

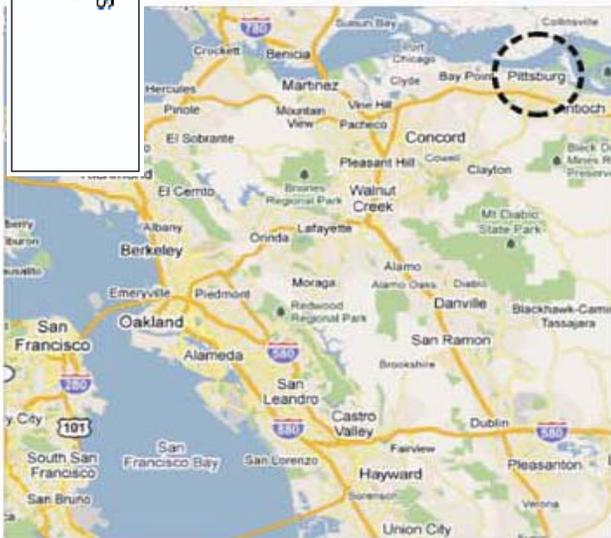


WesPac Energy - Pittsburg LLC MARINE TERMINAL DREDGING


 US Army Corps
 of Engineers
 San Francisco District
 Regulatory Division

2011-00246 S
 Public Notice
 Figure 1

VICINITY MAP



PROJECT LOCATION



DRAWING INDEX

SHEET	SHEET TITLE
C1	TITLE SHEET, VICINITY MAP, PROJECT LOCATION, DRAWING INDEX
C1	SITE PLAN
C2	TYPICAL SECTION

NOTES:

1. HYDROGRAPHIC SURVEY PERFORMED BY PLS LAND SURVEYORS, APRIL 2011.
2. ALL ELEVATIONS REFERENCE MLLW
3. DESIGN DREDGE QUANTITY = 140,000 YD³
4. 2 FT OVERDREDGE QUANTITY = 30,000 YD³



2011-00246 S
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Figure 2

X:\WesPac2 Project Description\mxd\Figure 2-3 Existing Marine Terminal Aerial.mxd

Figure 2
Existing Marine Terminal Aerial
City of Pittsburg
WesPac Pittsburg Energy Infrastructure Project

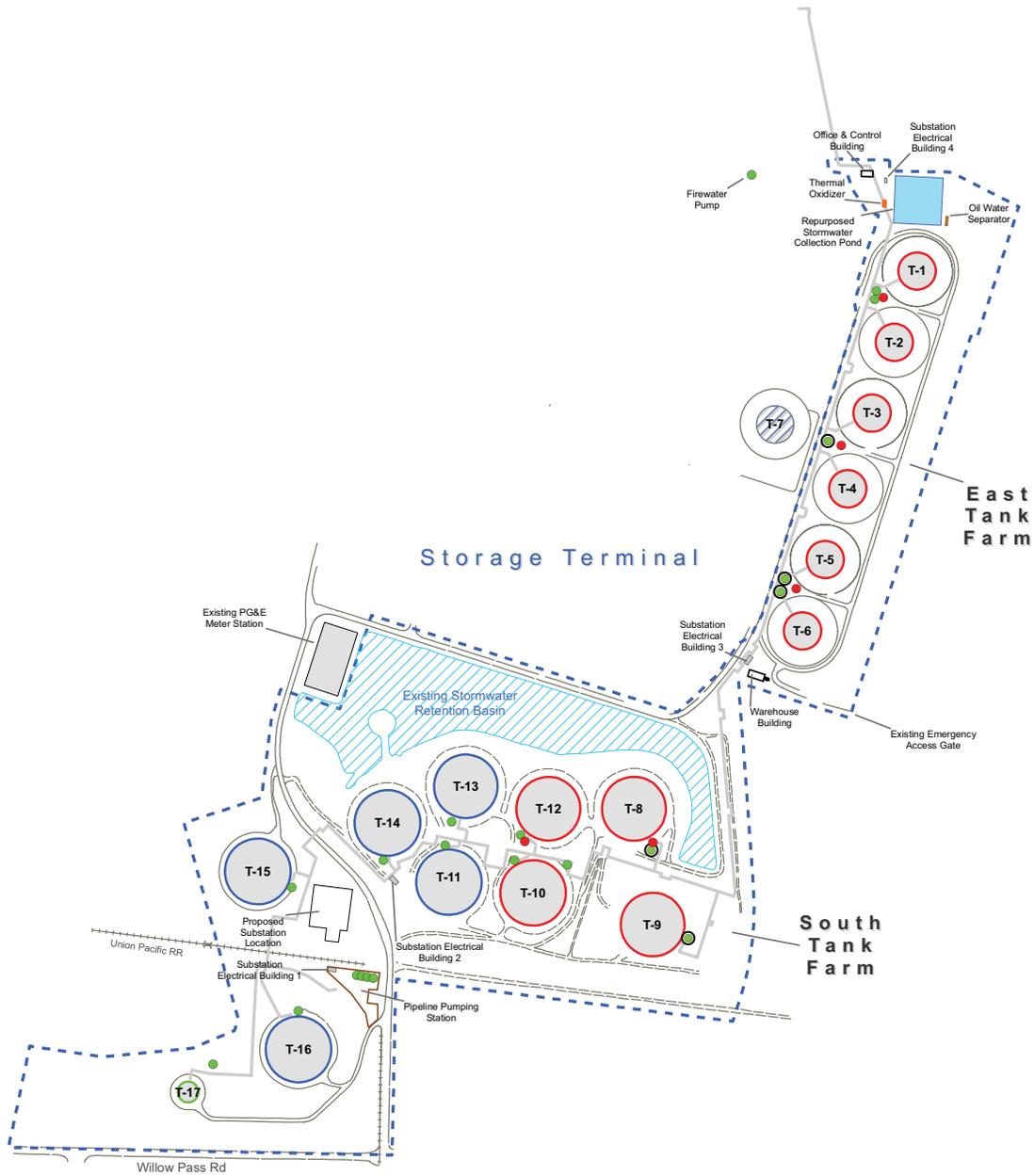


Terminal Boundary
Area of Focus

1:2,000
1 inch = 167 feet
0 70 140 ft



6/27/2012



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Figure 3

US Army Corps of Engineers
 San Francisco District
 Regulatory Division

Proposed Storage Terminal Layout
 City of Pittsburg
 WesPac Pittsburg Energy Infrastructure Project



6/27/2012

* Pumps with proposed noise barrier walls as described in Appendix L: WesPac Energy Infrastructure Project, Noise Assessment Report, and Chapter 13.0: Noise and Vibration.

X:\WesPac2 Project Description\mxd\Figure 2-5 Proposed Storage Terminal Layout.mxd

- Pump
- Pump with Noise Barrier Wall*
- Heater
- Onshore Storage Terminal Pipelines
- Existing Crude Oil Tank
- Existing Crude Oil Tank with Heating Potential
- Existing Surge Tank
- Existing GenOn Tank
- Terminal Boundary

1:6,000

1 inch = 500 feet

0 250 500 ft

Preliminary and subject to change based on final engineering and other factors.



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X:\WesPac2\Project Description\mxd\Figure 2-11 KLM Pipeline Connection.mxd

Figure 4
KLM Pipeline Connection
 City of Pittsburg
 WesPac Pittsburg Energy Infrastructure Project

-  Existing San Pablo Bay Pipeline
-  Existing KLM Pipeline
-  Proposed KLM Pipeline Connection
-  Terminal Boundary


1:4,000
 1 inch = 333 feet

 0 175 350 ft



E:\Maps\WesPac7 Terrestrial Biology\mxd\Figure 7-3 Wetlands and Waters.mxd

Onshore Wetlands and Waters Figure 5
 City of Pittsburg
 WesPac Pittsburg Energy Infrastructure Project


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6/28/2012

-  Proposed KLM Pipeline Connection
-  Existing KLM Pipeline
-  Terminal Boundary
-  Jack-and-bore pit


 1:10,000
 1 inch = 833 feet




WesPac Energy-Pittsburg LLC

MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

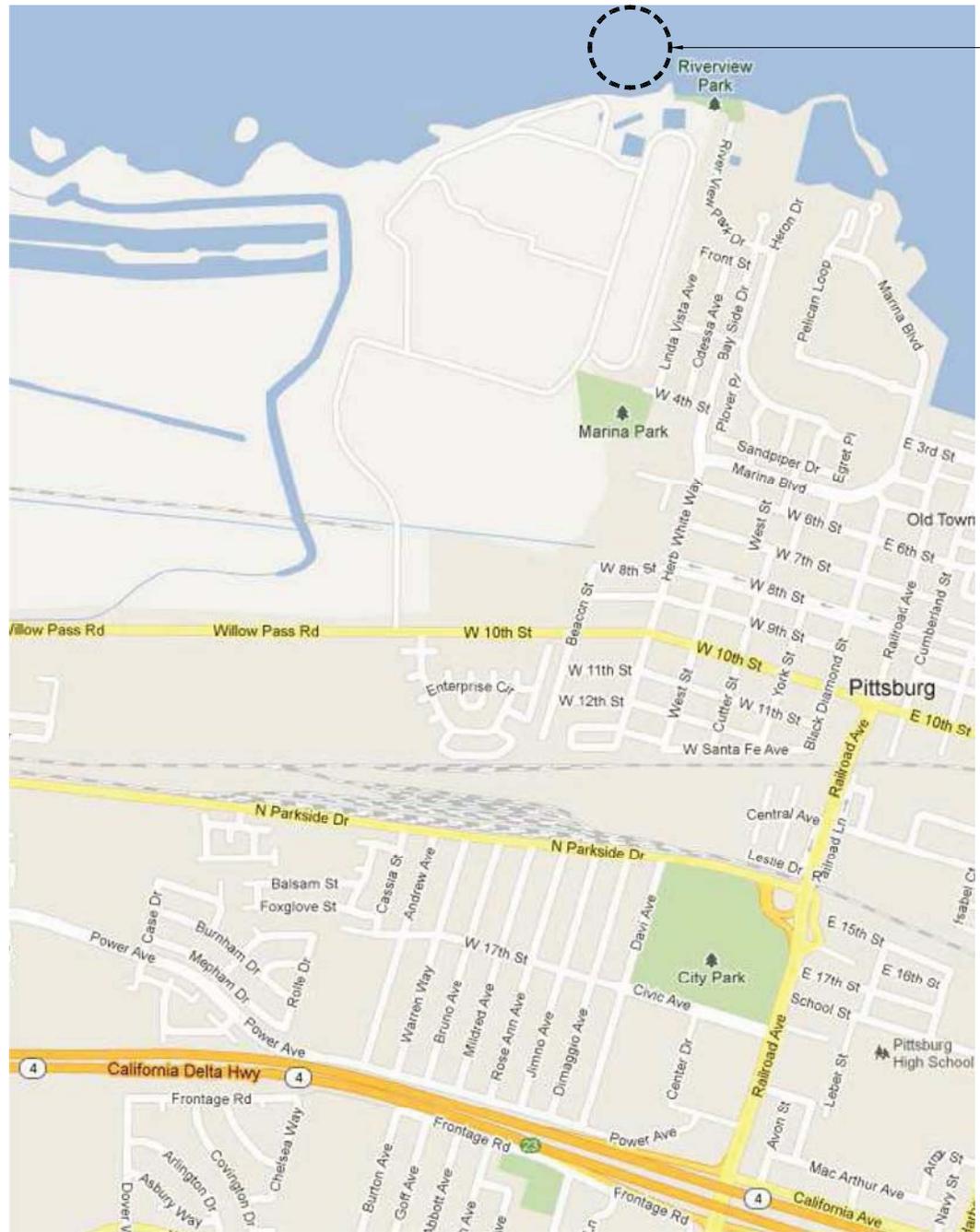

US Army Corps of Engineers
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 Project Plans (21 sheets)

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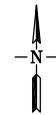
SHEET	SHEET TITLE
G1	TITLE SHEET, DRAWING INDEX
G2	SITE LOCATION MAP (ROAD MAP)
G3	USGS QUAD MAP
G4	NEW STRUCTURE PLAN
G5	GENERAL NOTES
D1	DEMOLITION PLAN
BD1	BREASTING DOLPHIN PLANS
BD2	BREASTING DOLPHIN TYP. SECTIONS
MD1	MOORING DOLPHIN PLAN & ELEVATION
MD2	MOORING DOLPHIN DETAILS
ULP1	UNLOADING PLATFORM PLAN
ULP2	UNLOADING PLATFORM ELEVATION
PW1	PIPEWAY PLAN
PW2	PIPEWAY ELEVATION

SHEET	SHEET TITLE
WW1	WALKWAY PLAN & ELEVATION
WW2	WALKWAY DETAILS
GT1	GANGWAY TOWER PLAN
GT2	GANGWAY TOWER ELEVATION
OB1	OIL BOOM PLATFORM PLAN
OB2	OIL BOOM PLATFORM ELEVATION
R1	STRUCTURAL REPAIRS ROADWAY TRESTLE PLAN
R2	STRUCTURAL REPAIRS ROADWAY TRESTLE DETAILS

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SITE LOCATION



CLIENT:
WesPac Energy-Pittsburg LLC
 2355 MAIN STREET, SUITE 210,
 IRVINE, CA 92614



DRAWING BY:
BEN C. GERWICK, INC.
 1300 CLAY STREET, 7th FL., OAKLAND, CA 94612
 CONTACT: JACK GERWICK, PE (510) 267-7172

MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

SITE LOCATION MAP
 (ROAD MAP)

SCALE
 N.T.S.

DATUM	DATE: 2-3-12	SHEET
MLLW	REV:	G2

SHEET 2 OF 22



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 2385 MAIN STREET, SUITE 210,
 IRVINE, CA 92614



BEN C. GERWICK, INC.
 1300 CLAY STREET, 7th FL., OAKLAND, CA 94612
 CONTACT: JACOB GERWICK, PE (510) 267-7172

CLIENT:

DRAWING BY:

MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

USGS QUAD MAP

SCALE

DATUM

DATE:

SHEET

3 OF 22



U.S. DEPARTMENT OF THE INTERIOR
 U. S. GEOLOGICAL SURVEY

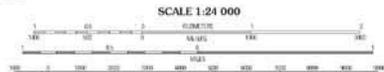


HONKER BAY QUADRANGLE
 CALIFORNIA
 7.5-MINUTE SERIES



Produced by the United States Geological Survey
 North American Datum of 1983 (NAD83)
 World Geodetic System of 1984 (WGS84) Projection and
 UTM Zone 18Q, Universal Transverse Mercator, Zone 18Q
 50 000 Meter scale, California Coordinate System of 1983
 Series 2 and 3

Source: NAD, June 2005
 Data: National Transportation Dataset, 2006, 2008
 System: GCS, 2008



SCALE 1:24 000

This map was produced to conform with version 0.0.25 of the
 draft USGS Standards for 7.5-Minute Quadrangle Maps.
 A metadata file associated with this product is also draft version 0.0.25.



ROAD CLASSIFICATION
 Interstate Route State Route
 US Route Local Road
 Ramp 4WD
 Wheel Track
 Rail Road
 Rail Spur

ROAD CLASSIFICATION
 State Route
 Local Road
 4WD
 Rail Spur

ROAD CLASSIFICATION
 State Route
 Local Road
 4WD
 Rail Spur

ROAD CLASSIFICATION
 State Route
 Local Road
 4WD
 Rail Spur

SITE LOCATION

HONKER BAY, CA
 2009

GENERAL NOTES

A. GENERAL NOTES

THESE GENERAL NOTES PERTAIN TO THE WESPAC TERMINAL, PITTSBURG, CALIFORNIA.

ALL WORK SHALL CONFORM TO ALL LOCAL BUILDING CODES AND ORDINANCES.

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS AND CONSTRUCTION IN THE FIELD AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NOTES AND DETAILS ON DRAWINGS AND GENERAL NOTES ARE IN CONFLICT, THE MOST STRINGENT SHALL APPLY. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUED AS SHOWN FOR SIMILAR WORK.

ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW).

THESE DRAWINGS ARE PART OF A PERMIT SUBMITTAL AND SHOULD BE USED FOR PLANNING PURPOSES ONLY. DRAWINGS SHOULD NOT BE USED FOR CONSTRUCTION.

B. MATERIALS

1. STRUCTURAL STEEL

- 1.1 STEEL BEAMS AND SHAPES SHALL CONFORM TO ASTM A992 GRADE 50, UNLESS OTHERWISE NOTED. STEEL PLATES SHALL CONFORM TO ASTM A572 GRADE 50, UNLESS OTHERWISE NOTED. HSS SHAPES SHALL CONFORM TO ASTM A500 GRADE B, UNLESS OTHERWISE NOTED.
- 1.2 WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS) D1.1, LATEST EDITION.
- 1.3 UNLESS OTHERWISE NOTED, STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM 123 WITH MINIMUM THICKNESS OF 7 MILS.
- 1.4 STRUCTURAL STEEL SPECIFIED AS COATED SHALL BE COATED AS DESCRIBED IN NOTE 2.2.

2. STEEL PILES

- 2.1 STEEL PILES SHALL BE API 5LX GRADE 52. THE CARBON EQUIVALENCY OF STEEL, AS DEFINED IN AWS D1.1, SHALL NOT EXCEED 0.45. THE SULFUR CONTENT OF STEEL SHALL NOT EXCEED 0.05 PERCENT. PILES SHALL BE LONGITUDINALLY WELDED PIPE AND SEAMS SHALL BE COMPLETE PENETRATION WELDS.
- 2.2 STEEL PILES SHALL BE COATED OVER THE LENGTHS SHOWN ON THE DRAWINGS. THE COATING SHALL BE AS FOLLOWS AND SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 1ST COAT: 3-5 MILS DFT OF WASSER MC-ZINC
 - 2ND COAT: 5-7 MILS DFT OF WASSER MC-TAR
 - 3RD COAT: 5-7 MILS DFT OF WASSER MC-TAR

PREPARE SURFACE BY BLAST CLEANING ACCORDING TO SP10. FOR FIELD APPLICATION AT WELD LOCATIONS, PREPARE SURFACE ACCORDING TO SP3 AND APPLY COATING WITH BRUSH AND ROLLER OVERLAPPING ZINC 3" OVER ORIGINAL TAR.

- 2.3 PILES MAY BE SPLICED IN THE FIELD AS NECESSARY TO ACCOMMODATE PILE INSTALLATION EQUIPMENT.

- 2.4 PILES TO BE INSTALLED USING TEMPLATES TO CONTROL POSITION. PILE TOLERANCE IS 3" IN ANY DIRECTION.
- 2.5 PILES TO BE INSTALLED TO TIP ELEVATION. USE OF IMPACT HAMMER MAY BE REQUIRED IF EARLY REFUSAL ENCOUNTERED.

3. CONCRETE

- 3.1 CONCRETE SHALL BE CALTRANS CLASS I AND SHALL MEET THE SECTION 90 REQUIREMENTS FOR MATERIALS, PROPORTIONING, MIXING, TRANSPORTING AND CURING. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH SECTION 51 AND EXPOSED SIDES AND TOPS OF CONCRETE STRUCTURES SHALL HAVE A CLASS I SURFACE FINISH.
- 3.2 CONCRETE SHALL HAVE MINIMUM 28 DAY F'c OF 5,000 PSI.
- 3.3 CONCRETE W/C RATIO SHALL BE A MAXIMUM OF 0.35.
- 3.4 MAXIMUM AGGREGATE SIZE IS 1.0" AGGREGATES SHALL MEET ASTM C33 REQUIREMENTS.
- 3.5 MAXIMUM SLUMP IS 4".
- 3.6 REQUIRED RANGE OF AIR-ENTRAINMENT IS 3% TO 6%.
- 3.7 MAXIMUM CHLORIDE ION CONTENT BY MASS OF CEMENT IS 0.06%.
- 3.8 REINFORCING SHALL BE ASTM A615 OR ASTM A706 AS APPLICABLE.

4. BOLTS AND WELDS

- 4.1 UNLESS OTHERWISE NOTED, BOLTS SHALL BE ASTM A325. BOLTS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.
- 4.2 WELDS SHALL BE MADE WITH D1.1. TABLE 3.1 GROUP II CONSUMABLES.
- 4.3 RETURN ALL WELDS AROUND CORNERS AND JOIN WITH ADJACENT WELDS. MAKE ALL JOINTS WATER TIGHT.

5. TIMBER

- 5.1 TIMBER FRAMING AND DECKING TO BE DOUGLAS FIR NO.1 OR BETTER, GRADED PER THE WCLIB.
- 5.2 ALL WOOD TO BE TREATED WITH ACQ WITH A MINIMUM RETENTION OF 0.6 PCF IN ACCORDANCE WITH AWPA STANDARDS.
- 5.3 TREAT CUT EDGES AND HOLES WITH COPPER NAPHTHENATE.

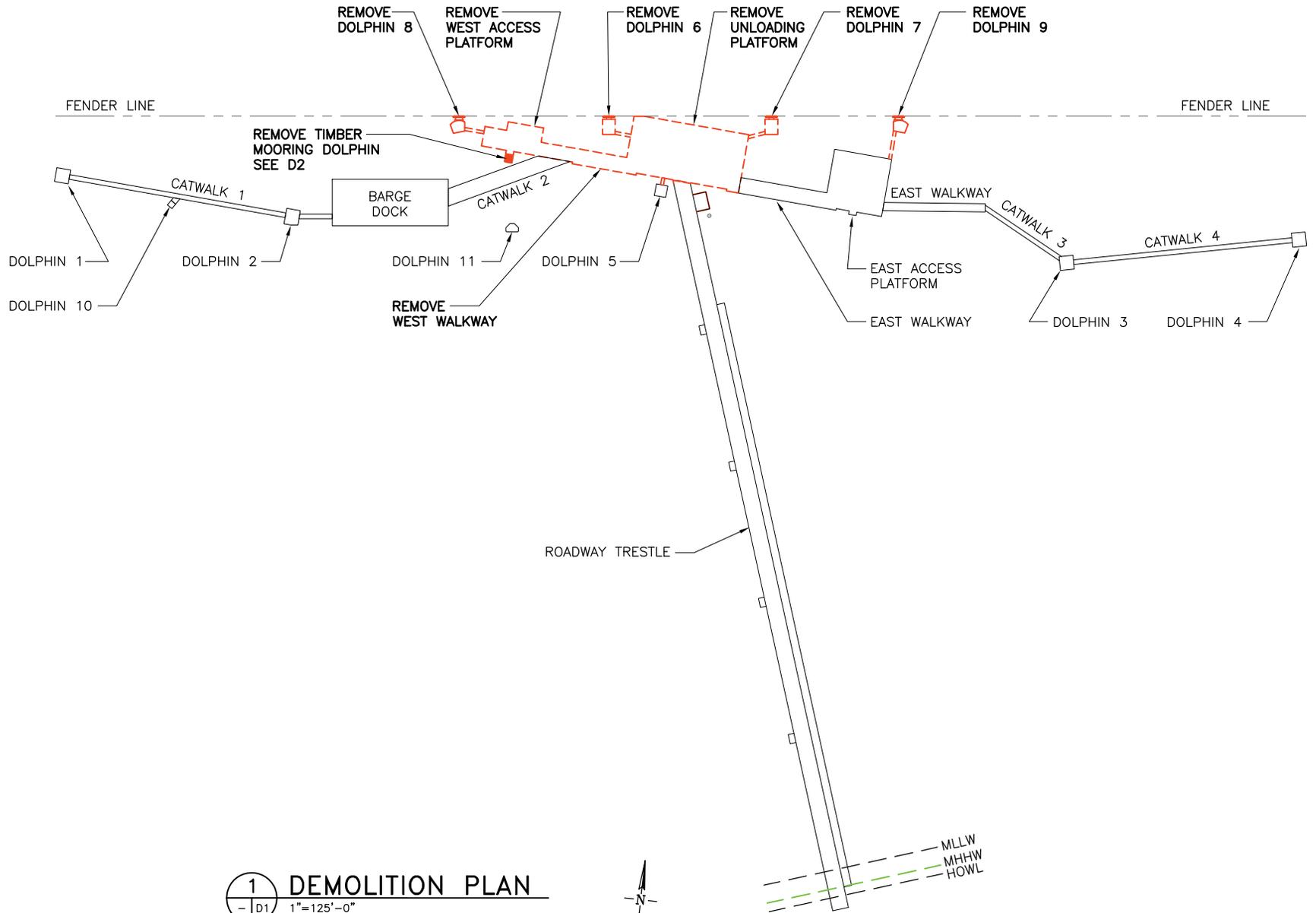
C. DEMOLITION

- 1. PIPING, BUILDINGS, AND MECHANICAL AND ELECTRICAL EQUIPMENT TO BE REMOVED UNDER SEPARATE CONTRACT AND ACCORDING TO SPEC SERVICES DRAWINGS.
- 2. DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS.
- 3. PILES SHALL BE REMOVED TO TIP IF POSSIBLE. AT A MINIMUM, PILES MUST BE REMOVED 3' BELOW MUDLINE.

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 WesPac Energy-Pittsburg LLC 2355 MAIN STREET, SUITE 210, IRVINE, CA 92614	CLIENT: CLIENT:	 BEN C. GERWICK, INC. 1300 CLAY STREET, 7th FL., OAKLAND, CA 94612 CONTACT: JACK GERWICK, PE (510) 267-7172	DRAWING BY: MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS	SCALE N.T.S.	DATUM MLLW	DATE: 2-3-12 REV:	SHEET G5
	GENERAL NOTES		SHEET 5 OF 22				

FILE LOCATION: P:\2011\2011-51\DRWG\12-20-11 PERMIT SET\DWG DATE: 1/30/2012 11:36:19 AM DRAFTSPERSON: NOEL FORTEZ



1 DEMOLITION PLAN
- D1 1"=125'-0"



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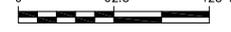
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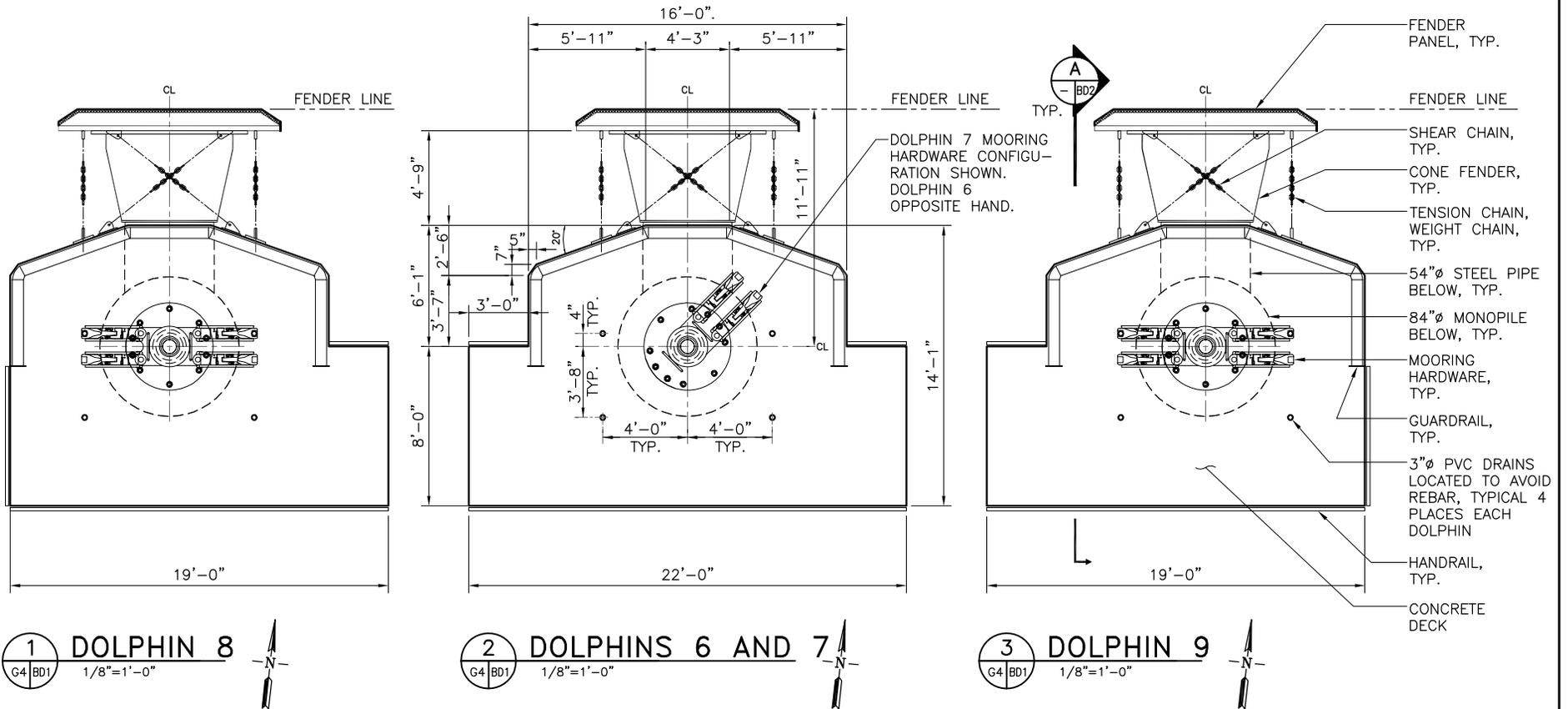
MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

DEMOLITION PLAN

SCALE
 0 62.5 125 FT

 1"=125'-0"

DATUM	DATE: 2-3-12	SHEET
MLLW	REV:	D1
		SHEET 6 OF 22

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1 DOLPHIN 8
 G4 BD1 1/8"=1'-0"
 N

2 DOLPHINS 6 AND 7
 G4 BD1 1/8"=1'-0"
 N

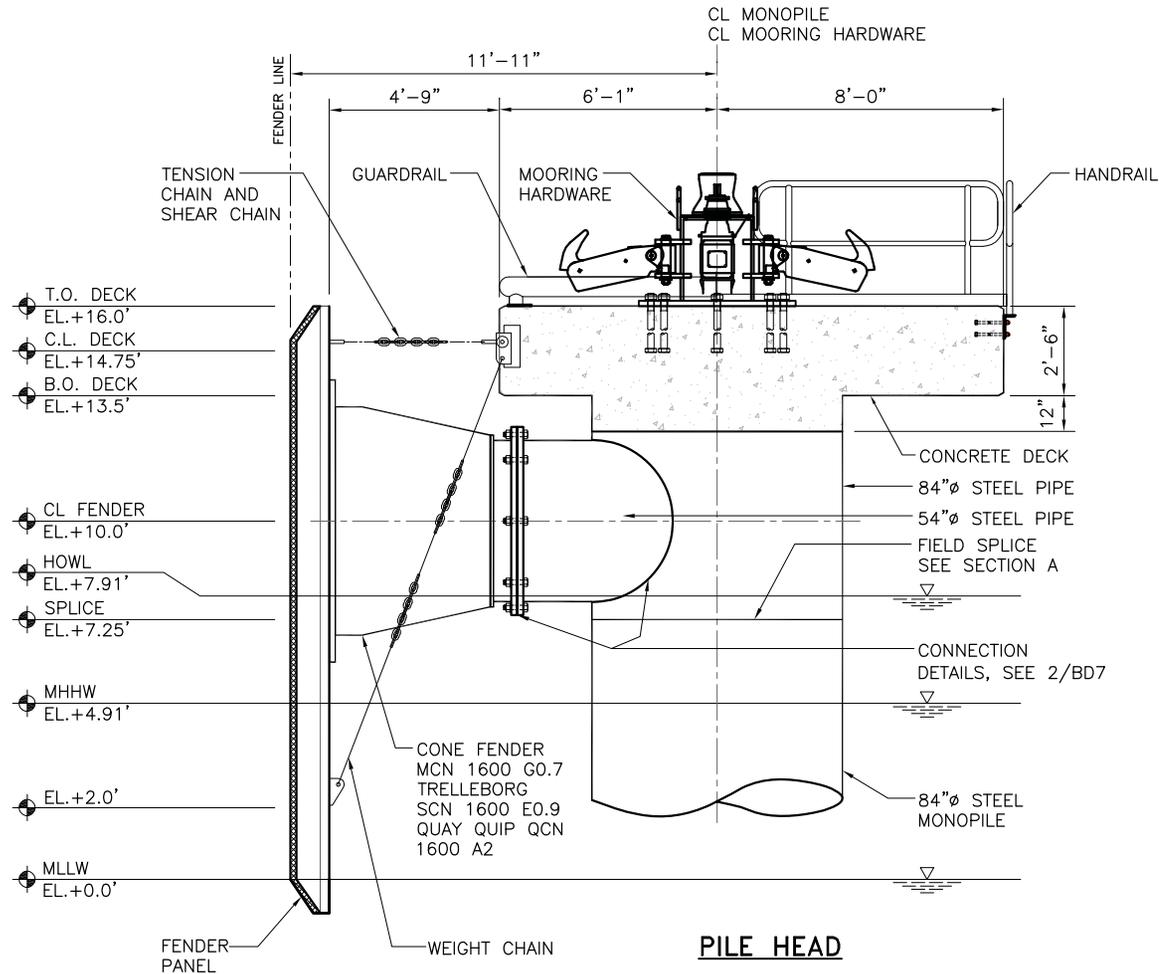
3 DOLPHIN 9
 G4 BD1 1/8"=1'-0"
 N

NOTES:

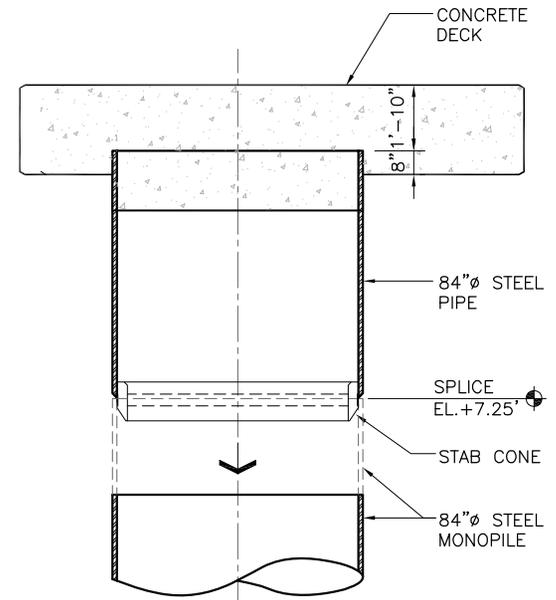
1. ALL DIMENSIONS ARE TYPICAL UNLESS OTHERWISE NOTED.
2. (N) DOLPHIN 6 IS TYPICAL TO (N) DOLPHIN 7, EXCEPT NO REAR HANDRAIL DOLPHIN 6 AND MOORING HOOKS OPPOSITE HAND.
3. (N) DOLPHIN 8 IS OPPOSITE HAND OF (N) DOLPHIN 9.
4. SEE BD2 FOR DOLPHIN SECTION AND STEEL PIPE CONNECTION.

BREASTING DOLPHIN PILE TABLE		
#	SIZE	TYPE
4	84" x 1.75"	STEEL PIPE PILE

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PILE HEAD SECTION
 A SECTION
 1/2"=1'-0"



FIELD SPLICE CONNECTION SECTION
 B SECTION
 1/2"=1'-0"

NOTES:

1. STEEL HEAD PIECES TO BE COATED IN SAME MANNER AS STEEL PILES, HOLD BACK 6" FROM SPLICE LOCATION.
2. TOP OF DECK ELEVATION OF DOLPHINS 6, 7, 8, AND 9 IS +16.0'.



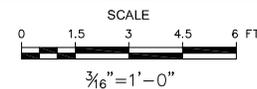
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BREASTING DOLPHIN
 TYPICAL SECTIONS

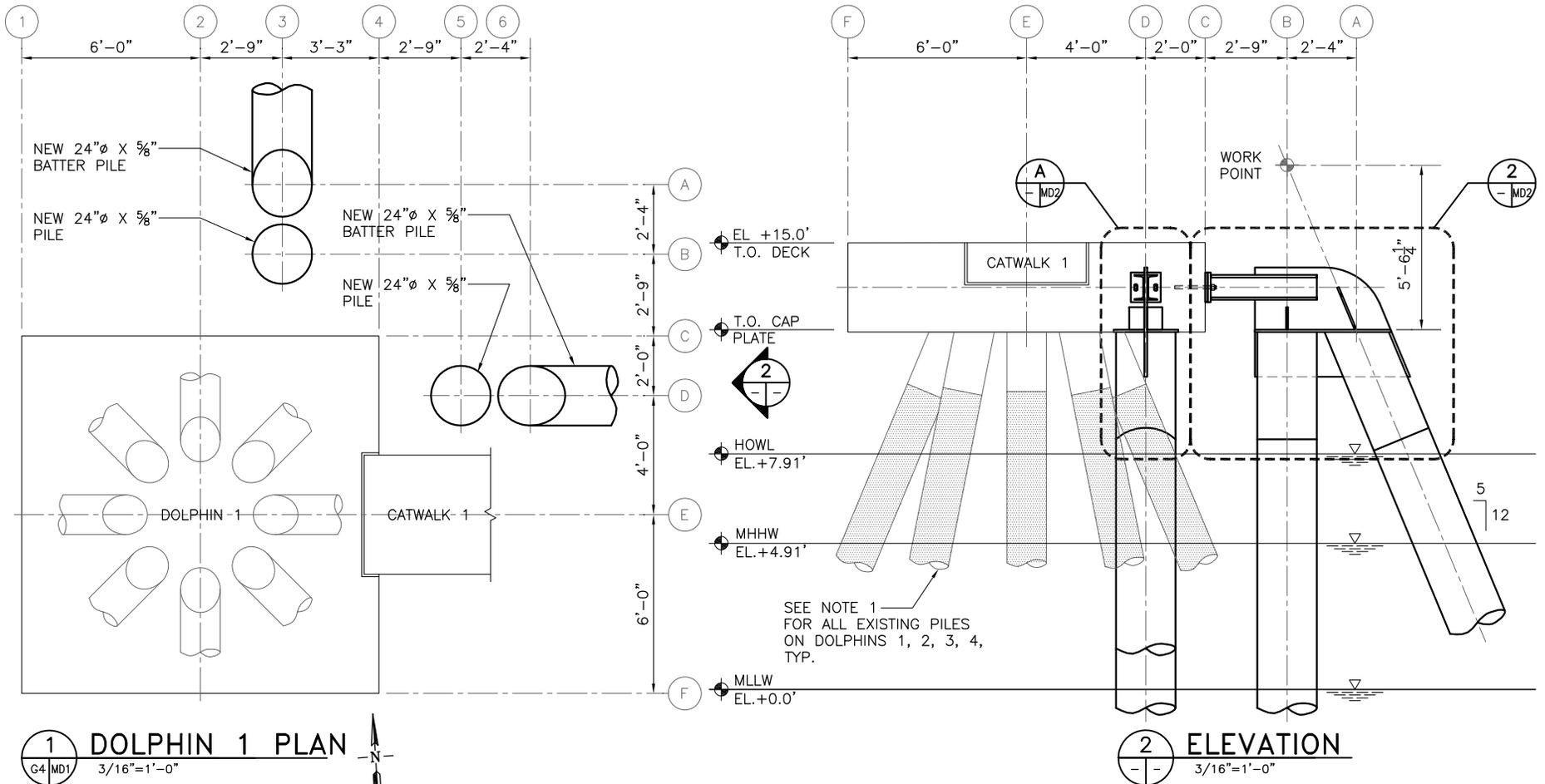


DATUM
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DATE: 2-3-12
 REV:

SHEET
BD2
 SHEET 8 OF 22

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1 DOLPHIN 1 PLAN
 G4 MD1 3/16"=1'-0"

2 ELEVATION
 3/16"=1'-0"

NOTES:

- INSTALL STAC SPLASH PRO SYSTEM IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS ON MOORING DOLPHIN EXISTING 16" AND 18" DIAMETER STEEL PILES. SPLASH PRO SYSTEM TO BE 12' IN LENGTH, EXTENDING FROM -2' MLLW UP TOWARDS THE CAP. INSTALLATION STEPS AS FOLLOWS:
 - REMOVE LOOSE RUST, COATING, AND MARINE GROWTH ACCORDING TO SSPL SP2 HAND TOOL CLEANING.
 - APPLY STAC PRIME TO PREPARED STEEL WITH A GLOVED HAND OR ROLLER.
 - APPLY STAC WRAP FROM THE BOTTOM WITH A DOUBLE TURN, THEN SPIRALLY APPLY WITH A 55% OVERLAP TO ENSURE DOUBLE THICKNESS, AND FINISH THE WRAP WITH A DOUBLE TURN AT THE TOP.
 - INSTALL 100 MIL BLACK HDPE SLEEVE, 12' LONG AROUND WRAP. SECURE EACH SLEEVE WITH 16 EACH 317L STAINLESS STEEL STRAPS AND 316 STAINLESS STEEL BUCKLES.
- MOORING DOLPHIN 1 SHOWN, MOORING DOLPHINS 2, 3, AND 4, HAVE SIMILAR WRAPS, MOORING DOLPHINS 2 AND 4 HAVE SIMILAR PILE RETROFIT

MOORING DOLPHIN PILE TABLE		
#	SIZE	TYPE
8	24" x 5/8"	STEEL PIPE PILE
6	24" x 7/8"	STEEL PIPE PILE

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 IRVINE, CA 92614

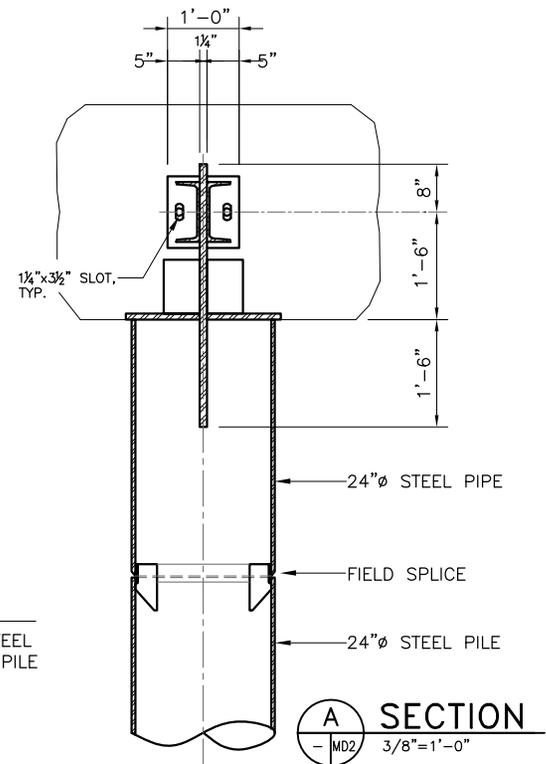
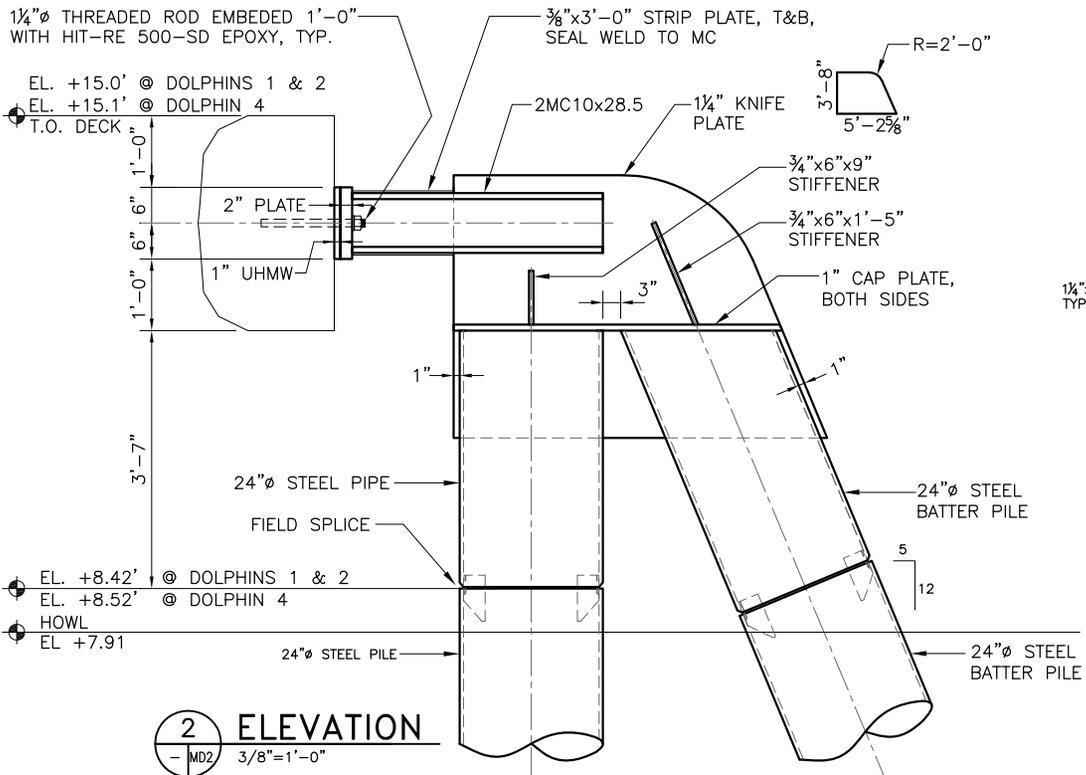
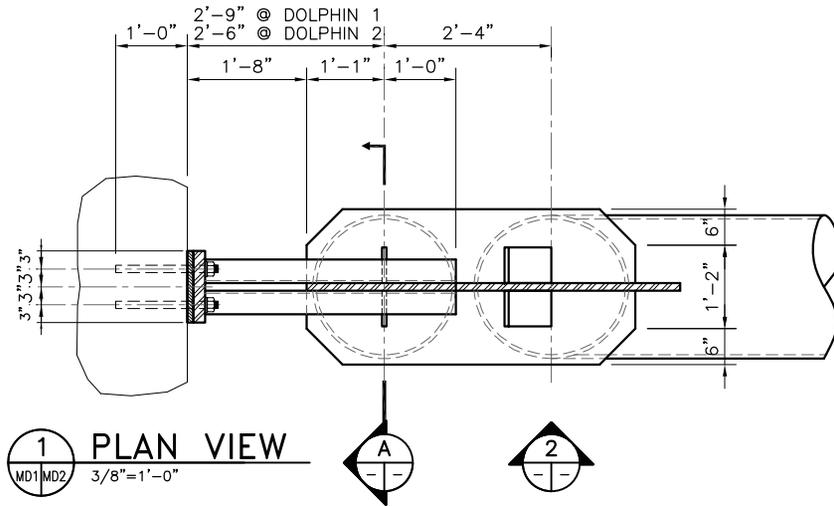
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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS
 MOORING DOLPHIN
 PLAN & ELEVATION

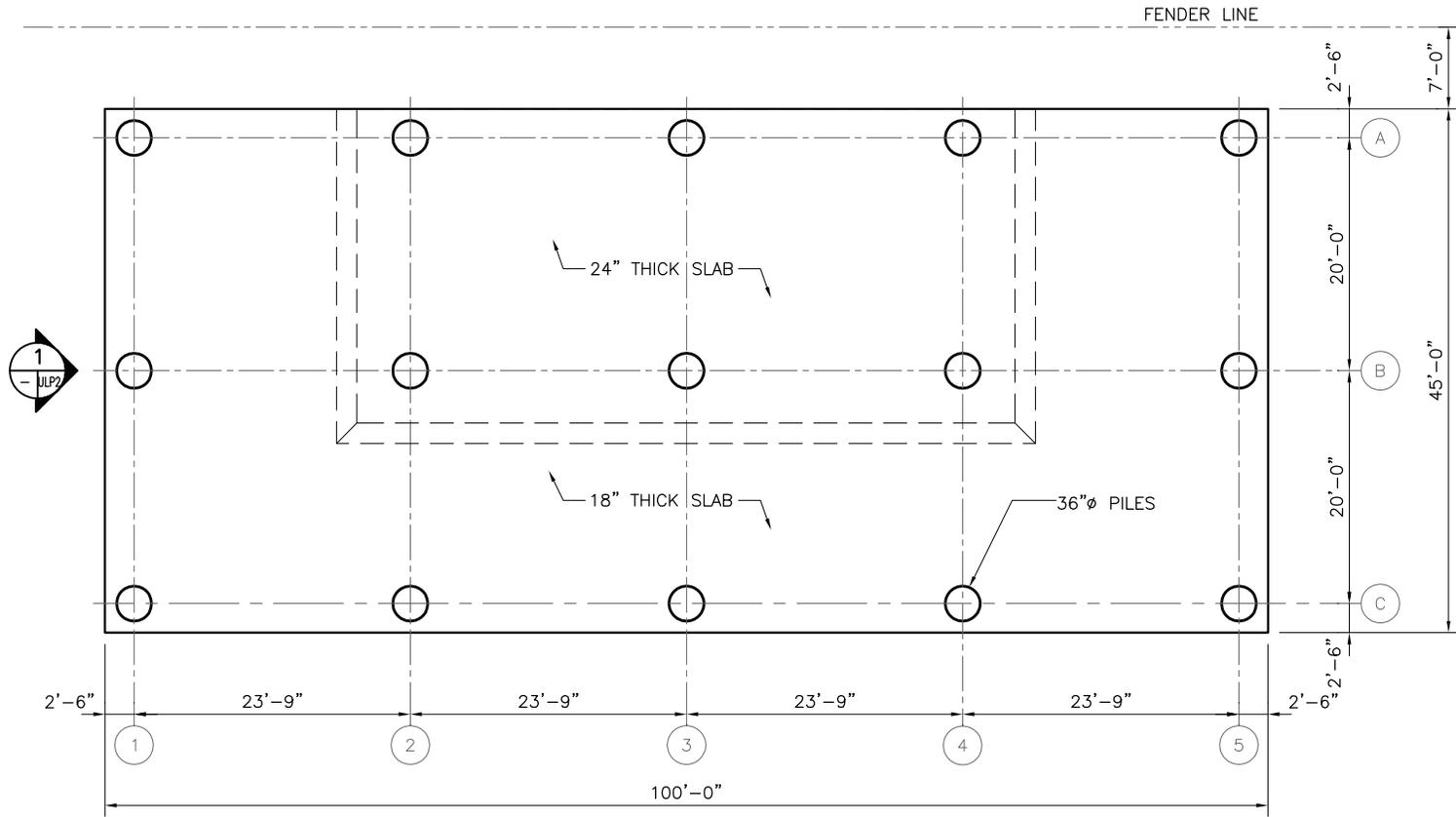
SCALE
 6 FT
 3/16"=1'-0"

DATUM	DATE: 2-3-12	SHEET
MLLW	REV:	MD1
		SHEET 9 OF 22

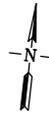
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1
G4 ULP1
PILE PLAN
1/16"=1'-0"



UNLOADING PLATFORM PILE TABLE		
#	SIZE	TYPE
15	36" x 1 1/4"	STEEL PIPE PILE



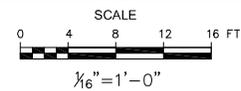
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IRVINE, CA 92614



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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

UNLOADING PLATFORM
PILE PLAN

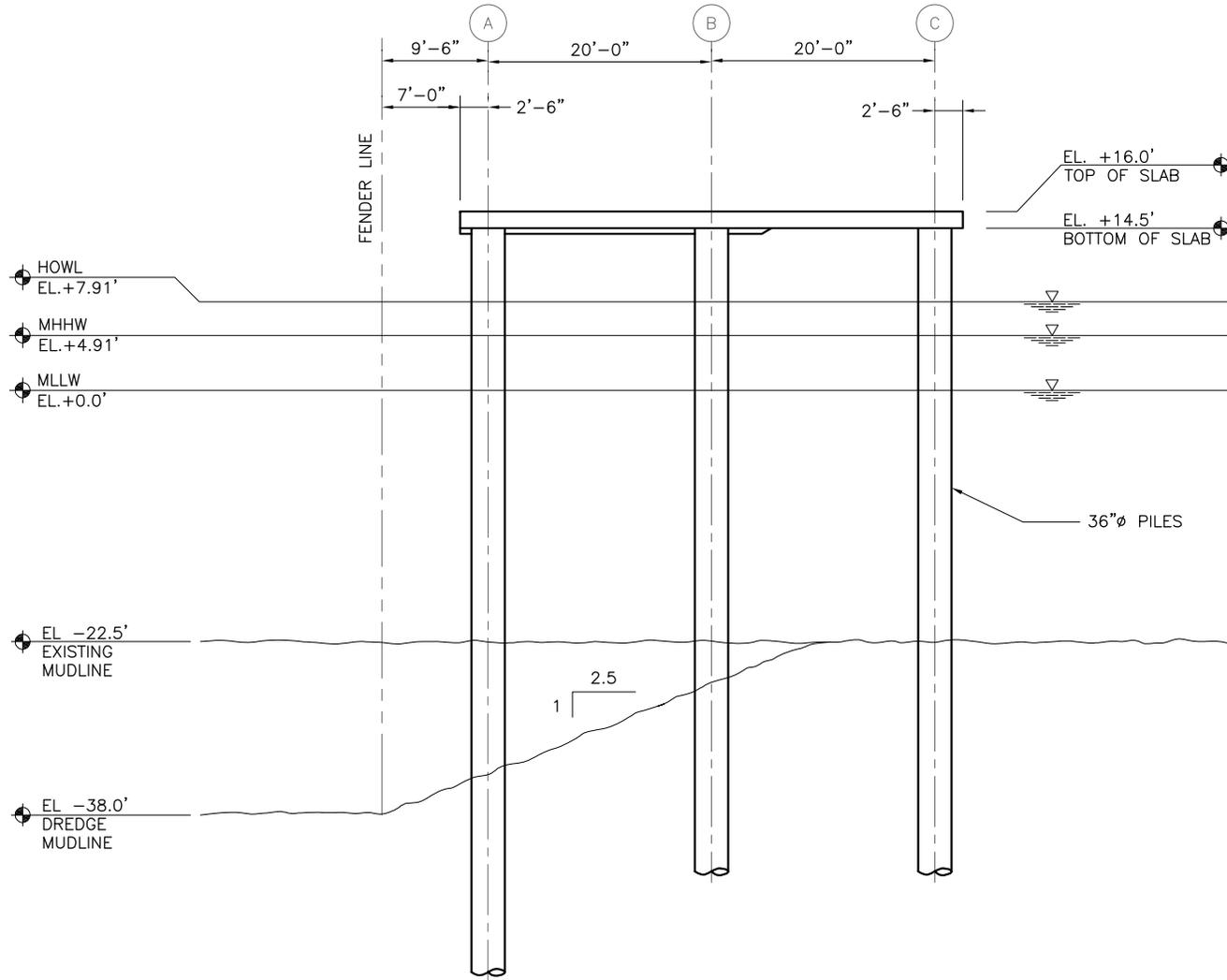


DATUM
MLLW

DATE: 2-3-12
REV:

SHEET
ULP1
SHEET 11 OF 22

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1 ELEVATION
 ULP\MLP2 1/16"=1'-0"

CLIENT:
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 2355 MAIN STREET, SUITE 210,
 IRVINE, CA 92614

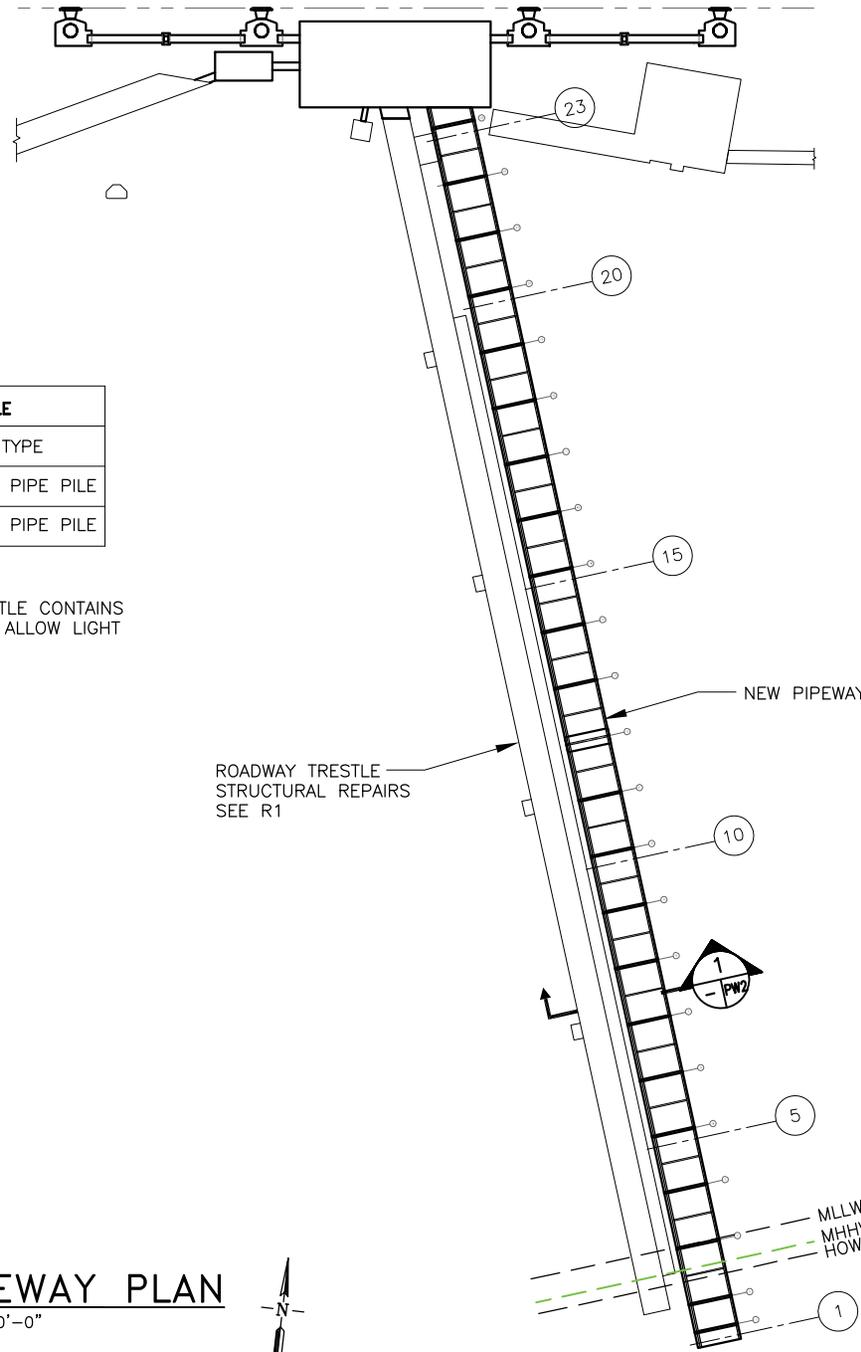
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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS
 UNLOADING PLATFORM
 ELEVATION

SCALE
 16 FT
 1/16" = 1'-0"

DATUM	DATE: 2-3-12	SHEET
MLLW	REV:	ULP2
		SHEET 12 OF 22

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PIPEWAY PILE TABLE		
#	SIZE	TYPE
24	24" x 3/4"	STEEL PIPE PILE
6	30" x 1"	STEEL PIPE PILE

NOTE:

1. IN PLAN, PIPEWAY TRESTLE CONTAINS OPEN AREAS THAT WILL ALLOW LIGHT TO PASS THROUGH.

1 PIPEWAY PLAN
G4 PW1 1"=100'-0"



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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

PIPEWAY PLAN

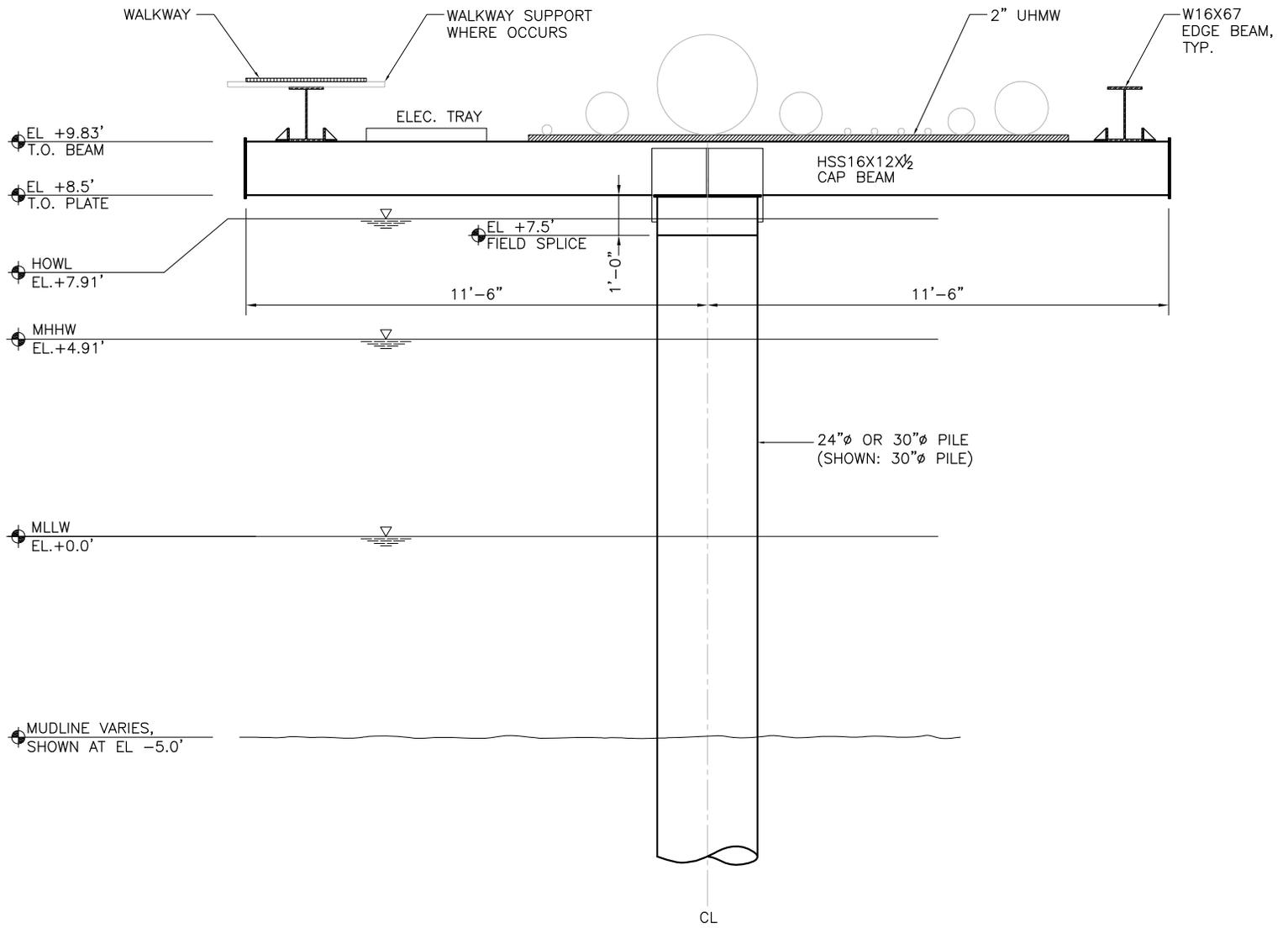
SCALE
0 25 50 75 100 FT
1"=100'-0"

DATUM
MLLW

DATE: 2-3-12
REV:

SHEET
PW1
SHEET 13 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG. DATE: 1/30/2012 8:31:57 AM. DRAFTSPERSON: NOEL FORTEZ



1
- PW2
PIPEWAY
ELEVATION
1/4"=1'-0"

CLIENT:
 **WesPac Energy-Pittsburg LLC**
 2355 MAIN STREET, SUITE 210,
 IRVINE, CA 92614

DRAWING BY:
 **BEN C. GERWICK, INC.**
 1300 CLAY STREET, 7th FL., OAKLAND, CA 94612
 CONTACT: JACK GERWICK, PE (510) 267-7172

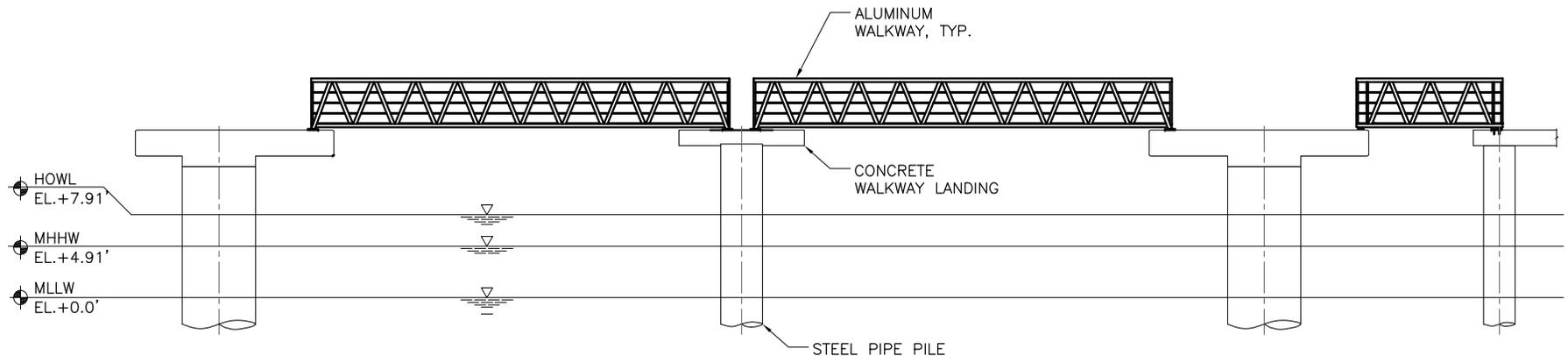
MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS
 PIPEWAY ELEVATION

SCALE

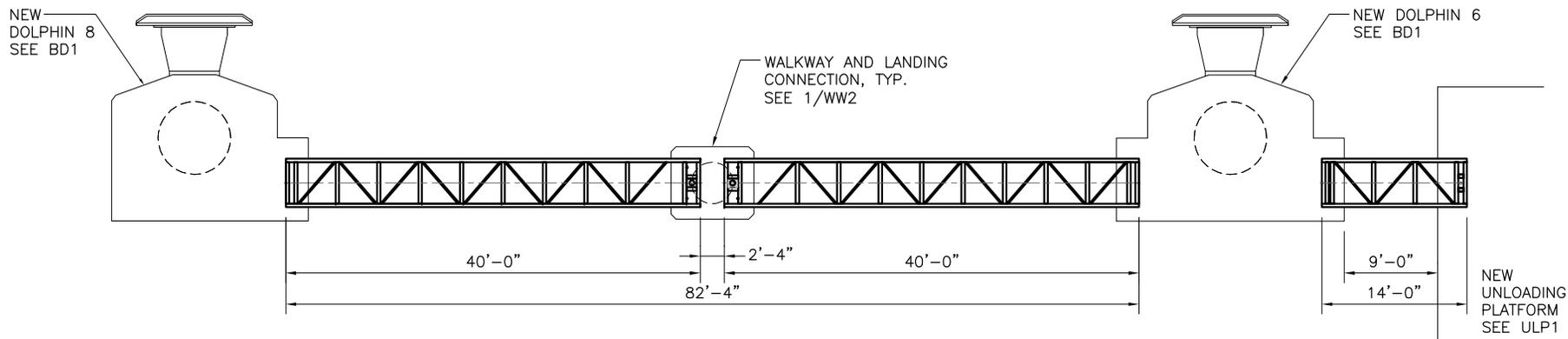
 1/4"=1'-0"

DATUM	DATE: 2-3-12	SHEET
MLLW	REV:	PW2
		SHEET 14 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG. DATE: 1/30/2012 11:28:44 AM DRAFTSPERSON: NOEL FORTEZ



2 ELEVATION
 - WW1 1/16" = 1'-0"



1 WEST WALKWAY
 G4 WW1 3/16" = 1'-0"



NOTE:

1. (N) EAST WALKWAY OPPOSITE HAND OF (N) WEST WALKWAY.
2. WALKWAY WALKING SURFACE IS EXPANDED METAL TYPE GRATING WHICH ALLOWS LIGHT TO PASS THROUGH TO THE WATER BELOW.

WALKWAY PILE TABLE		
#	SIZE	TYPE
24	48" x 3/4"	STEEL PIPE PILE

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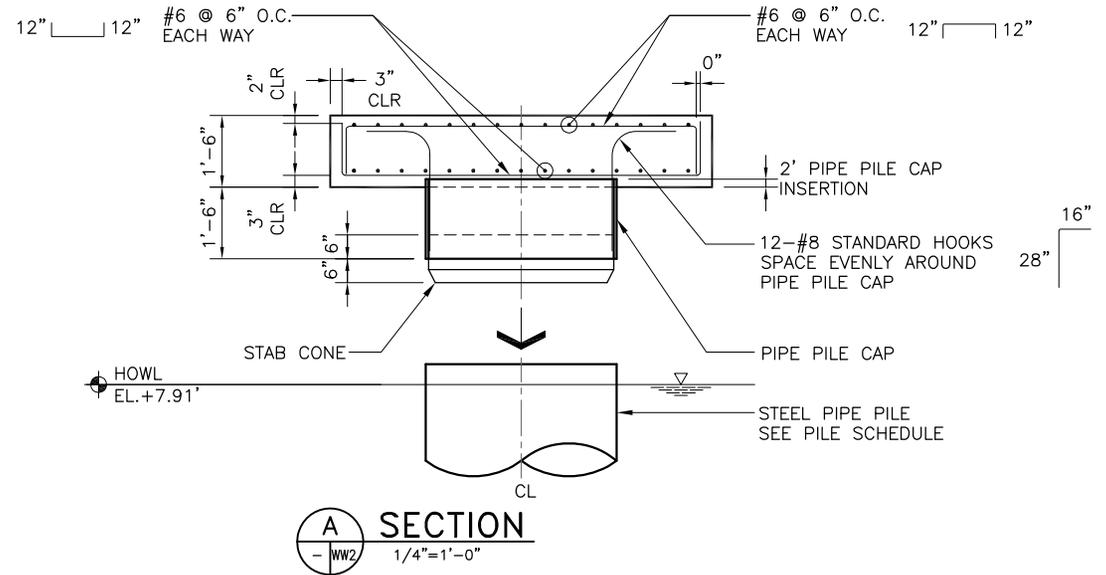
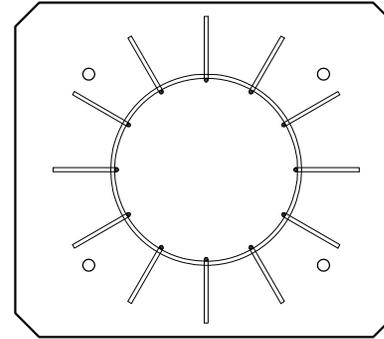
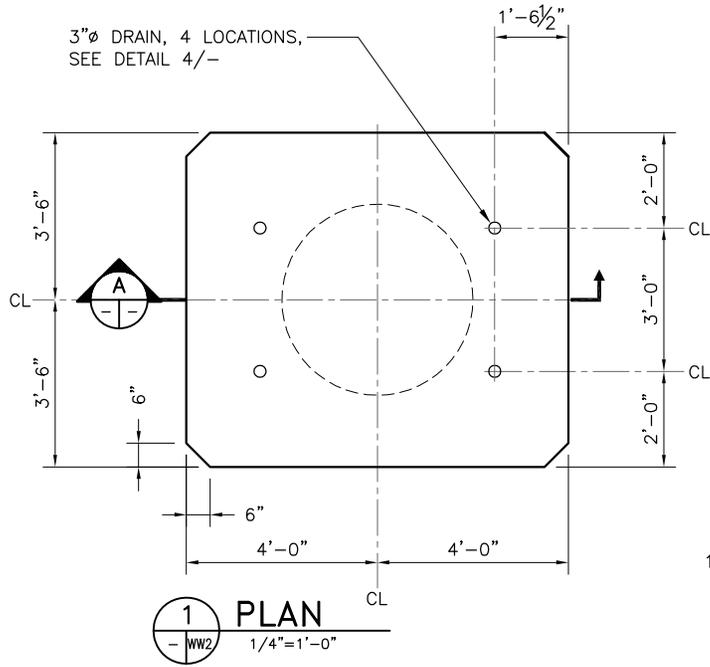
MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS
 WALKWAY
 PLAN & ELEVATION

SCALE

 1/16" = 1'-0"

DATUM MLLW	DATE: 2-3-12	SHEET
	REV:	WW1
		SHEET 15 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG DATE: 1/30/2012 8:32:45 AM DRAFTSPERSON: NOEL FORTEZ



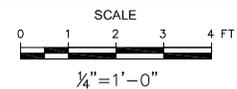
CLIENT:
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2355 MAIN STREET, SUITE 210,
IRVINE, CA 92614



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1300 CLAY STREET, 7th FL., OAKLAND, CA 94612
CONTACT: JACK GERWICK, PE (510) 267-7172

MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

WALKWAYS
DETAILS

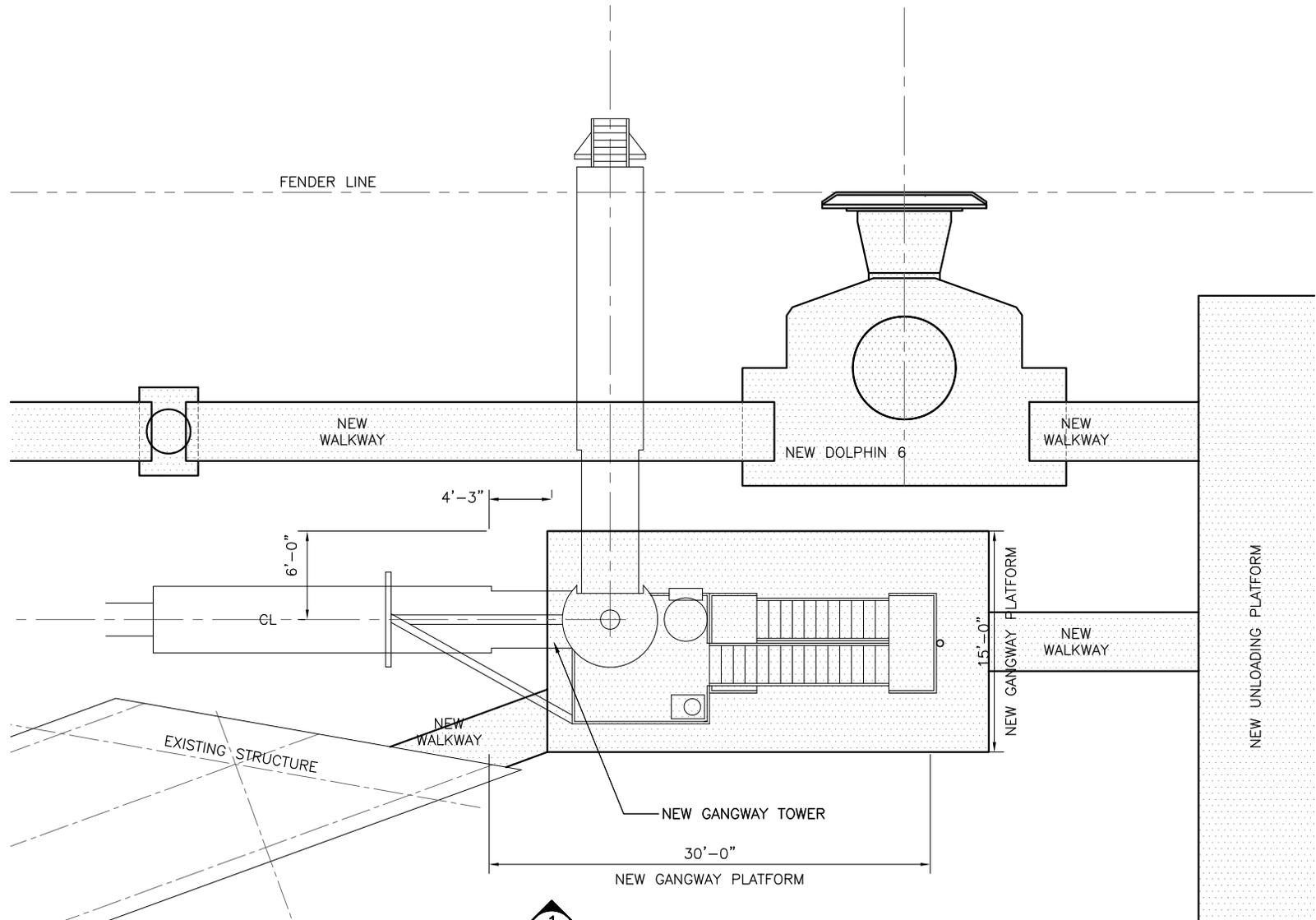


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MLLW

DATE: 2-3-12
REV:

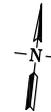
SHEET
WW2
SHEET 16 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG. DATE: 1/30/2012 8:33:14 AM. DRAFTSPERSON: NOEL FORTEZ



1 GANGWAY TOWER PLAN

3/32" = 1'-0"



GANGWAY TOWER PILE TABLE		
#	SIZE	TYPE
1	36" x 1 1/4"	STEEL PIPE PILE
2	24" x 3/4"	STEEL PIPE PILE



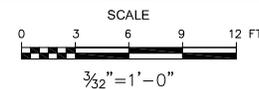
CLIENT:
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IRVINE, CA 92614



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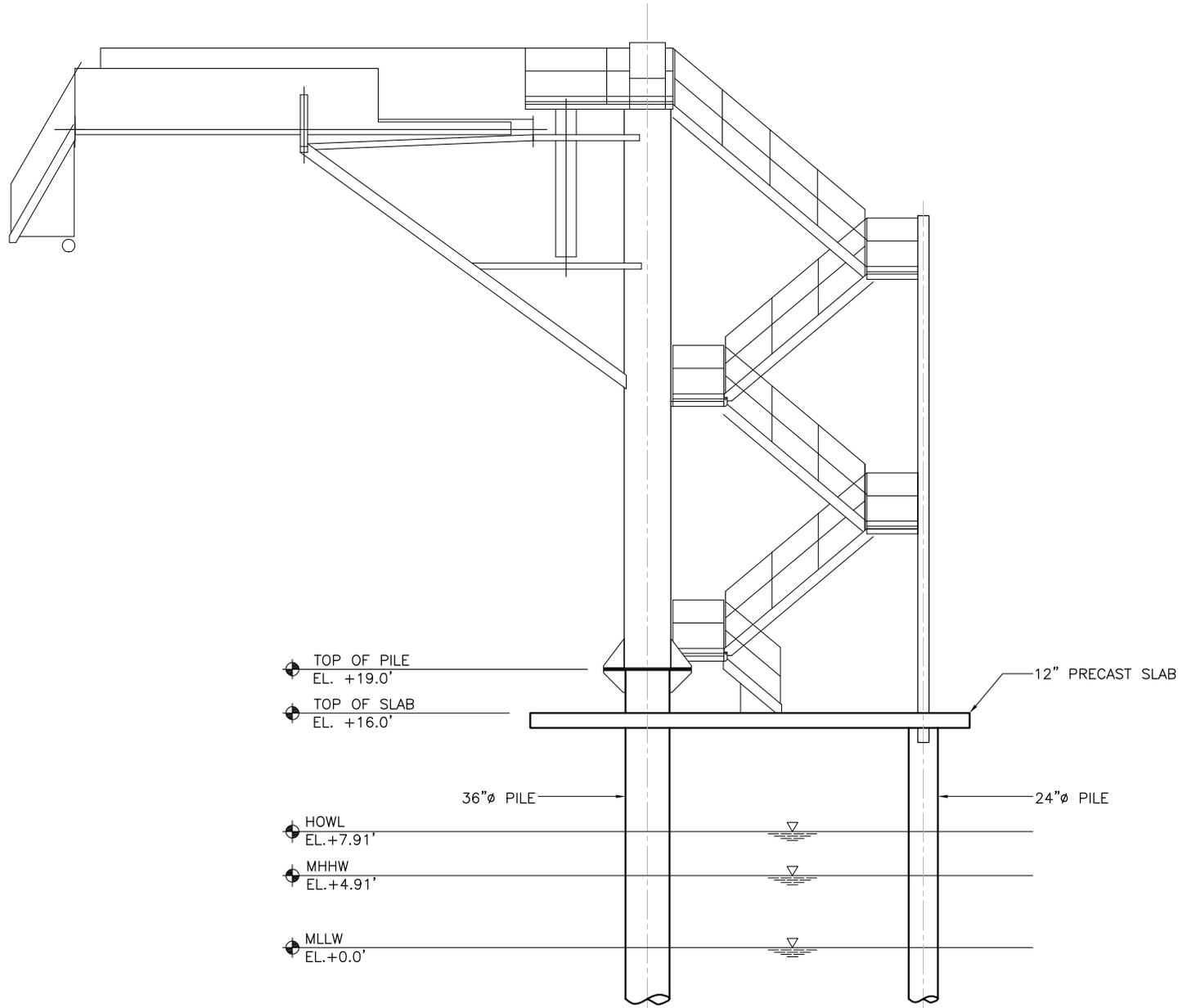
MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

GANGWAY TOWER
PLAN



DATUM	DATE: 2-3-12	SHEET
MLLW	REV:	GT1
		SHEET 17 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG. DATE: 1/30/2012 8:33:38 AM. DRAFTSPERSON: NOEL FORTEZ



1 GANGWAY TOWER ELEVATION
 GT1/GT2 3/32"=1'-0"



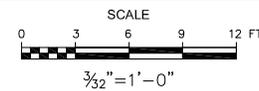
CLIENT:
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 2355 MAIN STREET, SUITE 210,
 IRVINE, CA 92614



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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

GANGWAY TOWER
 ELEVATION



DATUM
 MLLW

DATE: 2-3-12

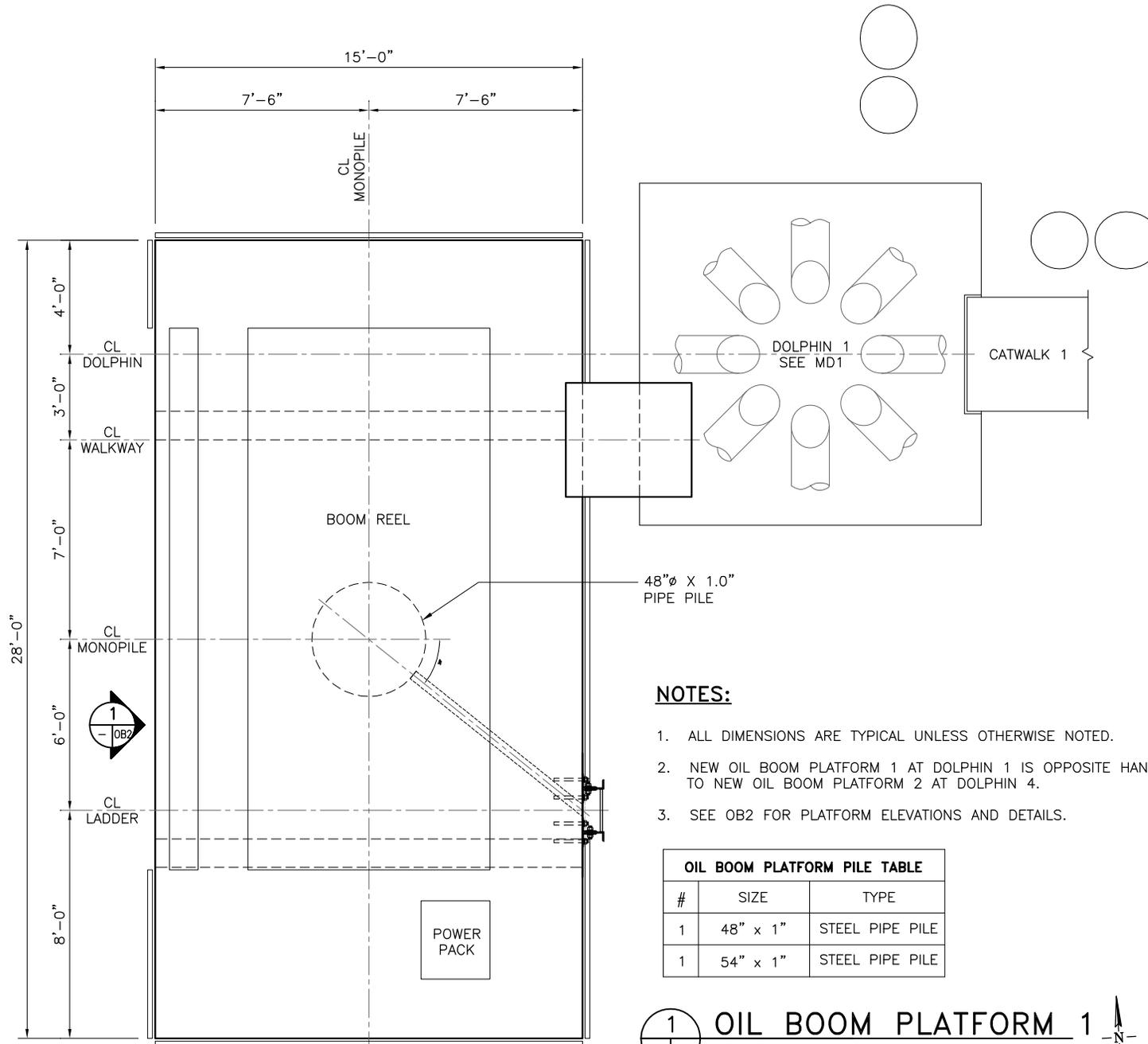
REV:

SHEET

GT2

SHEET 18 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG. DATE: 1/30/2012 8:34:33 AM. DRAFTSPERSON: NOEL FORTEZ

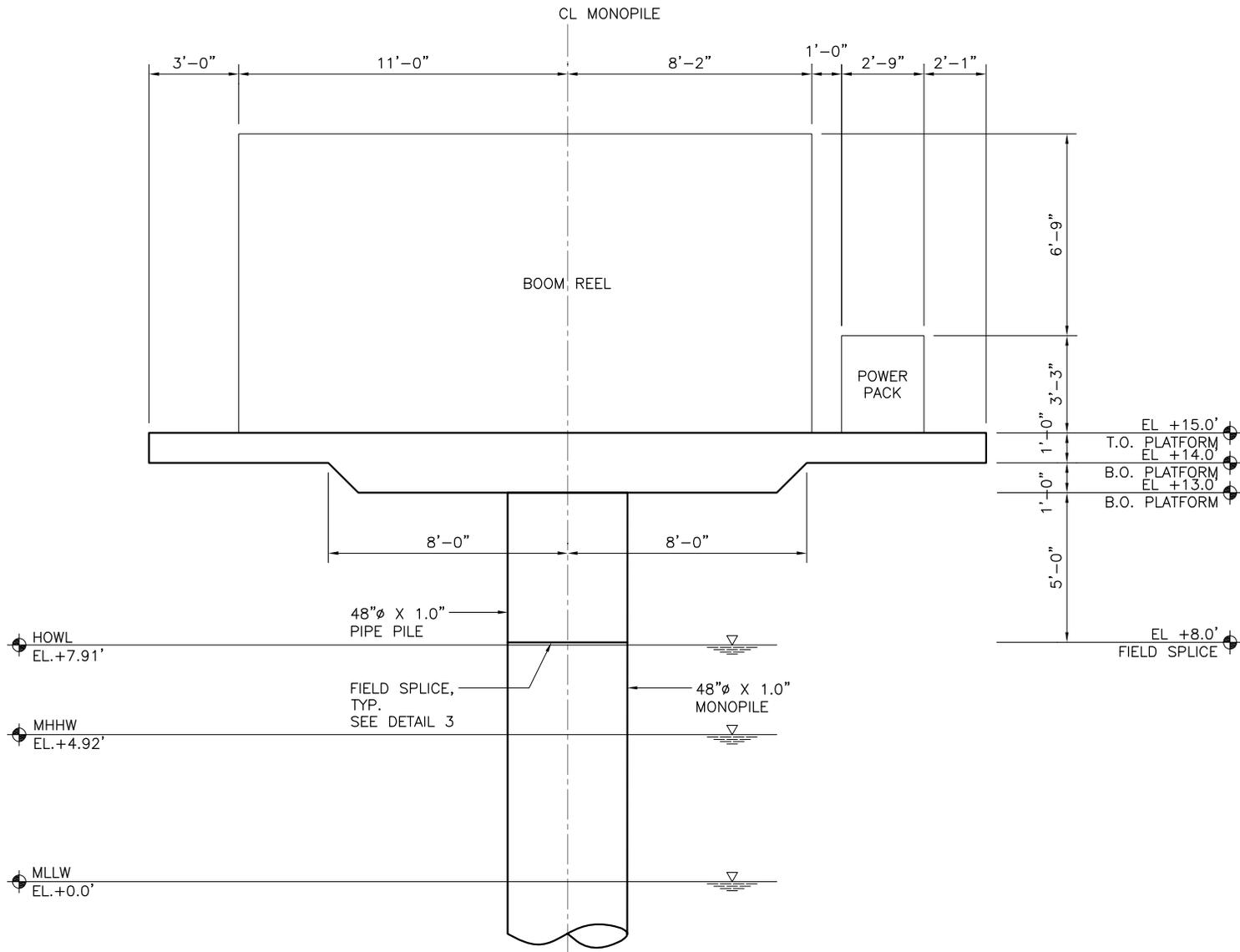


- NOTES:**
1. ALL DIMENSIONS ARE TYPICAL UNLESS OTHERWISE NOTED.
 2. NEW OIL BOOM PLATFORM 1 AT DOLPHIN 1 IS OPPOSITE HAND TO NEW OIL BOOM PLATFORM 2 AT DOLPHIN 4.
 3. SEE OB2 FOR PLATFORM ELEVATIONS AND DETAILS.

OIL BOOM PLATFORM PILE TABLE		
#	SIZE	TYPE
1	48" x 1"	STEEL PIPE PILE
1	54" x 1"	STEEL PIPE PILE

1 OIL BOOM PLATFORM 1
 G4 OB1 3/16" = 1'-0"

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1
OB1|OB2 **ELEVATION**
3/16"=1'-0"

NOTES:

1. PLATFORM 1 SHOWN, PLATFORM 2 OPPOSITE HAND.
2. PILE AT PLATFORM 2 IS 54"Ø X 1.0".



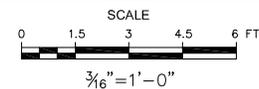
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WesPac Energy-Pittsburg LLC
2355 MAIN STREET, SUITE 210,
IRVINE, CA 92614



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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

OIL BOOM PLATFORM
ELEVATIONS AND DETAILS



DATUM

MLLW

DATE: 2-3-12

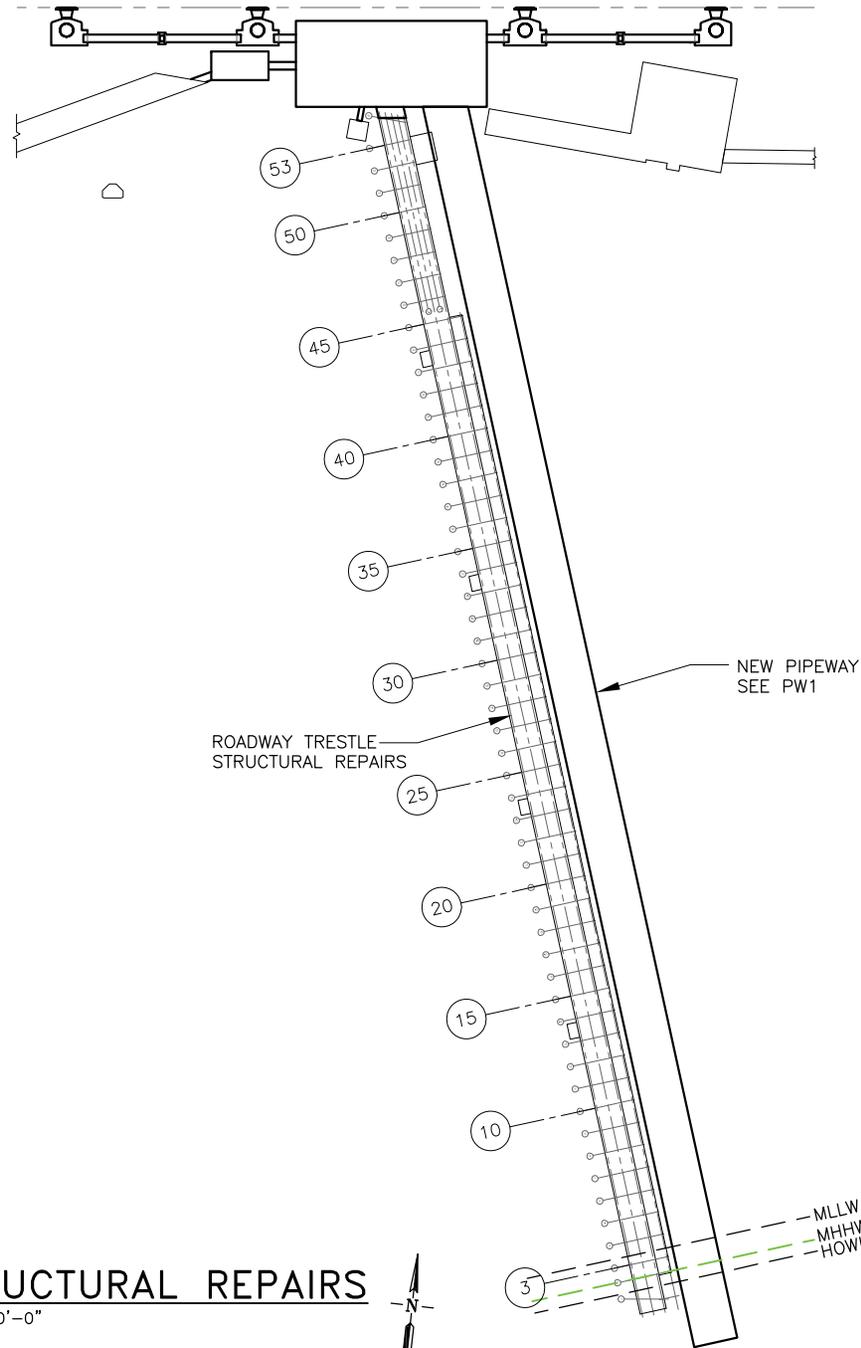
REV:

SHEET

OB2

SHEET 20 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG. DATE: 1/30/2012 11:33:09 AM DRAFTSPERSON: NOEL FORTEZ



REPAIR TYPE	# OF REPAIRS
SLEEVE	20
SISTERS	3
BRACING	17

1 STRUCTURAL REPAIRS
G4 | R1
1"=100'-0"

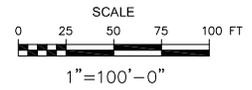


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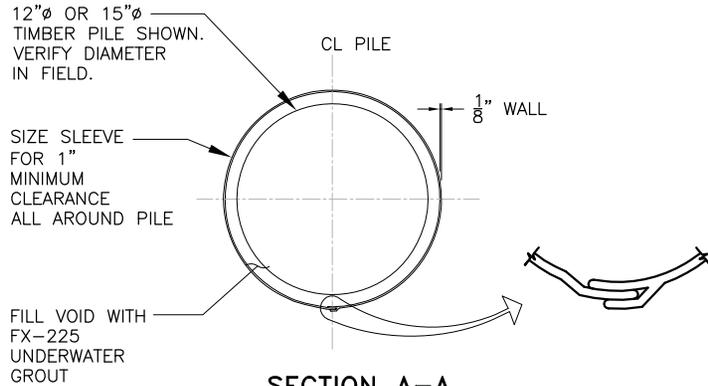
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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS
**STRUCTURAL REPAIRS
ROADWAY TRESTLE PLAN**



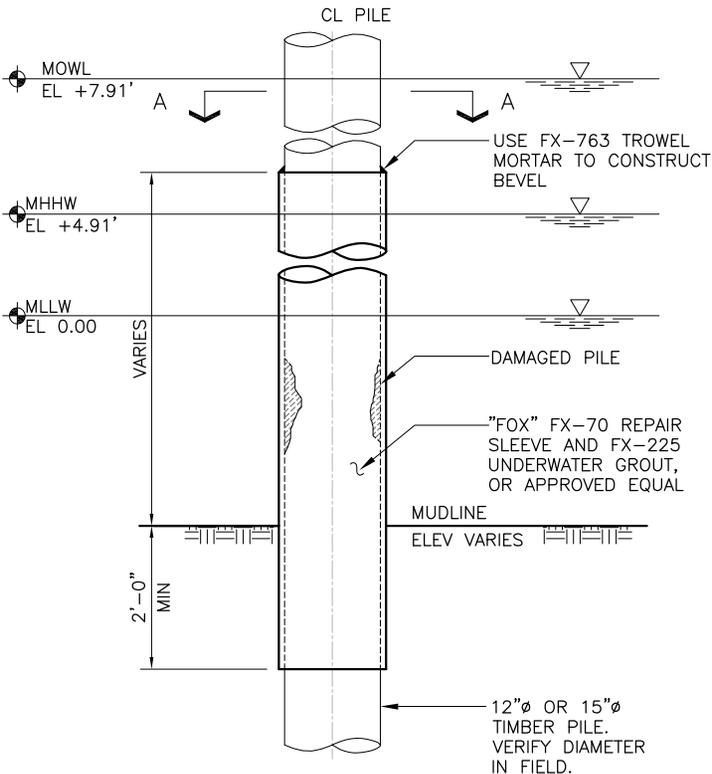
DATUM	DATE: 2-3-12	SHEET
MLLW	REV:	R1
		SHEET 21 OF 22

FILE LOCATION: P:\2011\2011-05\DRWG\12-20-11\PERMIT SET\12-20-11\PERMIT SET.DWG. DATE: 1/30/2012 8:35:34 AM. DRAFTSPERSON: NOEL FORTEZ



SECTION A-A

3/4"=1'-0"

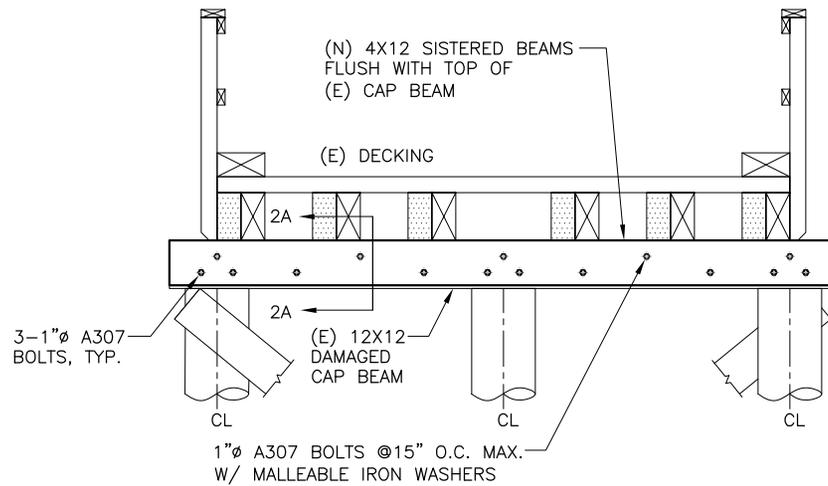


ELEVATION

3/8"=1'-0"

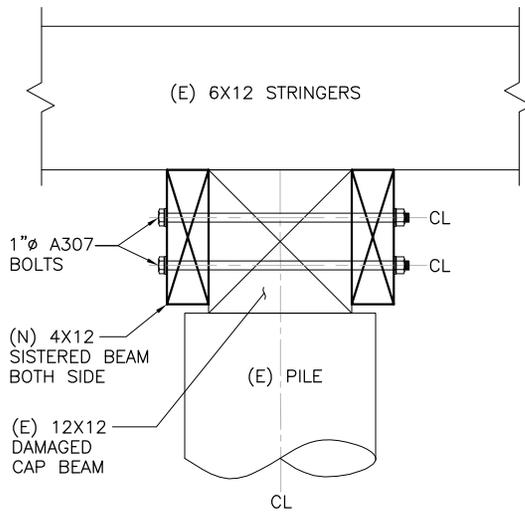
1 **DETAIL** **TIMBER PILE REPAIR: SLEEVE**

- R2



2 **SECTION** **SISTERED CAP REPAIR**

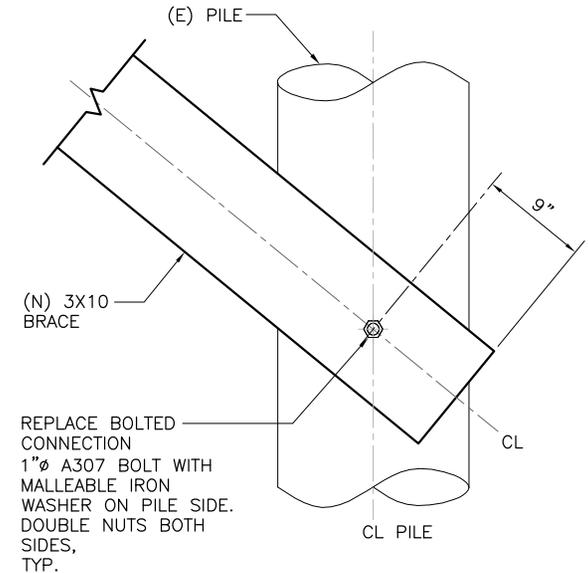
1/4"=1'-0"



2A **DETAIL**

3/4"=1'-0"

- R2



**TYP. PILE BRACE 1"Ø
BOLTED CONNECTION**

3 **DETAIL**

3/4"=1'-0"

- R2



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MARINE TERMINAL REACTIVATION - PERMIT DRAWINGS

STRUCTURAL REPAIRS
ROADWAY TRESTLE DETAILS

SCALE
AS NOTED

DATUM DATE: 2-3-12 SHEET

MLLW REV: **R2**

SHEET 22 OF 22