US Army Corps of Engineers
Seattle District

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone: (206) 764-6904
ATTN: Pamela Sanguinetti,
Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone: (360) 407-6068
ATTN: SEA Program,
Federal Permit Coordinator

Public Notice Date: March 18, 2014
Expiration Date: April 17, 2014

Reference No.: NWS-2013-1129
Name: Port Angeles, Port of

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings dated January 9, 2014.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: Port of Port Angeles (Port)
Attention: Jesse Waknitz, Environmental Specialist
P.O. Box 1350
Port Angeles, Washington 98362
Telephone: (360) 417-3452

AGENT: Berger/ABAM
Attention: Ms. Sally L. Fisher
33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
Telephone: (206) 431-2300

LOCATION: In Port Angeles Harbor, Port Angeles, Washington.

WORK: The Port is proposing to conduct maintenance activities at five terminals (Terminals 1, 3, 4, 5, and 7), the Port Angeles Boat Haven marina (marina), and selected log rafting areas located in the nearshore area for the next 10 years. The activities will repair/upgrade aging structures (e.g., piers, log rafting pockets, dolphins, bulkhead, breakwater, and boat ramp). The proposed action also includes related activities including geotechnical explorations and borings.

NWS-2013-1129, Port Angeles, Port of

In summary the following maintenance and upgrade activities are proposed:

Terminal 1: Replace 60 timber fender piles with 12-inch steel piles with rubber arch fenders and steel wales. Replace 262 creosote-treated structural piles with 12-inch steel piles. Demolish two existing breasting dolphins and replace with one dolphin including a grated access gangway supported on two 24-inch diameter concrete piles. At headline dolphin, replace 8 creosote-treated piles with 12-inch steel piles, repair piles, replace dolphin deck with pre-cast concrete decking, and install new grated access walkway supported with two 24-inch diameter concrete piles. At bulkhead, repair creosote-treated timber with ACZA-treated timber. Maintain and lengthen fire skirts using ACZA-treated timber and upgrade water, fire suppression and electrical utilities. Demolish and repair sections of deck and demolish existing warehouse (see description in cultural resources below).

Terminal 3: Replace 20 creosote-treated piles with 12-inch diameter steel piles. Install a new concrete headline dolphin with twenty 24-inch concrete piles and a grated access gangway supported with two 24-inch concrete piles.

Terminal 4: Replace 20 creosote-treated piles with 12-inch diameter steel piles.

Terminal 5: Replace 50 creosote-treated piles with 12-inch diameter steel piles.

Terminal 7: At the rafting pockets, replace 18 untreated and creosote-treated piles with 30-inch steel piles.

Boat Haven Marina: At the boat ramp, replace surface, gangways, and add rip-rap stabilization. About 200 cubic yards (cy) of existing sand/silt substrate will be excavated from above the mean higher high water mark at the site. About 220 cy of clean base material and 170 cy of clean rip-rap will be used to support the ramp wing walls. At breakwater and finger piers, replace 80 creosote-treated timbers and piles with eighty 12-inch steel piles and 10 finger pier guide piles and reposition rip-rap back onto the breakwater. At log rafting pocket, replace and repair as needed up to 20 untreated and creosote-treated timber piles with twenty 30-inch steel piles.

PURPOSE: To maintain safe and secure structures that support marine activities in Port Angeles Harbor, such as loading and unloading cargo ships, berthing, log handling, and marine access and moorage for recreational and commercial boats.

ADDITIONAL INFORMATION: The work would occur as needed over the next 10-year period.

Copies of this public notice which have been mailed or otherwise physically distributed feature project drawings in black and white. The electronic version features those drawings in color, which we think more accurately communicates the scope of project impacts. To access the electronic version of this public notice, go to the Seattle District's web page at http://www.nws.usace.army.mil/ and under the heading Open Public Comment Periods select Regulatory Public Notices. Recently-issued public notices are listed in chronological order of the date of issuance. Select and view the listing for this project.

MITIGATION: The Port has proposed mitigation consisting of removal of an existing derelict structure at Terminal 6 (2500 square feet of decking and 30 creosote-treated piles), additional creosote pile removal at several Port terminals, and clean-up of debris in Port Angeles Harbor.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service pursuant to Section 7 of the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. After receipt of comments from this public notice, the Corps will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would impact EFH in the project area. If the Corps determines that the proposed action may adversely affect EFH for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

CULTURAL RESOURCES: The Corps has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. An investigation for the presence of eligible historic properties determined the permit area is likely to contain historic properties eligible for inclusion in the National Register. The individual terminals and piers were built between 1912 and 1950. The transit shed on Terminal 1, constructed in 1926 as the Port's first development and historically referred to as the freight house, is proposed to be demolished. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, as appropriate.

EVALUATION – CORPS: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

The described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the United States.

SOURCE OF FILL MATERIAL: The source of the fill material will be a certified supplier of clean base material and rip rap.

EVALUATION – ECOLOGY: Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

Some activities associated with this proposal are the subject of Shorelines Substantial Development Permit, being processed by the City of Port Angeles.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentator's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

CORPS COMMENTS: All e-mail comments should be sent to pamela.sanguinetti@usace.army.mil. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Ms. Pamela Sanguinetti, P.O. Box 3755, Seattle, Washington 98124-3755. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act including any personally identifiable information such as names, phone numbers, and addresses.

ECOLOGY COMMENTS: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Washington State Department of Ecology, Attention: Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600, or e-mail to ecyrefedpermits@ecy.wa.gov.

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Port Angeles, Port of; NWS-2013-1129

Encl: Figures (30)

Drawings prepared for JARPA and incorporated into SEPA Checklist

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KEY MAP

SHEET NO.	DRAWING TITLE
1	VICINITY MAP
2	PORT PLAN
3	TERMINAL 1 SITE PLAN
4	TERMINAL 1 TYPICAL SECTION
5	TERMINAL 1 WAREHOUSE DEMOLITION
6	PILE REPLACEMENT DETAIL
7	PILE POST REPAIR DETAIL
8	FENDER PILE REPLACEMENT DETAIL
9	NEW BREASTING DOLPHIN AT T-1
10	ELEVATION - NEW BREASTING DOLPHIN AT T-1
11	TERMINAL 3 SITE PLAN
12	NEW HEADLINE DOLPHIN AT T-3
13	ELEVATION - NEW HEADLINE DOLPHIN
14	TERMINAL 4 SITE PLAN
15	BOAT HAVEN RAMP SITE PLAN
16	ELEVATION - BOAT RAMP
17	BOAT HAVEN BREAKWATER SITE PLAN
18	BREAKWATER PHOTO
19	LOG RAFTING SITE PLAN AT BOAT HAVEN
20	TERMINAL 7 SITE PLAN
21	TERMINAL 5 SITE PLAN
22	MITIGATION PLAN
23	TERMINAL 4 MITIGATION AREA
24	TERMINAL 1 MITIGATION AREA
25	TERMINAL 3 MITIGATION AREA
26	LOG RAFTING MITIGATION AREA
27	BOAT HAVEN MITIGATION AREA
28	TERMINAL 5 MITIGATION AREA
29	TERMINAL 6 MITIGATION AREA
30	ACTION AREA

DRAWING LIST

ABBREVIATIONS
Ø = DIAMETER
ACP = ASPHALTIC CONCRETE PAVEMENT
CY = CUBIC YARDS
SF = SQUARE FEET
SHT = SHEET
TYP = TYPICAL

VICINITY MAP
NOT TO SCALE

NWS-2013-1129

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 1
VICINITY MAP

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 1 OF 30

Last Saved by: Jason.mendenhall on Jan 9, 2014 2:02 PM File: Q:\FederalWay\2014\A14.0049\CADD\Dwgs\Permit_Set\01_PS-01.dwg

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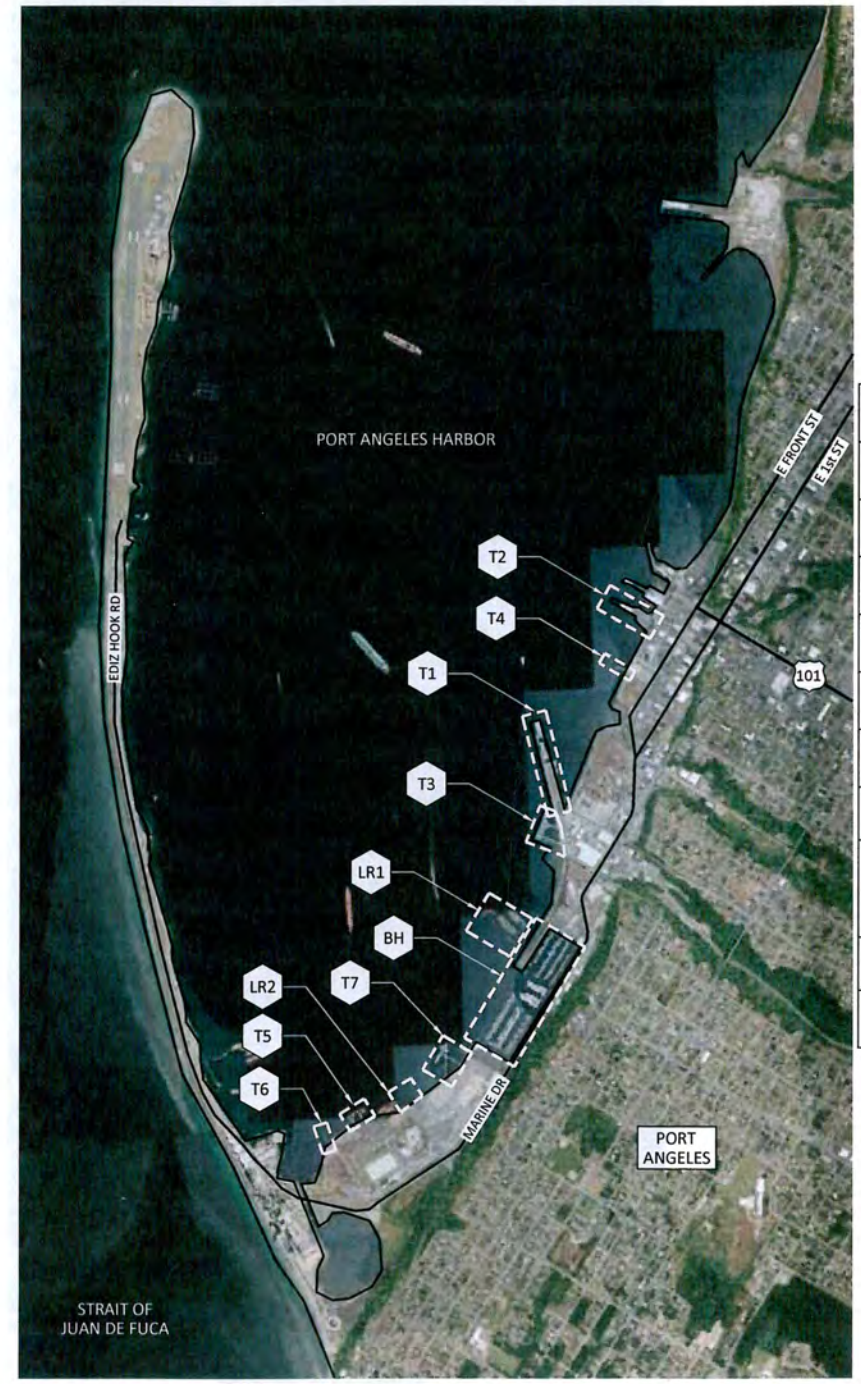

KEY NO.	FACILITY	LATITUDE	LONGITUDE
T1	TERMINAL 1, SEE SHEET 3	48° 7' 30"	123° 26' 25"
T2	TERMINAL 2	48° 7' 18"	123° 25' 52"
T3	TERMINAL 3, SEE SHEET 11	48° 7' 30"	123° 26' 39"
T4	TERMINAL 4, SEE SHEET 14	48° 7' 19.50"	123°26' 4.50"
T5	TERMINAL 5	48° 7' 56.50"	123° 27' 38.50"
T6	TERMINAL 6	48° 8' 1"	123° 27' 43.50"
T7	TERMINAL 7, SEE SHEET 20	48° 7' 43.50"	123° 27' 27"
BH	BOAT HAVEN, SEE SHEET 15 BOAT RAMP, SEE SHEET 16	48° 7' 33"	123° 27' 13"
LR1	LOG RAFTING, SEE SHEET 19	48° 7' 35"	123° 26' 58"
LR2	LOG RAFTING AT T-7, SEE SHEET 20	48° 7' 49"	123° 27' 32"

PORT PLAN
NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 2
PORT PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 2 OF 30

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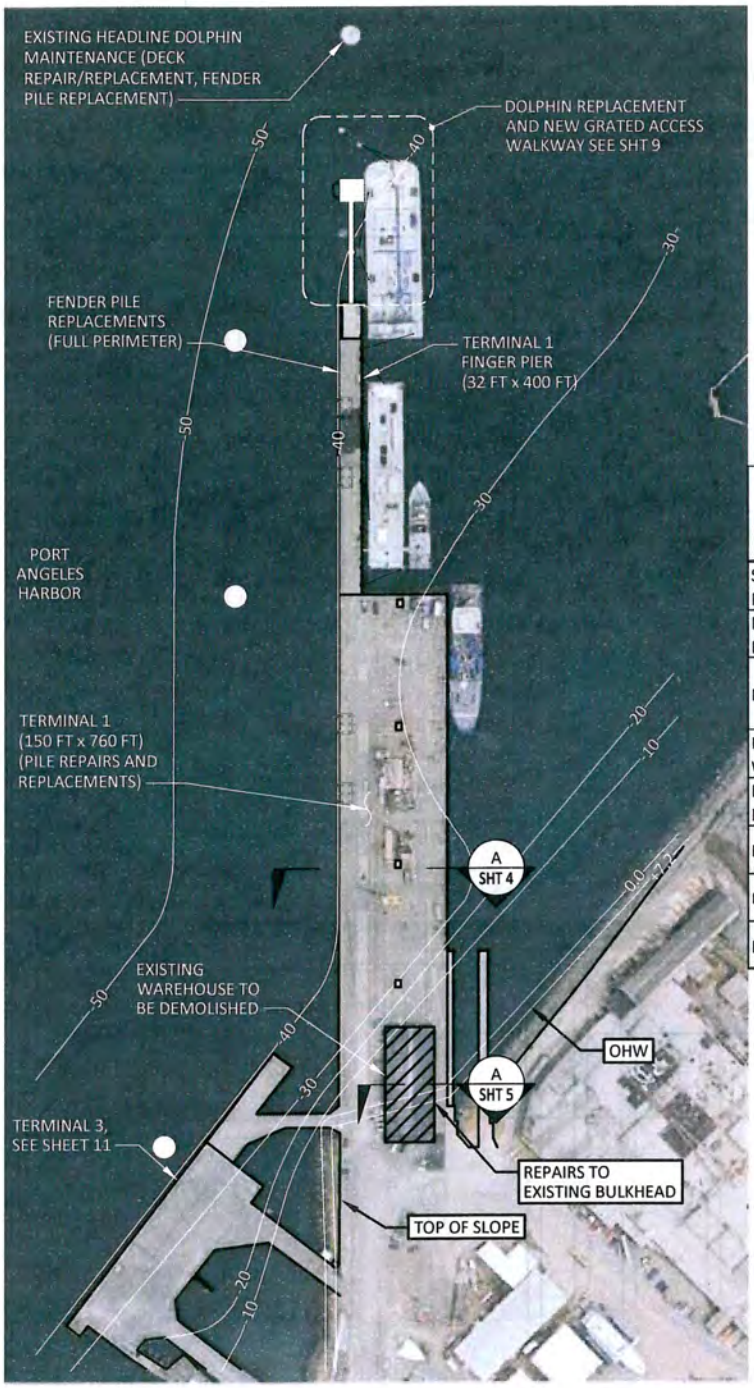

ACTIVITY	# PILES	PILE SIZE & TYPE	APPROXIMATE OVER WATER COVERAGE	REFERENCE SHEET
STRUCTURAL PILE REPAIRS/REPLACEMENTS	262	12"Ø STEEL PIPE	NA	6 & 7
FENDER PILE REPLACEMENTS	60	12"Ø STEEL PIPE	NA	8
NEW BREASTING DOLPHIN	31	24" OCTAGONAL CONCRETE & 12"Ø STEEL PIPE	950 SF	9
NEW GRATED ACCESS WALKWAY	2	24" OCTAGONAL CONCRETE	750 SF	9
EXISTING BREASTING DOLPHIN REMOVAL	88	14"Ø TIMBER	-170 SF	-
FIRE SKIRT EXTENSION	NA	NA	NA	-
UTILITY MAINTENANCE	NA	NA	NA	-
BULKHEAD REPAIRS	NA	NA	NA	-

TERMINAL 1 - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 3
TERMINAL 1 SITE PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 3 OF 30

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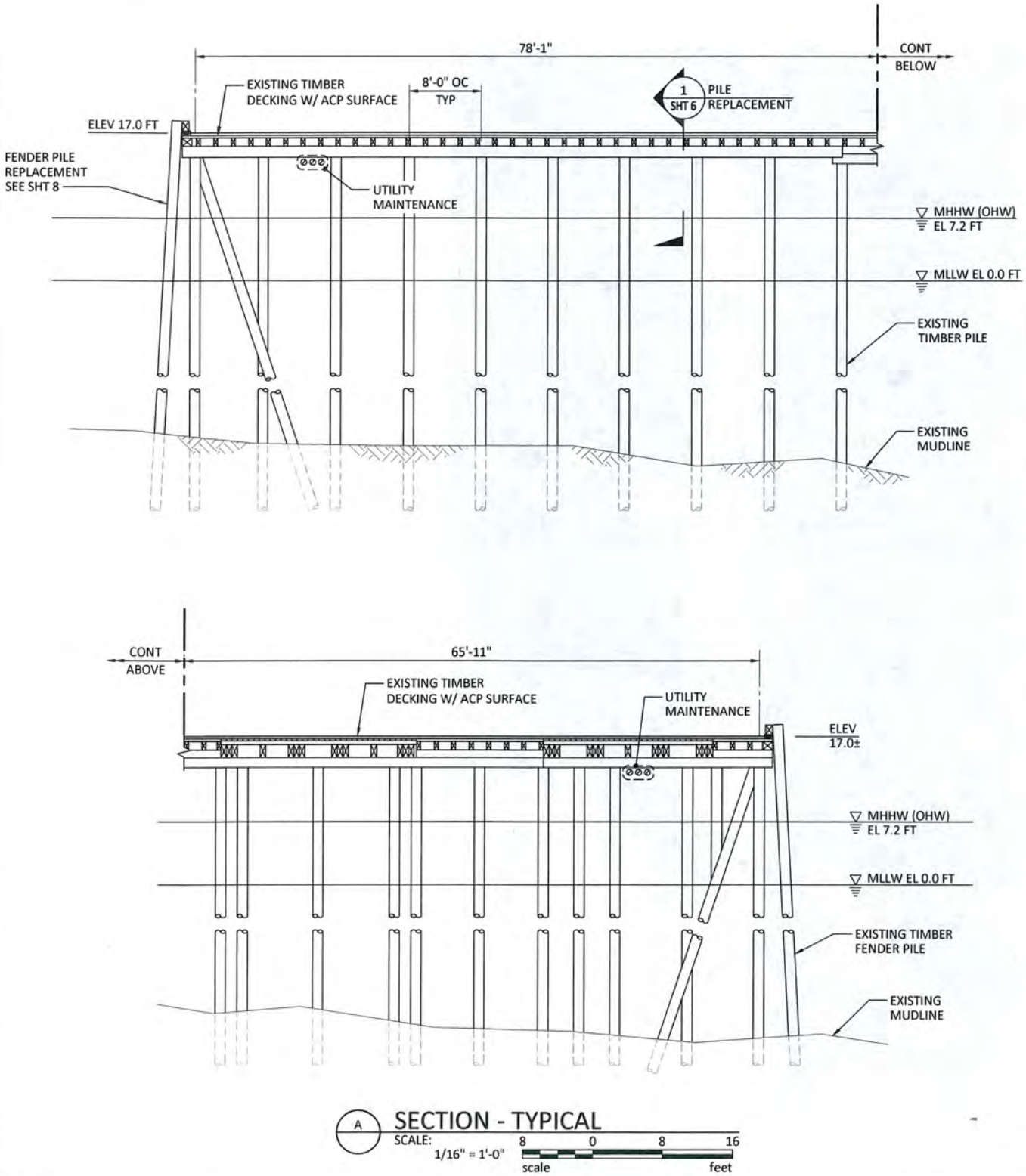

A SECTION - TYPICAL

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

8 0 8 16
scale feet

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 4
TERMINAL 1 TYPICAL SECTION

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 4 OF 30

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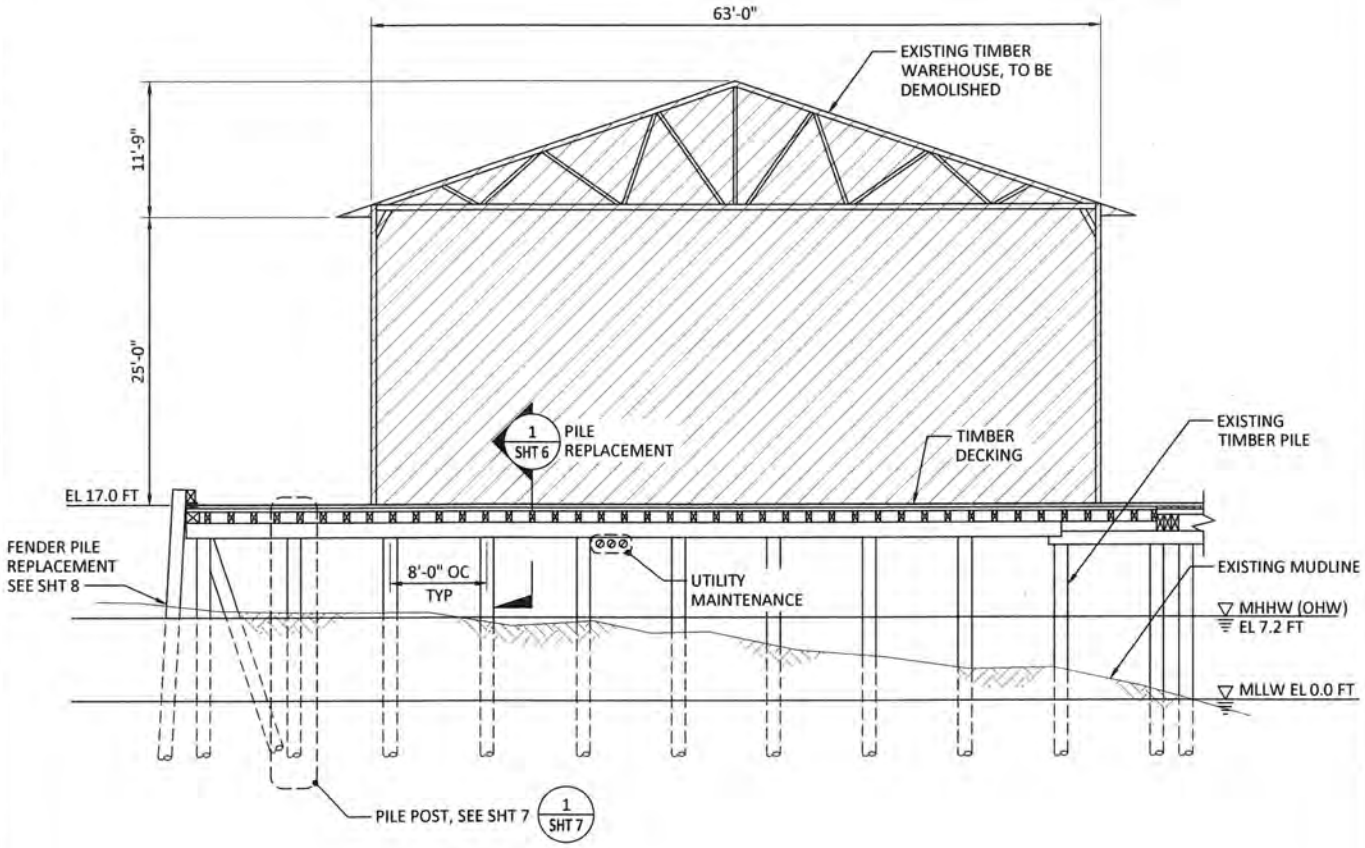

A / - SECTION - AT WAREHOUSE

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

8 0 8 16

scale feet

PROJECT PURPOSE: MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES APPLICANT: PORT OF PORT ANGELES ADJACENT PROPERTY OWNERS: (SEE APPLICATION) --	DATUM: OHW = MHHW = 7.2 FT MLLW = 0.0 LAT 48° 07' 80" LONG 123° 26' 25"	SHEET 5 TERMINAL 1 WAREHOUSE DEMOLITION PORT OF PORT ANGELES WASHINGTON
MAINTENANCE AND REPAIRS PROGRAM AT: Port Angeles Harbor, Washington LOCATED IN: Township 30 N Range 6 W W.M. Section NE 3 Port Angeles Harbor, Clallam County, WA DATE: 01/09/14 SHEET: 5 OF 30		

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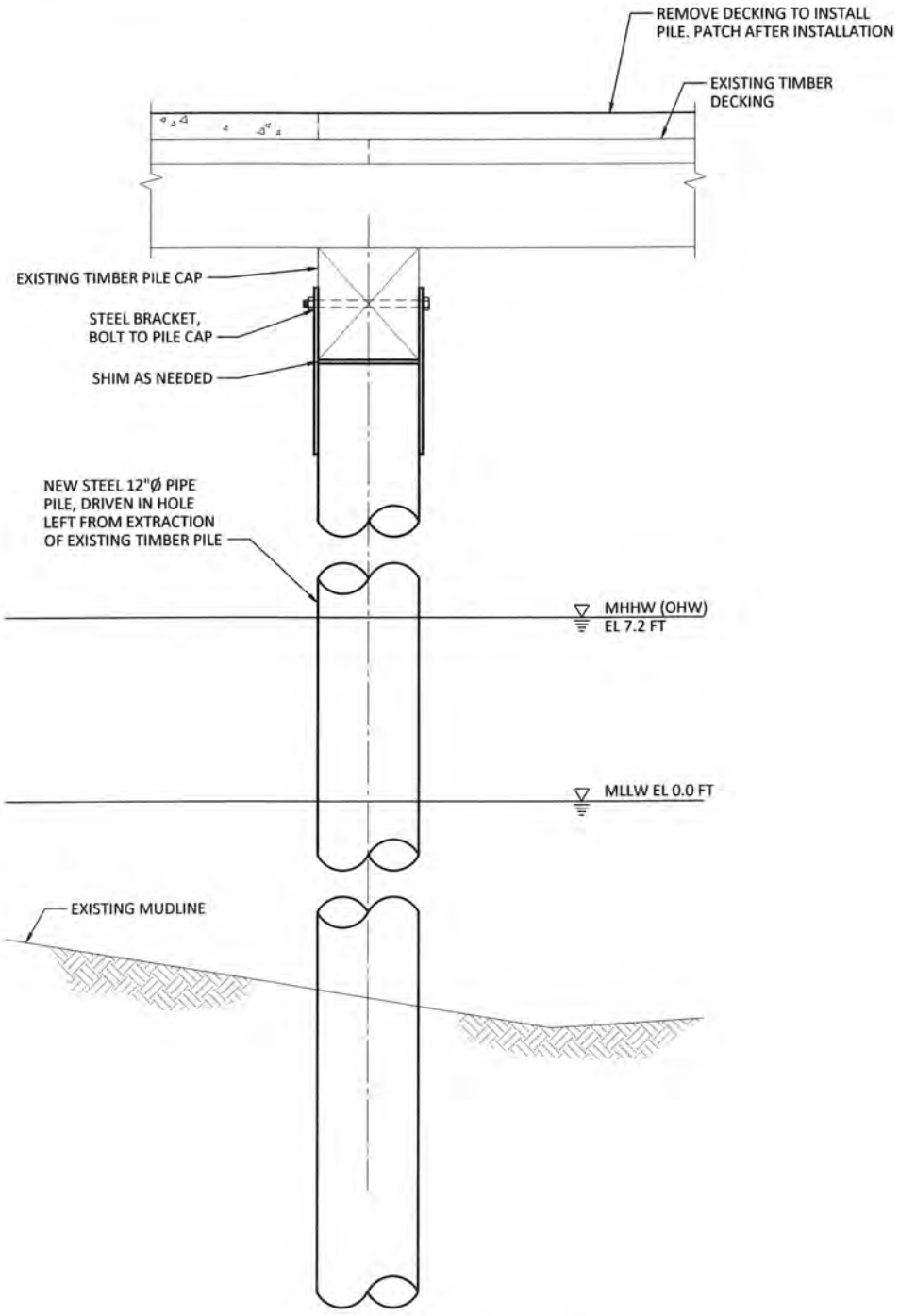

1 DETAIL - PILE REPLACEMENT

SCALE: 1/2" = 1'-0"

1 0 1 2

scale feet

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 6
PILE REPLACEMENT DETAIL

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 6 OF 30

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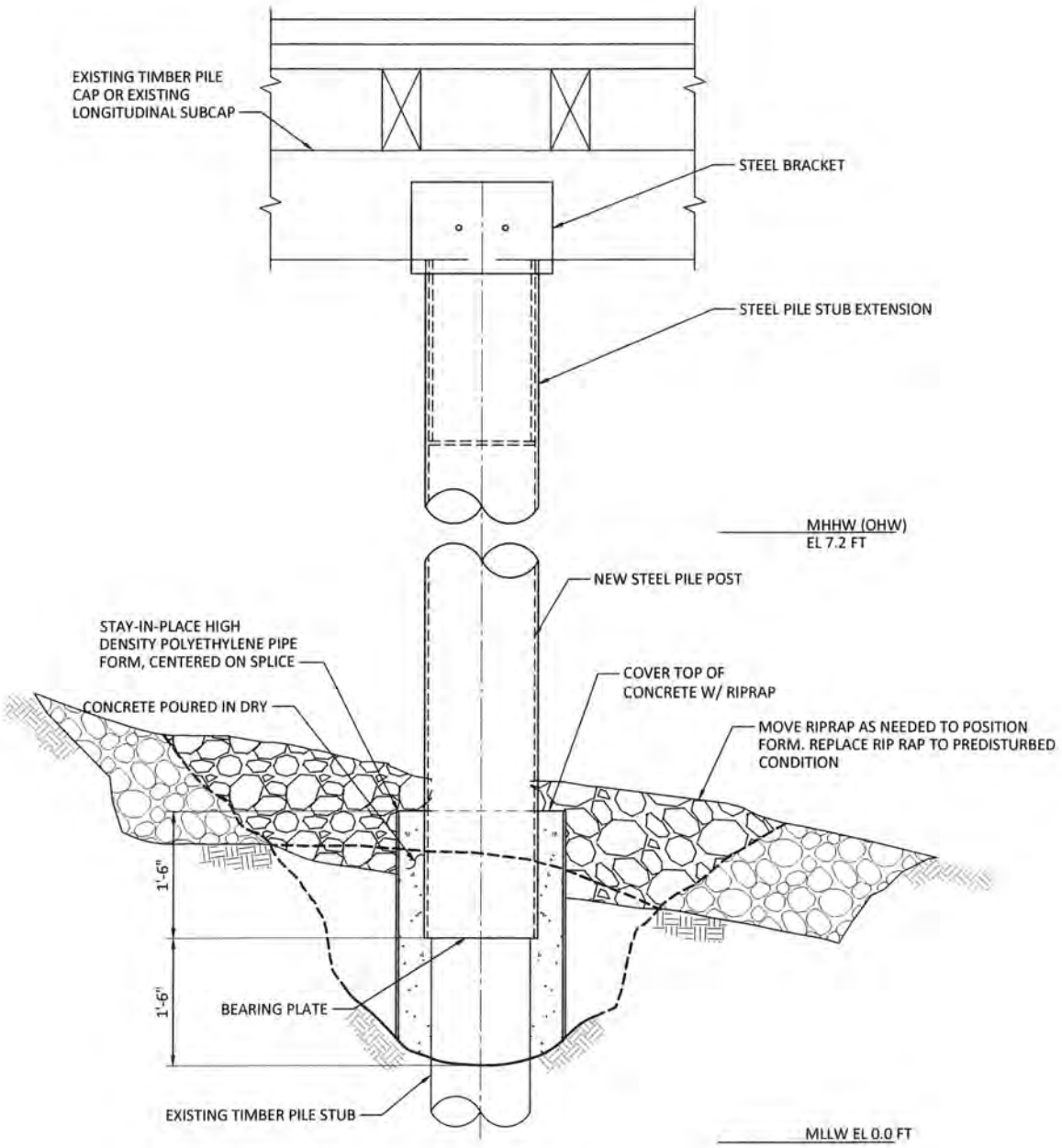

1 ELEVATION - PILE POST

SCALE: 1/2" = 1'-0"

1 0 1 2
scale feet

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 7
PILE POST REPAIR DETAIL

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 7 OF 30

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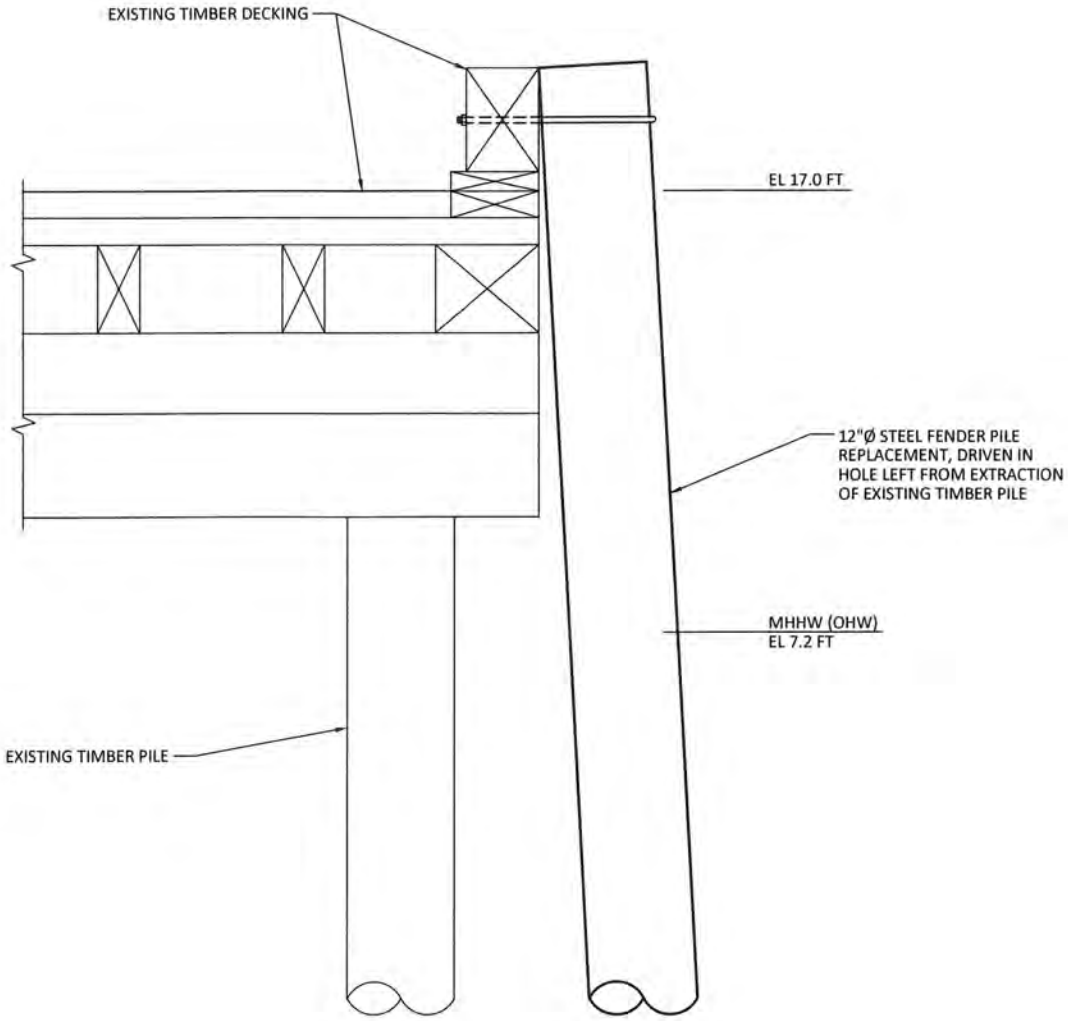

1 DETAIL - FENDER PILE REPLACEMENT

SCALE: 1/2" = 1'-0"

1 0 1 2

scale feet

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 8
FENDER PILE REPLACEMENT DETAIL

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 8 OF 30

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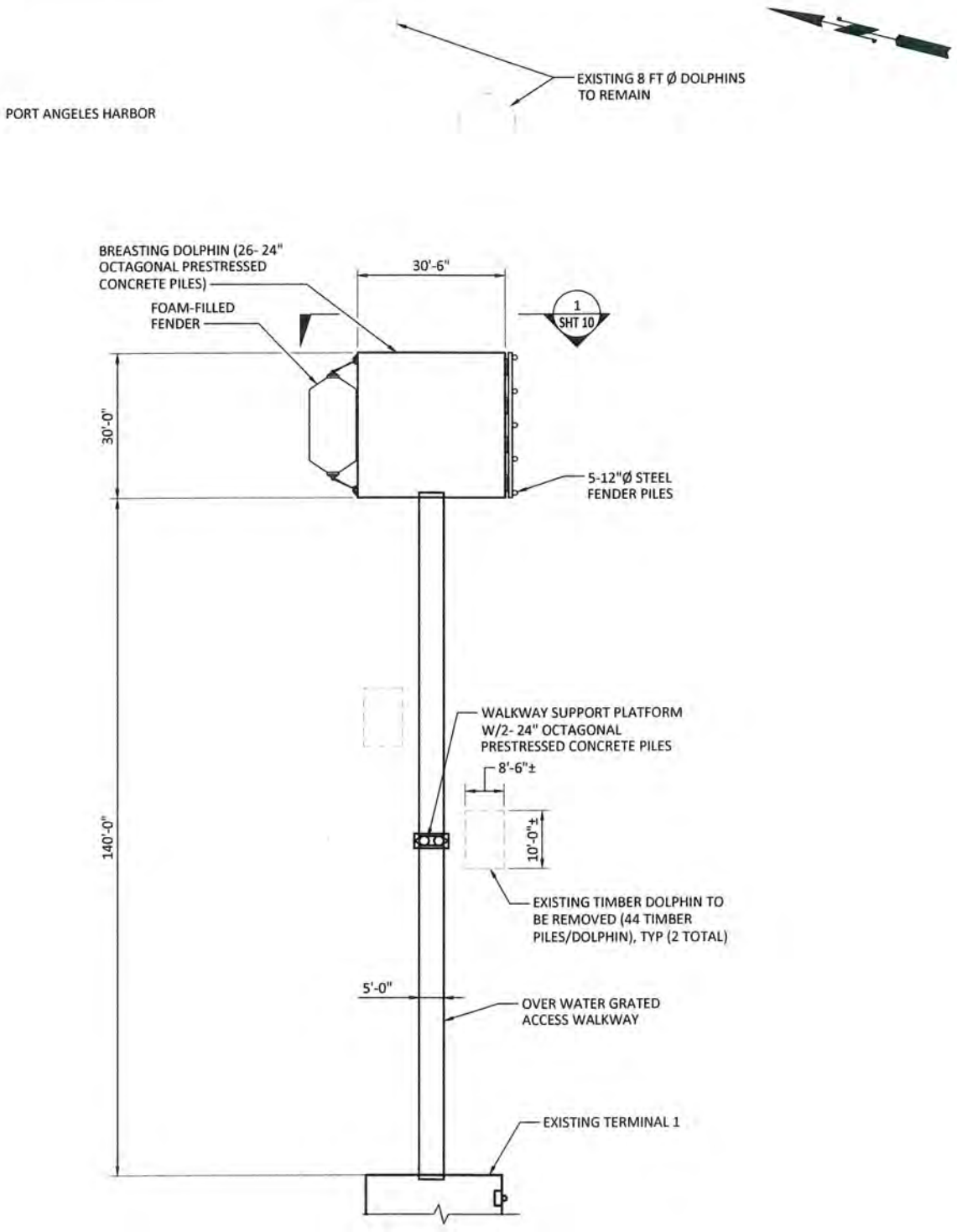

PLAN - BREASTING DOLPHIN AND WALKWAY

SCALE: 1/32" = 1'-0"

16 0 16 32

scale feet

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 9
NEW BREASTING DOLPHIN AT T-1

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 9 OF 30

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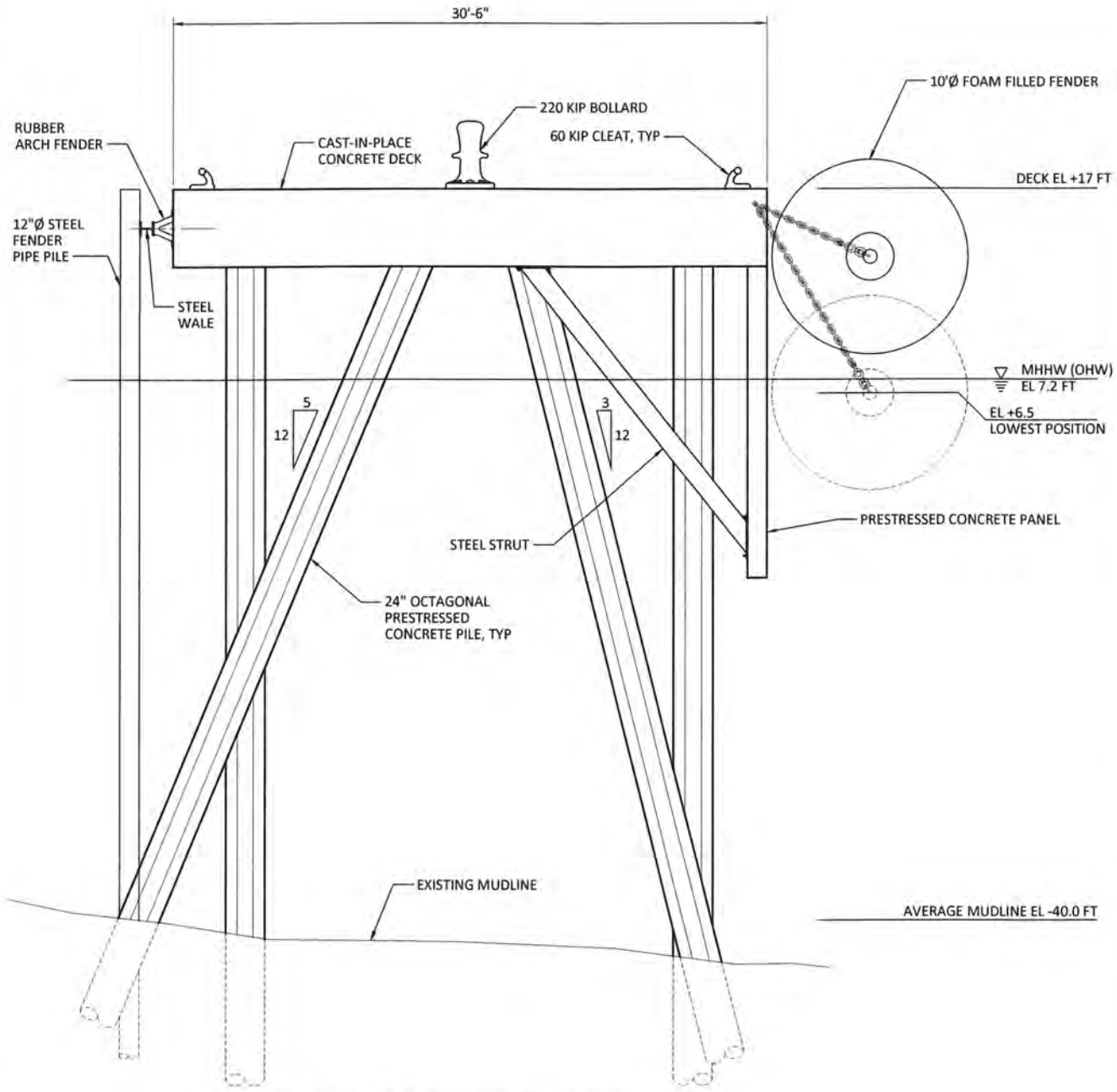

ELEVATION - BREASTING DOLPHIN

SCALE: 1/8" = 1'-0"

4 0 4 8
scale feet

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 10
ELEVATION - NEW BREASTING DOLPHIN AT T-1

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 10 OF 30

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ACTIVITY	# PILES	PILE SIZE & TYPE	APPROXIMATE OVER WATER COVERAGE	REFERENCE SHEET
STRUCTURAL PILE REPAIRS/REPLACEMENTS	10	12"Ø STEEL PIPE	NA	6 & 7
FENDER PILE REPLACEMENTS	10	12"Ø STEEL PIPE	NA	8
HEADLINE DOLPHIN	20	24" OCTAGONAL CONCRETE	400 SF	12

TERMINAL 3 - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 11
TERMINAL 3 SITE PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 11 OF 30

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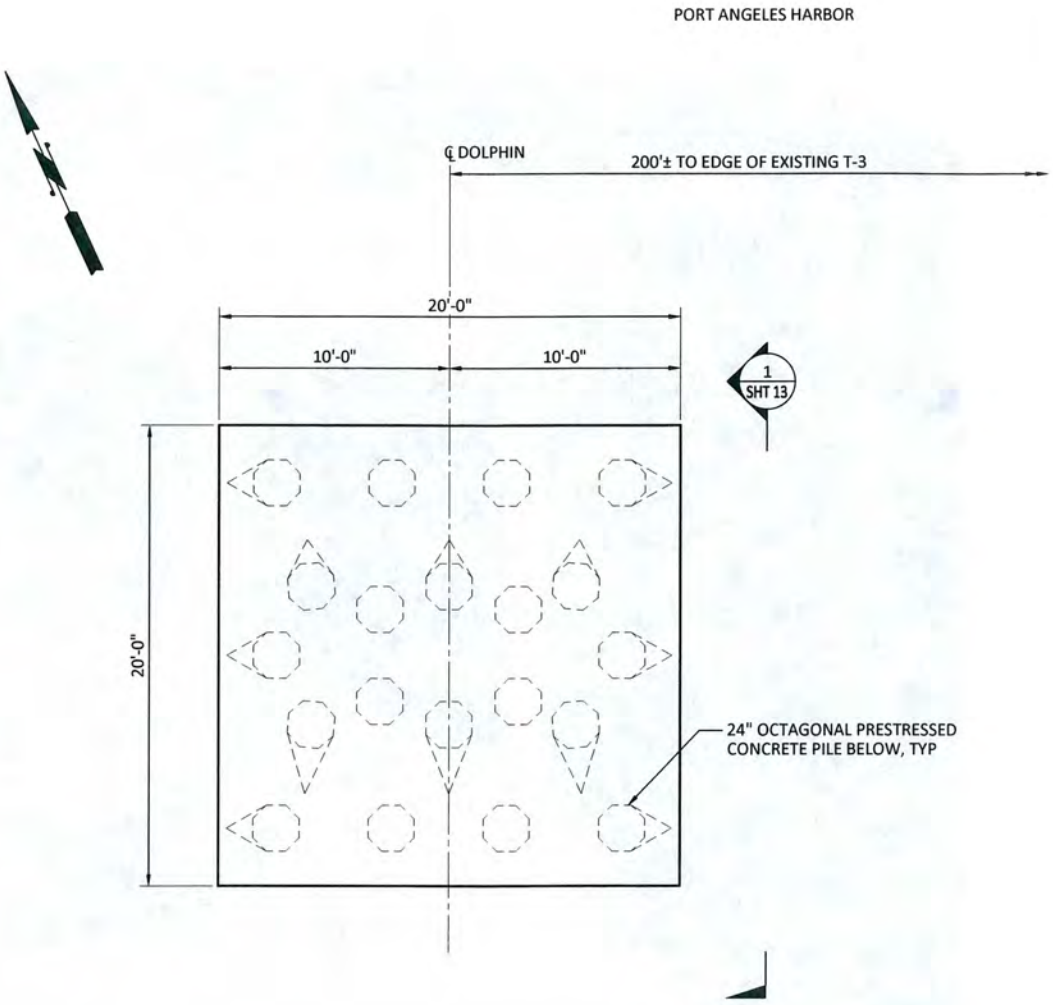

1 PLAN - HEADLINE DOLPHIN

SCALE: 1/8" = 1'-0"

4 0 4 8

scale feet

PROJECT PURPOSE: MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES APPLICANT: PORT OF PORT ANGELES ADJACENT PROPERTY OWNERS: (SEE APPLICATION) --	DATUM: OHW = MHHW = 7.2 FT MLLW = 0.0 LAT 48° 07' 80" LONG 123° 26' 25"	SHEET 12 NEW HEADLINE DOLPHIN AT T-3 PORT OF PORT ANGELES WASHINGTON
MAINTENANCE AND REPAIRS PROGRAM AT: Port Angeles Harbor, Washington LOCATED IN: Township 30 N Range 6 W W.M. Section NE 3 Port Angeles Harbor, Clallam County, WA DATE: 01/09/14 SHEET: 12 OF 30		

Drawings prepared for JARPA and incorporated into SEPA Checklist

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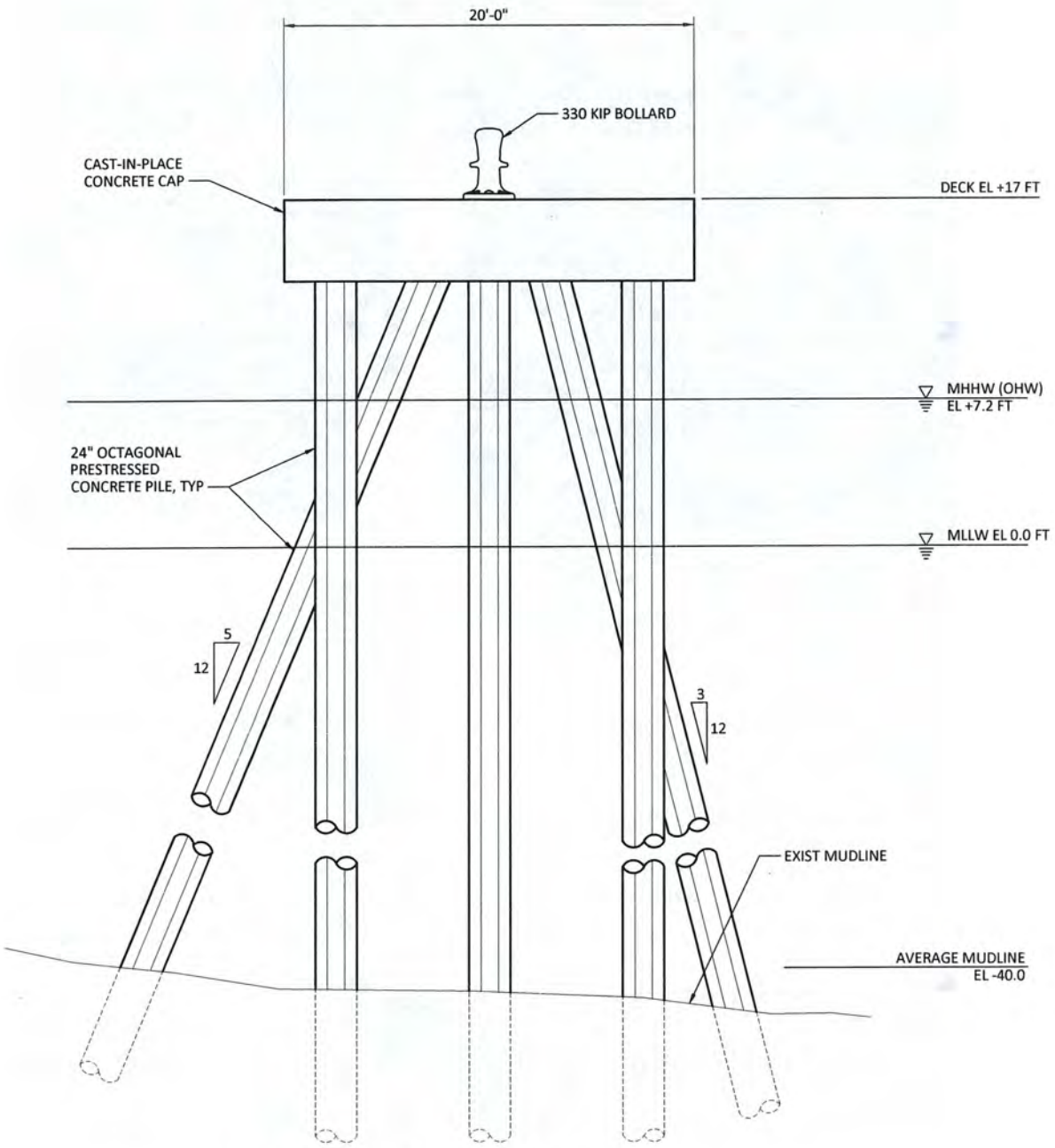

ELEVATION - HEADLINE DOLPHIN

SCALE: 1/8" = 1'-0"

4 0 4 8
scale feet

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 13
ELEVATION - NEW HEADLINE DOLPHIN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 13 OF 30

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DESCRIPTION	# PILES	PILE SIZE & TYPE	REFERENCE SHEET
FENDER PILE REPLACEMENTS	10	12"Ø STEEL PIPE	8
STRUCTURAL PILE REPLACMENTS	10	12"Ø STEEL PIPE	6 & 7

TERMINAL 4 - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 14
TERMINAL 4 SITE PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 14 OF 30

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BOAT HAVEN RAMP - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 15
BOAT HAVEN RAMP SITE PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 15 OF 30

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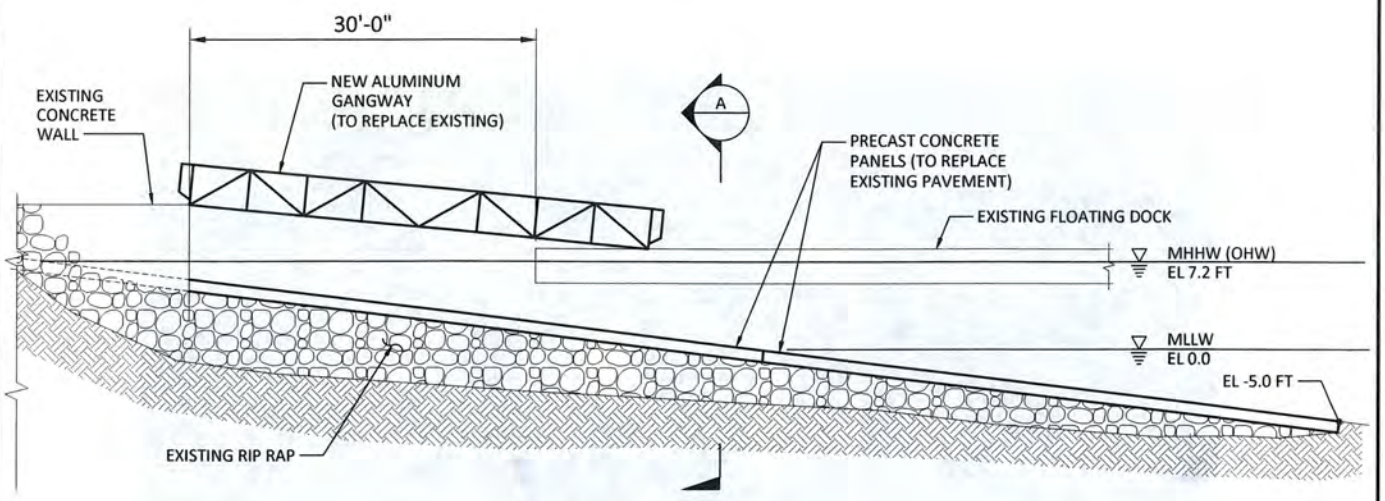
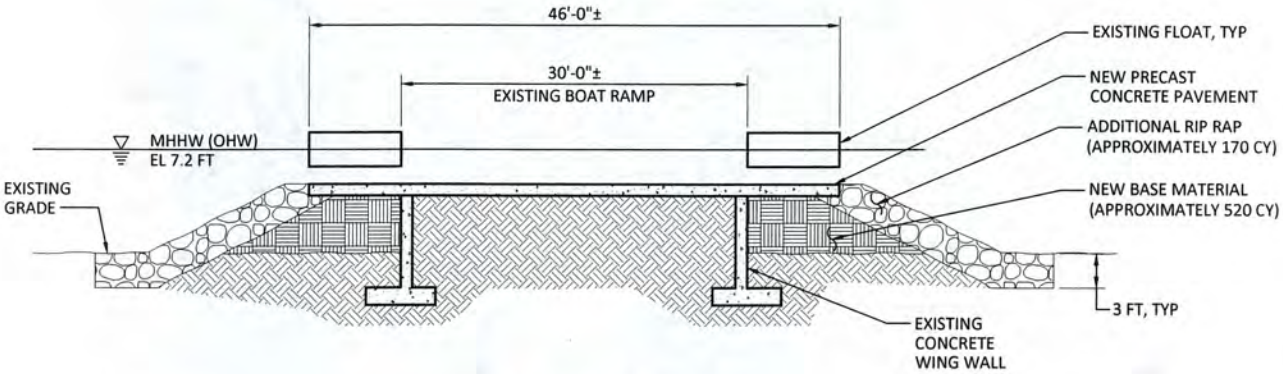


1 **ELEVATION - BOAT RAMP**
SCALE: 1/8"=1'-0"



A **SECTION**
SCALE: 1/8"=1'-0"

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 16
ELEVATION - BOAT RAMP

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 16 OF 30

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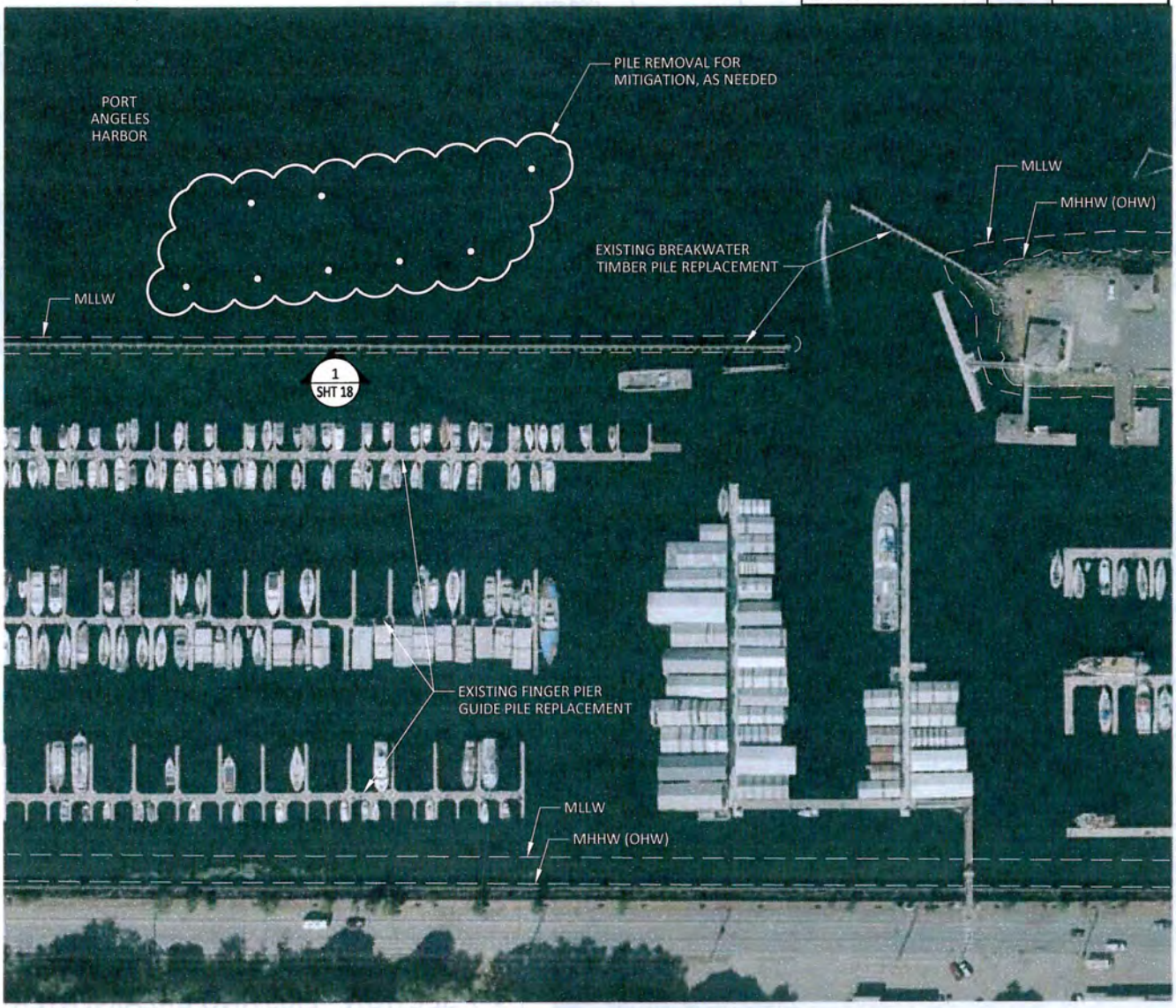
DESCRIPTION	# PILES	PILE SIZE & TYPE
BREAKWATER PILE REPLACEMENT	50	12"Ø STEEL PIPE
PILE REPLACEMENT INSIDE BREAKWATER	20	12"Ø STEEL PIPE
FINGER PIER GUIDE PILE REPLACEMENT	10	12"Ø STEEL PIPE



BOAT HAVEN BREAKWATER - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 17
BOAT HAVEN BREAKWATER SITE PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 17 OF 30

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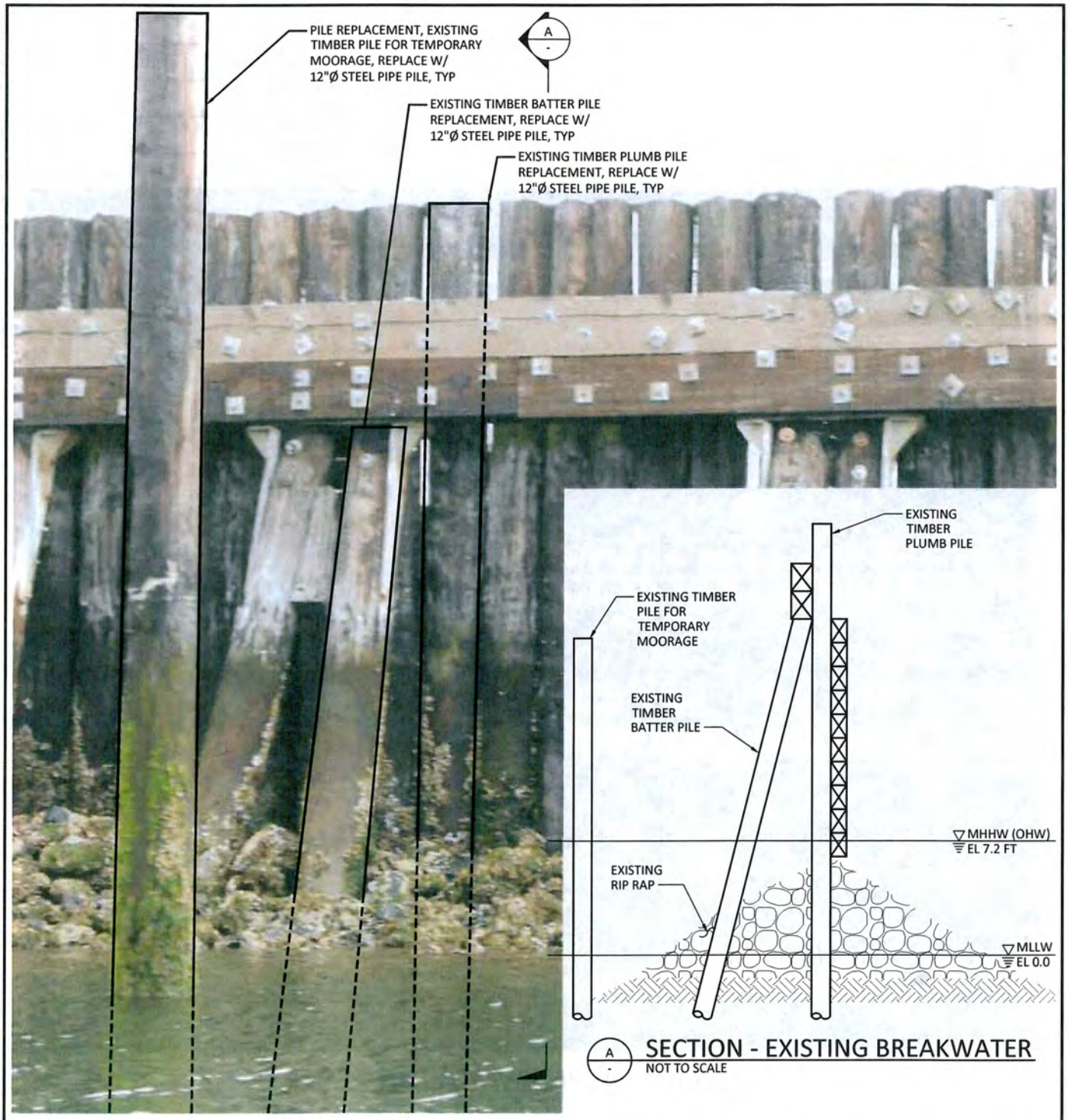

A
-
SECTION - EXISTING BREAKWATER
NOT TO SCALE

VIEW - INSIDE BREAKWATER (LOOKING NORTH)
NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 18
BREAKWATER PHOTO

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 18 OF 30

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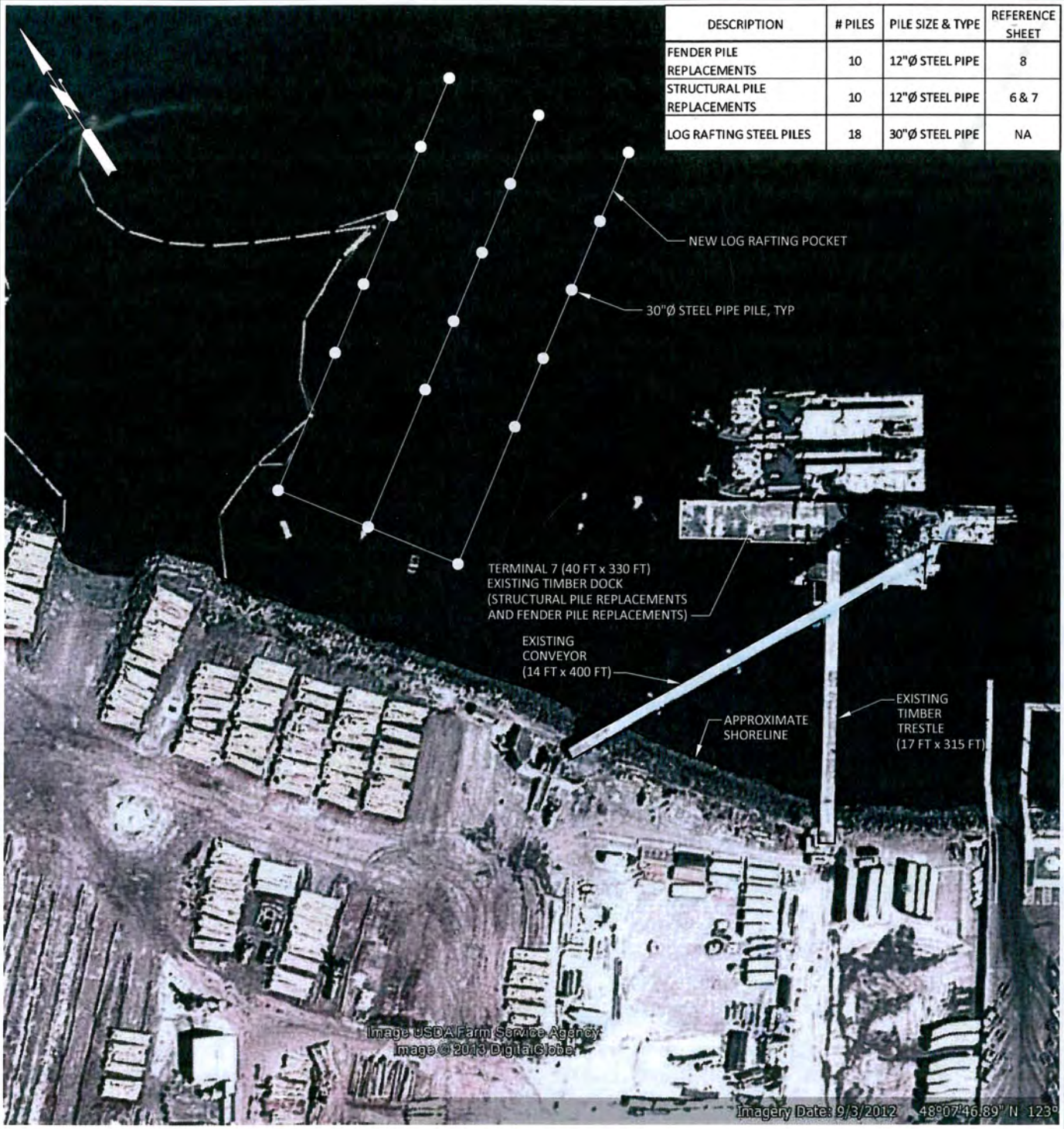
DESCRIPTION	# PILES	PILE SIZE & TYPE	REFERENCE SHEET
FENDER PILE REPLACEMENTS	10	12"Ø STEEL PIPE	8
STRUCTURAL PILE REPLACEMENTS	10	12"Ø STEEL PIPE	6 & 7
LOG RAFTING STEEL PILES	18	30"Ø STEEL PIPE	NA



TERMINAL 7 - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 20
TERMINAL 7 SITE PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 20 OF 30

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LOG RAFTING - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 19
LOG RAFTING SITE PLAN
AT BOAT HAVEN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 19 OF 30

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TERMINAL 5 - SITE PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 21
TERMINAL 5 SITE PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 21 OF 30

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LEGEND:

- M1 — MITIGATION AREA 1 PILE REMOVAL, SEE SHEET 22
- M2 — MITIGATION AREA 2 PILE REMOVAL, SEE SHEET 23
- M3 — MITIGATION AREA 3 PILE REMOVAL, SEE SHEET 24
- M4 — MITIGATION AREA 4 PILE REMOVAL, SEE SHEET 25
- M5 — MITIGATION AREA 5 PILE REMOVAL, SEE SHEET 26
- M6 — MITIGATION AREA 6 PILE REMOVAL, SEE SHEET 27
- M7 — MITIGATION AREA 7 PILE & OVER WATER CONVEYOR REMOVAL, SEE SHEET 28

MITIGATION AREA

MITIGATION PLAN

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 22
MITIGATION PLAN

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 22 OF 30

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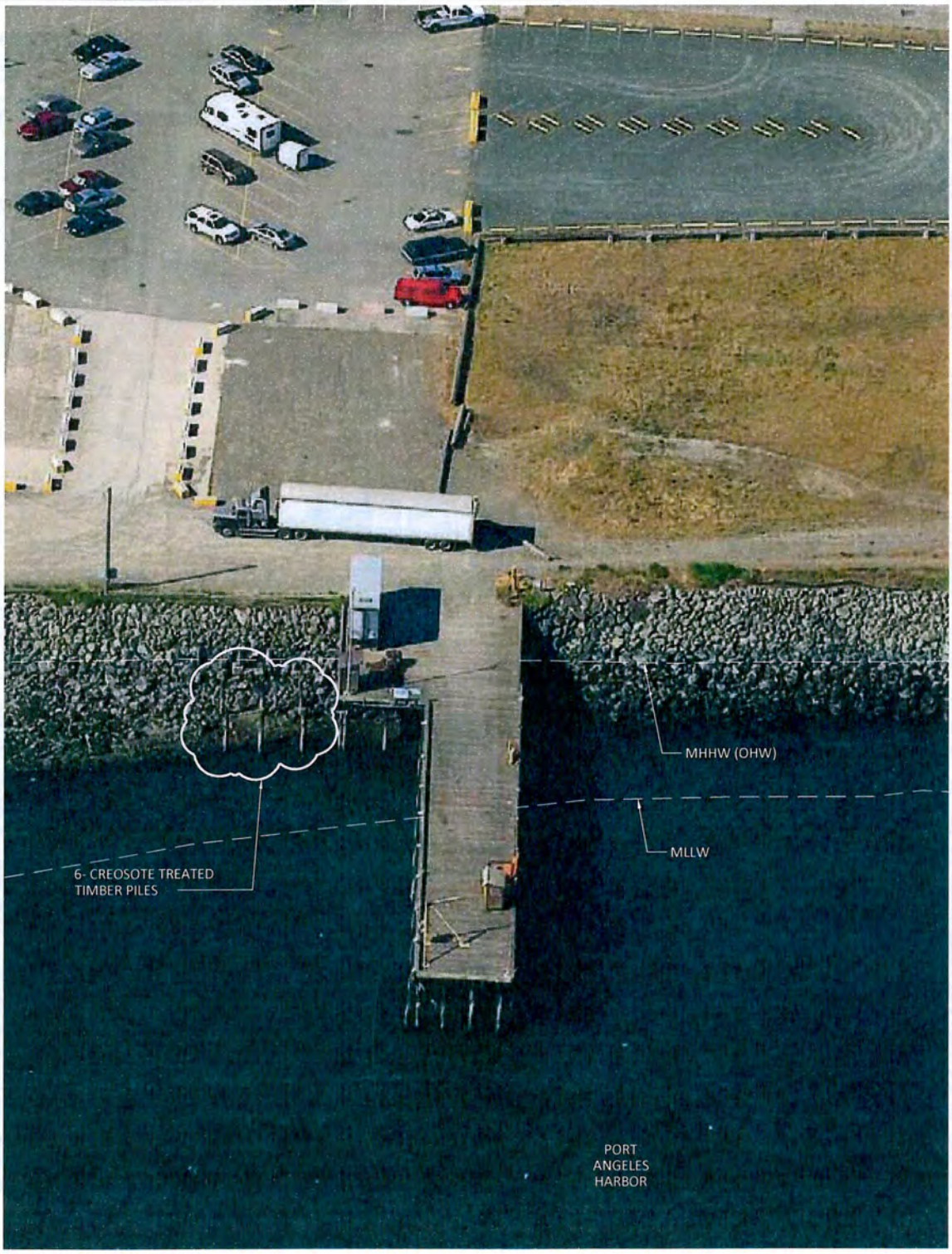

MITIGATION AREA 1 (AT T-4)

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 23
TERMINAL 4 MITIGATION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 23 OF 30

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MITIGATION AREA 2 (NEAR T-1)

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 24
TERMINAL 1 MITIGATION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 24 OF 30

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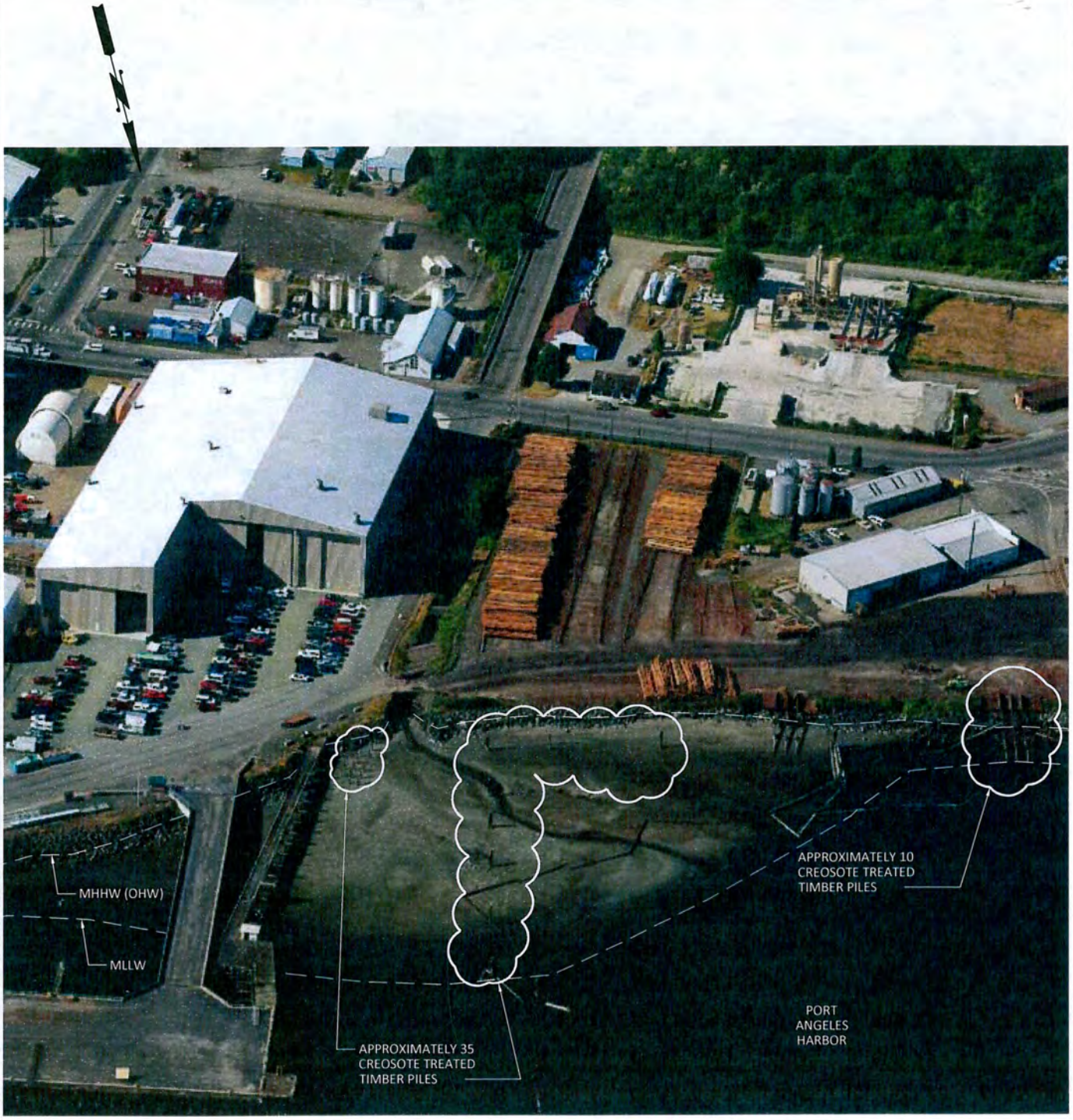

MITIGATION AREA 3 (NEAR T-3)

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 25
TERMINAL 3 MITIGATION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 25 OF 30

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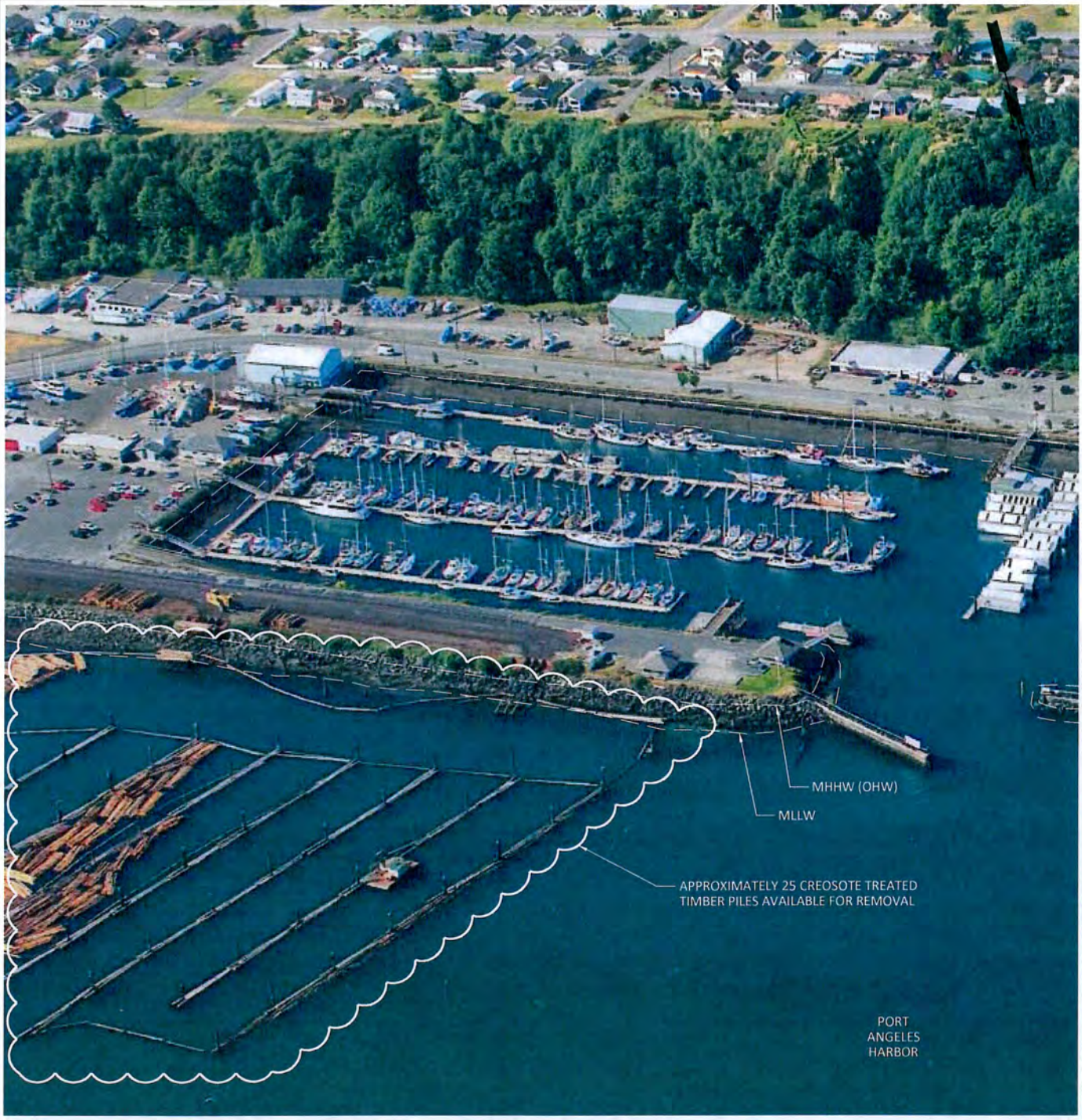

MITIGATION AREA 4 (AT LOG RAFTING)

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 26
LOG RAFTING MITIGATION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 26 OF 30

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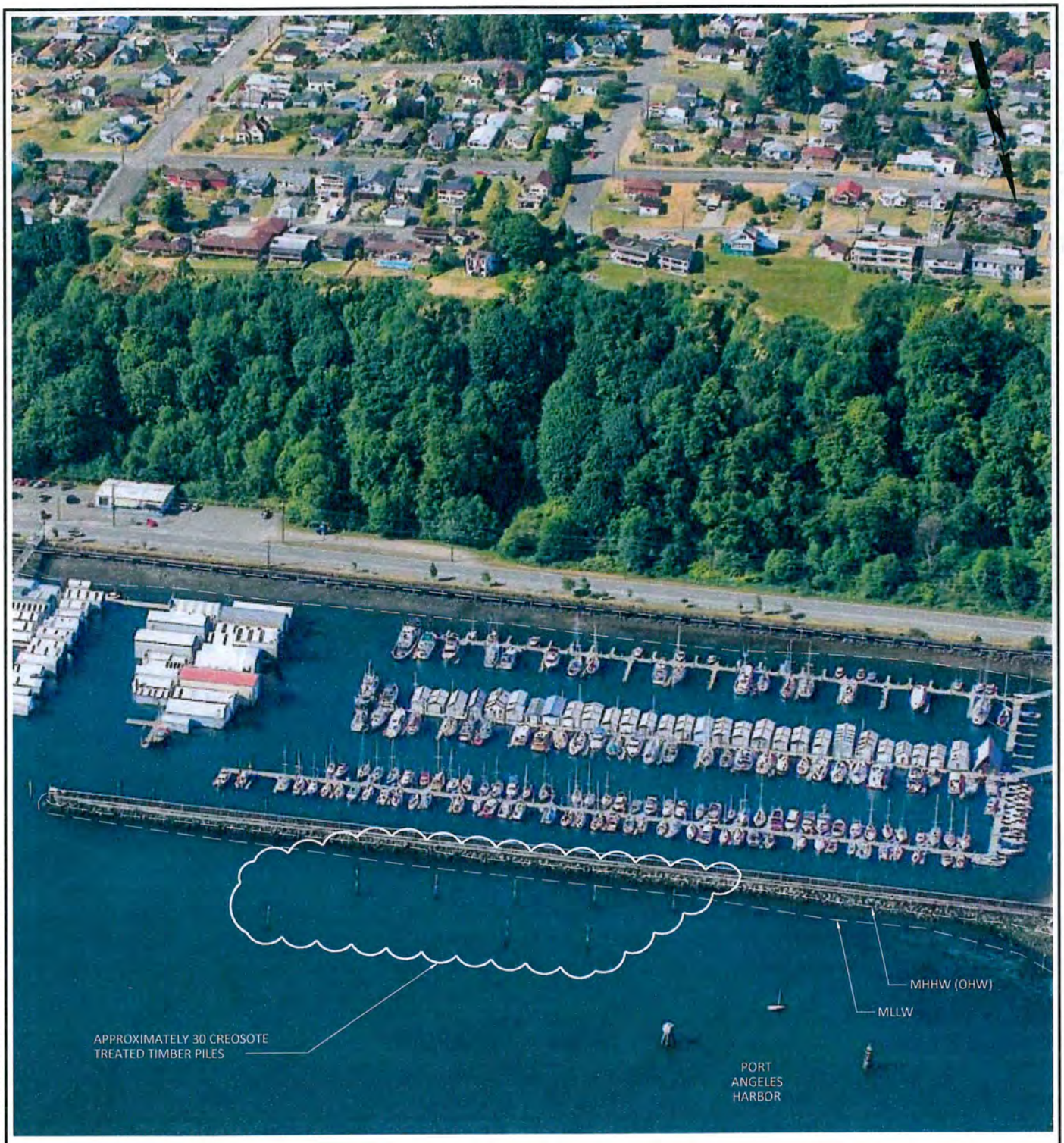

MITIGATION AREA 5 (NEAR BOAT HAVEN)

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 27
BOAT HAVEN MITIGATION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 27 OF 30

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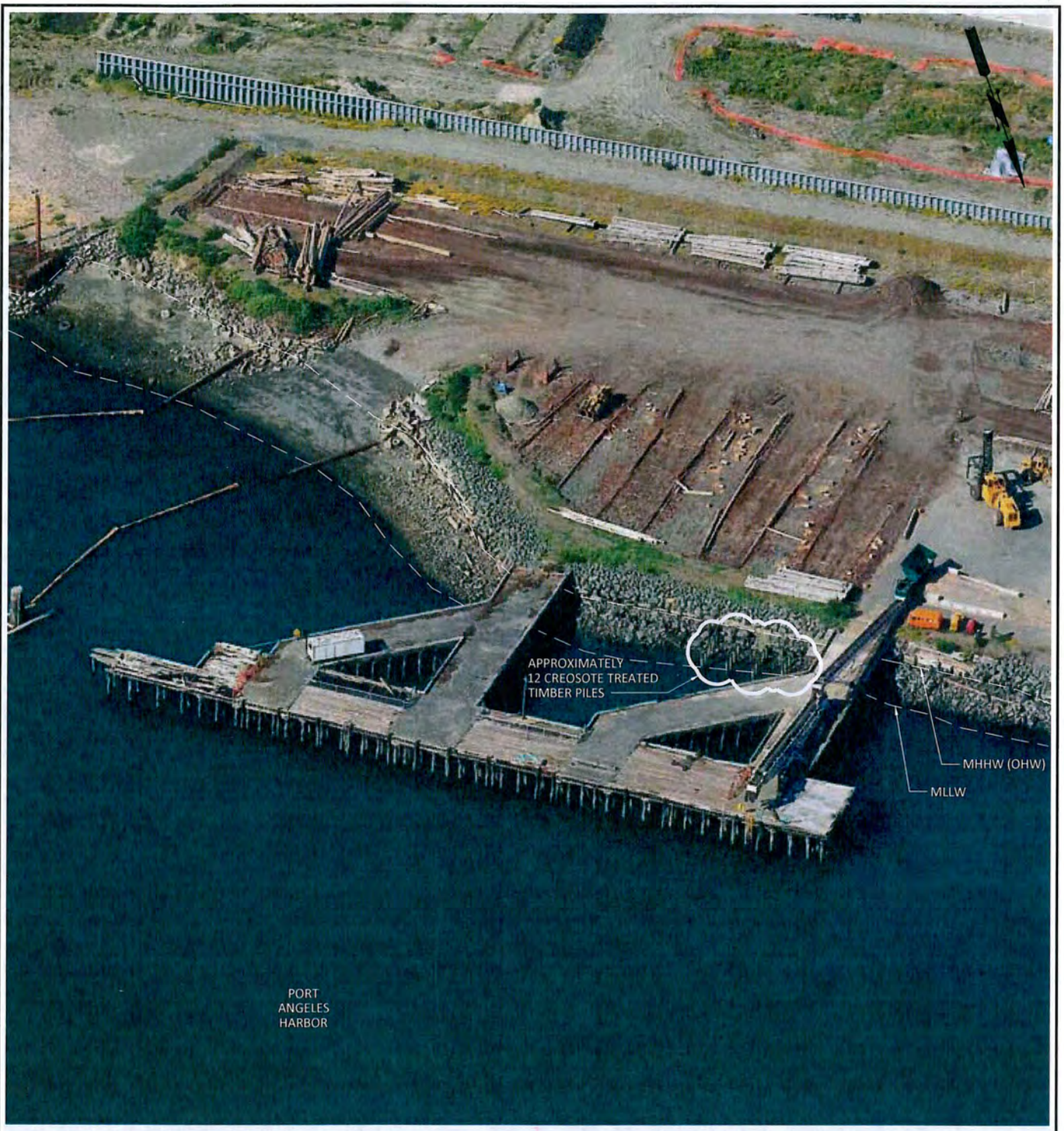

MITIGATION AREA 6 (AT T-5)

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 28
TERMINAL 5 MITIGATION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 28 OF 30

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MITIGATION AREA 7 (AT T-6)

NOT TO SCALE

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
--

DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 29
TERMINAL 6 MITIGATION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 29 OF 30

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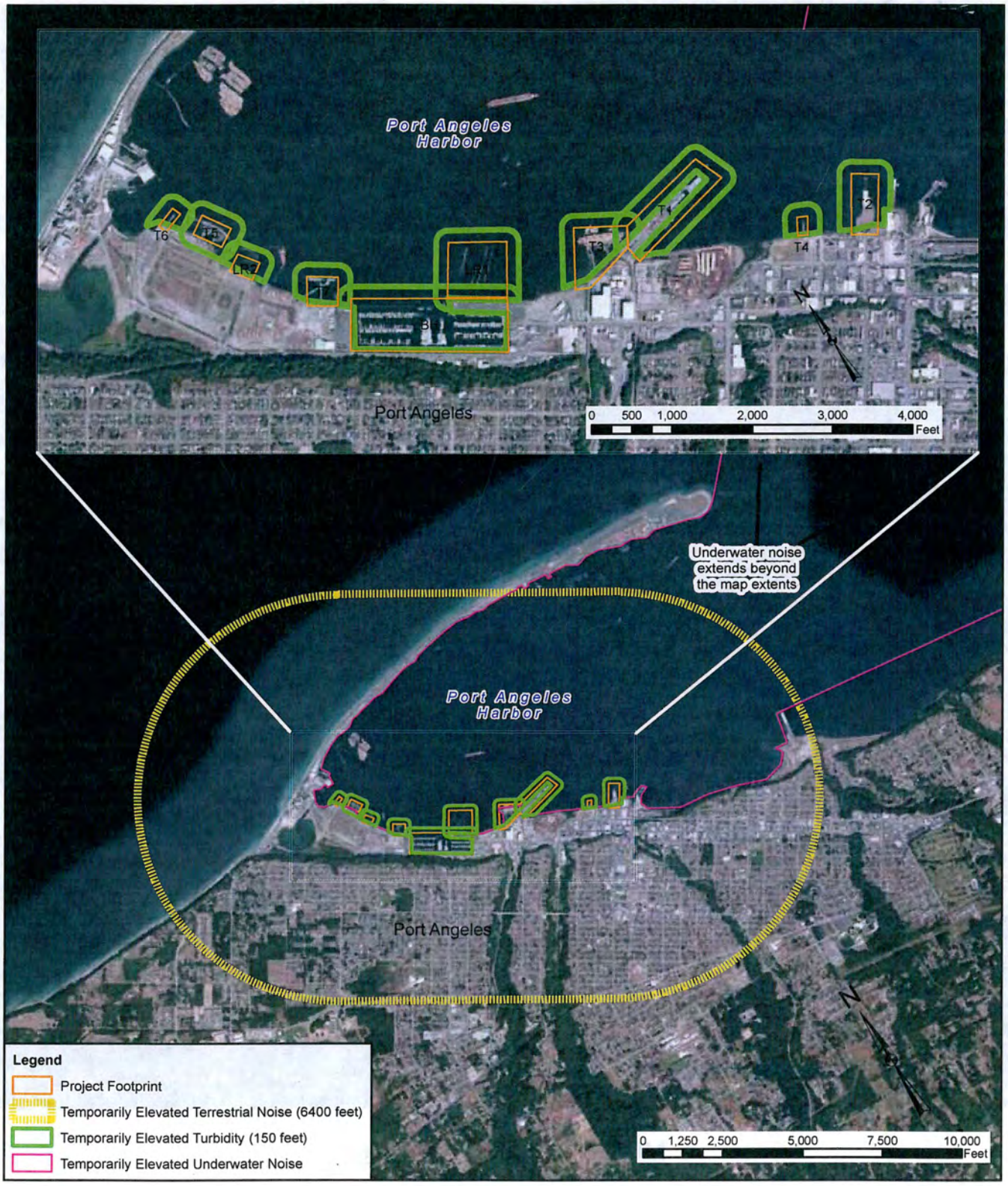

PROJECT PURPOSE:
MAINTENANCE AND REPAIRS FOR MARINE TERMINALS AND IN WATER STRUCTURES

APPLICANT:
PORT OF PORT ANGELES

ADJACENT PROPERTY OWNERS:
(SEE APPLICATION)
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DATUM:
OHW = MHHW = 7.2 FT
MLLW = 0.0

LAT 48° 07' 80"
LONG 123° 26' 25"

SHEET 30
ACTION AREA

PORT OF PORT ANGELES
WASHINGTON

MAINTENANCE AND REPAIRS PROGRAM

AT: Port Angeles Harbor, Washington

LOCATED IN: Township 30 N
Range 6 W W.M.
Section NE 3

Port Angeles Harbor, Clallam County, WA

DATE: 01/09/14 SHEET: 30 OF 30

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