



US Army Corps  
of Engineers  
Seattle District

# Public Notice of Application for Permit

US Army Corps of Engineers  
Regulatory Branch  
4735 E Marginal Way S, Bldg 1202  
Seattle, WA 98134-2388  
Telephone: (206) 764-3450  
ATTN: Jason Sweeney,  
Project Manager

Public Notice Date: May 13, 2022  
Expiration Date: June 12, 2022

Reference No.: NWS-2011-467-WRD  
Name: Seattle, Port of (10 Year Pile  
System Repair and Maintenance  
Program)

Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 10 of the Rivers and Harbors Act of 1899, for certain work described below and shown on the enclosed drawings dated April 26, 2022. The Corps will also review the work in accordance with Section 404 of the Clean Water Act (CWA).

The Corps will also review the work in accordance with Section 14 of the Rivers and Harbors Act of 1899, as codified at 33 U.S.C. Section 408 (Section 408), for work that may alter a Corps civil works project. An alteration is defined as any action that builds upon, alters, improves, moves, occupies or otherwise affects the usefulness, or the structural or ecological integrity of a Corps federally authorized project. The proposed project may alter the Lake Washington Ship Canal, Shilshole Boat Harbor, Seattle Harbor, Elliott Bay Seawall, and the Duwamish Waterway

APPLICANT: Port of Seattle  
Attention: Danielle Butsick  
Post Office Box 1209  
Seattle, Washington 98111  
Telephone: (206) 549-2945

LOCATION: In Puget Sound, Elliott Bay, East and West Waterways, Duwamish River, Salmon Bay, and Lake Washington Ship Canal in Seattle, King County, Washington

WORK: To conduct pile replacement activities at 27 facilities for a period of ten years. Work includes the replacement of up to 2,608 structural, fender, dolphin, float, and other types of piles with an average of 261 per year, replacement of associated elements (pile caps, beams, etc.), placement of sand in any holes resulting from pile removal, as well as the repair and replacement of other components associated with pile systems including sheet pile bulkheads, repair of existing stormwater outfalls, existing utilities, existing floating piers attached to piles, and existing sheet pile or soldier toe walls during any year for a period of ten years in four zones:

Zone 1A (Marine Elliott Bay and Puget Sound) including the following facilities – Shilshole Bay Marina, Terminal 91, Pier 69, Pier 66, Terminal 86, Elliott Bay Park Fishing Pier, Terminal 46, Piers 2, 16, and 17.

Zone 1B (marine East/West Waterways) including the following facilities – Terminal 18, Terminal 10, Terminal 5, Terminal 30, Pier 28, Terminal 24 and 25.

Zone 2 (Estuary – Tidally Influenced Duwamish River) including the following facilities – Terminal 102, terminal 103, Terminal 104, Terminal 105, Terminal 106, Terminal 107, Terminal 108, Terminal 115, Terminal 117, and Turning Basin #3.

Zone 3 (Freshwater) including the following facilities – Marine Industrial Center and Fisherman's terminal.

Damaged piles would be removed with a vibratory hammer or by pulling with a cable and chain rigged to an overhead crane. Piles that break during extraction would be cut off 3-feet below the mudline and capped with clean sand. Replacement piles range from 12-inch to 30-inch in diameter, and sheet pile would be in 24-inch to 32-inch sheets. Piles to be installed may include ACZA and untreated timber, concrete and steel pile. Piles would be installed with a vibratory hammer. However, some piles may be proofed with an impact hammer and in some instances may be entirely installed with an impact hammer. Piles to be removed would include those previously listed and creosote-treated pile. Piles to be repaired may include concrete and Denso or other types of pile wraps or jackets. Up to 2,608 piles would be replaced, and up to 1,100 piles removed without being replaced and up to 1,500 cubic yards of clean sand would be placed over the ten-year period. Replacement of associated elements would include timber, concrete, and steel pile caps and beams; sacrificial elements including cathodic protection, UHMW wear strips; pile-associated attachment hardware; pile wraps, blankets, and “fresh heads”; fender system components including: chocks, whalers, compression parts, chains, hoops, bull rail, eyebrow, plates, and caps zones. Repair and maintenance of concrete pile caps and beams would require installation of falsework beneath supported structures. Once installed, crews would remove, by hand, existing failed or damaged concrete in the lower one-half of the pile cap or beam, exposing the reinforcing steel. The reinforcing steel is then inspected, repaired and coated with epoxy primer/sealant. Forms are constructed around pile cap or beam being repaired and new concrete is placed. Timber or steel caps and beams are generally repaired by removing and replacing the damaged cap or beam. All work on caps or beams would occur in the dry. Free-standing sheet pile replacement totals, and sheet pile toe wall totals are included in the 2,608 total pile replacements. Replacement would involve driving the new sheet pile in front of the existing sheet pile, then filling the space between the old and new with concrete. Repair would entail cleaning the area to be patched, then fitting and welding the steel plate patch to the existing sheet pile. If sheet pile repairs are required at the penetration point of a stormwater outfall, repair and maintenance of the outfall would be conducted concurrently with the sheet pile. Up to two outfalls per zone per year would be repaired. Sheet pile toe walls would be repaired by divers using underwater welding equipment welding a steel patch of sufficient size to repair the damaged portion. If necessary, a new sheet pile segment would be installed immediately behind (upslope) of the existing damaged segment utilizing a vibratory pile driver, or an impact pile driver. The existing sheet pile toe wall would either be left in place or removed as needed. Repair and replacement of utilities located at the site of pile repair or replacement are also being proposed. These include electrical, telecom, lighting, water supply, sewer, and other utilities. Up to 1,00 linear feet of up to 12-inch pipe or conduit per facility may be replaced. Additionally, the Port is proposing to repair or replace up to 2,500 square feet per zone per year of floating dock systems that are connected to pile proposed to be repaired or replaced.

PURPOSE: To maintain safe mooring and navigation within existing commercial shipping facilities.

ADDITIONAL INFORMATION: The proposed duration of the work to be authorized is ten years. The proposed work would cover repair and activities only and would not increase or change the use of Port of Seattle facilities or structures. Piles replaced during this ten-year period would be the same size (diameter) or smaller than the existing piles, and no additional piles would be authorized. The applicant would employ best management practices and spill control measures to reduce environmental impacts.

Sheet pile supporting upland areas (e.g. bulkhead) may be repaired or replaced while conducting proposed in-water work.

The line of mean high water, high tide line, and boundaries of vegetated shallows shown on the project drawings have not yet been verified by the U.S. Army Corps of Engineers (Corps). If the Corps determines the boundaries of the waters are substantially inaccurate a new public notice may be published.

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 proposed action consists of repair, replacement, and removal of existing structures. No mitigation is proposed.

**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 (USFWS) 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 U.S. Army Corps of Engineers 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 U.S. Army Corps of Engineers (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, Washington Information System for Architectural and Archaeological Records Data and other sources of information. The permit involves replacement actions within the demonstrated vertical and horizontal limits of previous construction or disturbance. No new pile would be authorized under the requested authorization and other repair work will be within the same footprint as the existing structure. The nature, scope, and magnitude of the work to be permitted is such that there is little likelihood that a historic property exists or may be affected. The Corps invites responses to this public notice from Native American Nations 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 Nations in accordance with Section 106 of the National Historic Preservation Act, as appropriate.

**PUBLIC HEARING:** Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

**EVALUATION:** 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 Washington

Department of Ecology has or will evaluate the proposed project in accordance with Section 401 of the Clean Water Act and for consistency with the Coastal Zone Management Act.

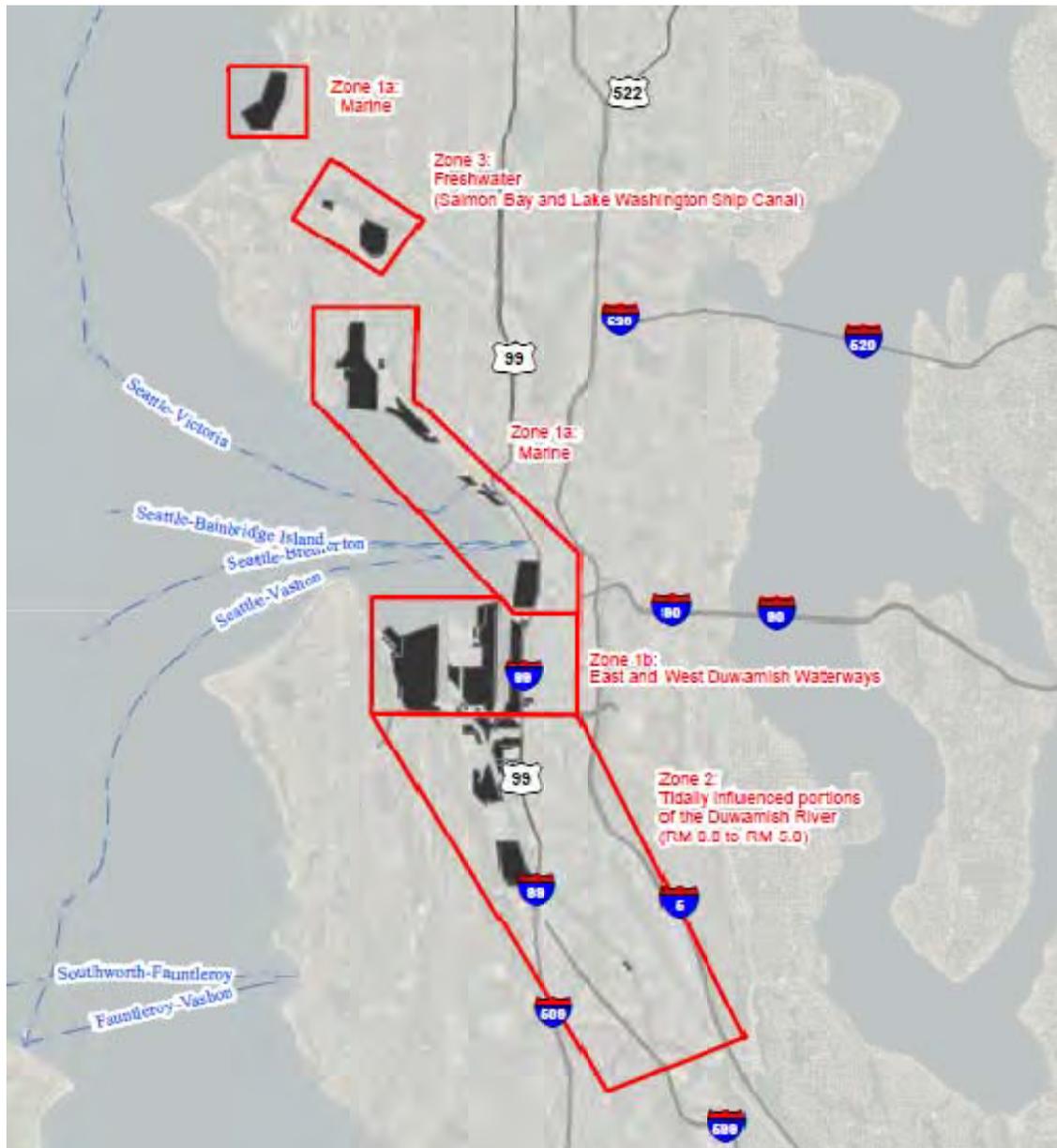
The U.S. Army Corps of Engineers is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered 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.

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 authorizing the work would not be contrary to the public interest. 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. All e-mail comments should be sent to [jason.t.sweeney@usace.army.mil](mailto:jason.t.sweeney@usace.army.mil). Conventional mail comments should be sent U.S. Army Corps of Engineers, Regulatory Branch, 4735 E. Marginal Way S, Bldg 1202, Seattle, Washington, 98134-2388. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commenter's name, address, and phone number. 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. 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. Please include the following name and reference number:

Seattle, Port of (10 Year Pile System Repair and Maintenance Program), NWS-2011-467-WRD

Encl: Figures (42)

# Piles Systems Maintenance & Repair Program Zones



**Corps #:**

**Applicant:**

Port of Seattle

**Location:**

Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

**Project:**

Pile Systems Repair and Maintenance Program (10 year)

**Purpose:**

Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# List of Project Locations by Zone

Zone	Property	Address	Lat / Lon	Parcel number
Zone 1A - Marine: Elliott Bay and Puget Sound	Shilshole Bay Marina	7001 Seaview Ave NW, Seattle, WA 98117	47.682, -122.406	468000050
	Terminal 91	2001 W Garfield St, Seattle, WA 98119	47.630, -122.381	7666201530, 7666201516, 7666201715, 7666201153, 7666201151, 7666201146
	Pier 69	2711 Alaskan Way, Seattle, WA 98121	47.614, -122.354	7666202295, 7666202297
	Pier 66	2203 Alaskan Way, Seattle, WA 98121	47.611, -122.350	7666202327, 7666202342
	Terminal 86	955 Alaskan Way W, Seattle, WA 98119	47.626, -122.374	7666202125, 7666202120
	Elliott Bay Park Fishing Pier	955 Alaskan Way W, Seattle, WA 98119	47.626, -122.374	7666202125, 7666202120
	Terminal 46	401 Alaskan Way S, Seattle, WA 98104	47.595, -122.341	7666202631, 7666207695, 7666207696, 7666207697, 7666207698, 7666207699
	Piers 16 and 17	1002 SW Spokane St, Seattle, WA 98134	47.589, -122.350	7666705340, 7666705384
Zone 1B - Marine: East/West Waterways	Pier 2 and Jack Block Park	2900 SW Florida St, Seattle, WA 98134	47.589, -122.350	7666705340, 7666705384
	Terminal 18	1002 SW Spokane St, Seattle, WA 98134	47.580, -122.346	7666703070, 7666703090, 7666701356
	Terminal 10	2751 16th Ave SW, Seattle, WA 98134	47.579, -122.357	7666702940, 7666702950, 7666702960
	Terminal 5	2701 26th Ave SW, Seattle, WA 98106	47.578, -122.361	7666705200, 7666705350, 7666705432, 7666706546, 7666705565, 7666705209, 7666704000
	Terminal 30	1901 E Marginal Way S, Seattle, WA 98134	47.584, -122.343	7666207800, 7666207810, 7666207830, 7666207855
	Pier 28	1901 E Marginal Way S, Seattle, WA 98134	47.579, -122.341	7666207830
Zone 2 - Estuarine: Tidally-Influenced Duwamish Waterway	Terminal 25	2911 E Marginal Way S, Seattle, WA 98134	47.573, -122.343	7666207905, 7666207917, 7666207900
	Terminal 102	1001 SW Klickitat Way, Seattle, WA 98134	47.569, -122.347	7666701220
	Terminal 103	3838 W Marginal Way SW, Seattle, WA 98106	47.568, -122.351	7666703440
	Terminal 104	3627 Duwamish Ave S, Seattle, WA 98134	47.570, -122.345	7666700315
	Terminal 106	3801 E Marginal Way S, Seattle, WA 98134	47.565, -122.346	7666700390, 7666700560
	Terminal 108	1 S Idaho St, Seattle, WA 98134	47.562, -122.344	7666700510
	Terminal 107 and Kellogg Island	4700 W Marginal Way SW, Seattle, WA 98106	47.558, -122.349	1924049103
	Terminal 105	4260 W Marginal Way SW, Seattle, WA 98106	47.567, -122.351	7666703460, 7666703532
	Terminal 115	150 SW Michigan St, Seattle, WA 98106	47.545, -122.339	5367202505
	Terminal 117	8700 Dallas Ave S, Seattle, WA 98108	47.526, -122.311	1600044
Zone 3 - Freshwater: Lake Washington Ship Canal	Turning Basin #3	10108 W Marginal Pl S, Seattle, WA 98108	47.512, -122.304	423049187
	Maritime Industrial Center	2700 W Commodore Way, Seattle, WA 98199	47.663, -122.392	1125039068
	Fisherman's Terminal	2000 W Emerson PL, Seattle, WA 98119	47.656, -122.379	7666200105
	Salmon Bay Marina	2100 W Commodore Way, Seattle, WA 98199	47.660, -122.383	2771605345

**Corps #:**

**Applicant:** Port of Seattle

**Location:** Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

**Project:** Pile Systems Repair and Maintenance Program (10 year)

**Purpose:** Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# Project Zone 1a: Marine (Shilshole Bay Marina)



**Corps #:**

**Applicant:** Port of Seattle

**Location:** Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

**Project:** Pile Systems Repair and Maintenance Program (10 year)

**Purpose:** Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# Project Zone 1a: Marine (Elliott Bay)



**Corps #:**

**Applicant:** Port of Seattle

**Location:** Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

**Project:** Pile Systems Repair and Maintenance Program (10 year)

**Purpose:** Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# Project Zone 1b: East and West Waterways



**Corps #:**

**Applicant:**

**Location:**

**Project:**

**Purpose:**

Port of Seattle

Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

Pile Systems Repair and Maintenance Program (10 year)

Regular and routine repair and maintenance activities associated with Seaport  
piling and pile systems components

# Project Zone 2: Tidally Influenced Duwamish River



**Corps #:**

**Applicant:** Port of Seattle

**Location:** Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

**Project:** Pile Systems Repair and Maintenance Program(10 year)

**Purpose:** Regular and routine repair and maintenance activities associated with Seaport  
piling and pile systems components

# Project Zone 3: Freshwater (Fisherman's Terminal, MIC)



**Corps #:**  
**Applicant:** Port of Seattle  
**Location:** Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington  
**Project:** Pile Systems Repair and Maintenance Program (10 year)  
**Purpose:** Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

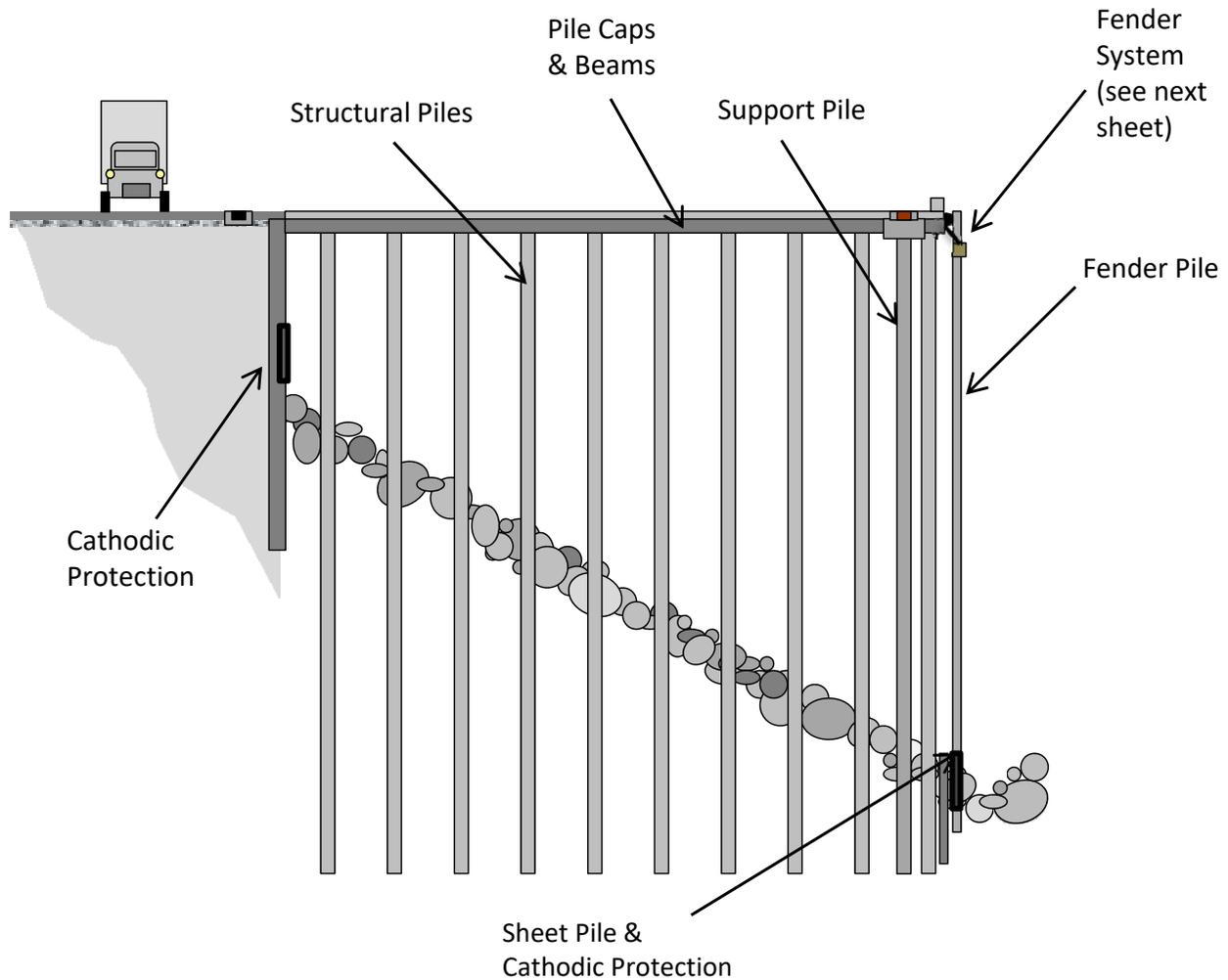
**Table 2. Multi-Site Pile System Repair & Maintenance Project - Pile Removal/Replacement Estimate (2022-2031). Phase dates encompass the work window covered by each Phase.**

Zone	Property	Lat/Lon	PHASE 1 - 2021/22	PHASE 2 - 2022/23	PHASE 3 - 2023/24	PHASE 4 - 2024/25	PHASE 5 - 2025/26	PHASE 6 - 2026/27	PHASE 7 - 2027/28	PHASE 8 - 2028/29	PHASE 9 - 2029/30	PHASE 10 - 2030/31	Replaced Pile per Facility	Permitted to be Removed & Replaced	Proposed to be Removed
<b>MARINE: Elliott Bay and Puget Sound (Zone 1A)</b>	Shilshole Bay Marina	47.682, -122.406	6	6	6	6	6	6	3	3	3	3	48	<b>1,060</b>	<b>660</b>
	Terminal 91	47.630, -122.381	24	24	24	24	24	24	24	24	24	24	240		
	Pier 69	47.614, -122.354	0	0	6	9	9	9	9	9	9	9	69		
	Pier 66	47.611, -122.350	24	24	24	24	24	24	24	24	24	24	240		
	Terminal 86	47.625, -122.370	0	6	12	12	6	6	6	0	0	0	48		
	Elliott Bay Park Fishing Pier	47.626, -122.374	3	3	6	3	0	0	0	0	0	0	15		
	Terminal 46	47.595, -122.341	0	18	18	18	18	18	15	15	15	15	150		
	Piers 2/16/17	47.589, -122.350	0	0	0	0	0	0	0	0	0	0	0		
	Miscellaneous	Miscellaneous	25	25	25	25	25	25	25	25	25	25	250		
<b>Zone 1A Subtotals:</b>			<b>82</b>	<b>106</b>	<b>121</b>	<b>121</b>	<b>112</b>	<b>112</b>	<b>106</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>1,060</b>		
<b>MARINE: East/West Waterways (Zone 1B)</b>	Terminal 18	47.580, -122.346	24	2	24	24	24	24	24	24	24	24	218	<b>718</b>	
	Terminal 10	47.579, -122.357	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 5	47.578, -122.361	12	12	12	12	12	12	12	12	12	12	120		
	Terminal 30	47.584, -122.343	12	18	18	18	18	18	18	18	6	6	150		
	Pier 28	47.579, -122.341	0	3	6	9	9	9	9	9	3	3	60		
	Terminal 24/25	47.573, -122.343	0	0	0	0	0	0	0	0	0	0	0		
	Miscellaneous	Miscellaneous	17	17	17	17	17	17	17	17	17	17	170		
<b>Zone 1B Subtotals</b>			<b>65</b>	<b>52</b>	<b>77</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>62</b>	<b>62</b>	<b>718</b>		
<b>ESTUARY: Tidally Influenced Duwamish River (Zone 2)</b>	Terminal 102	47.569, -122.347	0	0	0	12	12	12	6	6	6	6	60	<b>270</b>	<b>440</b>
	Terminal 103	47.568, -122.351	6	6	6	6	6	6	6	6	6	6	60		
	Terminal 104	47.570, -122.345	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 106	47.565, -122.346	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 108	47.562, -122.344	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 107	47.558, -122.349	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 105	47.567, -122.351	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 115	47.545, -122.339	6	6	9	9	12	12	9	9	9	9	90		
	Terminal 117	47.526, -122.311	0	0	0	0	0	0	0	0	0	0	0		
	Turning Basin #3	47.512, -122.304	0	0	0	0	0	0	0	0	0	0	0		
	Miscellaneous	Miscellaneous	6	6	6	6	6	6	6	6	6	6	60		
<b>Zone 2 Subtotals</b>			<b>18</b>	<b>18</b>	<b>21</b>	<b>33</b>	<b>36</b>	<b>36</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>270</b>		

Zone	Property	Lat/Lon	PHASE 1 - 2021/22	PHASE 2 - 2022/23	PHASE 3 - 2023/24	PHASE 4 - 2024/25	PHASE 5 - 2025/26	PHASE 6 - 2026/27	PHASE 7 - 2027/28	PHASE 8 - 2028/29	PHASE 9 - 2029/30	PHASE 10 - 2030/31	Replaced Pile per Facility	Permitted to be Removed & Replaced	Proposed to be Removed
<b>FRESHWATER: Lake Washington Ship Canal (Zone 3)</b>	Maritime Industrial Center	47.663, -122.392	0	6	24	24	24	24	24	24	0	0	150	<b>560</b>	
	Fisherman's Terminal	47.656, -122.379	24	24	24	24	24	24	24	24	24	24	240		
	Salmon Bay Marina	47.660, -122.385	5	5	5	5	5	5	5	5	5	5	50		
	Miscellaneous	Miscellaneous	12	12	12	12	12	12	12	12	12	12	120		
	<b>Zone 3 Subtotals</b>			<b>41</b>	<b>47</b>	<b>65</b>	<b>65</b>	<b>65</b>	<b>65</b>	<b>65</b>	<b>65</b>	<b>41</b>	<b>41</b>		
<b>Port-wide Totals</b>			<b>206</b>	<b>223</b>	<b>284</b>	<b>299</b>	<b>293</b>	<b>293</b>	<b>278</b>	<b>272</b>	<b>230</b>	<b>230</b>	<b>2608</b>	<b>2608</b>	<b>1100</b>

**Corps #:**  
**Applicant:** Port of Seattle  
**Location:** Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington  
**Project:** Pile Systems Repair and Maintenance Program (10 year)  
**Purpose:** Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# Pile Systems: Container Terminal Pier (typical)



**Corps #:**

**Applicant:**

**Location:**

**Project:**

**Purpose:**

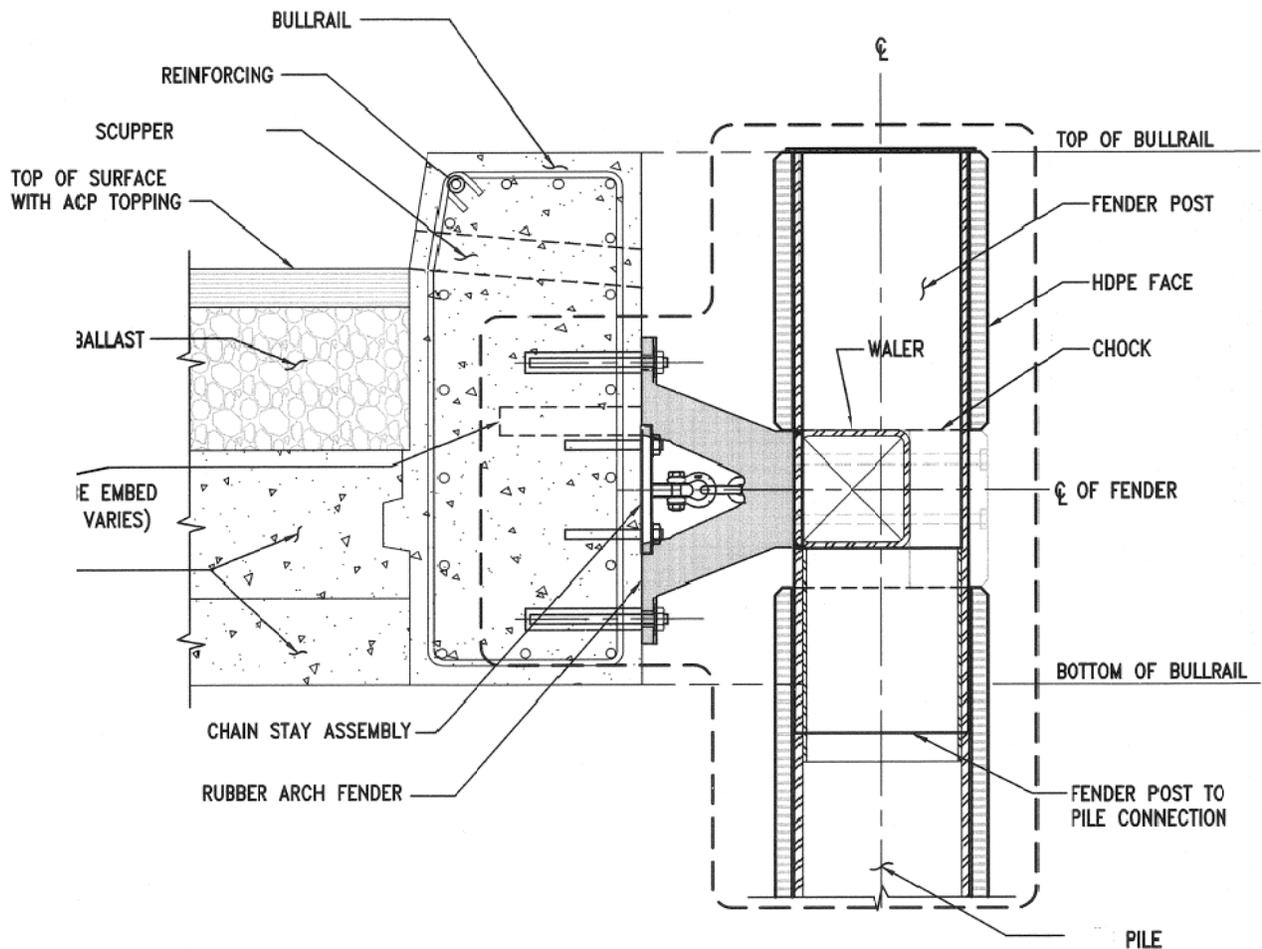
Port of Seattle

Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

Pile Systems Repair and Maintenance Program (10 year)

Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# Pile Systems: Container Terminal Fender System (typical)



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**Applicant:**

Port of Seattle

**Location:**

Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

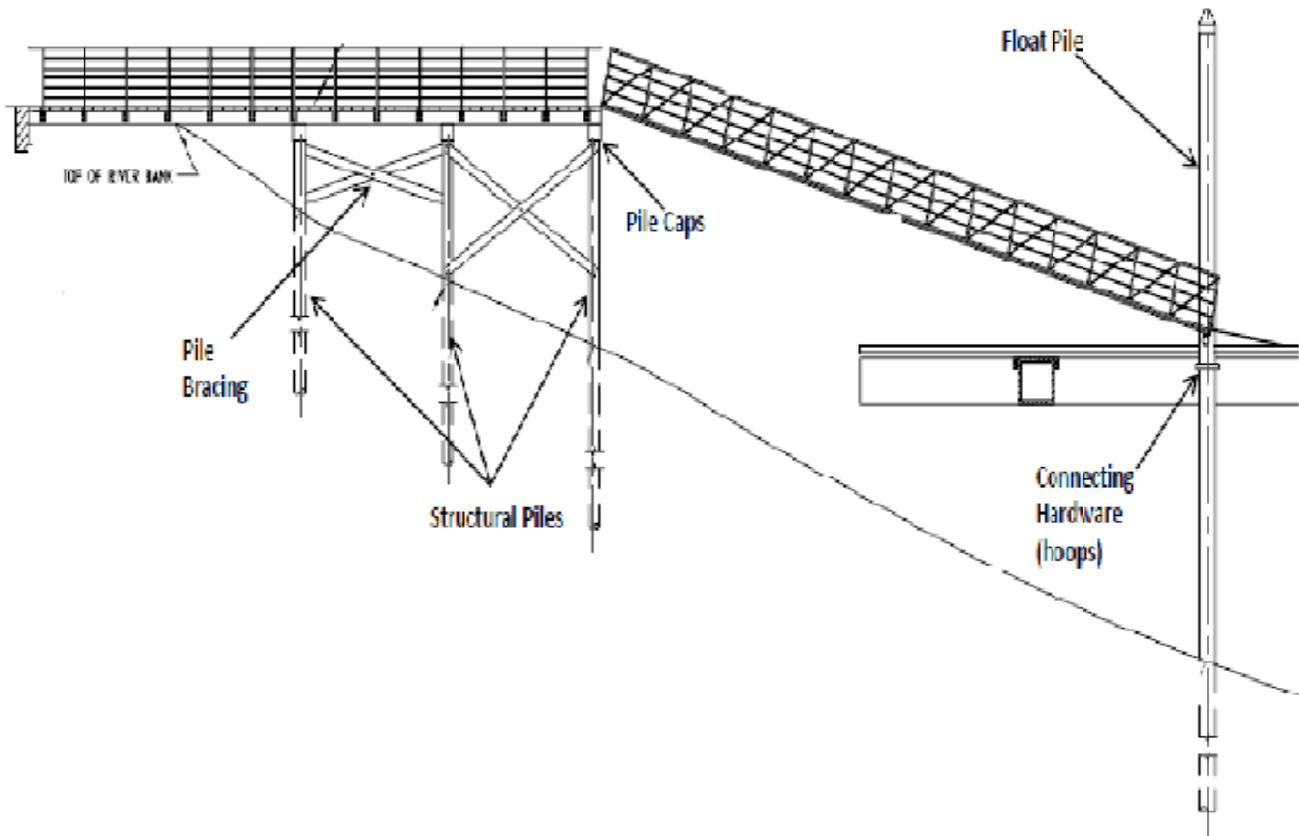
**Project:**

Pile Systems Repair and Maintenance Program (10 year)

**Purpose:**

Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# Pile Systems: Marina Piers and Floats (typical)



**Corps #:**

**Applicant:**

Port of Seattle

**Location:**

Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

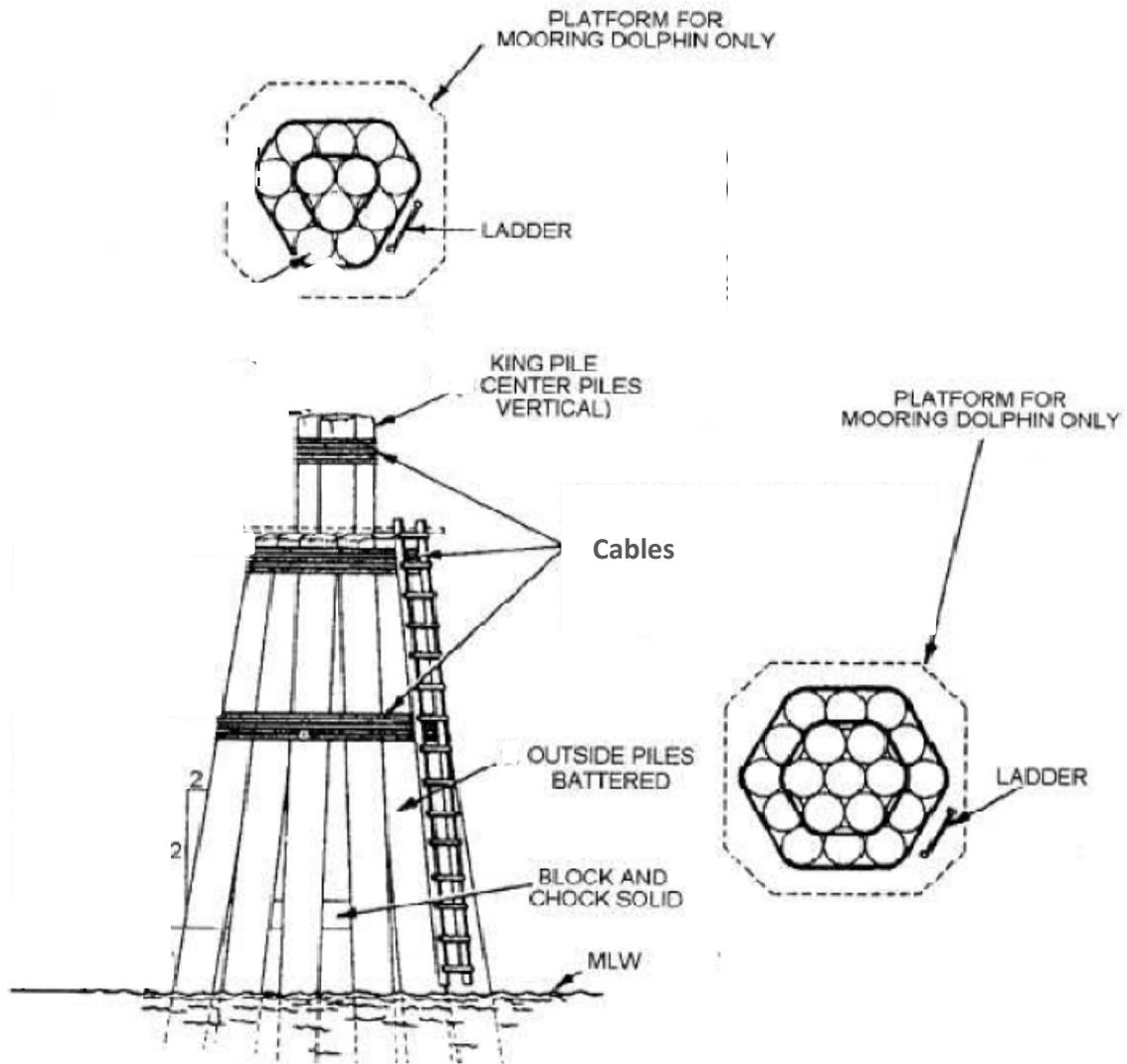
**Project:**

Pile Systems Repair and Maintenance Program (10 year)

**Purpose:**

Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

# Pile Systems: Dolphin Piles (typical)



**Corps #:**

**Applicant:**

**Location:**

**Project:**

**Purpose:**

Port of Seattle

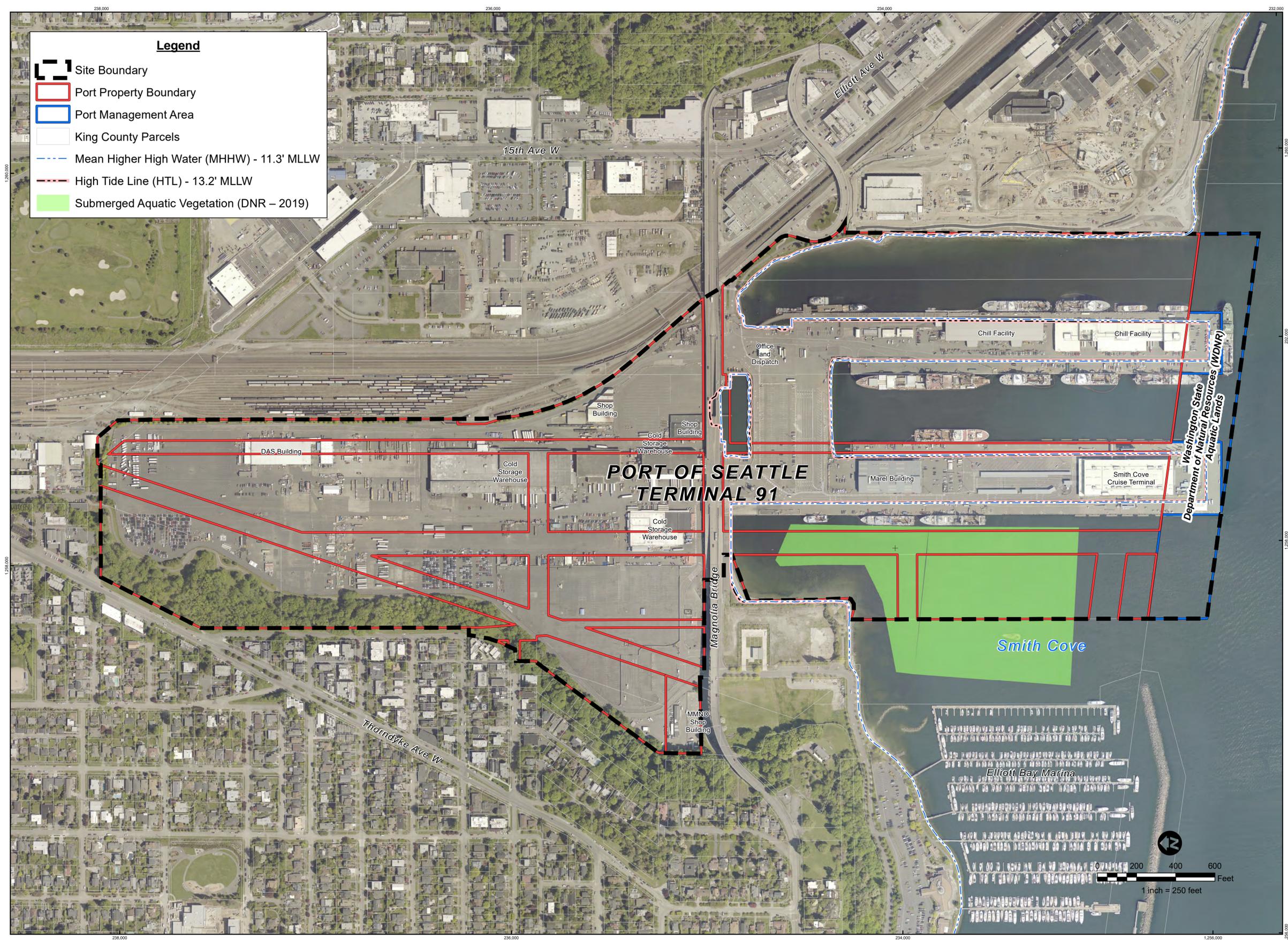
Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal  
City of Seattle and parts of unincorporated King County, Washington

Pile Systems Repair and Maintenance Program (10 year)

Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components



M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\01\_Data\_Request\SitePlans\Zone1A\_Terminal 91\_SitePlan - 2022-02-10.mxd - 2/10/2022 5:02:48 PM



PORT OF SEATTLE  
2711 ALASKAN WAY  
SEATTLE, WA 98121  
Phone: (206)787-3000

# Terminal 91 Pile Systems Repair & Maintenance 10-Year Programmatic

2001 W GARFIELD STREET  
Seattle, WA 98119

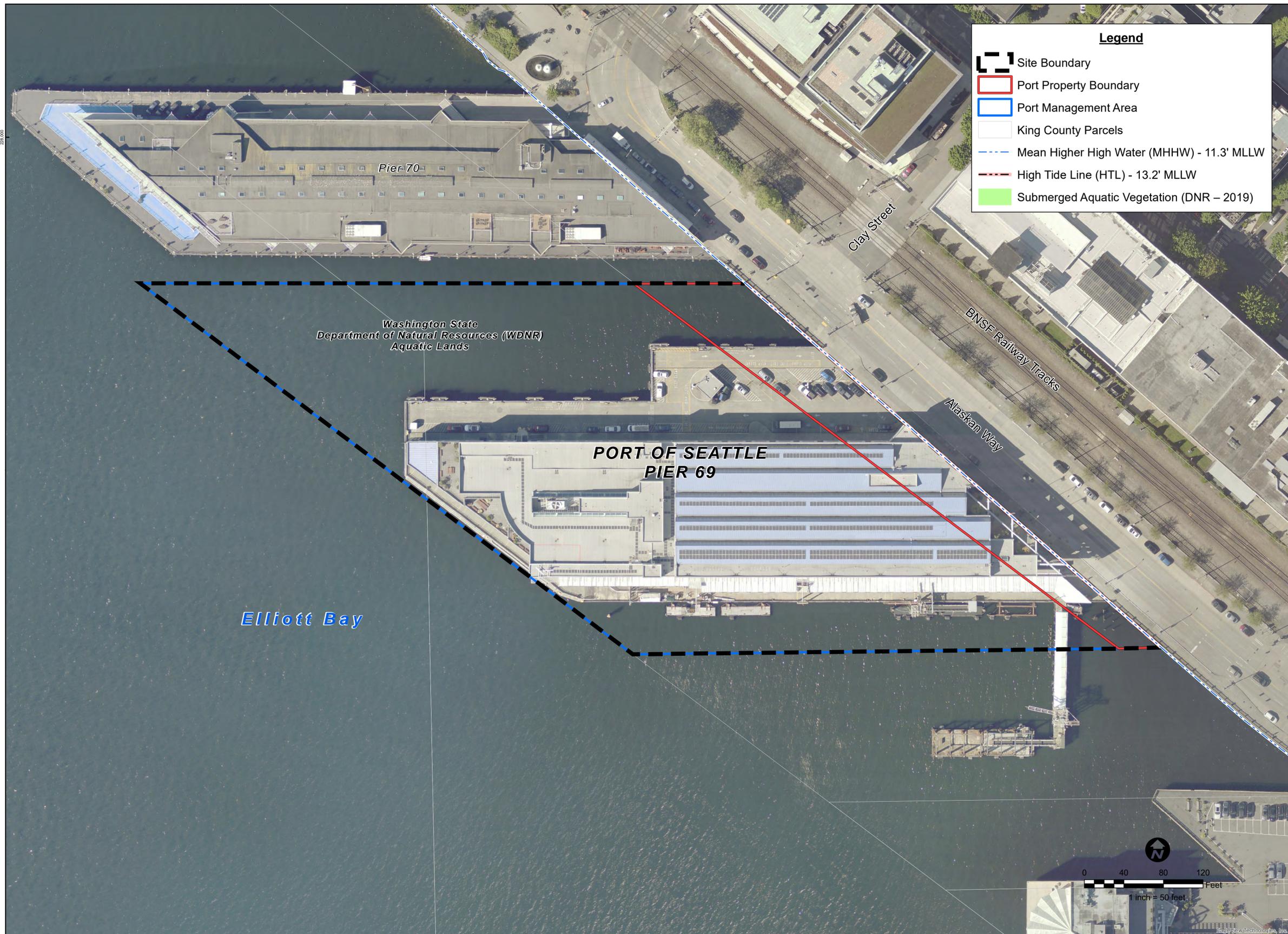
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POS PROJECT ENGINEER: -	DATE: February 10, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Name

SHEET TITLE  
Site Plan

SHEET NUMBER  
**2**

**Zone 1A**

M:\Environmental\Environmental\_GIS\GIS\_P\Projects\2021\03a\_Request\Site Plans\3a-Zone 1A\Pier 69\_SitePlan - 2022-02-11.mxd - 2/11/2022 8:28:33 AM



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Pier 69 Pile Systems Repair & Maintenance 10-Year Programmatic

2711 ALASKAN WAY  
 Seattle, WA 98121

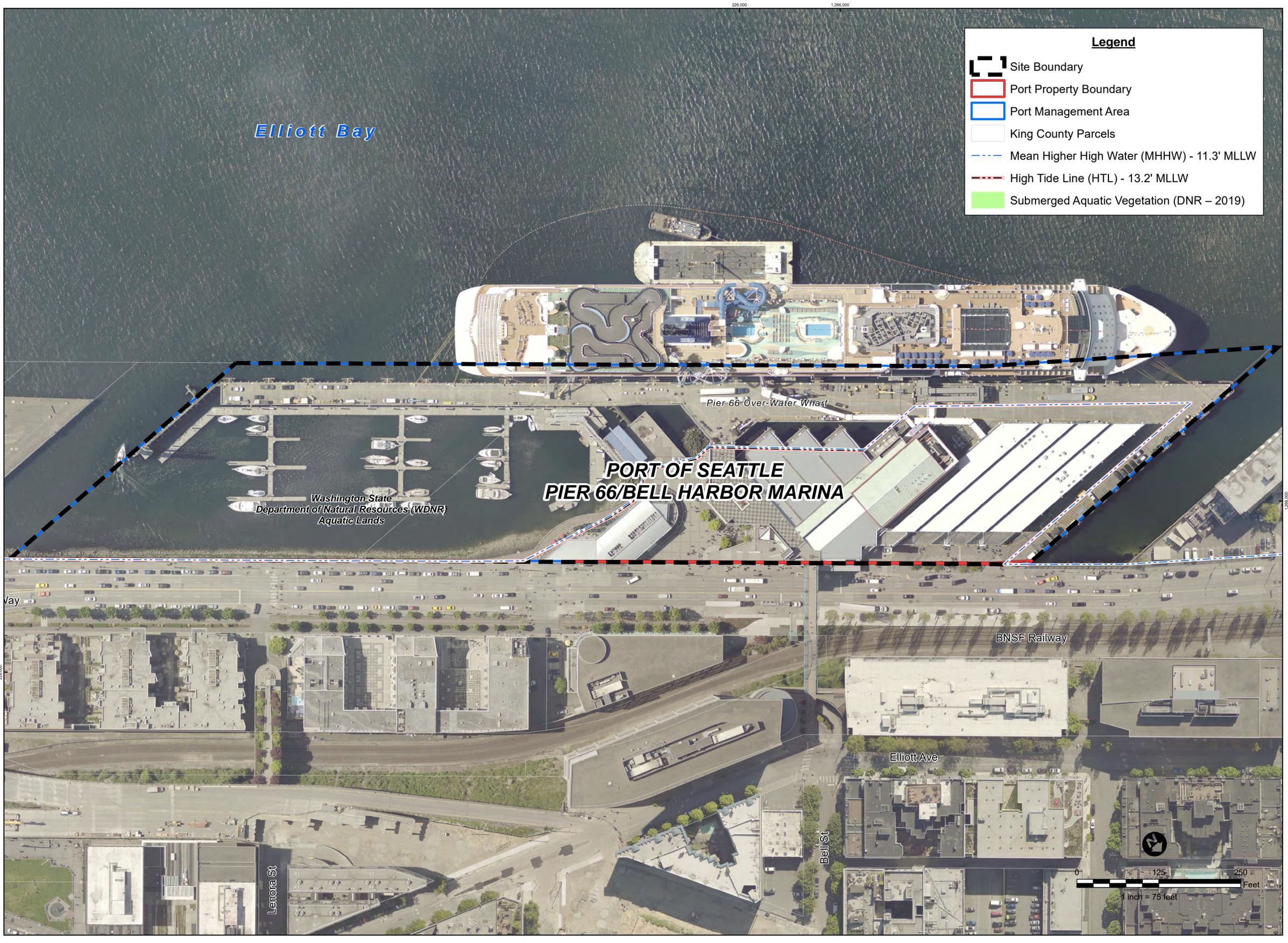
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POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 3

Zone 1A

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Request\SitePlans\Zone1A\_Pier\_66\_Site\_Plan\_2022-02-11.mxd - 2/11/2022 8:31:02 AM



**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 13.2' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
2711 ALASKAN WAY  
SEATTLE, WA 98121  
Phone: (206)787-3000

# Pier 66 Pile Systems Repair & Maintenance 10-Year Programmatic

2203 Alaskan Way  
Seattle, WA 98121

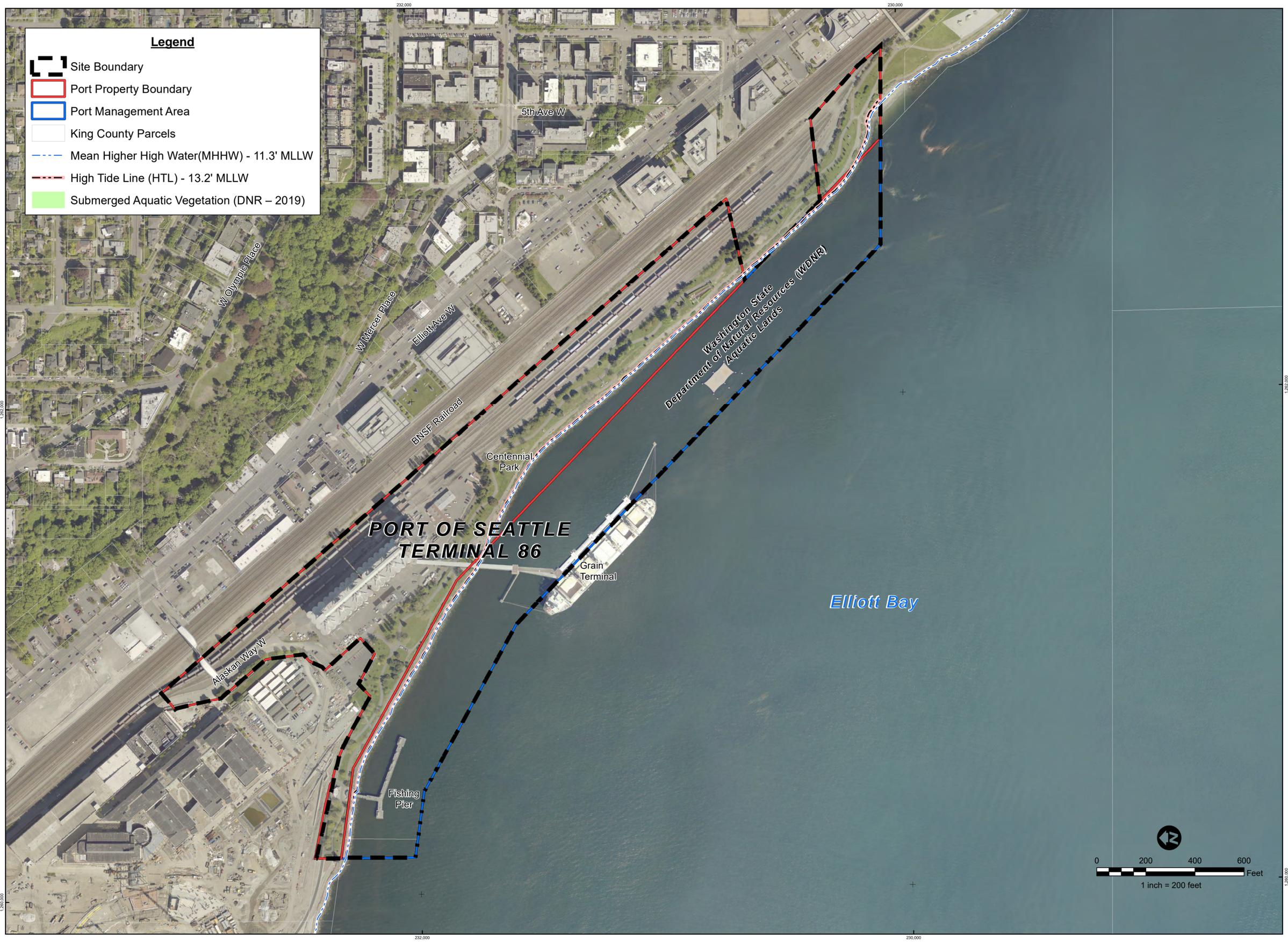
POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
**Site Plan**

SHEET NUMBER  
**4**

**Zone 1A**

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\01a\_Request\Site Plans\Zone 1A\_Terminal 86 - Site Plan - 2022-02-11.mxd - 2/11/2022 8:55:34 AM



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 86 Pile Systems Repair & Maintenance 10-Year Programmatic

955 Alaskan Way W  
 Seattle, WA 98119

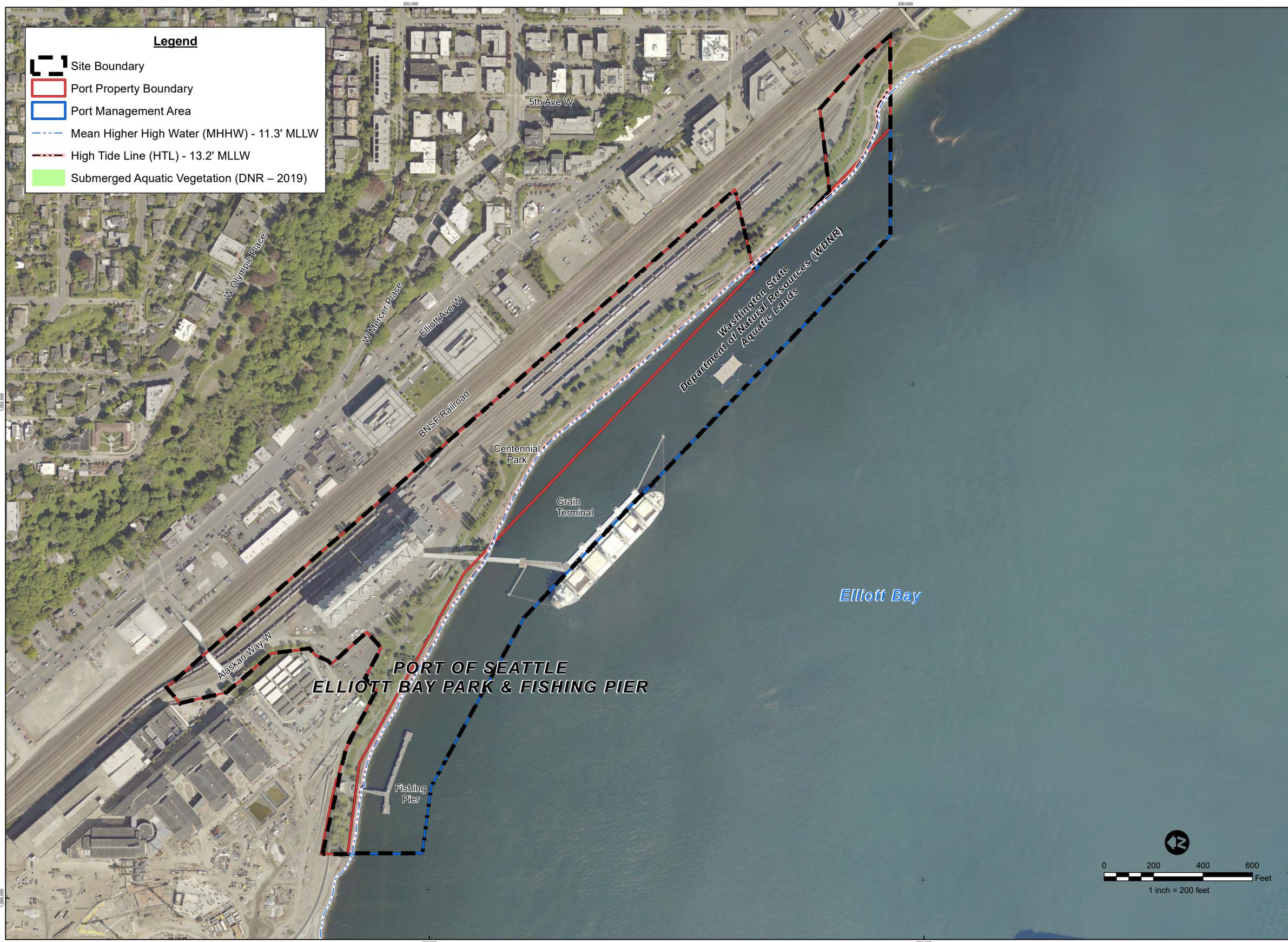
POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 5

Zone 1A

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\01a\_Requests\01a\01a\_Elliott Bay Park and Fishing Pier\_SitePlan - 2022-02-11.mxd - 2/11/2022 8:38:35 AM



**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 13.2' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Elliott Bay Park & Fishing Pier Pile Systems Repair & Maintenance 10-Year Programmatic

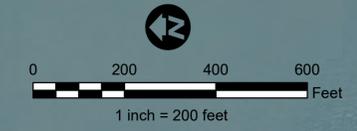
955 Alaskan Way W  
 Seattle, WA 98119

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POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

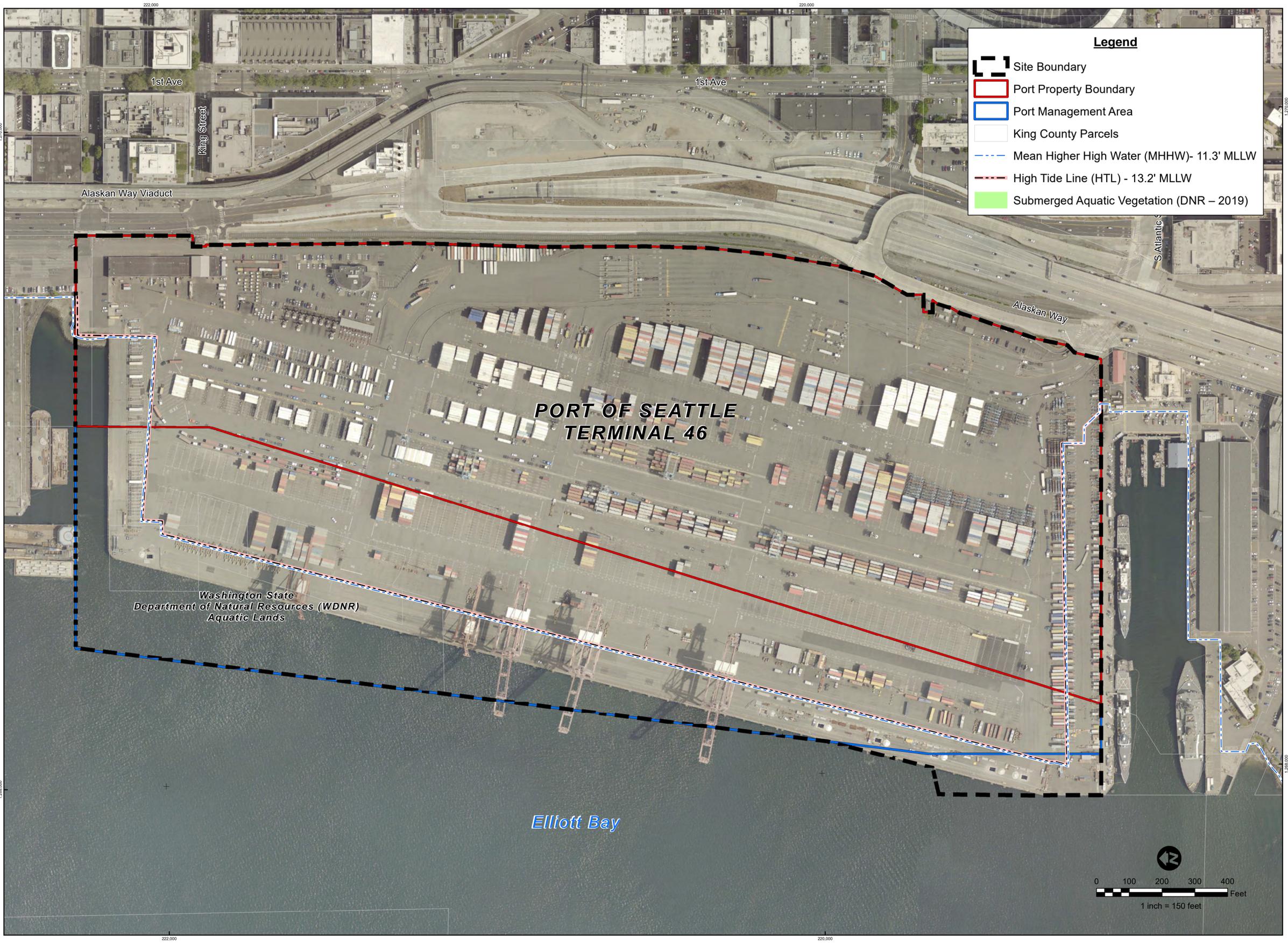
SHEET TITLE  
 Site Plan

SHEET NUMBER  
 6

**Zone 1A**



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PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 46 Pile Systems Repair & Maintenance 10-Year Programmatic

401 Alaskan Way  
 Seattle, WA 98104

POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 7

Zone 1A

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Request\Site Plans\Zone 1A\Pier 16 & 17 - Site Plan - 2022-02-11.mxd : 2/11/2022 8:44:31 AM



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Piers 16 & 17 Pile Systems Repair & Maintenance 10-Year Programmatic

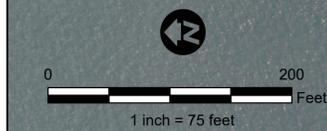
1002 SW SPOKANE STREET  
 Seattle, WA 98134

POS PROJECT MANAGER: -	POS DRAFTER: -
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POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

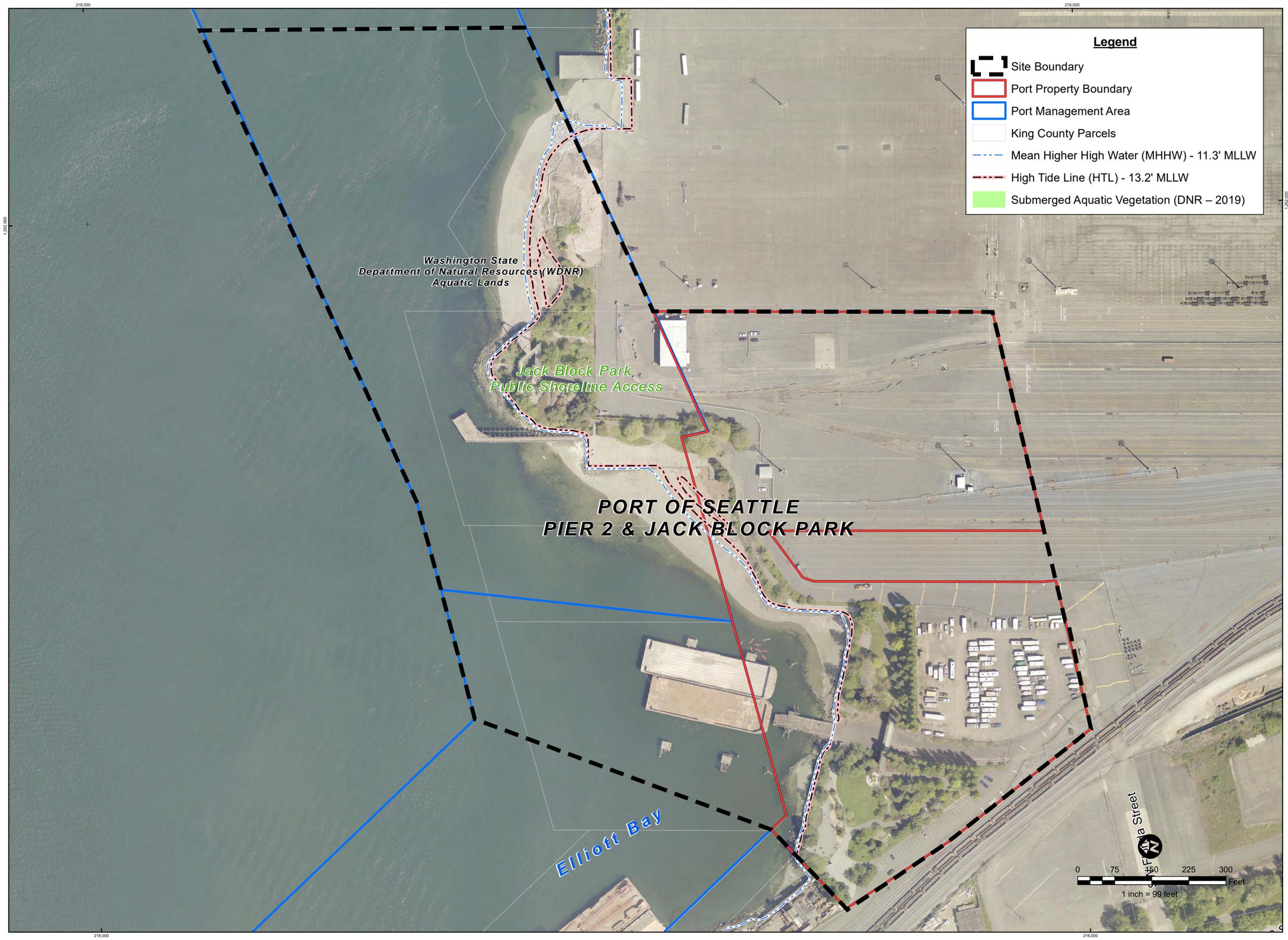
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 Site Plan

SHEET NUMBER  
 8

Zone 1A



M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Request\Site Plans\19 - Zone 1A-Pier 2 and JBP - Site Plan - 2022-02-11.mxd - 2/11/2022 8:55:11 AM



**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 13.2' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Pier 2 & Jack Block Park Pile Systems Repair & Maintenance 10-Year Programmatic

2900 SW FLORIDA ST  
 Seattle, WA 98126

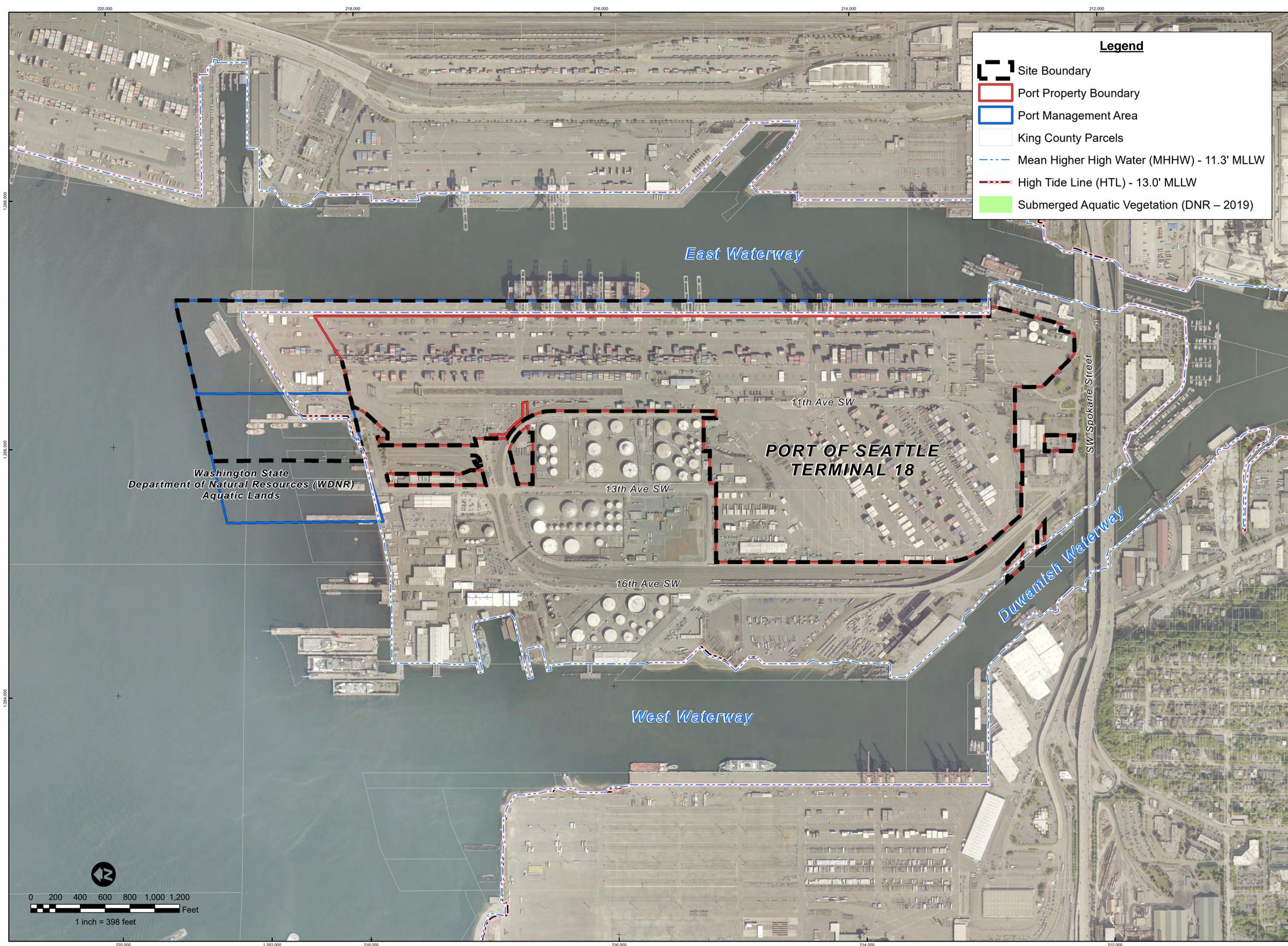
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POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 9

**Zone 1A**

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Request\Site Plans\10-Zone 1B-Terminal 18 - Site Plan - 2022-02-11.mxd : 2/11/2022 10:22:05 AM



PORT OF SEATTLE  
2711 ALASKAN WAY  
SEATTLE, WA 98121  
Phone: (206)787-3000

# Terminal 18 Pile Systems Repair & Maintenance 10-Year Programmatic

1050 SW SPOKANE STREET  
Seattle, WA 98134

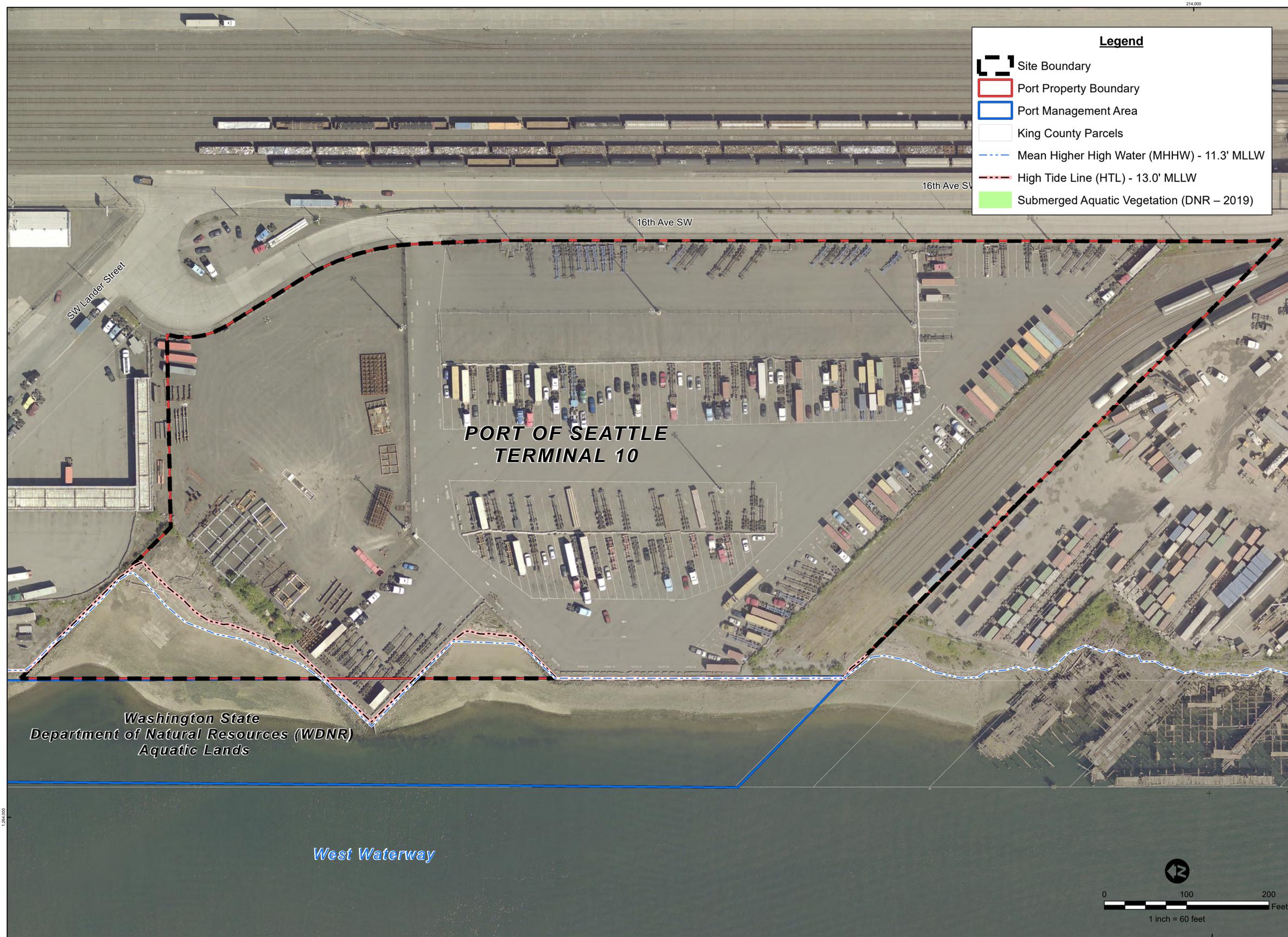
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POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
Site Plan

SHEET NUMBER  
**10**

**Zone 1B**

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Request\SitePlans\11-Zone1B-Terminal 10 - Site Plan - 2022-02-11.mxd : 2/11/2022 10:31:04 AM



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 10 Pile Systems Repair & Maintenance 10-Year Programmatic

3045 16th Ave SW  
 Seattle, WA 98134

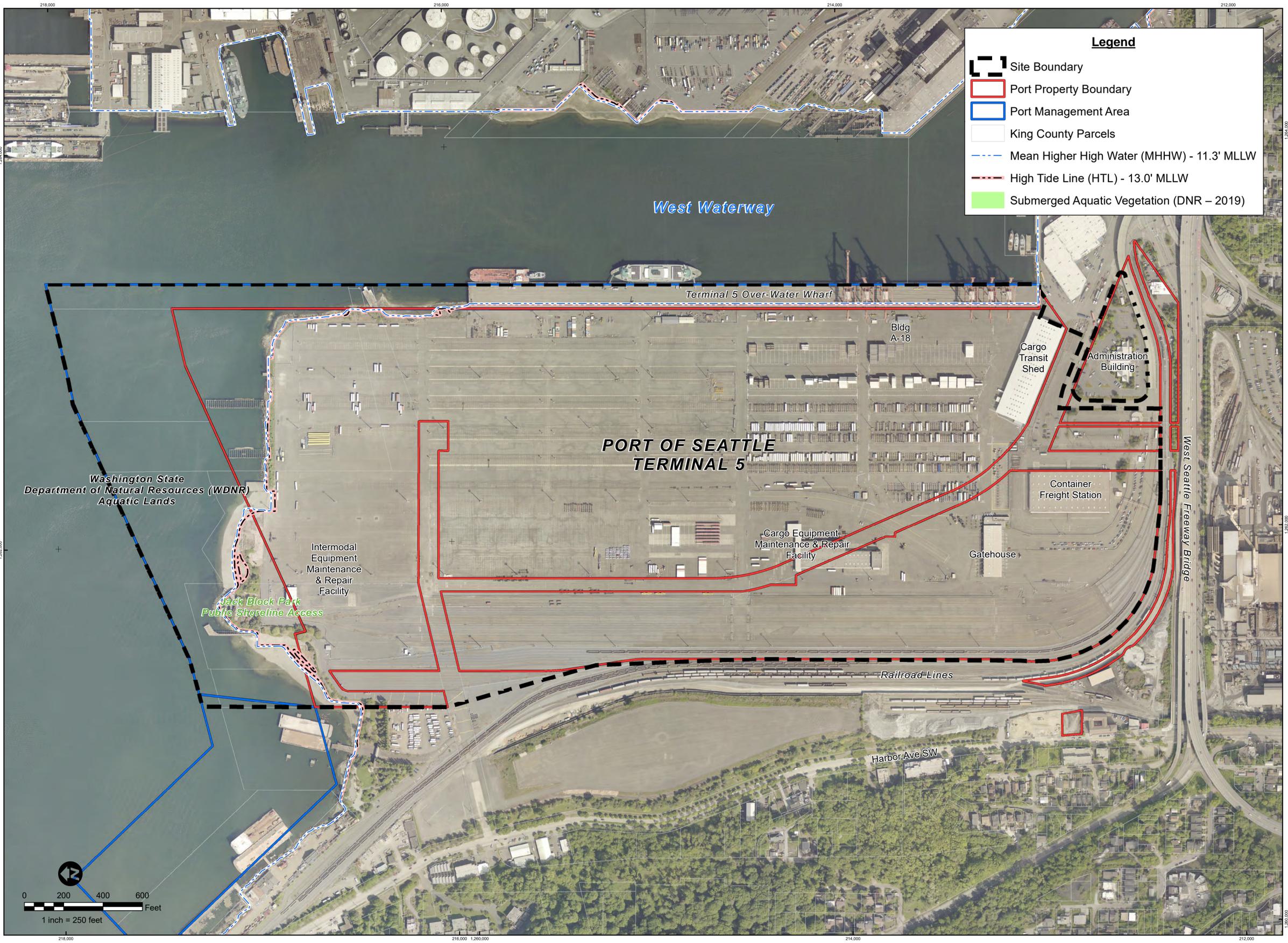
POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 11

Zone 1B

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\04a\_Requests\Danielle\_Butts\PIE\_Programmatic\_Permit\12a-1\Site Plan - 2022-02-11.mxd : 2/11/2022 10:22:26 AM



**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 13.0' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
2711 ALASKAN WAY  
SEATTLE, WA 98121  
Phone: (206)787-3000

# Terminal 5 Pile Systems Repair & Maintenance 10-Year Programmatic

3443 W Marginal Way SW  
Seattle, WA 98106

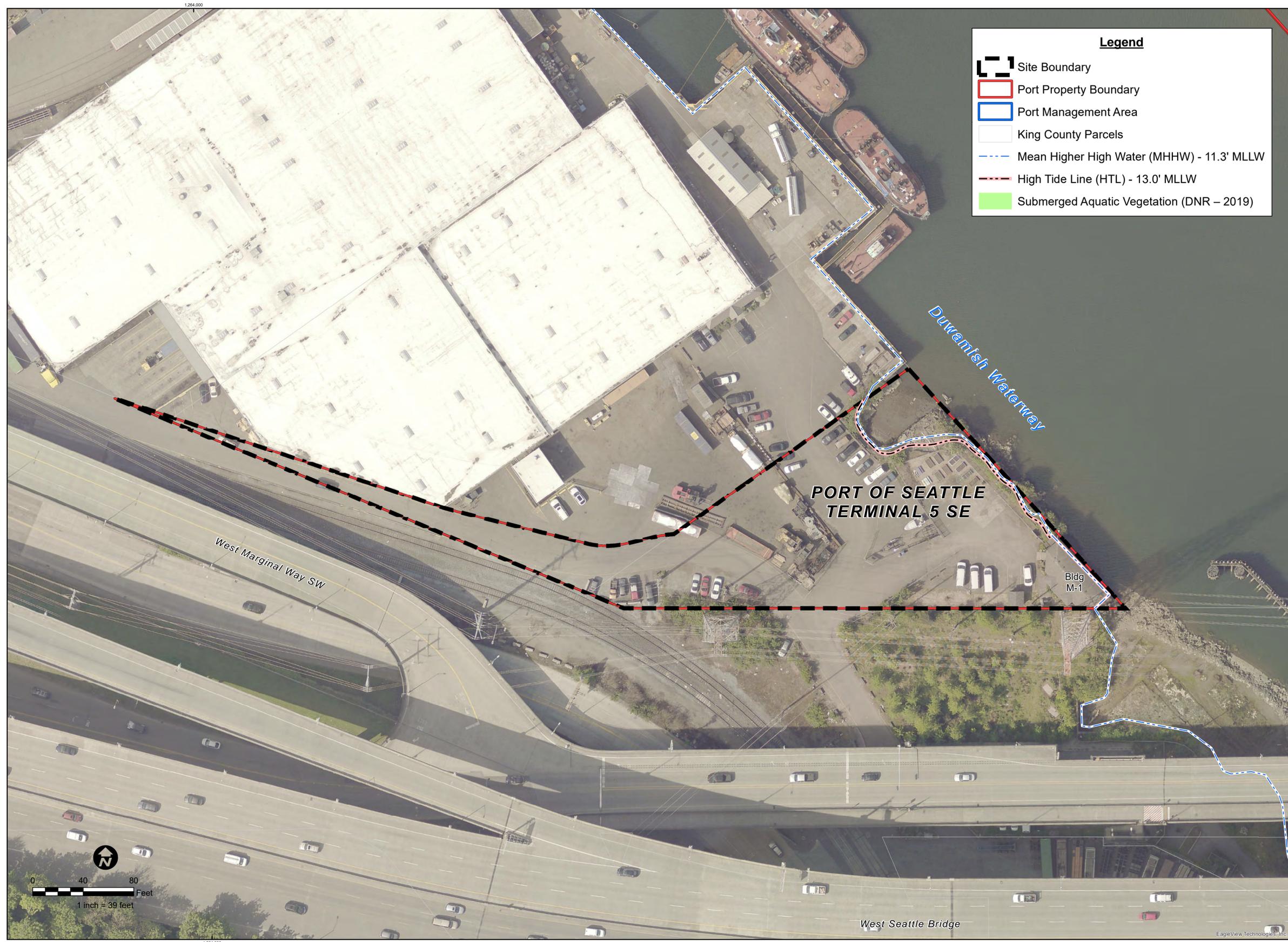
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POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
Site Plan

SHEET NUMBER  
**12a**

**Zone 1B**

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Requests\03a\03a\_Pile\_Programmatic\_Permit\12b-Zone 1B-Terminal 5 SE - Site Plan - 2022-02-11.mxd - 2/14/2022 8:58:09 AM



**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 13.0' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 5 SE Pile Systems Repair & Maintenance 10-Year Programmatic

3568 W Marginal Way SW  
 Seattle, WA 98106

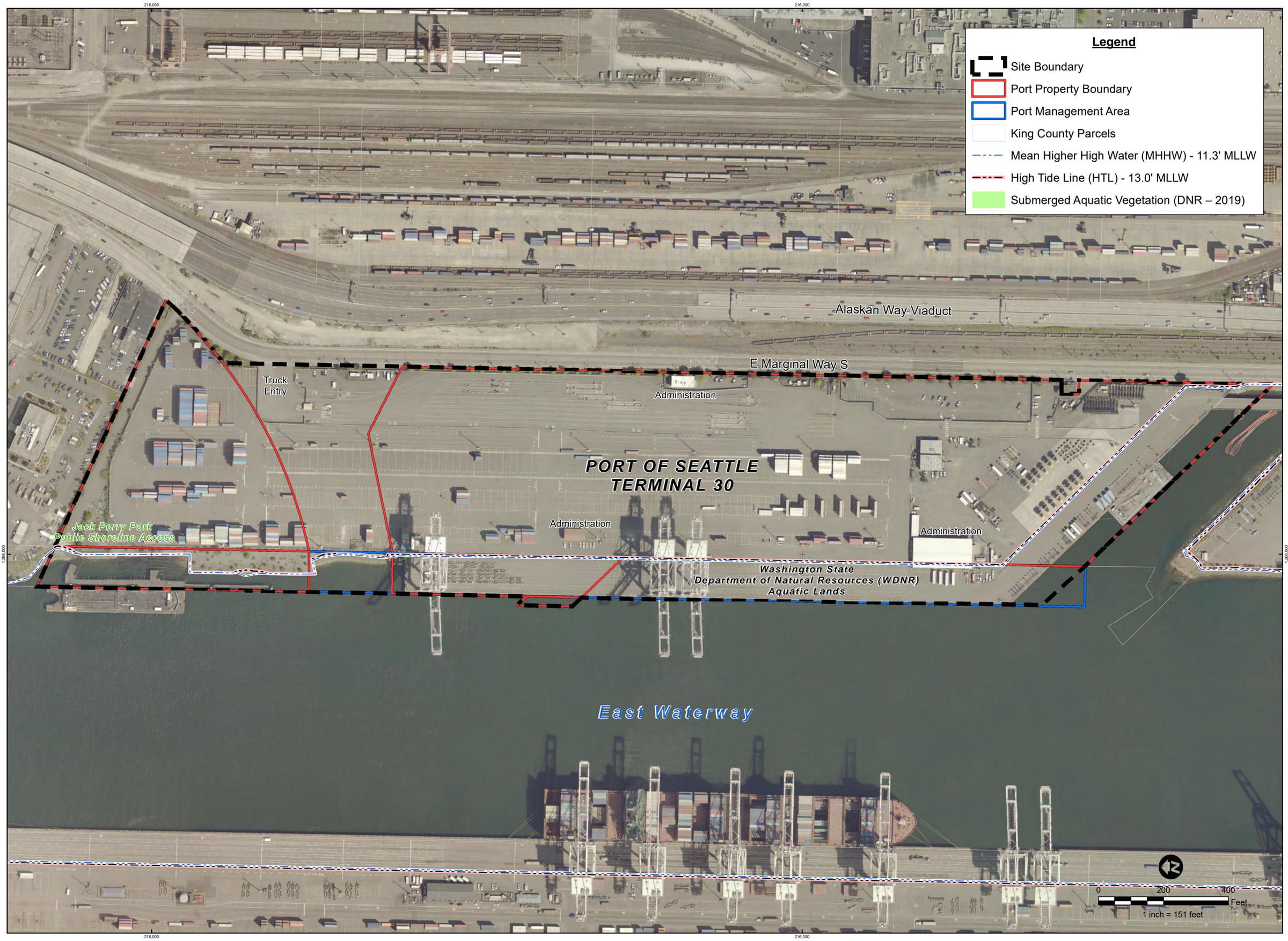
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POS PROJECT ENGINEER: -	DATE: February 14, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
Site Plan

SHEET NUMBER  
12b

Zone 1B

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PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 30 Pile Systems Repair & Maintenance 10-Year Programmatic

1901 E Marginal Way S  
 Seattle, WA 98134

POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 13

Zone 1B

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Request\Site Plans\14-Zone 1B-Pier 28 - Site Plan - 2022-02-11.mxd - 2/11/2022 10:52:20 AM



PORT OF SEATTLE  
2711 ALASKAN WAY  
SEATTLE, WA 98121  
Phone: (206)787-3000

# Pier 28 Pile Systems Repair & Maintenance 10-Year Programmatic

1901 E Marginal Way S  
Seattle, WA 98134

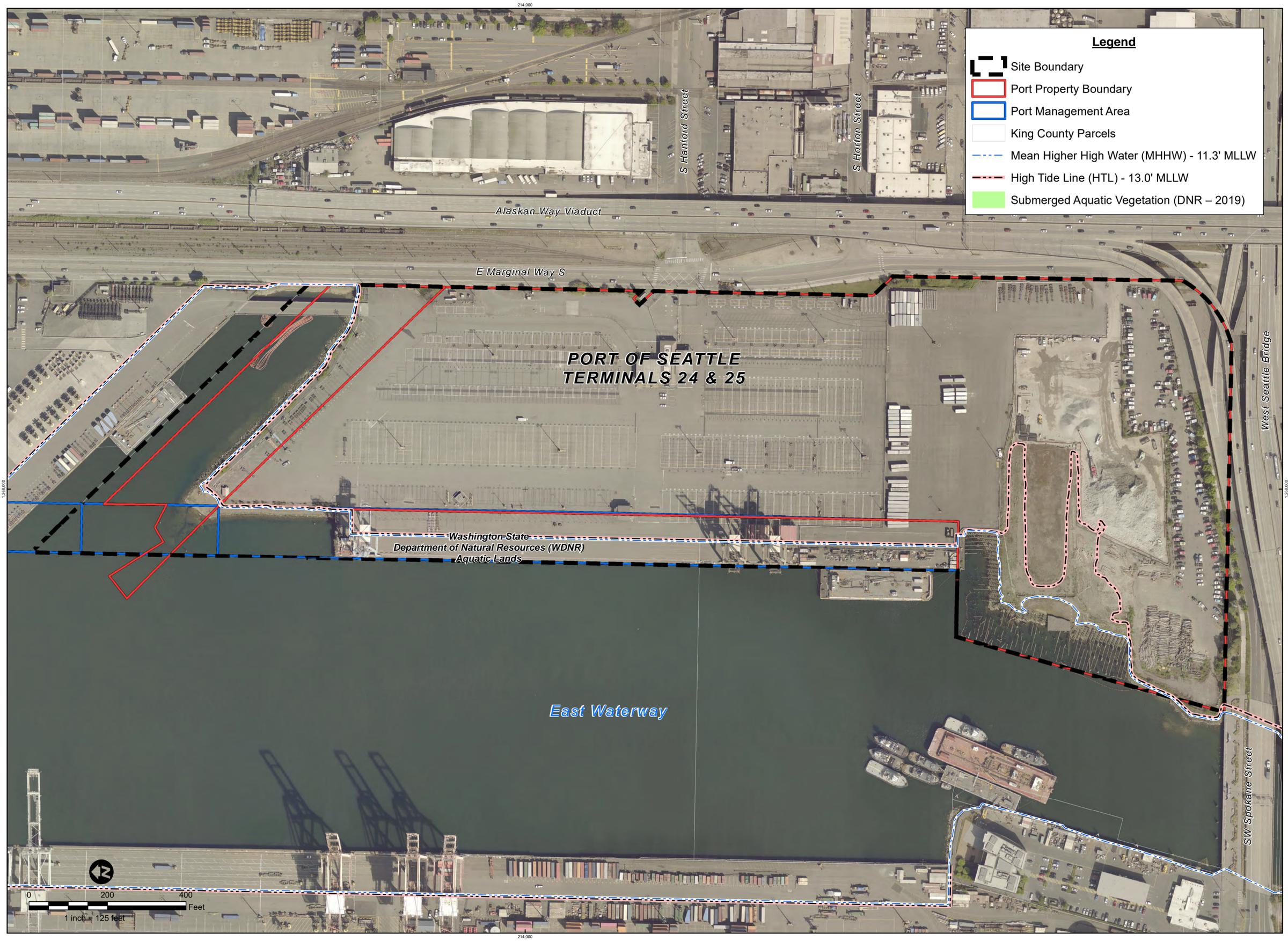
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POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
Site Plan

SHEET NUMBER  
**14**

**Zone 1B**

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PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 24 & 25 Pile Systems Repair & Maintenance 10-Year Programmatic

2911 E Marginal Way S  
 Seattle, WA 98134

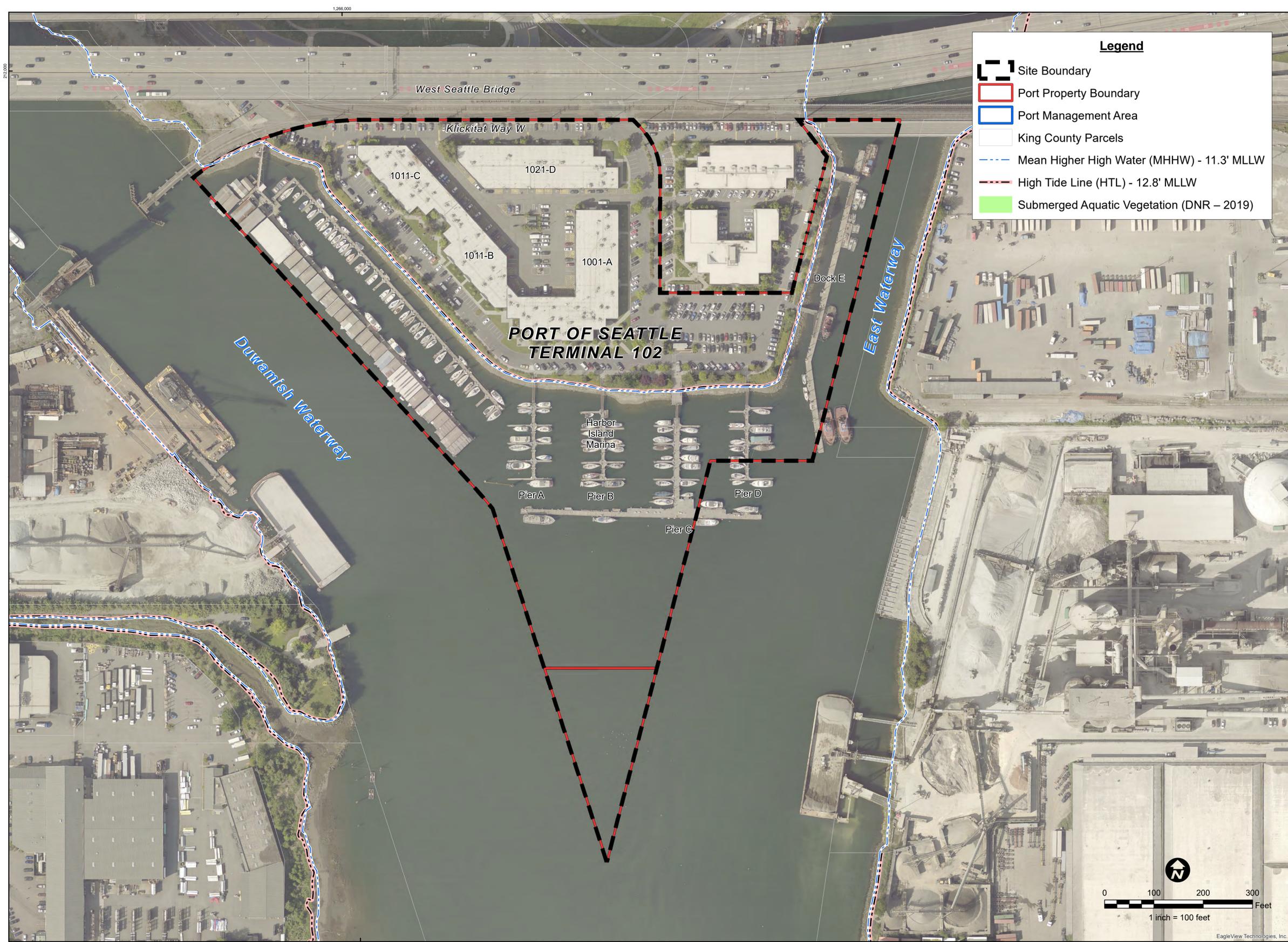
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POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 15

Zone 1B

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Requests\Danielle\_Butts\SitePlan\_102\_SitePlan\_2022-02-11.mxd - 2/11/2022 11:01:38 AM



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 102 Pile Systems Repair & Maintenance 10-Year Programmatic

1001 Klickitat Way SW  
 Seattle, WA 98134

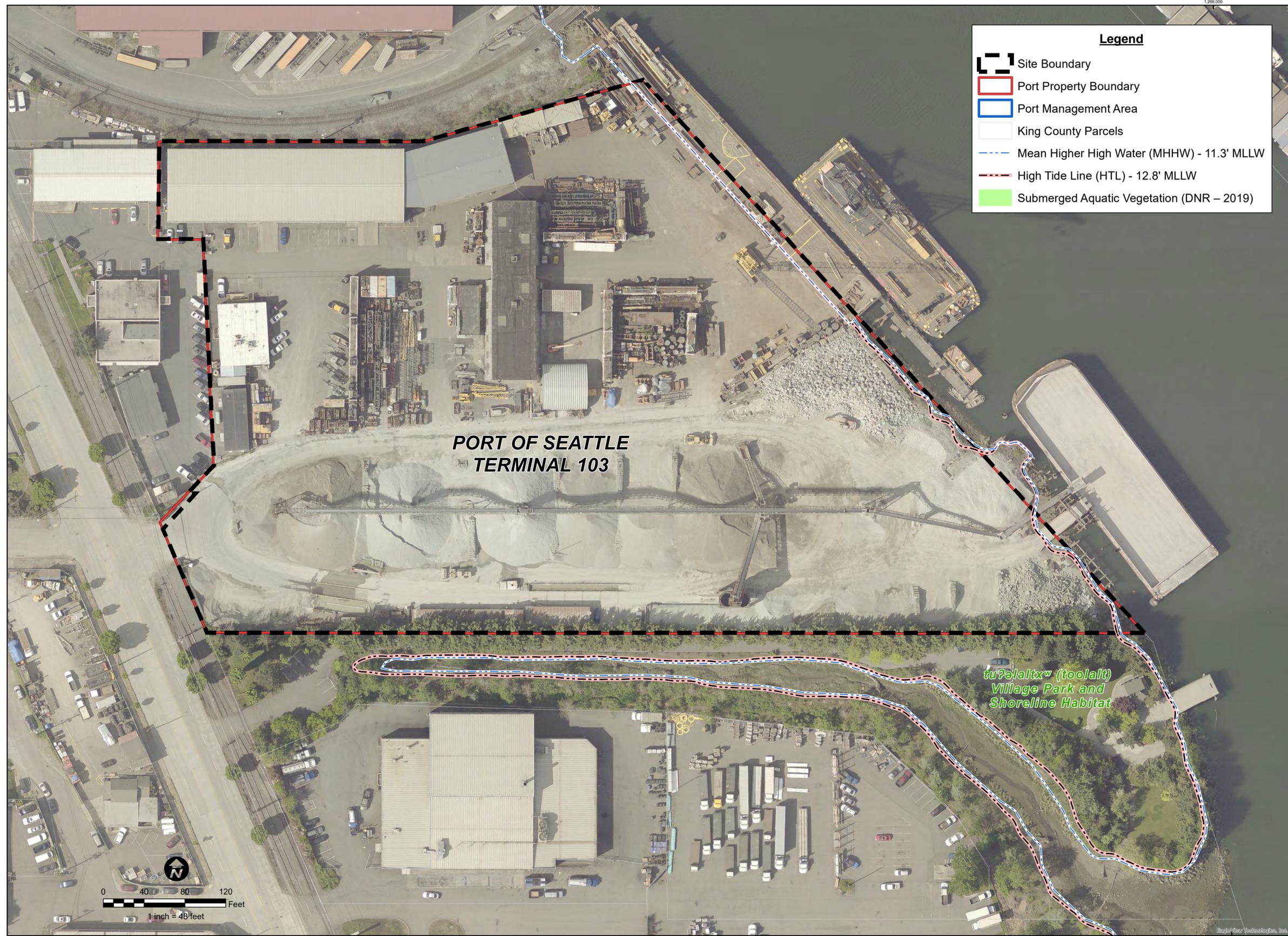
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POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 16

Zone 2

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\03a\_Requests\Site Plans\17\_Zone2\Terminal 103 - Site Plan - 2022-02-11.mxd : 2/11/2022 11:27:27 AM



**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 12.8' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 103 Pile Systems Repair & Maintenance 10-Year Programmatic

3838 W Marginal Way SW  
 Seattle, WA 98106

POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

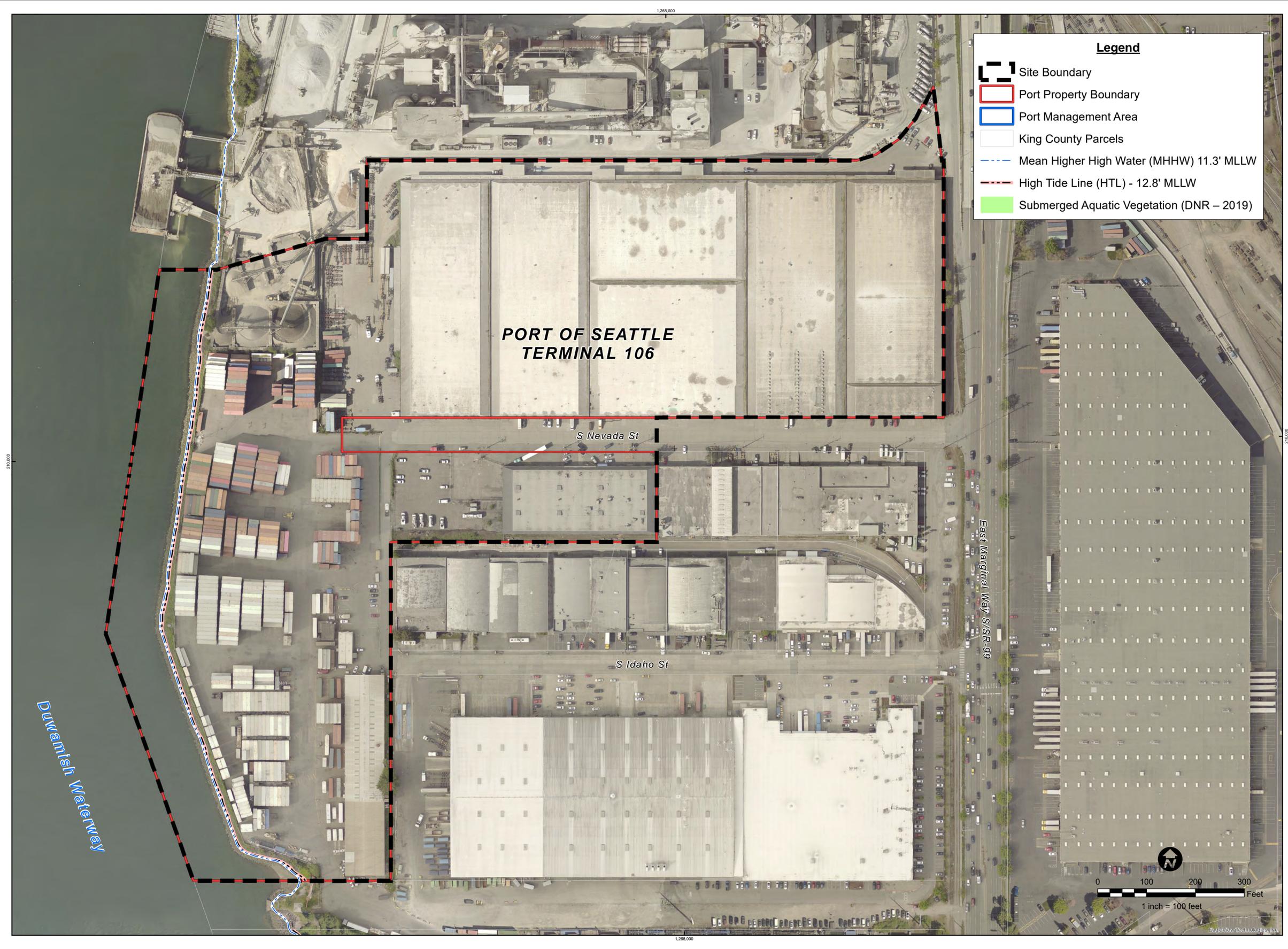
SHEET TITLE  
 Site Plan

SHEET NUMBER  
 17

Zone 2



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**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water (MHHW) 11.3' MLLW
- High Tide Line (HTL) - 12.8' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 106

## Pile Systems Repair & Maintenance 10-Year Programmatic

3801 E Marginal Way S,  
 Seattle, WA 98134

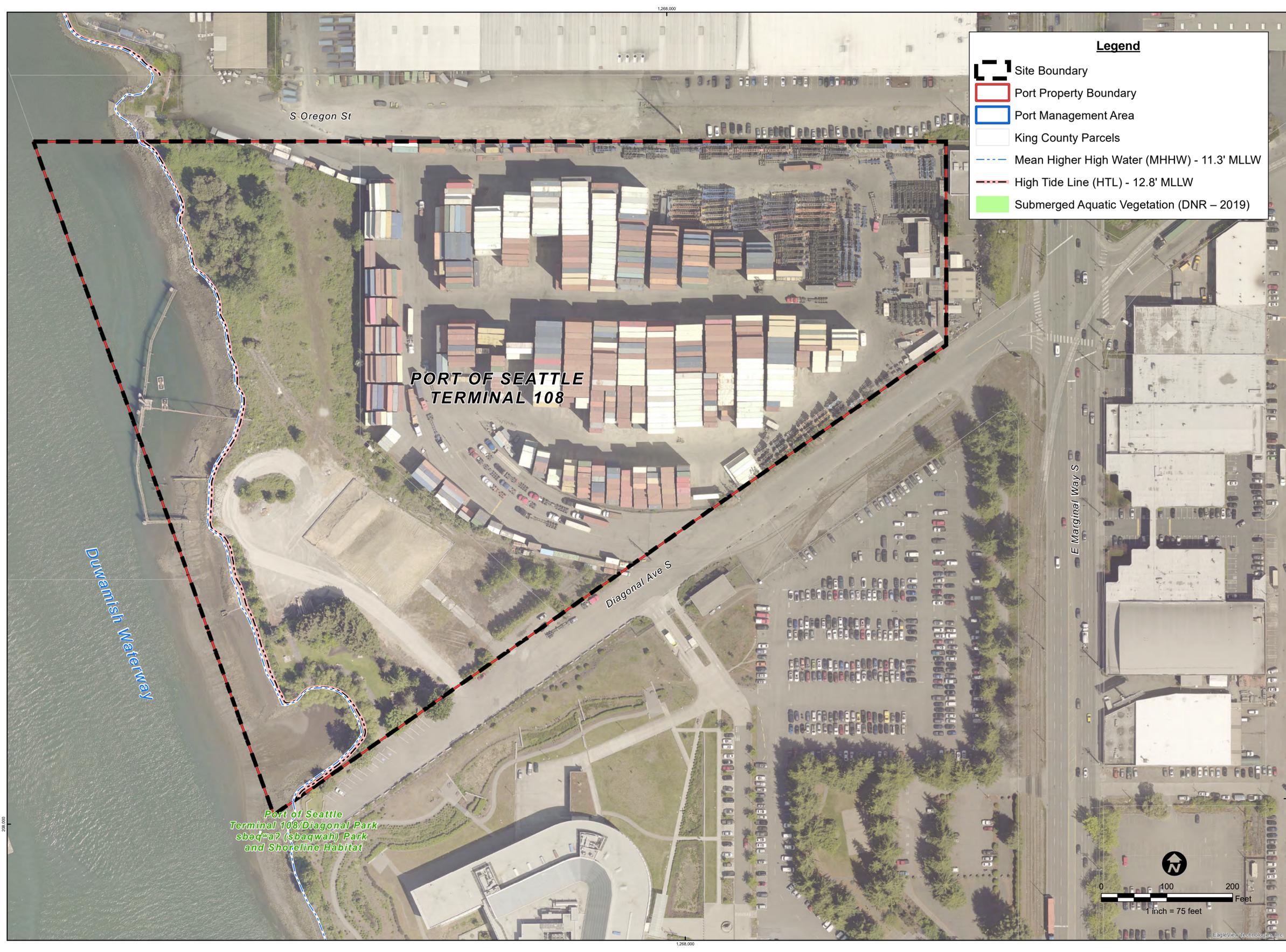
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POS PROJECT ENGINEER: -	DATE: February 11, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 19

Zone 2

M:\Environmental\Environmental\_GIS\GIS\_Projects\2021\04\_Data\_Request\SitePlans\108\_Terminal\_108\_Site\_Plan\_2022-02-11.mxd - 2/14/2022 9:38:09 AM



**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 12.8' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Terminal 108 Pile Systems Repair & Maintenance 10-Year Programmatic

4663 Diagonal Ave S  
 Seattle, WA 98134

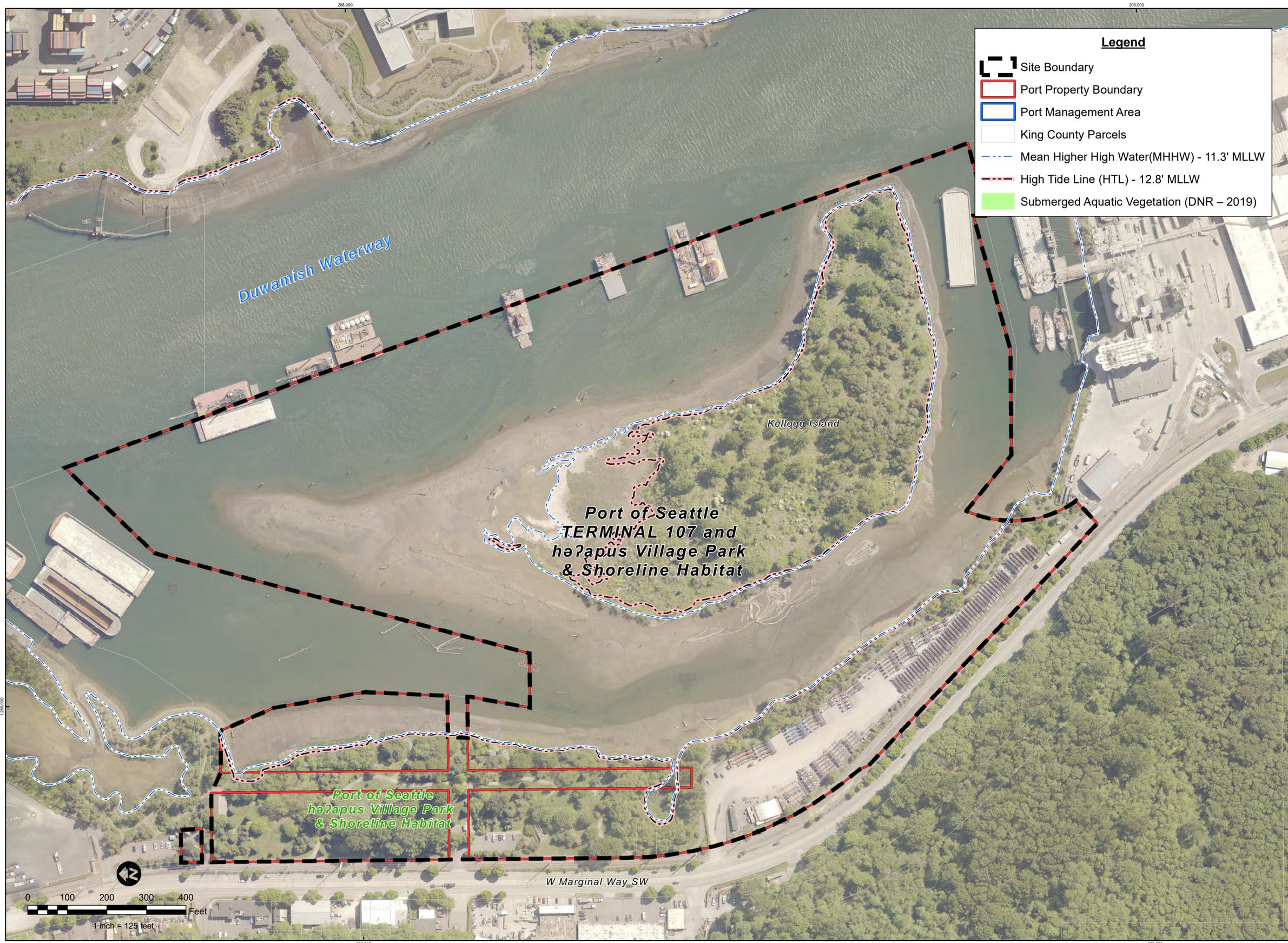
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POS PROJECT ENGINEER: -	DATE: February 14, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
Site Plan

SHEET NUMBER  
20

Zone 2

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**Legend**

- Site Boundary
- Port Property Boundary
- Port Management Area
- King County Parcels
- Mean Higher High Water(MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 12.8' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

**Terminal 107  
 Pile Systems Repair & Maintenance  
 10-Year Programmatic**

4700 W Marginal Way SW,  
 Seattle, WA 98106

POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 14, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

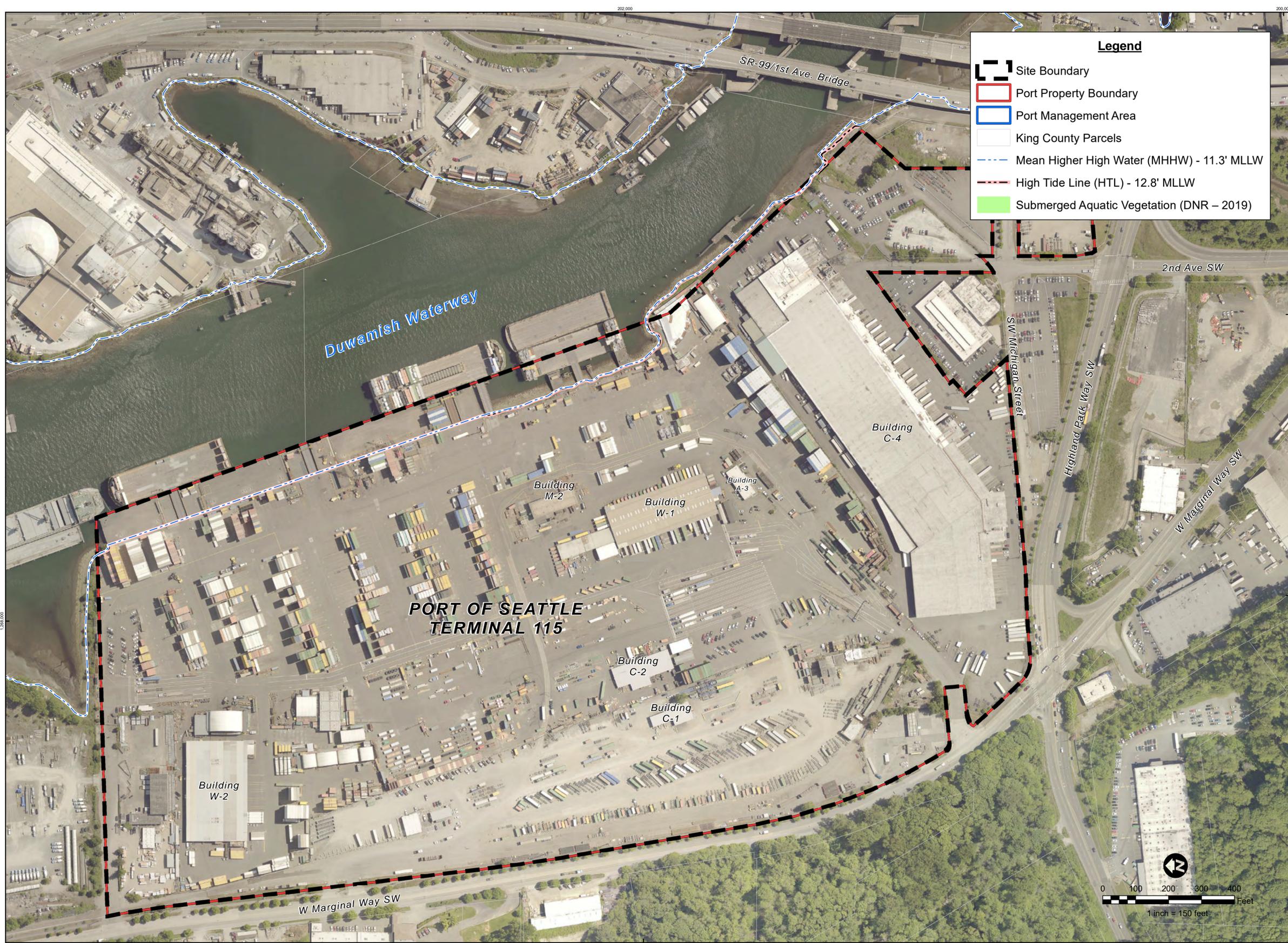
SHEET TITLE  
 Site Plan

SHEET NUMBER  
 21

**Zone 2**



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PORT OF SEATTLE  
2711 ALASKAN WAY  
SEATTLE, WA 98121  
Phone: (206)787-3000

# Terminal 115 Pile Systems Repair & Maintenance 10-Year Programmatic

150 SW Michigan St,  
Seattle, WA 98106

POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 14, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE	Site Plan
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SHEET NUMBER	23
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Zone 2
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PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

**Terminal 117  
 Duwamish River People's Park  
 and Shoreline Habitat  
 Pile Systems Repair & Maintenance  
 10-Year Programmatic**

8700 Dallas Ave S,  
 Seattle, WA 98108

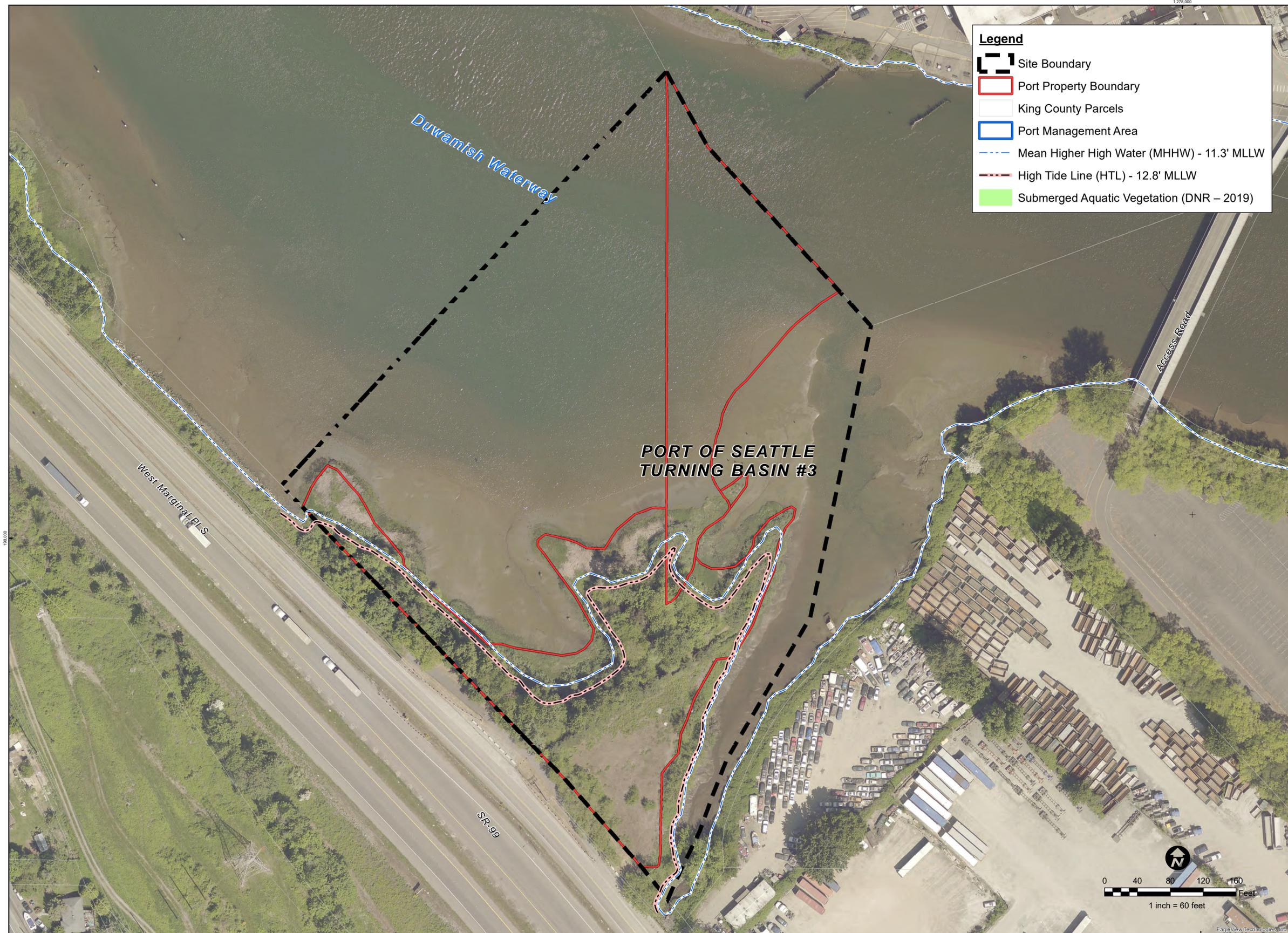
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POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 24

**Zone 2**

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**Legend**

- Site Boundary
- Port Property Boundary
- King County Parcels
- Port Management Area
- Mean Higher High Water (MHHW) - 11.3' MLLW
- High Tide Line (HTL) - 12.8' MLLW
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Turning Basin #3 Pile Systems Repair & Maintenance 10-Year Programmatic

8700 Dallas Ave S,  
 Seattle, WA 98108

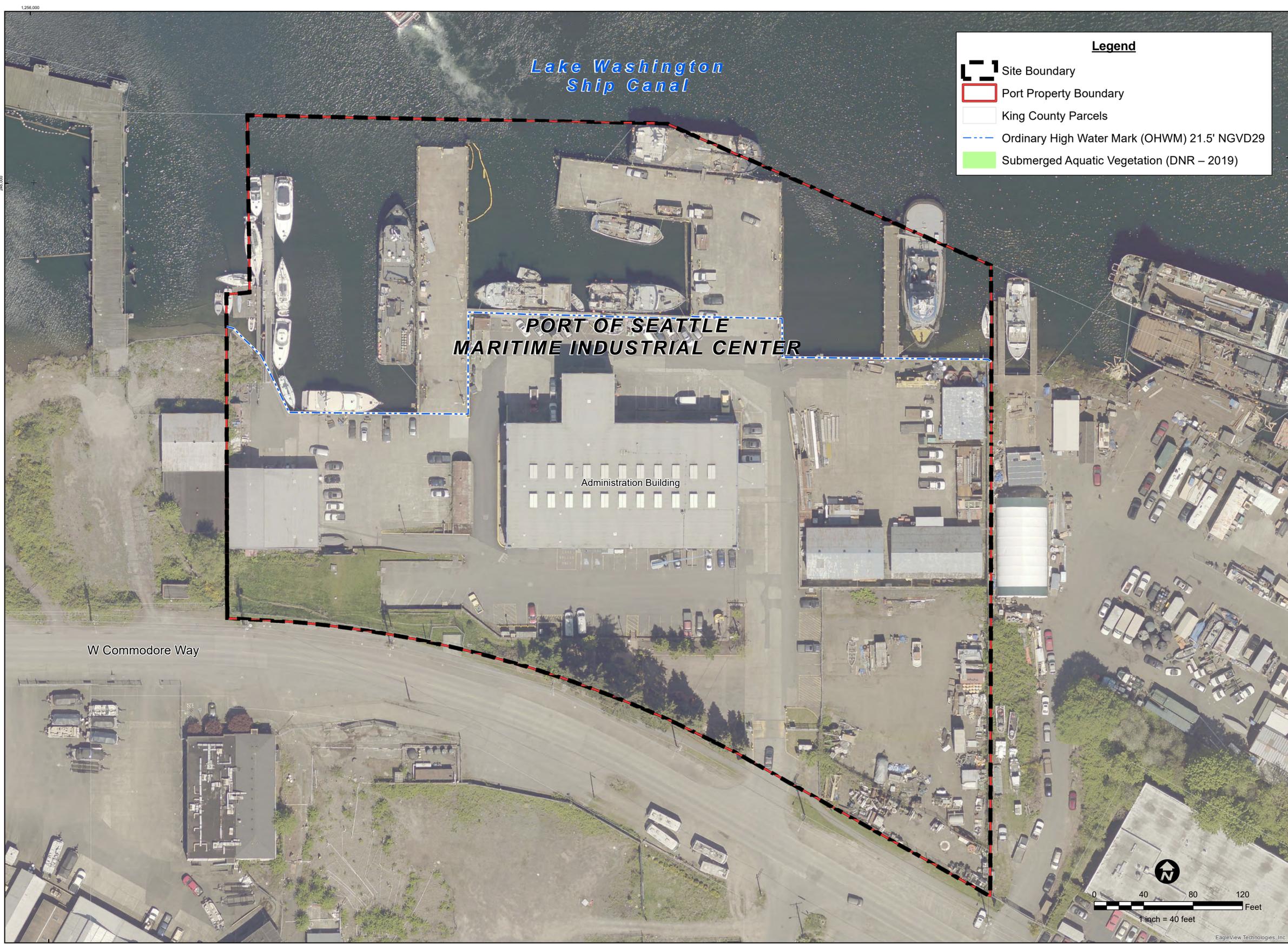
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POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Butsick

SHEET TITLE  
Site Plan

SHEET NUMBER  
25

Zone 2

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**Legend**

- Site Boundary
- Port Property Boundary
- King County Parcels
- Ordinary High Water Mark (OHWM) 21.5' NGVD29
- Submerged Aquatic Vegetation (DNR - 2019)



PORT OF SEATTLE  
 2711 ALASKAN WAY  
 SEATTLE, WA 98121  
 Phone: (206)787-3000

# Maritime Industrial Center Pile Systems Repair & Maintenance 10-Year Programmatic

2700 W COMMODORE WAY  
 Seattle, WA 98199

POS PROJECT MANAGER: -	POS DRAFTER: -
POS PROJECT ENGINEER: -	DATE: February 14, 2022
POS DESIGN ENGINEER: -	CHECKED / APPROVED BY: Danielle Buttsick

SHEET TITLE  
 Site Plan

SHEET NUMBER  
 26

Zone 3



