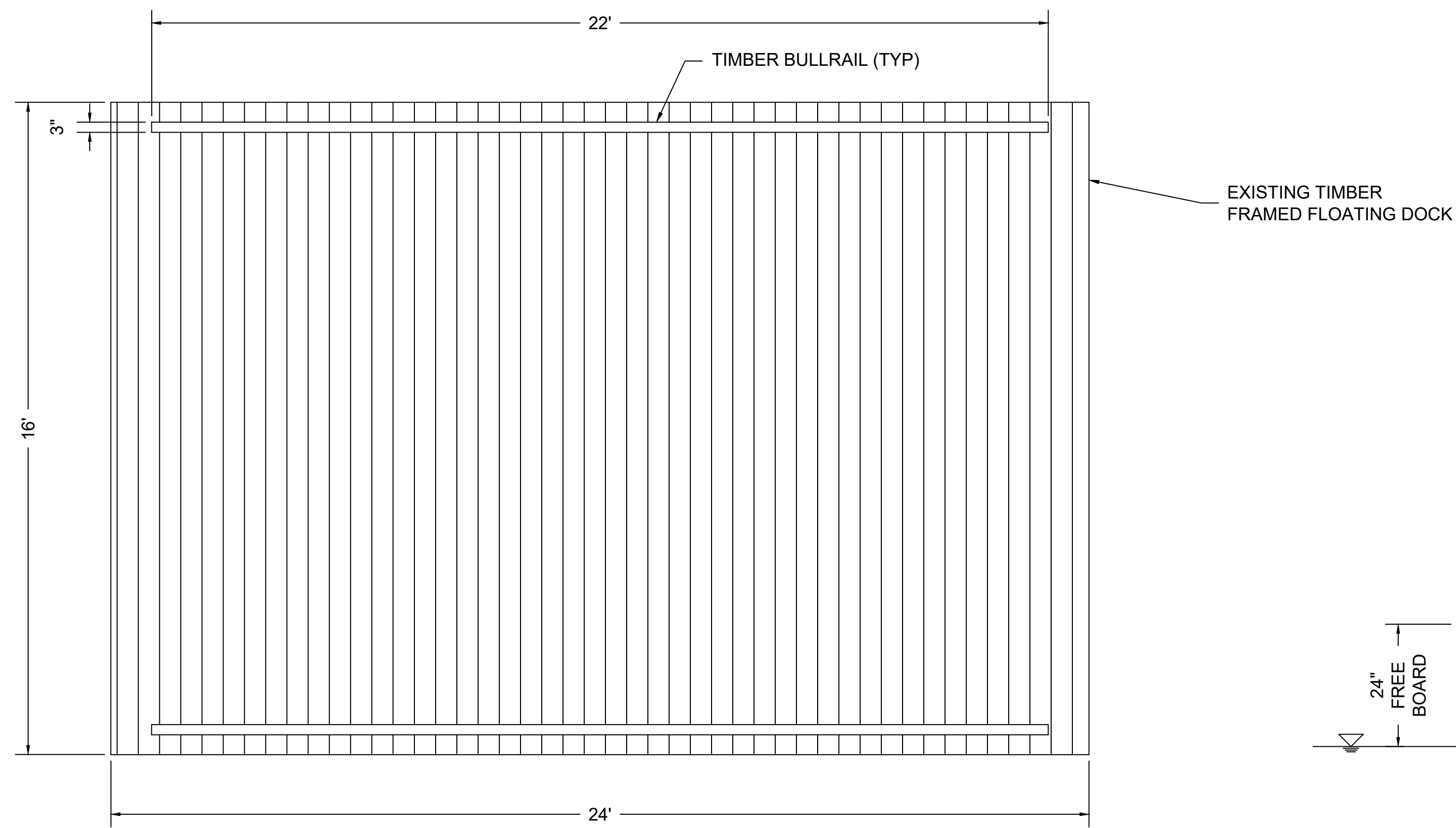
ACI	AMERICAN CONCRETE INSTITUTE
APPROX.	APPROXIMATELY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BOT	BOTTOM
C.I.P.	CAST-IN-PLACE
CLR.	CLEAR
CONC.	CONCRETE
COV.	COVER
DIA.	DIAMETER
DWG.	DRAWING
E	EASTING
EL.	ELEVATION
EMBED.	EMBEDMENT
EST.	ESTIMATED
EQ.	EQUAL
FT	FEET
GALV.	GALVANIZED
HOWL	HIGHEST OBSERVED WATER LEVEL
IN.	INCHES
KSI	KIPS PER SQUARE INCH
LAT.	LATITUDE
LBS	POUNDS
LONG.	LONGITUDE
LOWL	LOWEST OBSERVED WATER LEVEL
MAX.	MAXIMUM
MHHW	MEAN HIGH HIGH WATER
MIN.	MINIMUM
MLLW	MEAN LOW LOW WATER
MOD	MODIFIED
MPH	MILES PER HOUR
N	NORTHING
N/A	NOT APPLICABLE
NAVD88	NORTH AMERICAN VERTICAL DATUM 1988
NO.	NUMBER
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
N.T.S.	NOT TO SCALE
OBJ.	OBJECT
O.C.	ON CENTER
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REF.	REFERENCE
SPA.	SPACING
S.S.	STAINLESS STEEL
T/	TOP OF
TYP.	TYPICAL
U.A.C.E.	UNITED STATES ARMY CORPS OF ENGINEERS
UTIL	UTILITY
W/	WITH
W.P.	WORK POINT
Ø	DIAMETER
CL	CENTERLINE
#	NUMBER

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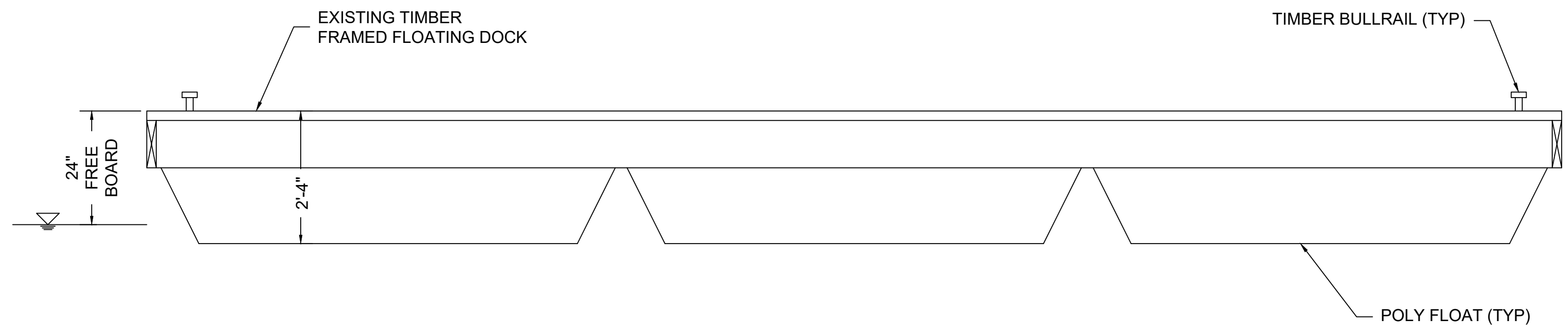


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PLAN – TYPICAL EXISTING FLOATING DOCK UNIT
SCALE : 1" = 30'-0"



SECTION – TYPICAL EXISTING FLOATING DOCK UNIT
SCALE : 1" = 20'-0"

NOTE:
CONTRACTOR TO OBTAIN WRITTEN
AUTHORIZATION TO VERIFY NEW FLOAT IS
CONSISTENT WITH EXISTING DOCK FREEBOARD.

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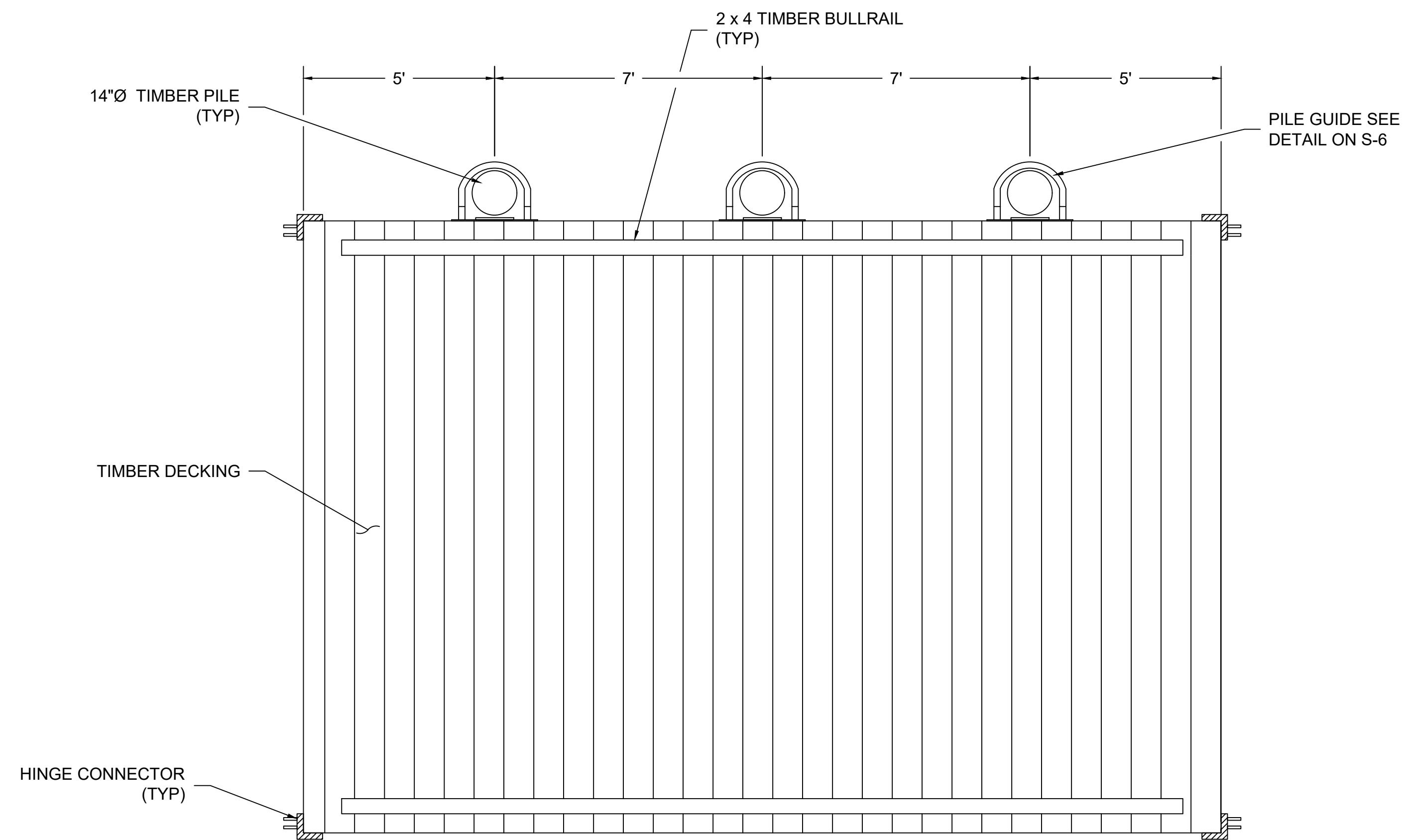


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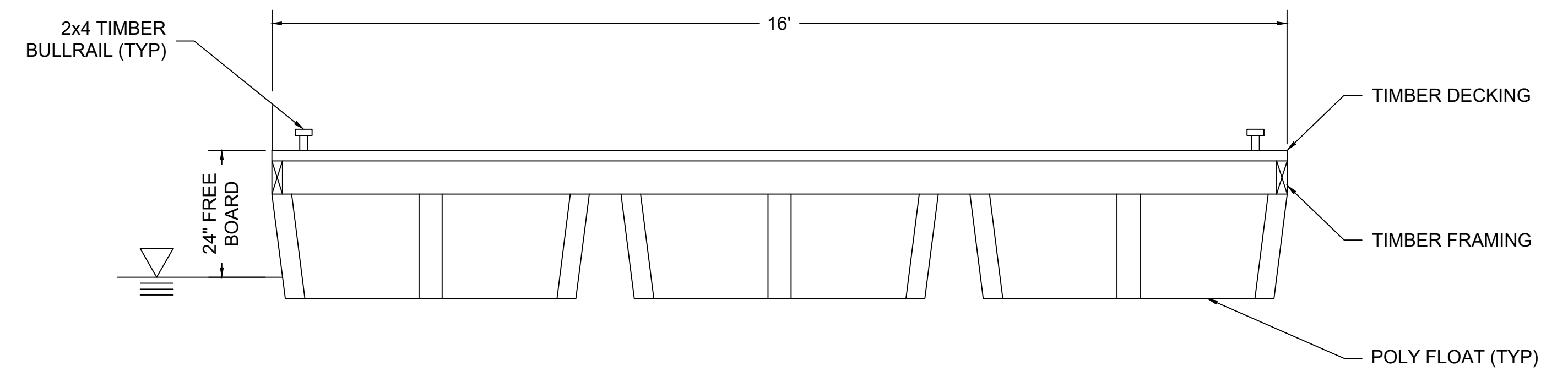
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NOTES:

1. ALL STEEL HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123/A153 AS APPLICABLE.
2. DOCK CONNECTORS SHALL BE HEAVY DUTY GALVANIZED 3 TAB FEMALE AND 2 TAB MALE CONNECTORS WITH HEAVY DUTY BACKUP PLATES.
3. FLOATING DOCKS SHALL BE FURNISHED BY THE MARINE CONTRACTOR.
4. CONTRACTOR TO OBTAIN WRITTEN AUTHORIZATION TO VERIFY NEW FLOAT IS CONSISTENT WITH EXISTING FLOATING DOCK FREE BOARD.
5. TIMBER PILES SHALL BE GREENHEART SPECIES U.N.O.



PLAN – NEW 16' x 24' FLOATING DOCK SECTION
SCALE : 1" = 30'-0"



SECTION – NEW 16' x 24' FLOATING DOCK SECTION
SCALE : 1" = 20'-0"

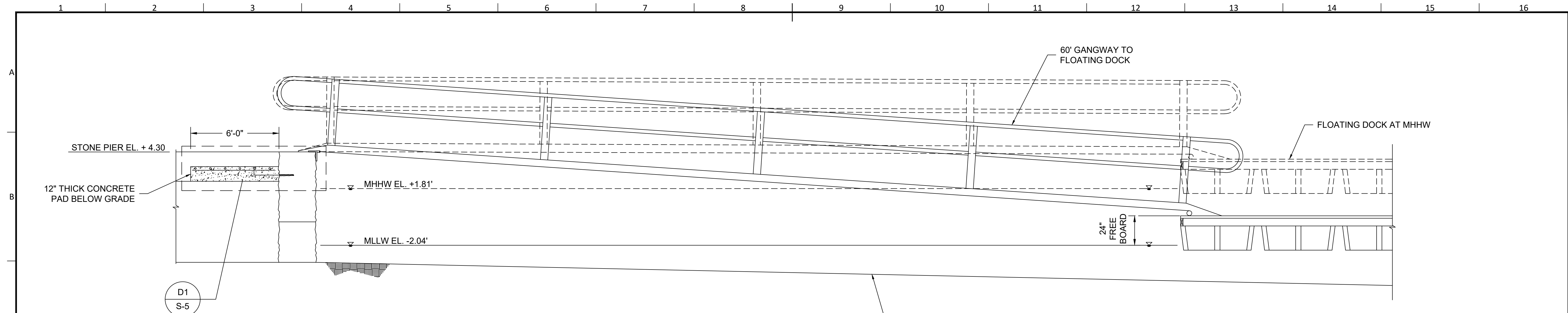
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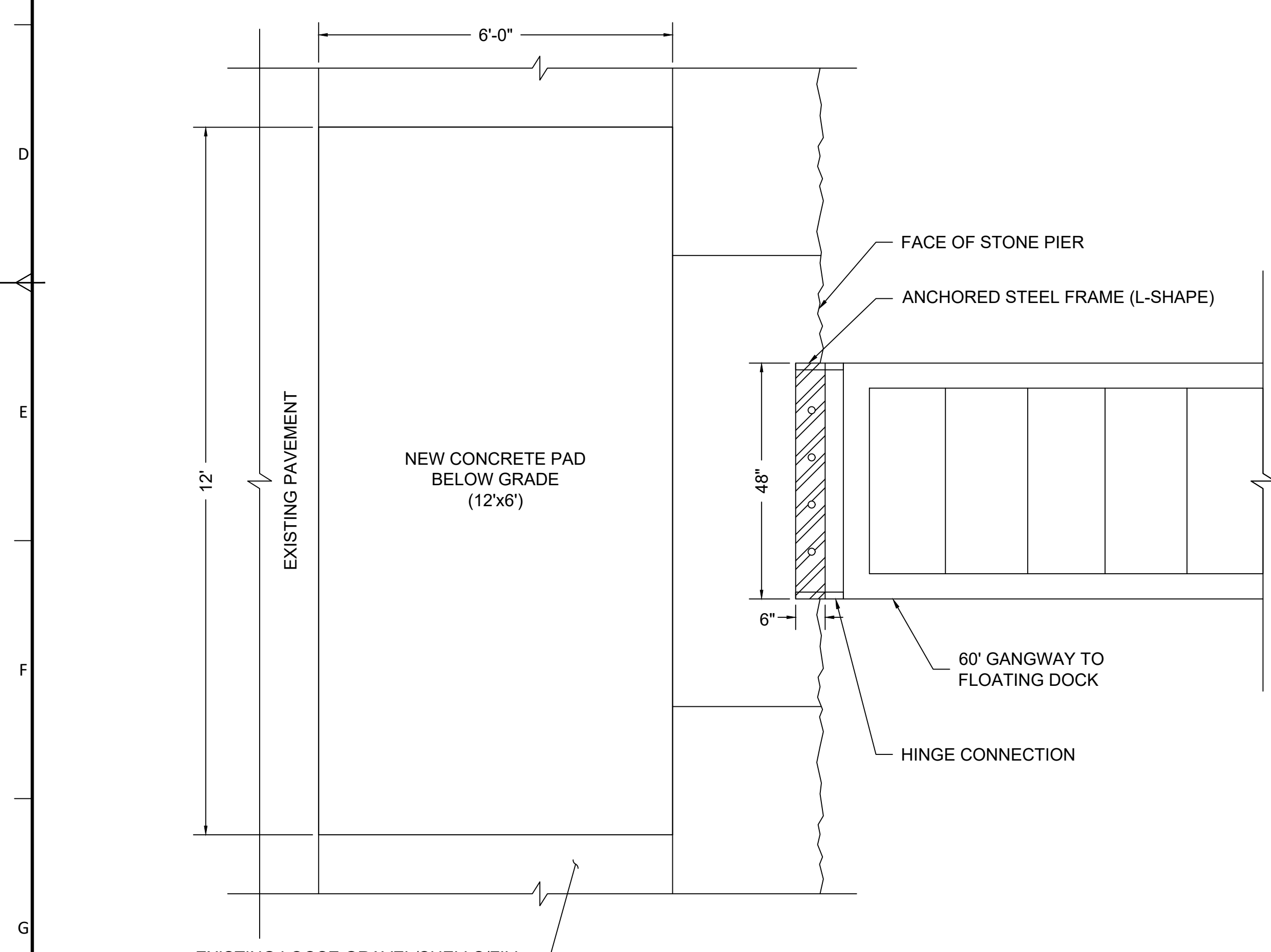
JOSEPH CHOI
No. 11726
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

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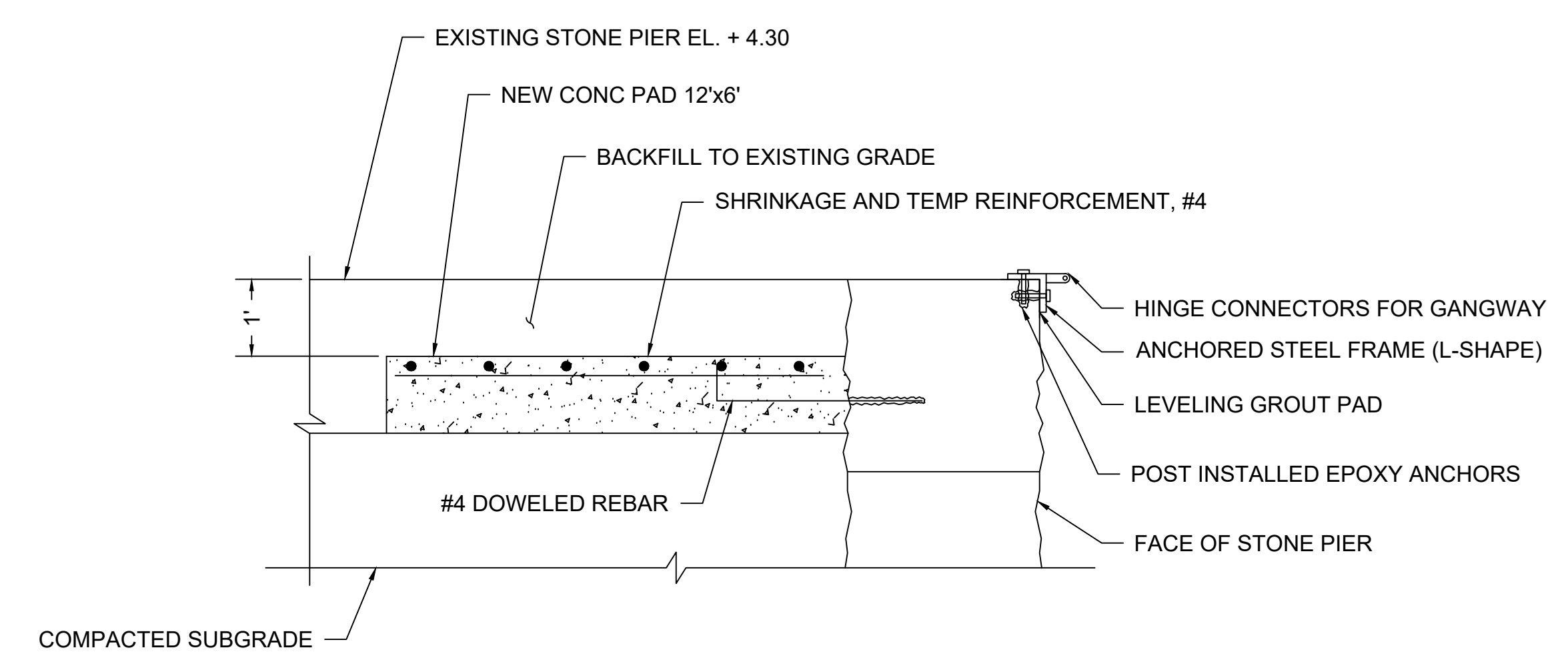
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MANAGEMENT BOARD



ELEVATION – GANGWAY
SCALE : 1" = 4'-0"



PLAN – GANGWAY CONNECTION
SCALE : 1" = 20'-0"



DETAIL – GANGWAY CONNECTION
SCALE : 1" = 20'-0"

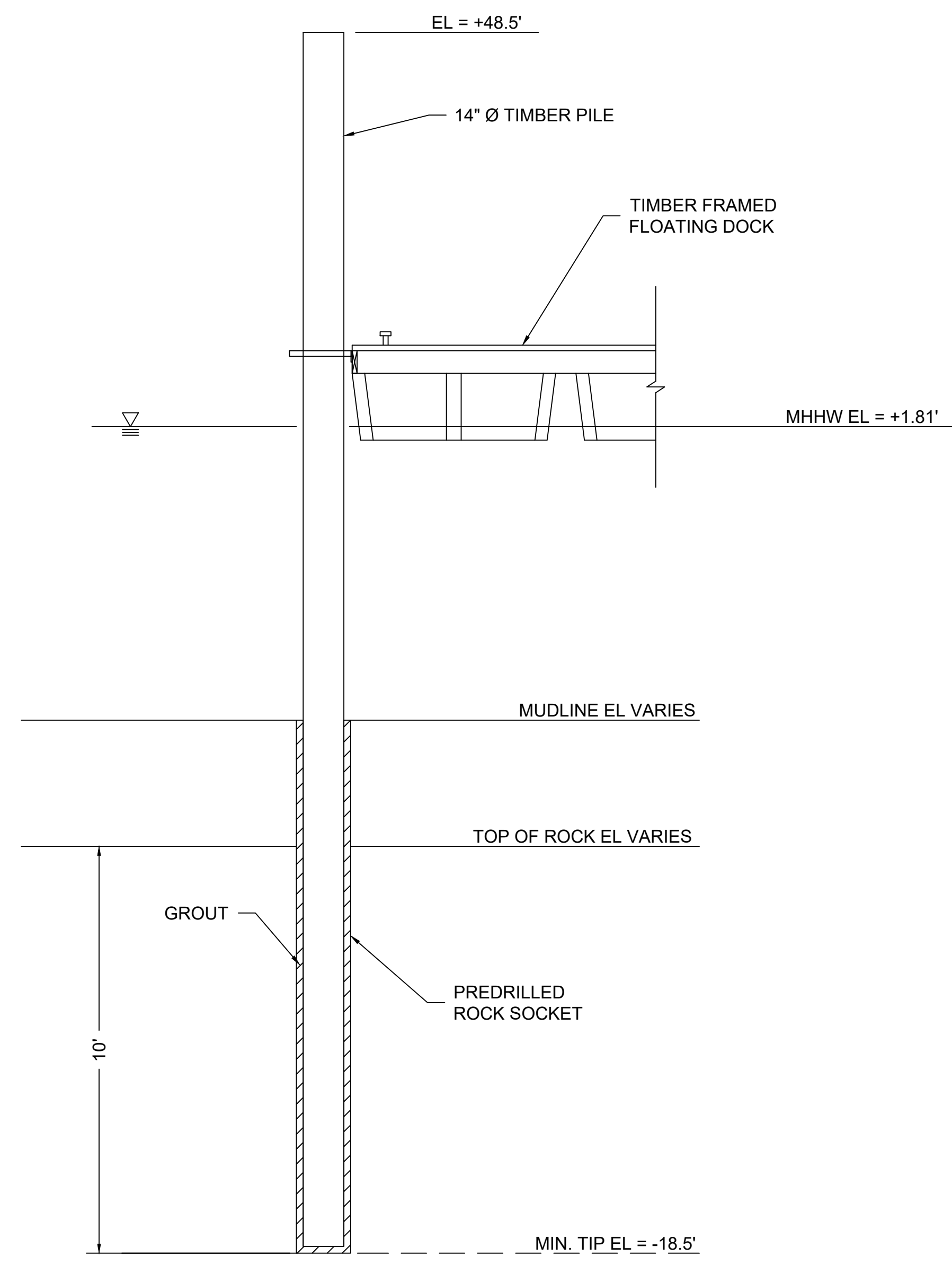
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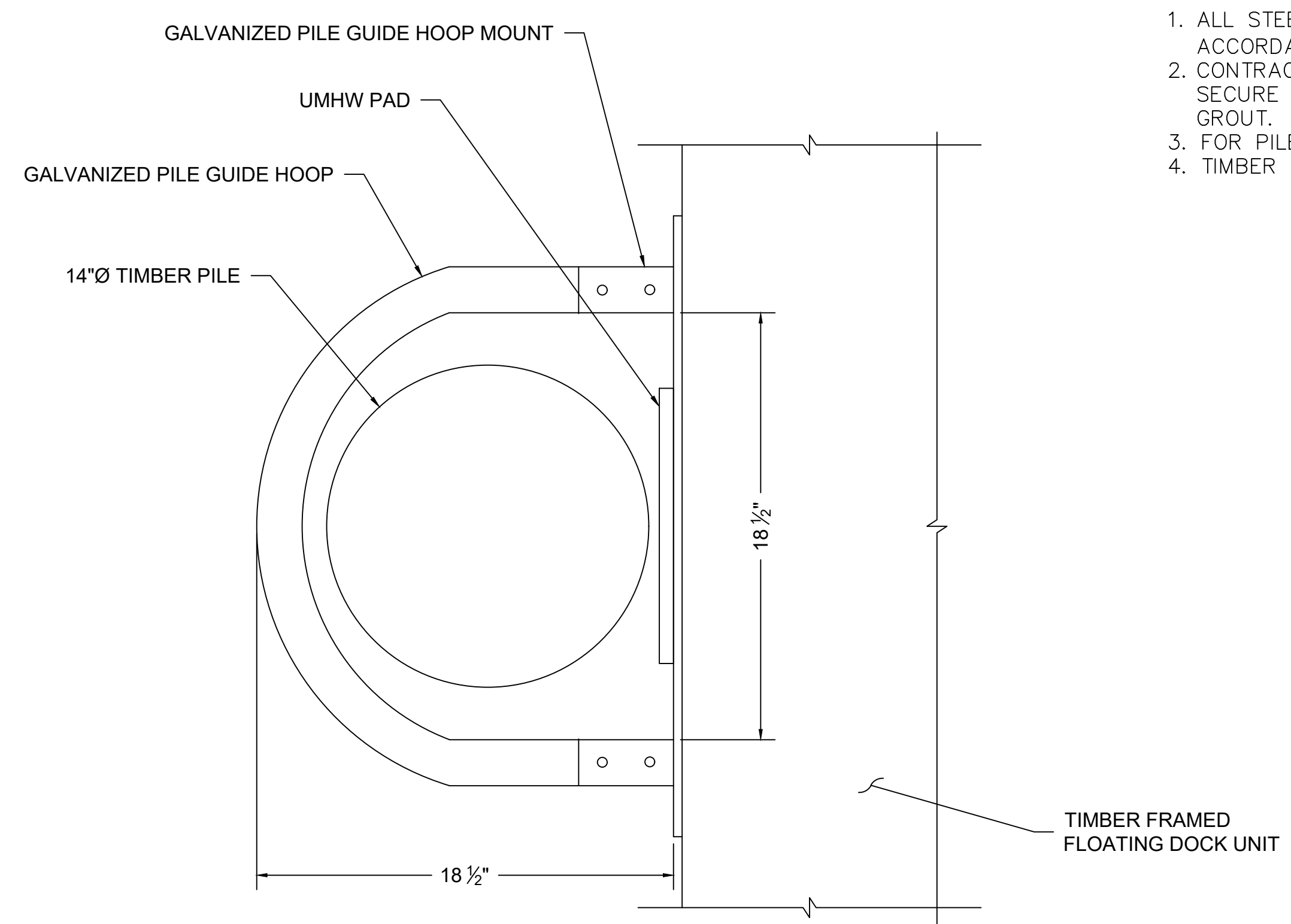
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ELEVATION – TYPICAL PILE EMBEDMENT
SCALE : 1" = 30'-0"



DETAIL – TIMBER PILE GUIDE
SCALE : 1" = 5'-0"

NOTES:

1. ALL STEEL HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123/A153 AS APPLICABLE.
2. CONTRACTOR TO TAKE CARE DURING DRILLING OPERATIONS TO SECURE TIMBER PILE IN PRE DRILLED ROCK SOCKET WITH GROUT.
3. FOR PILE DRIVING NOTES, SEE DRAWING G-2.
4. TIMBER PILES SHALL BE GREENHEART SPECIES U.N.O.

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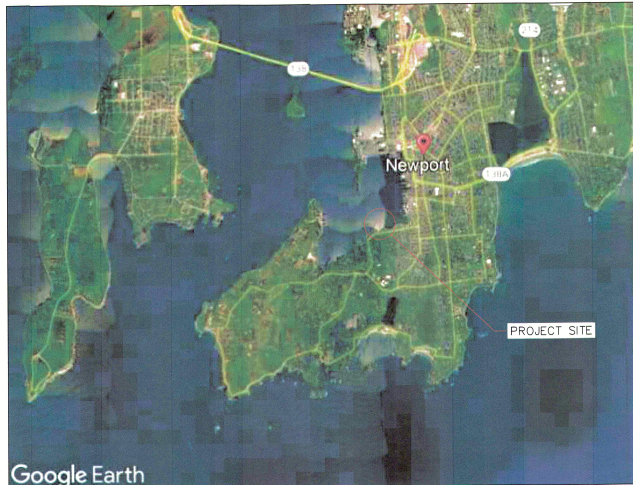
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KING PARK DINGHY DOCK EXPANSION



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LOCATION MAP
SCALE : 1:40

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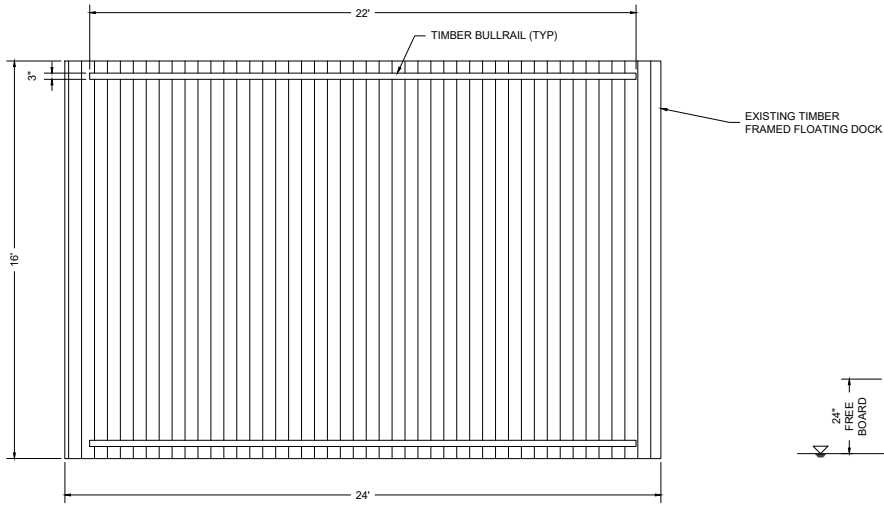
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JOSEPH CHOI
No. [Signature]
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

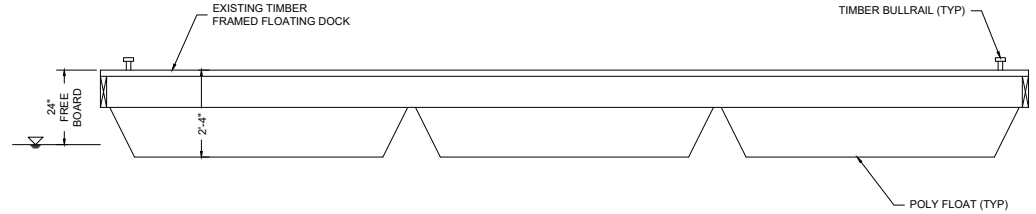
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PLAN – TYPICAL EXISTING FLOATING DOCK UNIT
 SCALE : 1" = 30'-0"



SECTION – TYPICAL EXISTING FLOATING DOCK UNIT
 SCALE : 1" = 20'-0"

NOTE:
 CONTRACTOR TO OBTAIN WRITTEN
 AUTHORIZATION TO VERIFY NEW FLOAT IS
 CONSISTENT WITH EXISTING DOCK FREEBOARD.

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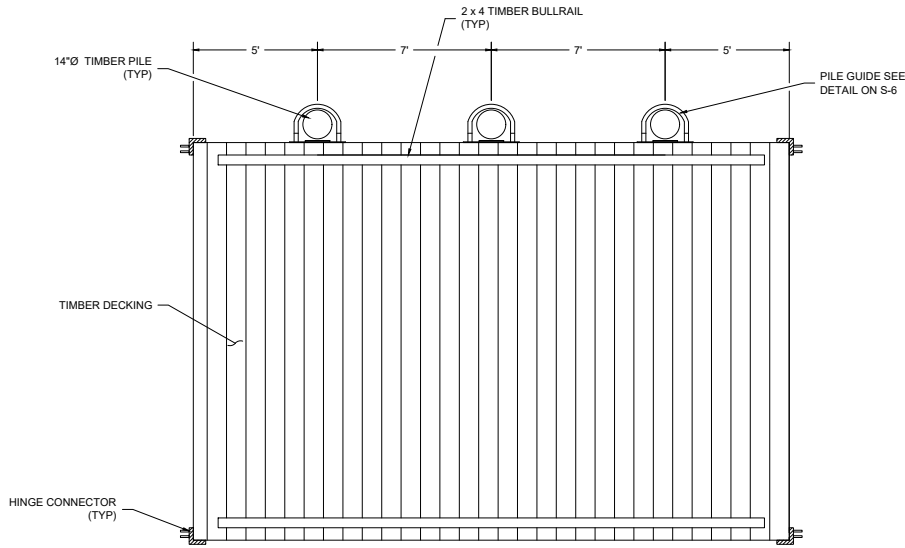


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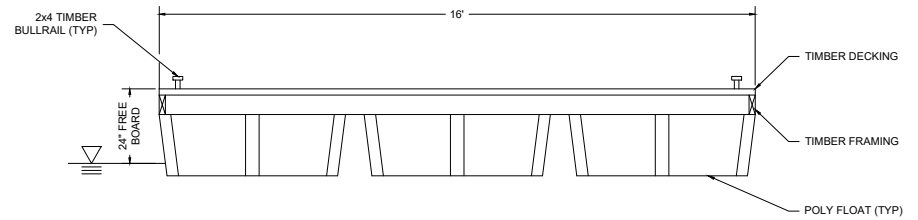
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NOTES:

1. ALL STEEL HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123/A153 AS APPLICABLE.
2. DOCK CONNECTORS SHALL BE HEAVY DUTY GALVANIZED 3 TAB FEMALE AND 2 TAB MALE CONNECTORS WITH HEAVY DUTY BACKUP PLATES.
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5. TIMBER PILES SHALL BE GREENHEART SPECIES U.N.O.



PLAN — NEW 16' x 24' FLOATING DOCK SECTION
SCALE : 1" = 30'-0"



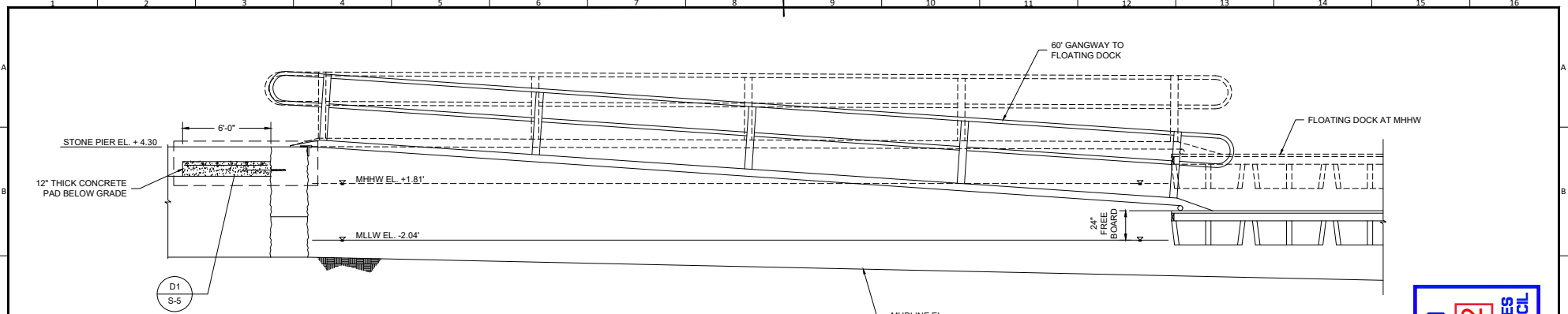
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SCALE : 1" = 20'-0"

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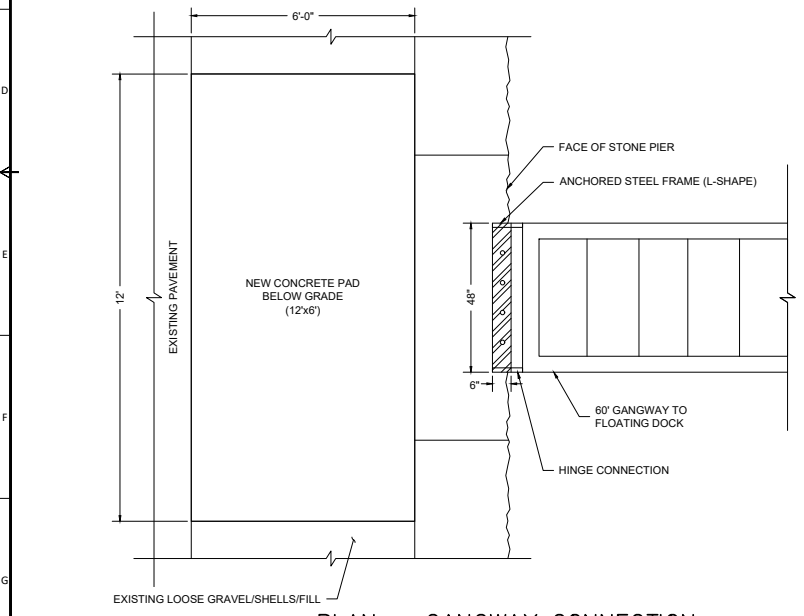


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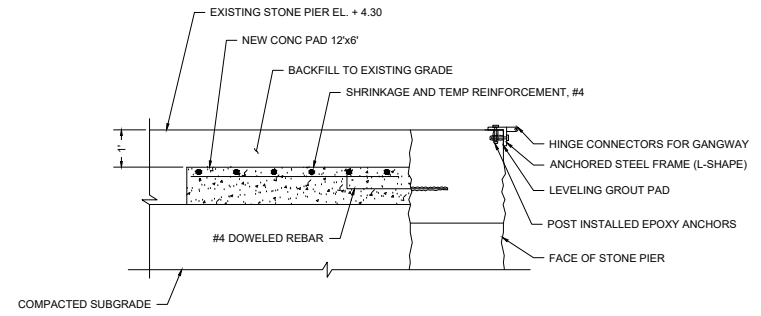
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ELEVATION – GANGWAY
SCALE : 1" = 4'-0"



PLAN – GANGWAY CONNECTION
SCALE : 1" = 20'-0"



DETAIL – GANGWAY CONNECTION
SCALE : 1" = 20'-0"

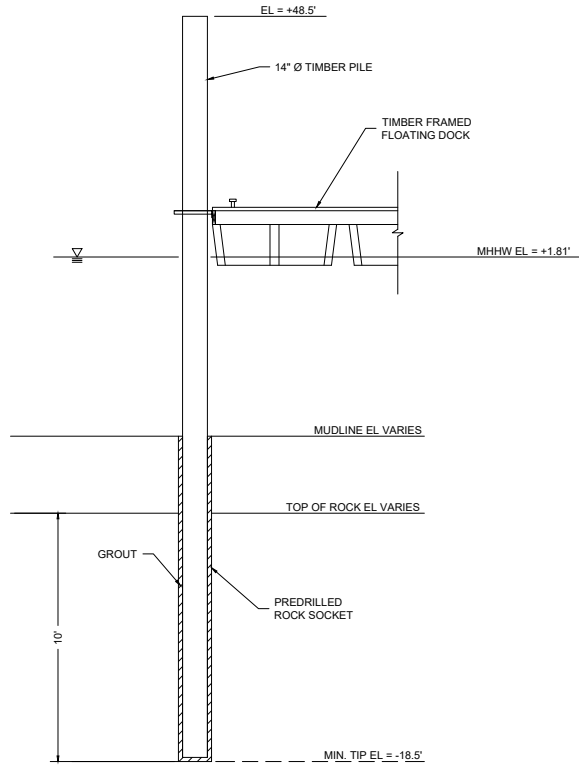
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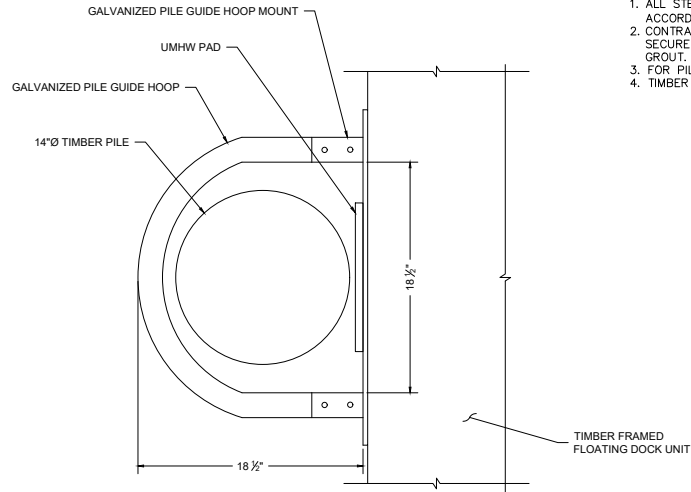


JOSEPH CHOI
No. 11726
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

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ELEVATION – TYPICAL PILE EMBEDMENT
SCALE : 1" = 30'-0"



DETAIL – TIMBER PILE GUIDE
SCALE : 1" = 5'-0"

NOTES:

1. ALL STEEL HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123/A153 AS APPLICABLE.
2. CONTRACTOR TO TAKE CARE DURING DRILLING OPERATIONS TO SECURE TIMBER PILE IN PRE DRILLED ROCK SOCKET WITH GROUT.
3. FOR PILE DRIVING NOTES, SEE DRAWING G-2.
4. TIMBER PILES SHALL BE GREENHEART SPECIES U.N.O.



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