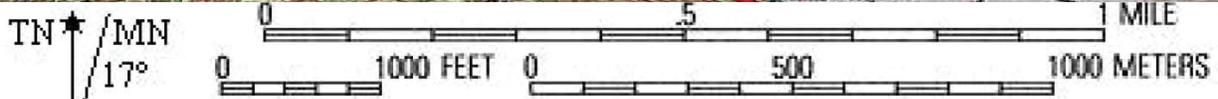
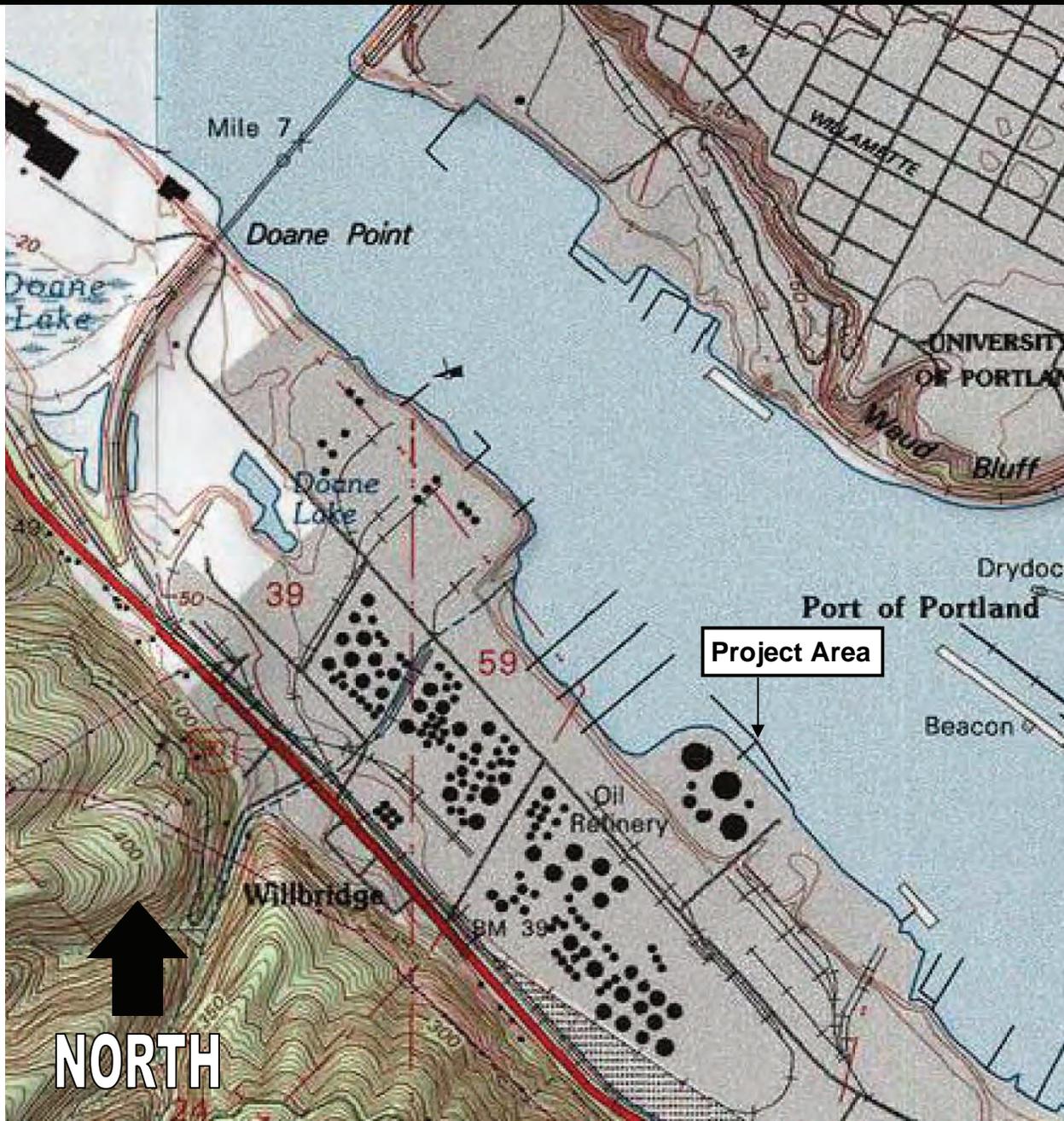


Map 1. USGS Topographic Map 7.5 minute series , Portland OR

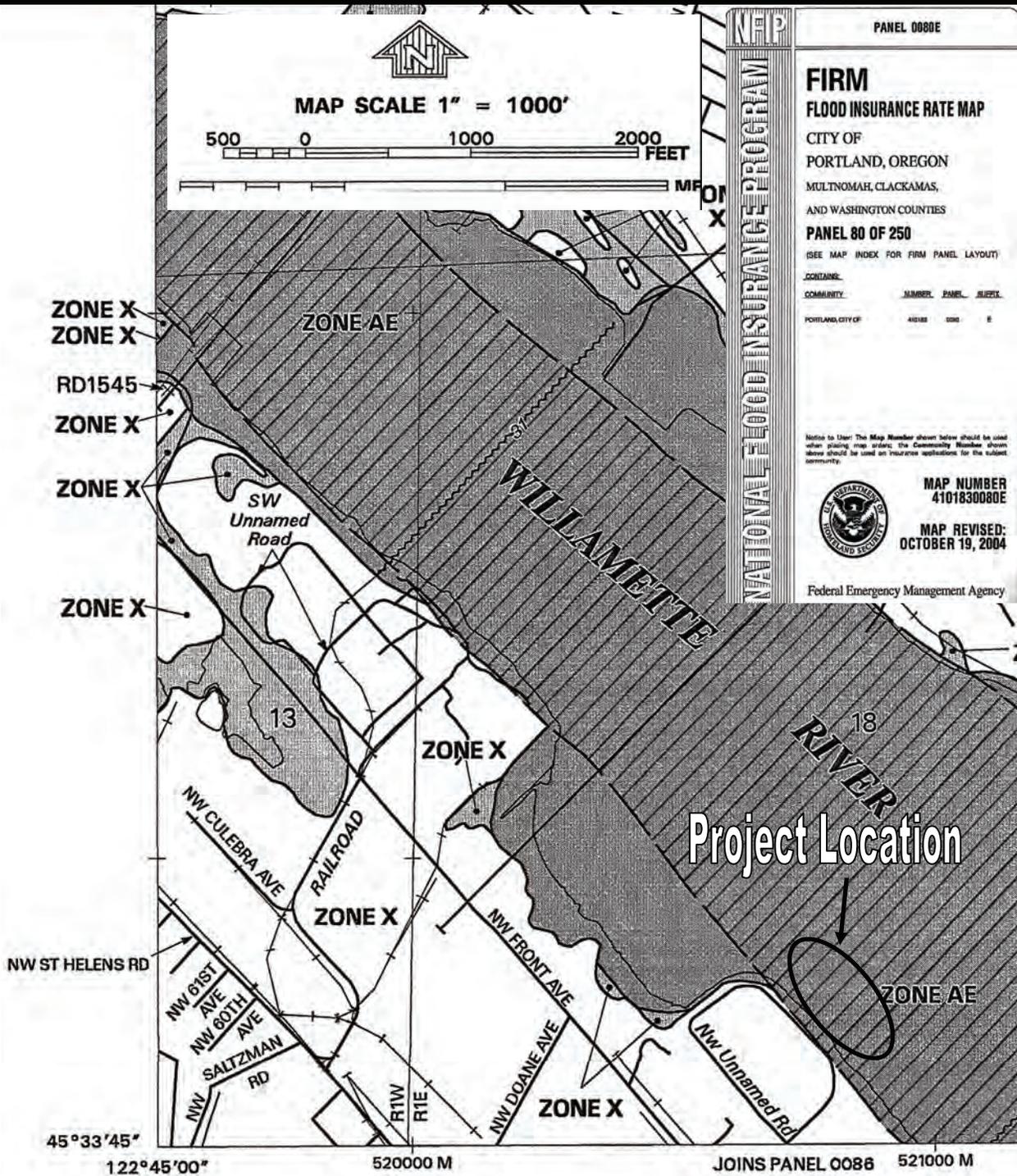


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Client: McCall Oil & Chemical Corp.
Date: June 22, 2011
Vicinity Map, USGS TOPO Image
Portland, Oregon
5480 NW Front Ave. Portland, OR 97210
N 45.5617° W 122.7363°

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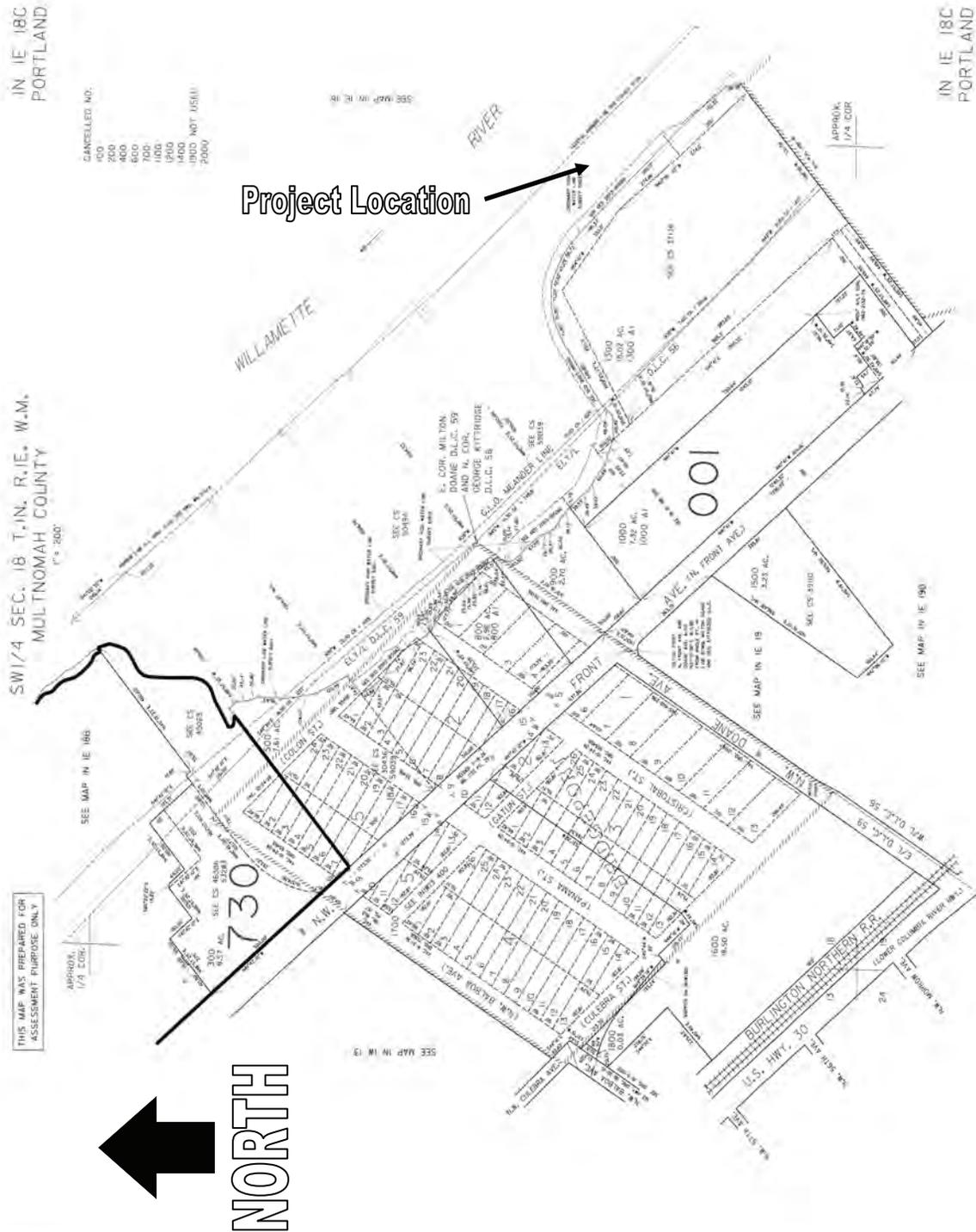
Map 2. FEMA FIRMette Floodplain Map. Portland, OR.



Client: McCall Oil & Chemical Corp
 Date: June 22, 2011
 FIRMette, Multnomah County
 Portland, Oregon
 5480 NW Front Ave. Portland, OR 97210
 N 45.5617° W 122.7363°

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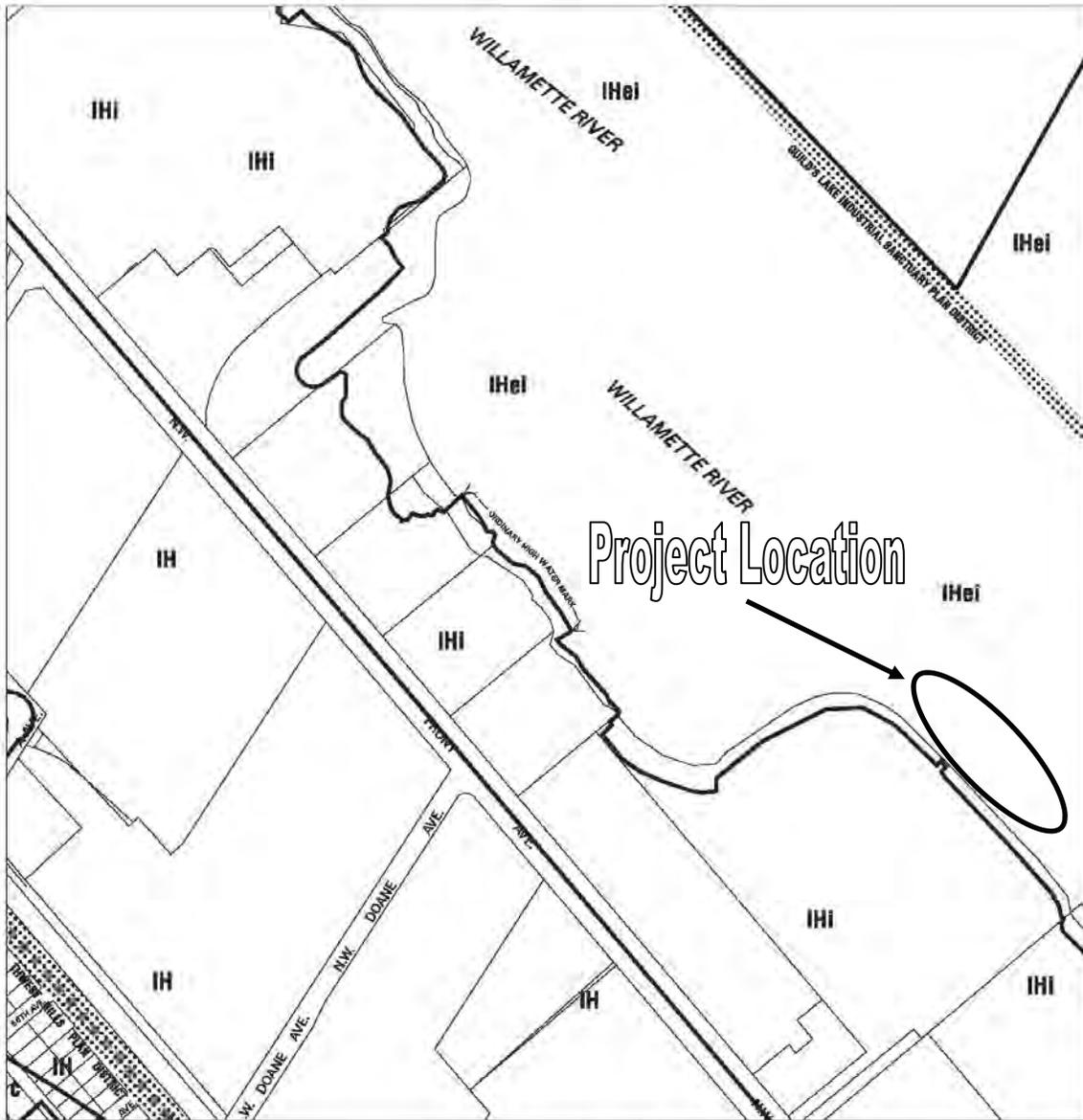
Map 3. Multnomah County Tax Parcel Map (Oregon Trail).



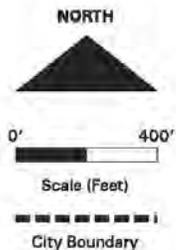
Client: McCall Oil & Chemical Corp
Date: June 22, 2011
Tax Lot Map, Multnomah County
Portland, Oregon
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Map 4. Zoning Code River Plan Volume 1B part 2B.



River Plan/North Reach Proposed Zoning Bureau of Planning - City of Portland, Oregon



- i = River Industrial Zone
- g* = River General Zone
- r* = River Recreational Zone
- e = River Environmental Zone

November, 2009

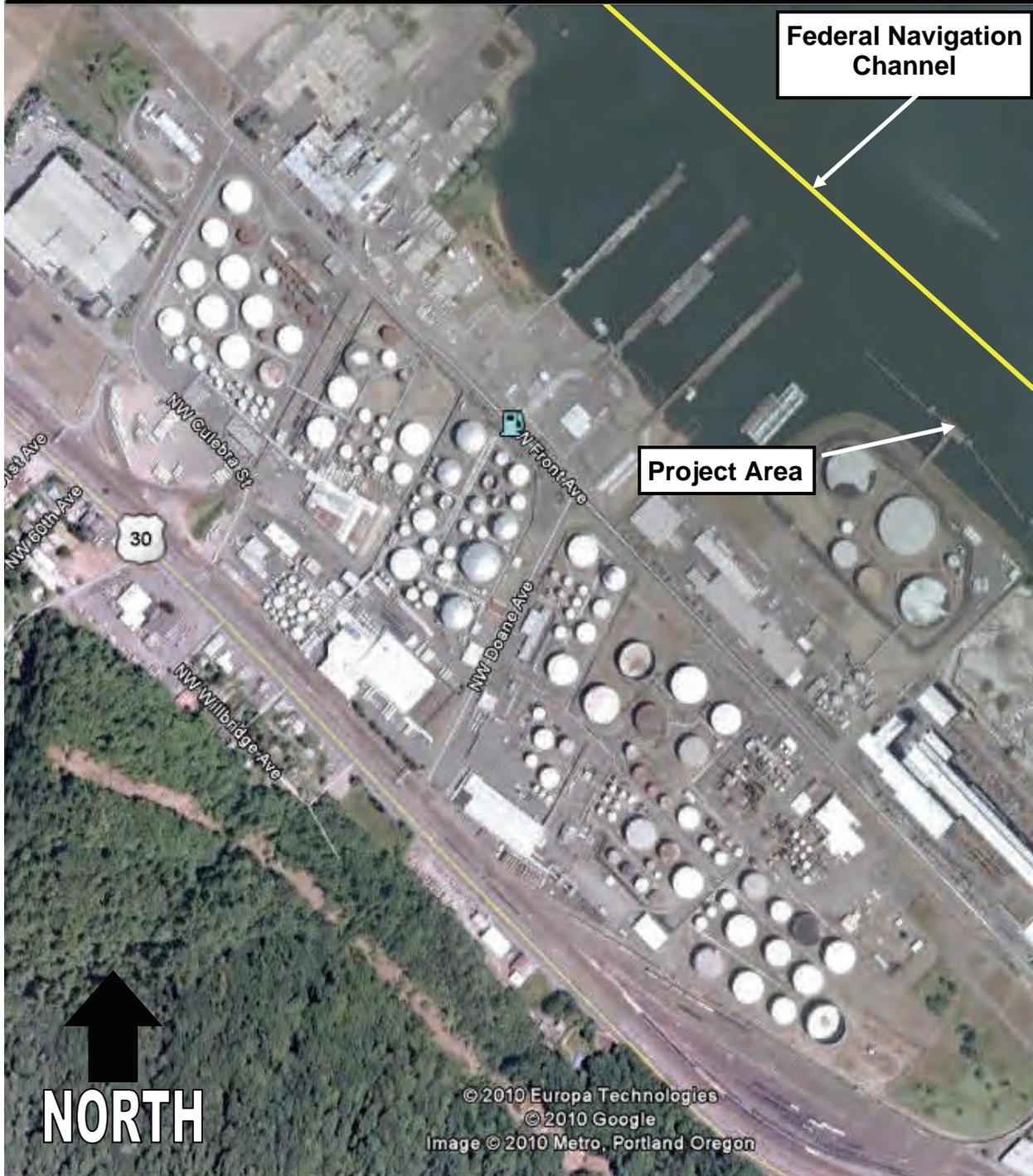
- c = Environmental Conservation Overlay
- p = Environmental Protection Overlay
- *** Public Trail
- > Ordinary High Water Mark (O.H.W.M.)
= area between arrows

Map 1/4 Section 2423

Client: McCall Oil & Chemical Corp
Date: June 22, 2011
Zoning Code River Plan
Portland, Oregon
5480 NW Front Ave. Portland, OR 97210
N 45.5617° W 122.7363°

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Map 5. Google Earth Image. Portland, OR



Federal Navigation Channel

Project Area


NORTH

Client: McCall Oil & Chemical Corp
Date: June 22, 2011
Vicinity Map, Google Earth Image
Portland, Oregon
5480 NW Front Ave. Portland, OR 97210
N 45.5617° W 122.7363°

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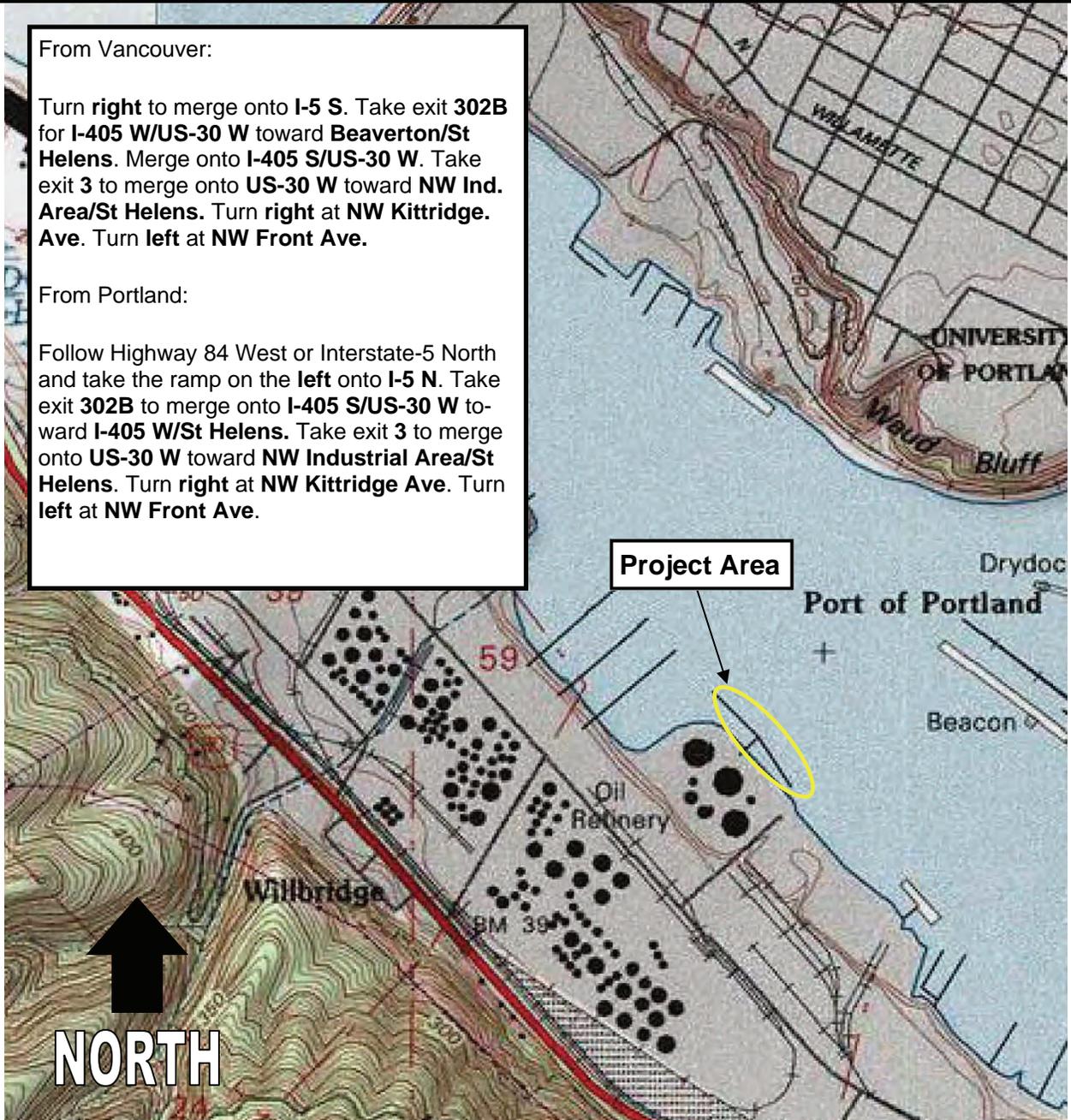
Map 6. USGS TOPO, Portland Oregon Driving Directions Map

From Vancouver:

Turn **right** to merge onto **I-5 S**. Take exit **302B** for **I-405 W/US-30 W** toward **Beaverton/St Helens**. Merge onto **I-405 S/US-30 W**. Take exit **3** to merge onto **US-30 W** toward **NW Ind. Area/St Helens**. Turn **right** at **NW Kittridge Ave.** Turn **left** at **NW Front Ave.**

From Portland:

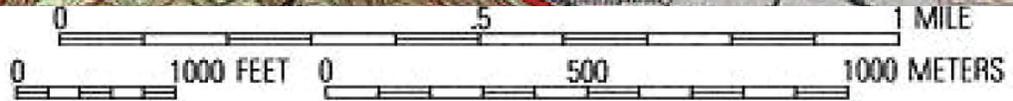
Follow Highway 84 West or Interstate-5 North and take the ramp on the **left** onto **I-5 N**. Take exit **302B** to merge onto **I-405 S/US-30 W** toward **I-405 W/St Helens**. Take exit **3** to merge onto **US-30 W** toward **NW Industrial Area/St Helens**. Turn **right** at **NW Kittridge Ave.** Turn **left** at **NW Front Ave.**



Project Area

NORTH

TN 17° MN

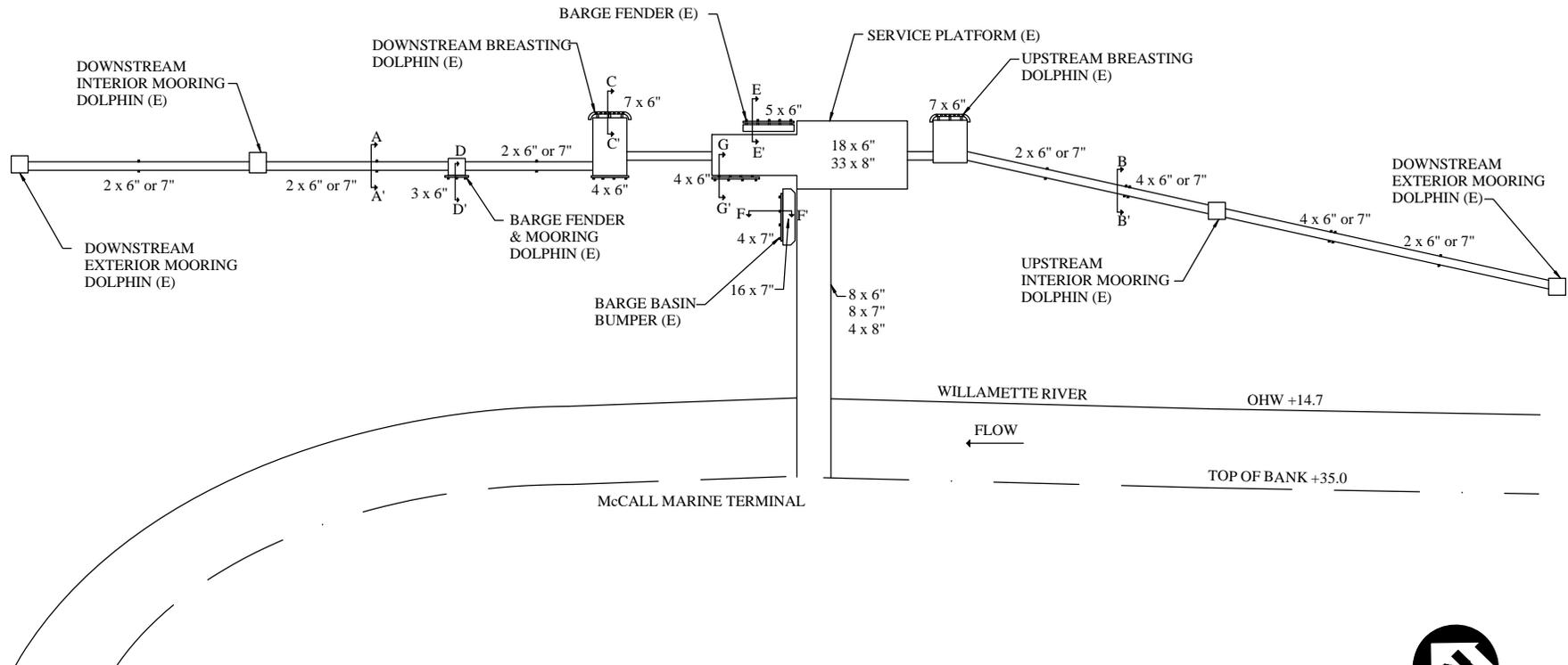


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Client: McCall Oil & Chemical Corp
 Date: June 22, 2011
 Driving Directions Map
 Portland, Oregon
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 N 45.5617° W 122.7363°

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Figure 1. McCall Oil Dock Plan View



TIMBER PILE INVENTORY

37	8-in dia. tip
28	7-in dia. tip
56	6-in dia. tip
18	6-in or 7-in dia. tip*

*If longer than 90 feet then use 6-in dia., otherwise use 7-in dia.



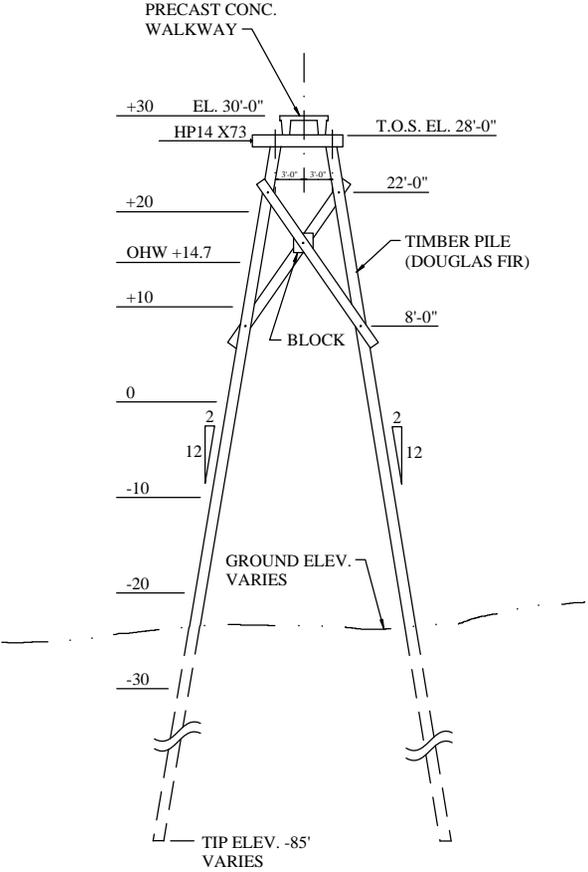
SCALE

1" = 100'



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Figure 2: Section A - A' - Typical 2-Pile Bent



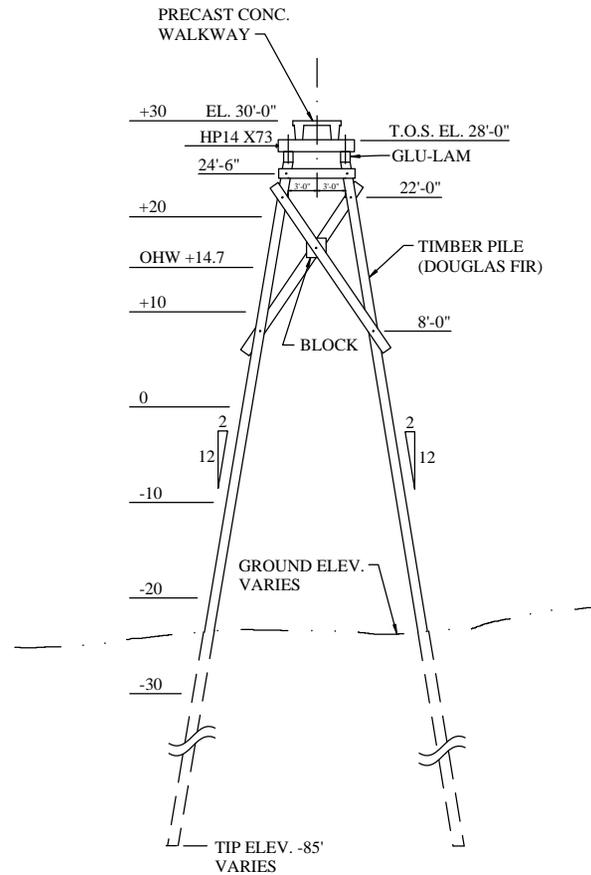
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 Project: Fender Piling Repair
 Drawing revised by: Marc Kendall
 Revision date: 06/23/2011

NOT TO SCALE
 Typical

Notes:

Figure 3: Section B - B' - Typical 4-Pile Bent



SCALE
1" = 20'



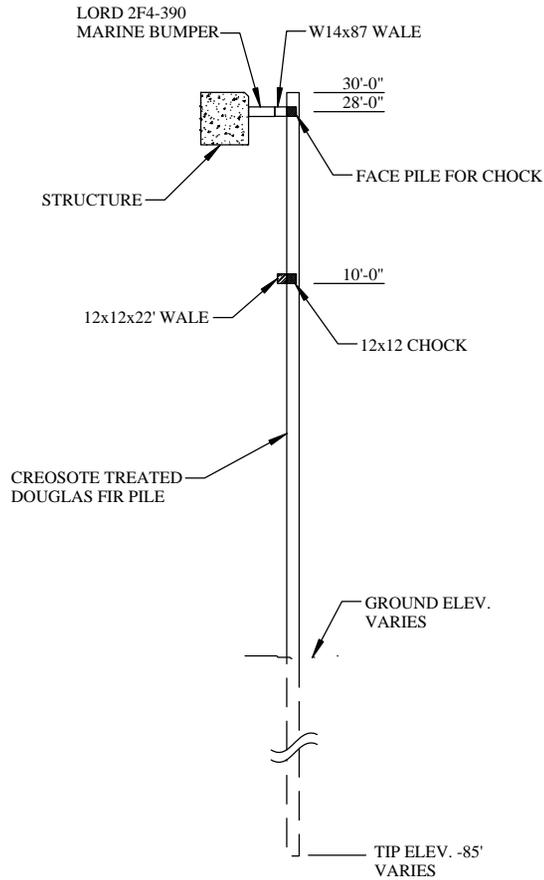
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NOT TO SCALE
Typical

Notes:

Figure 4: Section C-C' - Fender Pile



SCALE
1" = 20'



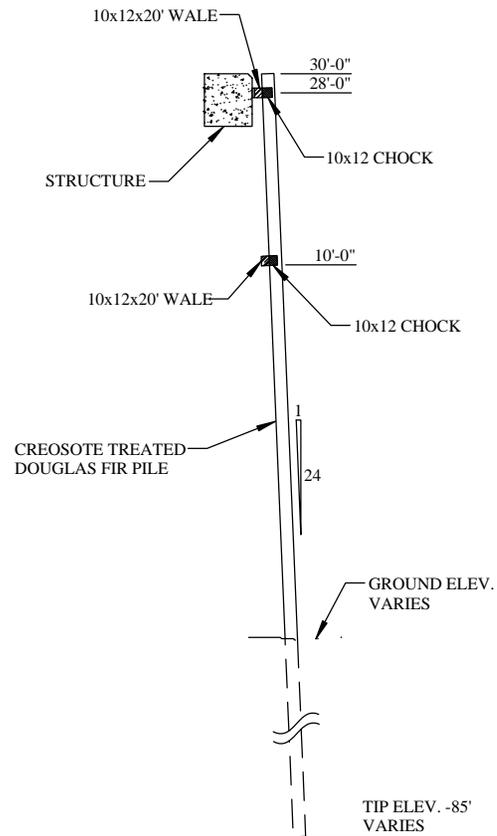
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Revision date: 06/23/2011

NOT TO SCALE
Typical

Notes: Fender pile for Upstream and Downstream breasting dolphins.

Figure 5: Section D-D' - Fender Pile



SCALE
1" = 20'



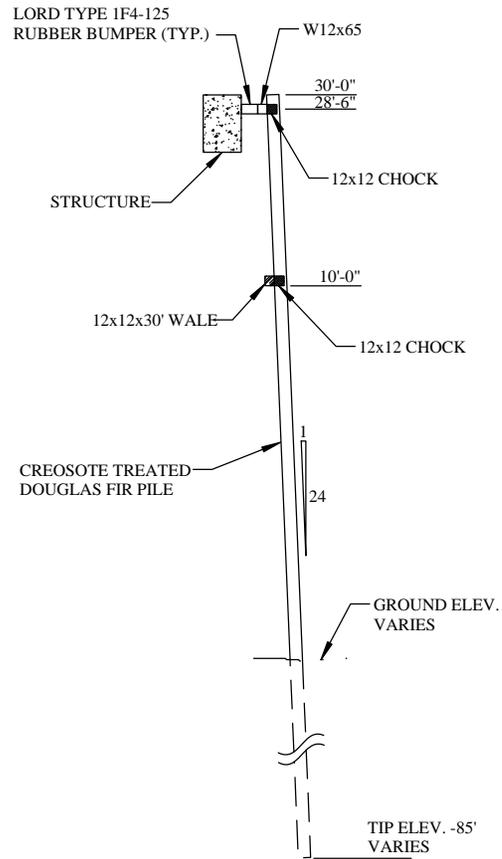
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NOT TO SCALE
Typical

Notes: Typical pile section for barge fender on downstream mooring dolphin and downstream breasting dolphin.

Figure 6: Section E-E' - Fender Pile



SCALE
1" = 20'



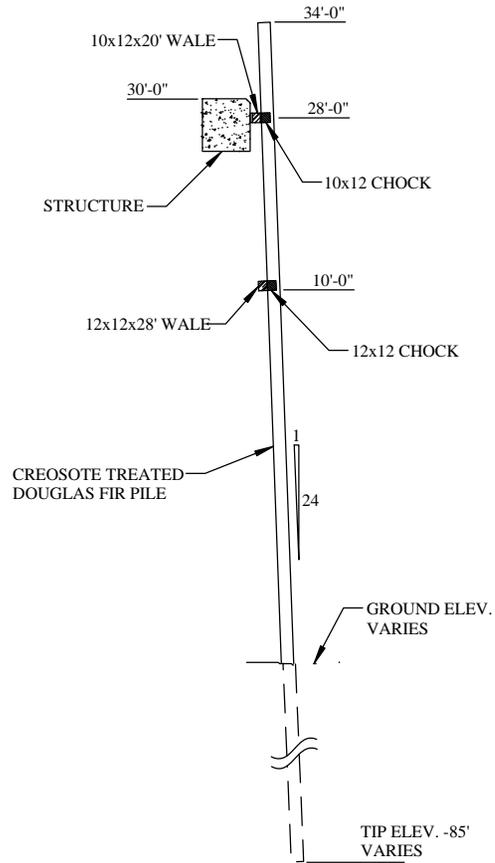
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Revision date: 06/23/2011

NOT TO SCALE
Typical

Notes: Typical pile section for barge fender.

Figure 7: Section F-F' - Fender Pile



SCALE
1" = 20'



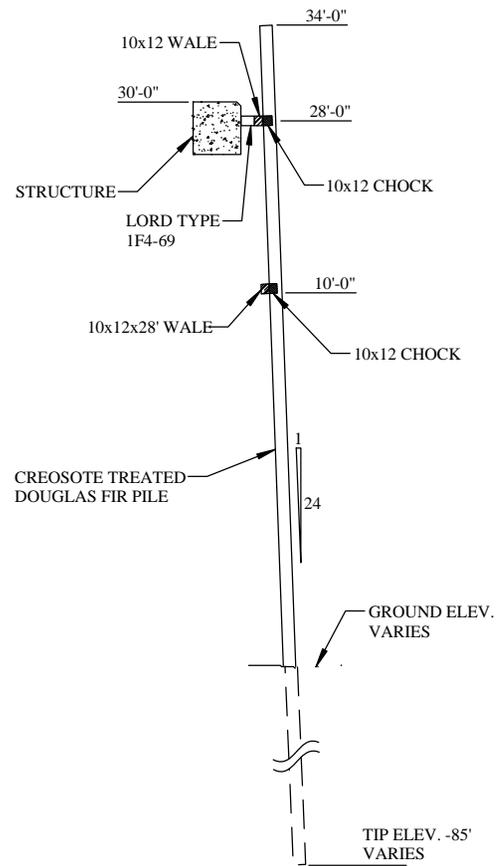
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NOT TO SCALE
Typical

Notes: Typical pile on barge basin bumper.

Figure 8: Section G-G' - Fender Pile



SCALE
1" = 20'



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Revision date: 06/23/2011

NOT TO SCALE
Typical

Notes: Typical pile section for barge fender on interior of service platform.