

EXHIBIT C

JARPA



WASHINGTON STATE

Joint Aquatic Resources Permit Application (JARPA) Form^{1,2} [\[help\]](#)

USE BLACK OR BLUE INK TO ENTER ANSWERS IN THE WHITE SPACES BELOW.



US Army Corps
of Engineers®
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

(REVISION NOTE: Revised by Soundwest Engineering Assoc. October 2020 to: eliminate proposed relocation of seaplane floats, make minor revisions to sunken vessel notations based on SAV Survey completed July 2020, and make compliant with WAC 240-660-400; strikethroughs (red) and insertions (green) were used to indicate these minor changes.

Part 1–Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [\[help\]](#)

Port of Poulsbo Breakwater Rehabilitation Project

Part 2–Applicant

The person and/or organization responsible for the project. [\[help\]](#)

2a. Name (Last, First, Middle)

Carol Tripp

2b. Organization (If applicable)

Port of Poulsbo

2c. Mailing Address (Street or PO Box)

PO Box 732

2d. City, State, Zip

Poulsbo, WA 98370

2e. Phone (1)

2f. Phone (2)

2g. Fax

2h. E-mail

360-779-3505 x5

carol.tripp@portofpoulsbo.com

¹Additional forms may be required for the following permits:

- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at <http://www.nws.usace.army.mil/Missions/CivilWorks/Regulatory/PermitGuidebook/EndangeredSpecies.aspx>.
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

²To access an online JARPA form with [\[help\]](#) screens, go to

http://www.epermitting.wa.gov/site/alias_resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx.

For other help, contact the Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.

Part 3—Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b of this application.) [\[help\]](#)

3a. Name (Last, First, Middle)			
Piccone, John			
3b. Organization (If applicable)			
Soundwest Engineering Associates			
3c. Mailing Address (Street or PO Box)			
8745 Pacific Avenue NW, Suite 201			
3d. City, State, Zip			
Silverdale, WA 98383			
3e. Phone (1)	3f. Phone (2)	3g. Fax	3h. E-mail
360-337-0029			jpicone@soundwesteng.com

Part 4—Property Owner(s)

Contact information for people or organizations owning the property(ies) where the project will occur. Consider both **upland and aquatic** ownership because the upland owners may not own the adjacent aquatic land. [\[help\]](#)

- ☐ Same as applicant. (Skip to Part 5.)
- ☐ Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)
- ☐ There are multiple upland property owners. Complete the section below and fill out [JARPA Attachment A](#) for each additional property owner.
- ☒ Your project is on Department of Natural Resources (DNR)-managed aquatic lands. If you don't know, contact the DNR at (360) 902-1100 to determine aquatic land ownership. If yes, complete [JARPA Attachment E](#) to apply for the Aquatic Use Authorization.

4a. Name (Last, First, Middle)			
4b. Organization (If applicable)			
4c. Mailing Address (Street or PO Box)			
4d. City, State, Zip			
4e. Phone (1)	4f. Phone (2)	4g. Fax	4h. E-mail

Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [\[help\]](#)

- ☐ There are multiple project locations (e.g. linear projects). Complete the section below and use [JARPA Attachment B](#) for each additional project location.

5a. Indicate the type of ownership of the property. (Check all that apply.) [help]			
☐ Private ☐ Federal ☐ Publicly owned (state, county, city, special districts like schools, ports, etc.) ☐ Tribal ☒ Department of Natural Resources (DNR) – managed aquatic lands (Complete JARPA Attachment E)			
5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) [help]			
See 5a			
5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [help]			
Poulsbo, WA 98370			
5d. County [help]			
Kitsap			
5e. Provide the section, township, and range for the project location. [help]			
¼ Section	Section	Township	Range
NW	23	26N	1E
5f. Provide the latitude and longitude of the project location. [help]			
Example: 47.03922 N lat. / -122.89142 W long. (Use decimal degrees - NAD 83)			
47.732209 N lat. / -122.647578 W long.			
5g. List the tax parcel number(s) for the project location. [help]			
The local county assessor's office can provide this information.			
See 5a			
5h. Contact information for all adjoining property owners. (If you need more space, use JARPA Attachment C.) [help]			
Name	Mailing Address	Tax Parcel # (if known)	
LIBERTY BAY PARK (CITY OF POULSBO)	200 NE MOE STREET POULSBO, WA 98370	232601-2-295-2008; 232601-2-298-2005	
NET SHED PARK	200 NE MOE ST POULSBO WA 98370 7347	232601-2-224-2004	
PORT OF POULSBO	PO BOX 732 POULSBO WA 98370	4235-000-010-0106; 232601-2-246-2008	
MEFFERD MICHAEL	PO BOX 2656 POULSBO WA 98370	4235-000-010-0007	

5i. List all wetlands on or adjacent to the project location. [help]
Estuarine and marine wetlands 320-ft east of project site
5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [help]
Liberty Bay, Puget Sound
5k. Is any part of the project area within a 100-year floodplain? [help]
☐ Yes ☒ No ☐ Don't know
5l. Briefly describe the vegetation and habitat conditions on the property. [help]
The property includes intertidal and aquatic areas within the Port of Poulsbo Marina. The intertidal portions of the site are entirely armored with riprap with very little vegetation or macroalgae present. Sparse occurrences of high marsh vegetation are present near at the top of the riprap armoring near the high tide line. The remainder of the area is unvegetated. The subtidal portions of the site are similarly unvegetated, with no eelgrass present on or near the site. Very sparse macroalgae was observed to be present near the location of the existing breakwater, mostly consisting of <i>Ulva</i> . The substrate consisted of uniform silt and mud, with shell hash present in places.
5m. Describe how the property is currently used. [help]
The property is currently used as a public marina providing long-term and transient moorage, with both covered and open slips.
5n. Describe how the adjacent properties are currently used. [help]
The adjacent property to the north is Liberty Bay Park, an upland park owned by the City of Poulsbo. Adjacent shoreline properties to the south include Western Washington University's Sea Discovery Center. Properties to the east consist of upland commercial/retail and associated parking.
5o. Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [help]
The Port of Poulsbo Marina consists of seven floating docks (A-F and AA) providing both covered and open long-term and transient moorage. The marina also has a sea plane float/base off of the far north dock (Dock F). The marina has 254 permanent moorage and 133 transient moorage slips, a fuel dock, and a tidal grid. The marina also has two pump-out stations and two portable/mobile pump-out carts, and contracts with a mobile pump-out service. The marina is protected by a vertical timber-pile breakwater and timber-dolphin log boom (e.g., the north log boom). The breakwater consists of west and south sections and log booms to be removed and contains approximately 933 931 piles (747 745 plumb and 186 batter). Of the 933 931 piles, 900 898 are creosote-treated timber piles. The breakwater sections are currently deteriorated and in need of replacement. Additionally, a log boom located off of the existing south breakwater (e.g., the south log boom) provides marina protection. A portion of this log boom must be removed to maintain small vessel access and to provide connection between AA-Dock and the breakwater.

5p. Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

From State Route 3 northbound, take the Finn Hill Road exit. Travel east on Finn Hill Road. Continue straight onto NW Lindvig Way. Continue straight (slight right) onto Front Street. Continue on Front Street for 1 mile, then turn right onto Queen Sonja Vei. Turn right at NE Young Street, and the Port Administration building is on the left.

Part 6—Project Description

6a. Briefly summarize the overall project. You can provide more detail in 6b. [\[help\]](#)

The Port of Poulsbo proposes to replace it's deteriorated vertical pile and log boom breakwater at its public marina. The existing fixed breakwater consists of two sections (West and South), with both vertical (plumb) and batter pile (Sheet 2). To replace this structure, the Port proposes to install a re-used floating breakwater from Elliott Bay Marina. The new 12-foot wide floating breakwater would be installed waterward of the existing breakwater, at depths exceeding -10 ft MLLW (Sheet 4 & 5). The new breakwater would be connected to the Port's existing AA-dock by the installation of an 8-foot wide grated main walk float. The new breakwater would contain 22 new finger floats to provide additional transient moorage. ~~In addition, the Port's existing sea plane base would be relocated to the west end of the new floating breakwater through the removal of the existing floats and addition of new 12-foot wide floats breakwater extension connected to a new 6-foot wide floating dock.~~ To provide additional recreational opportunities for the Port, the Port proposes to install a new floating restroom and a FLUPSY on the new breakwater (Sheet 5).

6b. Describe the purpose of the project and why you want or need to perform it. [\[help\]](#)

The proposed project consists of conducting work below the High Tide Line for the purpose of replacing the existing fixed breakwater to provide wave protection and transient moorage for the Port of Poulsbo Marina. The existing fixed breakwater, including the north log boom off of the South breakwater, will be removed and replaced by a floating breakwater which will connect to AA-dock. A portion of the south log boom off of the West breakwater will be removed for the AA-connection and small vessel access. The proposed improvements are needed to replace deteriorated existing infrastructure and improve recreational opportunities throughout the existing marina.

6c. Indicate the project category. (Check all that apply) [\[help\]](#)

- | | | | | |
|---|--|---|---|--|
| ☐ Commercial | ☐ Residential | ☒ Institutional | ☐ Transportation | ☒ Recreational |
| ☒ Maintenance | ☐ Environmental Enhancement | | | |

6d. Indicate the major elements of your project. (Check all that apply) [\[help\]](#)

- | | | | |
|---|---|---|---|
| ☐ Aquaculture
☐ Bank Stabilization
☐ Boat House
☐ Boat Launch
☐ Boat Lift
☐ Bridge
☐ Bulkhead
☐ Buoy
☒ Channel Modification | ☐ Culvert
☐ Dam / Weir
☐ Dike / Levee / Jetty
☐ Ditch
☒ Dock / Pier
☐ Dredging
☐ Fence
☐ Ferry Terminal
☐ Fishway | ☒ Float
☐ Floating Home
☐ Geotechnical Survey
☐ Land Clearing
☒ Marina / Moorage
☐ Mining
☐ Outfall Structure
☒ Piling/Dolphin
☐ Raft | ☐ Retaining Wall (upland)
☐ Road
☐ Scientific Measurement Device
☐ Stairs
☐ Stormwater facility
☐ Swimming Pool
☐ Utility Line |
|---|---|---|---|

☒ Other: Floating breakwater

6e. Describe how you plan to construct each project element checked in 6d. Include specific construction methods and equipment to be used. [\[help\]](#)

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year floodplain.

The proposed floating breakwater will be installed concurrent with the removal of the existing breakwater and log booms. Demolition and installation of the breakwater elements may occur in segments to maintain contractor access and marina protection. Estimated total construction duration is 3-4 months.

Pile Driving

The steel pipe piles for the new floating breakwater will be driven from a crane barge and will require the use of a vibratory hammer for installation of the piles. Pile driving will commence in all cases with a vibratory hammer. None of the breakwater piling will require proofing with an impact hammer to verify vertical capacity, but some of the breakwater piling may encounter premature refusal during vibratory hammer driving due to either soil conditions or pile driving obstructions, in which case the use of an impact hammer would be required to reach the design pile tip elevations. It is in the Contractor's best interest to provide an adequately powerful vibratory hammer to allow full-depth installation of piling without using an impact hammer, and the Contractor will be required to submit WEEP analysis results to validate the adequacy of their proposed vibratory and impact hammers. Piles will be driven with a vibratory hammer to the extent practicable. During all impact driving, sound-attenuation devices will be employed to minimize sound related impacts, such as a wooden cushion block, bubble curtain, or similar.

Float Installation

Installation of the floating breakwater will include concrete floats, treated timber walers, and a treated timber wave screen. The floating breakwater structure will include a combination of new concrete floats, and a re-use of the concrete breakwater structure donated by Elliot Bay Marina. New concrete floats will be cured prior to placement in the water. Installation will be conducted using work boats, divers, and a crane barge. Re-used concrete floats will be reconditioned prior to installation including new walers, through-rods, and wave screen modification.

Up to 22 new finger floats will be installed along the landward side of the new breakwater (Sheet 5). These floats will be pile supported and grated in compliance with WAC 220-660-400, and will provide additional transient moorage for the marina.

The AA-dock extension float ~~and sea plane base floats~~ will be timber frame floats with a mix of concrete decking and grating in compliance with WAC 220-660-400 (Sheets 6 and 11). The float modules would be partially constructed and assembled on land, floated into place and then the modules connected to each other and around the installed steel piles. Finger floats will be timber frame floats with a mix of concrete decking and grating in compliance with WAC 220-660-400 (Sheet 11).

Existing Structure Demolition

During and after installation of the new floating breakwater, access floats and finger piers, the existing fixed breakwaters will be completely removed as well as a portion of the existing south log boom. Demolition will include removal of the existing creosote treated timber piling and associated walers and cable wrap as well as removal of rock revetment and sediment/debris at the fixed breakwater toe. ~~The existing sea plane base is located at -4 MLLW and currently grounds out at low tide. The sea plane base will be completely removed concurrent with installation of the new sea plane base (anticipated as part of Phase 2 activities).~~ Removed material will be disposed of at an offsite upland facility.

Project Phasing

~~The Port may elect to complete the Project in phases. Phase 1~~ Project activities are anticipated to occur ~~in 2020~~ from July 2021 through February 2022 and will consist of constructing project components including 1) removal of the existing creosote-treated timber-pile breakwater (including removal of the breakwater, removal of the north log boom off of the West breakwater, removal of a portion of the south log boom off of the South breakwater, and removal of existing toe protection stone and anthropogenic debris at the base of the existing breakwater) and installing a reconditioned concrete pontoon floating breakwater water with associated new steel pipe pile; 2.) installing breakwater finger floats; and 3.) installing a new grated main walk float extension

connecting the breakwater to AA-dock. ~~Phase 2 activities would occur in 2021 or later and consist of project components including 4.) installing a new float plane base float at the northwest end of the new breakwater (including removal of the existing seaplane base); 5.)~~ 4.) installing a Floating Upweller System (FLUSPY) on the new floating breakwater; and ~~6.)~~ 5.) installing a floating restroom on the new floating breakwater.

6f. What are the anticipated start and end dates for project construction? (Month/Year) [\[help\]](#)

- If the project will be constructed in phases or stages, use [JARPA Attachment D](#) to list the start and end dates of each phase or stage.

Start Date: July 2021

End Date: February 2022

☒ ~~See JARPA Attachment D~~

6g. Fair market value of the project, including materials, labor, machine rentals, etc. [\[help\]](#)

\$4,000,000

6h. Will any portion of the project receive federal funding? [\[help\]](#)

- If yes, list each agency providing funds.

☐ Yes ☐ No ☒ Don't know

Part 7—Wetlands: Impacts and Mitigation

- ☒ Check here if there are wetlands or wetland buffers on or adjacent to the project area.
(If there are none, skip to Part 8.) [\[help\]](#)

7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [\[help\]](#)

☐ Not applicable

See attached Critical Areas Report, dated July 16, 2019, for additional detail. Patchy saltmarsh wetlands are mapped as occurring along the upper intertidal beach east of the project site. The nearest project activity to the mapped saltmarsh is approximately 320 feet. Therefore, the project will have no impact on saltmarsh wetlands.

7b. Will the project impact wetlands? [\[help\]](#)

☐ Yes ☒ No ☐ Don't know

7c. Will the project impact wetland buffers? [\[help\]](#)

☐ Yes ☒ No ☐ Don't know

7d. Has a wetland delineation report been prepared? [\[help\]](#)

- If Yes, submit the report, including data sheets, with the JARPA package.

☐ Yes ☒ No

7e. Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [\[help\]](#)

- **If Yes**, submit the wetland rating forms and figures with the JARPA package.

☐ Yes ☒ No ☐ Don't know

7f. Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [\[help\]](#)

- **If Yes**, submit the plan with the JARPA package and answer 7g.
- **If No, or Not applicable**, explain below why a mitigation plan should not be required.

☐ Yes ☒ No ☐ Don't know

The wetlands are mapped 320 feet to the east of the project, exceeding even the largest wetland buffers in Poulsbo Municipal Code (300 feet). All project activities will occur over water and will not affect shoreline wetlands.

7g. Summarize what the mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [\[help\]](#)

7h. Use the table below to list the type and rating of each wetland impacted, the extent and duration of the impact, and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [\[help\]](#)

Activity (fill, drain, excavate, flood, etc.)	Wetland Name ¹	Wetland type and rating category ²	Impact area (sq. ft. or Acres)	Duration of impact ³	Proposed mitigation type ⁴	Wetland mitigation area (sq. ft. or acres)

¹ If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.

² Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

³ Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

⁴ Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: _____

7i. For all filling activities identified in 7h, describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [\[help\]](#)

7j. For all excavating activities identified in 7h, describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [\[help\]](#)

Part 8—Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, “waterbodies” refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [\[help\]](#)

☒ Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

8a. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [\[help\]](#)

☐ Not applicable

See attached Biological Evaluation, dated June 2020, (Revision, October 2020), and attached Mitigation Plan, dated June 2020, (Revision, October 2020). Proposing a floating breakwater instead of a vertical pile or other fixed structure will increase flushing during tidal exchanges, thus improving water quality in and around the marina. The project will increase facility resiliency to sea-level rise. In addition, the project will remove creosote-treated timber pile and replace them with far fewer steel pile, reducing the substrate footprint of piling on the site and further improving water quality by removing creosote from the aquatic environment. The project will also utilize BMPs and other conservation measures during construction to minimize impacts to the aquatic environment, such as sound attenuation measures during impact pile driving/proofing, if necessary.

8b. Will your project impact a waterbody or the area around a waterbody? [\[help\]](#)

☒ Yes ☐ No

8c. Have you prepared a mitigation plan to compensate for the project’s adverse impacts to non-wetland waterbodies? [\[help\]](#)

- If Yes, submit the plan with the JARPA package and answer 8d.
- If No, or Not applicable, explain below why a mitigation plan should not be required.

☒ Yes ☐ No ☐ Don’t know

8d. Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7g you do not need to restate your answer here. [\[help\]](#)

See attached Mitigation Plan, dated June 2020, (Revision, October 2020), for further detail. The project will remove 933 existing breakwater/log boom pile, consisting of 900 creosote-treated timber pile and 33 steel pile. This will remove a significant source of creosote from the aquatic environment. Additionally, scour protection rock placed along the toe of the existing bulkhead will be removed. The Port also proposes to remove ~~four one~~ sunken vessels ~~and concrete debris from the marina bottom, and will remove the existing sea plane base float from the inner harbor and floating log boom on the west side of the marina.~~ Removal of these structures and debris from the site will significantly improve water quality and circulation within the marina.

Mitigation for project impacts is a combination of design elements (floating breakwater versus solid vertical pile wall) and mitigative actions (removal of rock/debris, removing existing overwater cover). Both of these mitigation elements will result in improvement of habitat within the marina and within Liberty Bay as a whole.

8e. Summarize impact(s) to each waterbody in the table below. [\[help\]](#)

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name ¹	Impact location ²	Duration of impact ³	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Pile removal	Liberty Bay	In-water	2-3 weeks	~~933~~ 931 piles	Removal of ~~776~~ 774 sq. ft. substrate impact; 1,305 sq ft overwater shading from batter pile
North Log Boom Float removal	Liberty Bay	In-water	1 week	--	Removal of 2,724 sq. ft. overwater coverage/shading
~~Seaplane base float removal~~	~~Liberty Bay~~	~~In-water~~	~~1 week~~	~~--~~	~~Removal of 570 sq. ft. overwater coverage/shading~~
Creosote-treated Log Boom Removal	Liberty Bay	In-water	1 week	--	Removal of 2,847 sq. ft. overwater coverage/shading
Overwater Breakwater Structures (whaler and crows nest platforms)	Liberty Bay	In-water	1 week	--	Removal of 1,124 sq. ft. overwater coverage/shading
Submerged rock and debris mound removal at base of breakwater	Liberty Bay	In-water	2 weeks	approx. 2,165 cy	Removal of 28,248 sq. ft. substrate impacts / hard armoring
Sediment and debris mound removal below log booms	Liberty Bay	In-water	2 weeks	approx. 1,085 cy	Removal of 22,290 sq. ft. substrate impacts / hard armoring
Sunken vessel / Concrete Debris removal	Liberty Bay	In-water	1 week	--	Removal of 640 sq. ft. substrate impacts
Pile driving	Liberty Bay	In-water	2-3 weeks	72 piles	157 sq. ft. substrate impacts;

					400 sq. ft. overwater shading from batter pile
Install floating breakwater pontoons	Liberty Bay	In-water	permanent	--	13,225 sq. ft. overwater shading
Install ~~grated sea plane floats and~~ breakwater extension	Liberty Bay	In-water	permanent	--	~~2,538~~ 1,738 sq. ft. overwater shading
Install FLUPSY float	Liberty Bay	In-water	permanent	--	450 sq. ft. overwater shading
Install floating restroom	Liberty Bay	In-water	permanent	--	493 sq. ft. overwater shading
Install grated breakwater access float	Liberty Bay	In-water	permanent	--	1,323 sq. ft overwater shading
Install grated finger floats	Liberty Bay	In-water	permanent	--	3,062 sq. ft. overwater shading
¹ If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided. ² Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain. ³ Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.					
8f. For all activities identified in 8e, describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [help]					
Approximately 20 cy of clean sand will be required to fill vacated pile holes. Where silt substrate material is present in rock revetment voids along the toe of the existing breakwater, pile voids may be left to infill naturally so as to avoid creating additional mounded substrate that could pose a hazard to navigation. It is expected that the unfilled pile voids will naturally infill quickly.					
8g. For all excavating or dredging activities identified in 8e, describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [help]					
Approximately 2,165 cubic yards of scour protection rock and anthropogenic debris will be removed from around the base of the existing breakwater sections. Approximately 1,085 cubic yards of sediment and creosote-timber debris will be removed around the base of the north and south log booms. This material will likely be removed using a clam shell bucket. The material will immediately be transferred to a materials barge outfitted with return water BMPs such as straw bales and straw wattles to prevent sediment-laden water from returning to Puget Sound. From there the material will be removed from the site and disposed of at an appropriate upland disposal facility.					

Part 9—Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

9a. If you have already worked with any government agencies on this project, list them below. [help]			
Agency Name	Contact Name	Phone	Most Recent Date of Contact
Suquamish Tribe	Alison O'Sullivan	(360) 394-8447	October 2020
WDFW	Nam Sui	(360) 522-6035	November 2020
USACE	Jerry Gregory	(206) 764-6665	November 2020
9b. Are any of the wetlands or waterbodies identified in Part 7 or Part 8 of this JARPA on the Washington Department of Ecology's 303(d) List? [help] - If Yes, list the parameter(s) below. - If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d.			
☒ Yes ☐ No			
Liberty Bay: Dissolved Oxygen – Listing ID 10268 Liberty Bay: Temperature – Listing ID 10269			
9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [help] Go to http://cfpub.epa.gov/surf/locate/index.cfm to help identify the HUC.			
17110019 - Puget Sound Watershed			
9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [help] Go to https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-availability/Watershed-look-up to find the WRIA #.			
WRIA 15			
9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [help] Go to https://ecology.wa.gov/Water-Shorelines/Water-quality/Freshwater/Surface-water-quality-standards/Criteria for the standards.			
☒ Yes ☐ No ☐ Not applicable			
9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [help] - If you don't know, contact the local planning department. - For more information, go to: https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning/Shoreline-laws-rules-and-cases.			
☐ Urban ☐ Natural ☒ Aquatic ☐ Conservancy ☐ Other: _____			
9g. What is the Washington Department of Natural Resources Water Type? [help] Go to http://www.dnr.wa.gov/forest-practices-water-typing for the Forest Practices Water Typing System.			
☒ Shoreline ☐ Fish ☐ Non-Fish Perennial ☐ Non-Fish Seasonal			
9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [help] If No, provide the name of the manual your project is designed to meet.			
☒ Yes ☐ No			

Name of manual: _____
9i. Does the project site have known contaminated sediment? [help] If Yes, please describe below.
☐ Yes ☒ No
9j. If you know what the property was used for in the past, describe below. [help] The Port of Poulsbo has operated the marina in its current location since 1951.
9k. Has a cultural resource (archaeological) survey been performed on the project area? [help] If Yes, attach it to your JARPA package.
☐ Yes ☒ No

9l. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [help]
See attached Biological Evaluation, dated June 2020, (Revision 1, October 2020). Species that may occur in the vicinity of the project area: Marbled Murrelet (<i>Brachyramphus marmoratus</i>) – Threatened Coastal-Puget Sound Bull Trout (<i>Salvelinus confluentus</i>) – Threatened Puget Sound Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) – Threatened Puget Sound Steelhead Trout (<i>Oncorhynchus mykiss</i>) – Threatened Bocaccio Rockfish (<i>Sebastes paucispinis</i>) – Endangered Yelloweye Rockfish (<i>Sebastes ruberrimus</i>) – Threatened Southern Resident Killer Whale (<i>Orcinus orca</i>) - Endangered Humpback Whale (<i>Megaptera novaengliae</i>) – Endangered Leatherback Sea Turtle (<i>Dermochelys coriacea</i>) - Endangered
9m. Name each species or habitat on the Washington Department of Fish and Wildlife’s Priority Habitats and Species List that might be affected by the proposed work. [help]
These species or habitats may be in the vicinity of the project: Forage Fish species (surf smelt, Pacific herring, Pacific sand lance) Puget Sound salmon and trout (Chinook, coho, pink, chum, bull trout, steelhead trout) Puget Sound Rockfish Harbor Seal (<i>Phoca vitulina</i>) – Haulout Puget Sound Nearshore Estuarine Zone Estuarine and Marine Wetland are mapped on the WDFW PHS mapper.

Part 10–SEPA Compliance and Permits

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at <http://apps.oria.wa.gov/opas/>.
- Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.
- For a list of addresses to send your JARPA to, click on [agency addresses for completed JARPA](#).

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [\[help\]](#)

- For more information about SEPA, go to <https://ecology.wa.gov/regulations-permits/SEPA-environmental-review>.

☐ A copy of the SEPA determination or letter of exemption is included with this application.

☒ A SEPA determination is pending with City of Poulsbo (lead agency). The expected decision date is 2020.

☐ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [\[help\]](#)

☐ This project is exempt (choose type of exemption below).

☐ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?

☐ Other: _____

☐ SEPA is pre-empted by federal law.

10b. Indicate the permits you are applying for. (Check all that apply.) [\[help\]](#)

LOCAL GOVERNMENT

Local Government Shoreline permits:

☐ Substantial Development ☒ Conditional Use ☐ Variance

☐ Shoreline Exemption Type (explain): _____

Other City/County permits:

☒ Floodplain Development Permit ☐ Critical Areas Ordinance

STATE GOVERNMENT

Washington Department of Fish and Wildlife:

☒ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption – [Attach Exemption Form](#)

Washington Department of Natural Resources:

☒ Aquatic Use Authorization

Complete [JARPA Attachment E](#) and submit a check for \$25 payable to the Washington Department of Natural Resources.

Do not send cash.

Washington Department of Ecology:

☒ Section 401 Water Quality Certification

FEDERAL GOVERNMENT

United States Department of the Army permits (U.S. Army Corps of Engineers):

☒ Section 404 (discharges into waters of the U.S.) ☒ Section 10 (work in navigable waters)

United States Coast Guard permits:

☐ General Bridge Act Permit

☐ Private Aids to Navigation (for non-bridge projects)

Part 11—Authorizing Signatures

Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [\[help\]](#)

11a. Applicant Signature (required) [\[help\]](#)

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. CT (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project. CT (initial)

CAROL TRIPP Applicant Printed Name Carol Tripp Applicant Signature 6/10/2020 Date

11b. Authorized Agent Signature [\[help\]](#)

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

JOHN PICCONE Authorized Agent Printed Name John Piccone Authorized Agent Signature 6/10/20 Date

11c. Property Owner Signature (if not applicant) [\[help\]](#)

Not required if project is on existing rights-of-way or easements (provide copy of easement with JARPA).

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

CAROL TRIPP Property Owner Printed Name Carol Tripp Property Owner Signature 6/10/2020 Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 07/2017



WASHINGTON STATE
Joint Aquatic Resources Permit
Application (JARPA) [\[help\]](#)



US Army Corps
of Engineers®
Seattle District

Attachment C:
Contact information for adjoining
property owners. [\[help\]](#)

Use this attachment only if you have more than four adjoining property owners.

AGENCY USE ONLY	
Date received:	_____
Agency reference #:	_____
Tax Parcel #(s):	_____ _____ _____
TO BE COMPLETED BY APPLICANT [help]	
Project Name:	_____
Location Name (if applicable):	_____ _____

Use black or blue ink to enter answers in white spaces below.

1. Contact information for all adjoining property owners. [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
STEWART AUSTIN W	PO BOX 774	232601-2-219-2001
	POULSBO WA 98370	
PETERSON CRAIG M	9946 FAIRVIEW LK RD SW	4235-000-009-0000
	PORT ORCHARD WA 98366 9213	
CITY OF POULSBO	200 NE MOE ST	232601-2-278-2009
	POULSBO WA 98370 7347	

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-014 rev. 10/2016



WASHINGTON STATE
Joint Aquatic Resources Permit
Application (JARPA) [\[help\]](#)



US Army Corps
of Engineers®
Seattle District

Attachment D:
Construction sequence [\[help\]](#)

Use this attachment only if your project will be constructed in phases or stages. Complete the outline showing the construction sequence and timing of activities, including the start and end dates of each phase or stage.

Use black or blue ink to enter answers in white spaces below.

Phase or Stage	Start Date	End Date	Activity Description
1	November 2020	February 2020	Construct new floating breakwater and demolish existing breakwater; install new main walk float connecting new floating breakwater to AA-dock; install new finger floats on new floating breakwater; conduct mitigation actions (removing pile, scour protection rock, sunken vessels)
2	late summer/fall 2021/2022	late summer/fall 2021/2022	Remove old seaplane base and Install new seaplane base on west end of new breakwater; install new recreational float and new floating restroom

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

TO BE COMPLETED BY APPLICANT [\[help\]](#)

Project Name: _____

Location Name (if applicable): _____

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-015 rev. 10/2016



WASHINGTON STATE
Joint Aquatic Resources Permit
Application (JARPA) [\[help\]](#)



US Army Corps
of Engineers
Seattle District

AGENCY USE ONLY

Date received: _____; ☐ Town
☐ Application Fee Received; ☐ Fee N/A
☐ New Application; ☐ Renewal Application
Type/Prefix #: _____; NaturE Use Code: _____
LM Initials & BP#: _____
RE Assets Finance BP#: _____
New Application Number: _____
Trust(s): _____; County: _____
AQR Plate #(s): _____
Gov Lot #(s): _____
Tax Parcel #(s): _____

Attachment E:
Aquatic Use Authorization on
Department of Natural Resources
(DNR)-managed aquatic lands [\[help\]](#)

Complete this attachment and submit it with the completed JARPA form only if you are applying for an Aquatic Use Authorization with DNR. Call (360) 902-1100 or visit <http://www.dnr.wa.gov/programs-and-services/aquatics/leasing-and-land-transactions> for more information.

- DNR recommends you discuss your proposal with a DNR land manager before applying for regulatory permits. Contact your regional land manager for more information on potential permit and survey requirements. You can find your regional land manager by calling (360) 902-1100 or going to <http://www.dnr.wa.gov/programs-and-services/aquatics/aquatic-districts-and-land-managers-map>. [\[help\]](#)
- The applicant may not begin work on DNR-managed aquatic lands until DNR grants an Aquatic Use Authorization.
- Include a \$25 non-refundable application processing fee, payable to the "Washington Department of Natural Resources." (Contact your Land Manager to determine if and when you are required to pay this fee.) [\[help\]](#)

DNR may reject the application at any time prior to issuing the applicant an Aquatic Use Authorization. [\[help\]](#)

Use black or blue ink to enter answers in white spaces below.

1. Applicant Name (Last, First, Middle)	
Tripp, Carol	
2. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]	
Port of Poulsbo Breakwater Rehabilitation Project	
3. Phone Number and Email	
360-779-3505 x5; carol.tripp@portofpoulsbo.com	
4. Which of the following applies to Applicant? Check one and, if applicable, attach the written authority – bylaws, power of attorney, etc. [help]	
☐ Corporation ☐ Limited Partnership ☐ General Partnership ☐ Limited Liability Company Home State of Registration: _____	☐ Individual ☐ Marital Community (Identify spouse): _____ ☐ Government Agency ☒ Other (Please Explain): Port Authority (Port of Poulsbo)

5. Washington UBI (Unified Business Identifier) number, if applicable: [help]
600-310-683
6. Are you aware of any existing or previously expired Aquatic Use Authorizations at the project location?
☒ Yes ☐ No ☐ Don't know If Yes, Authorization number(s): <u>PMA 20-080030; Lease No. 22-02793</u>
7. Do you intend to sublease the property to someone else?
☐ Yes ☒ No If Yes, contact your Land Manager to discuss subleasing.
8. If fill material was used previously on DNR-managed aquatic lands, describe below the type of fill material and the purpose for using it. [help]
Based on side-scan sonar and witness accounts rock fill material has been placed along the toe of the existing timber pile breakwater to prevent scour and movement of the timber piling used for the original breakwater. The rock material is proposed to be removed as a part of this project.

To be completed by DNR and a copy returned to the applicant.

Signature for projects on DNR-managed aquatic lands:

Applicant must obtain the signature of DNR Aquatics District Manager OR Assistant Division Manager if the project is located on DNR-managed aquatic lands.

I, a designated representative of the Dept. of Natural Resources, am aware that the project is being proposed on Dept. of Natural Resources-managed aquatic lands and agree that the applicant or his/her representative may pursue the necessary regulatory permits. My signature does not authorize the use of DNR-managed aquatic lands for this project.

Printed Name	Signature	Date
Dept. of Natural Resources	Dept. of Natural Resources	
District Manager or Assistant Division Manager	District Manager or Assistant Division Manager	

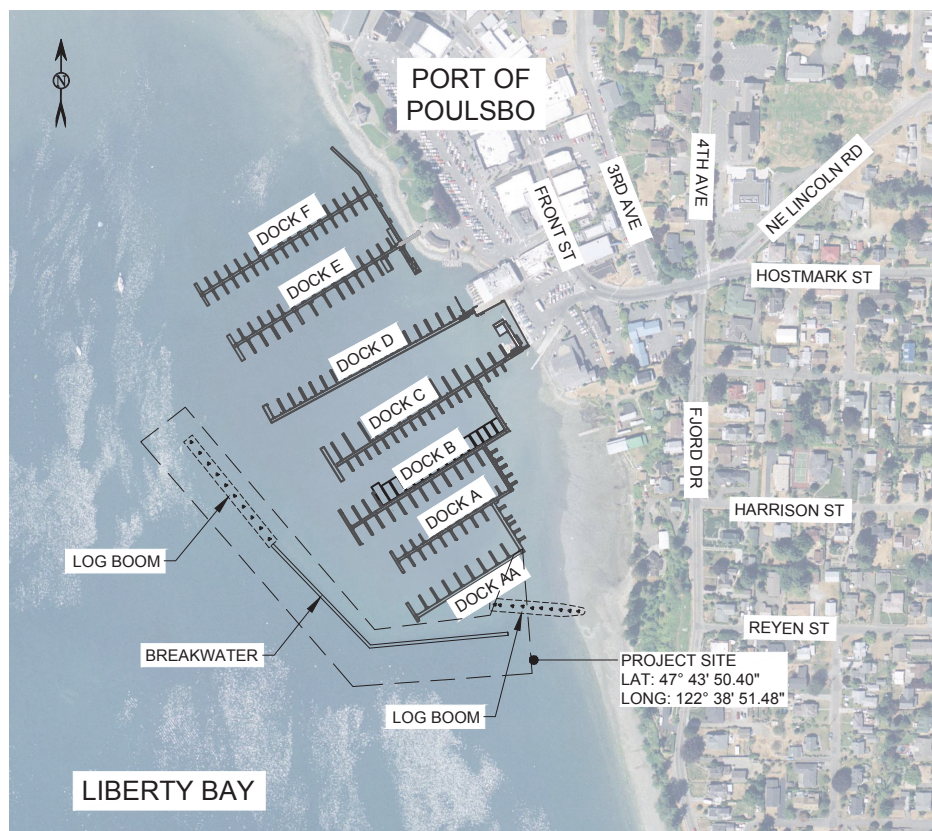
If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA Publication ORIA-16-016 rev. 10/2016



WASHINGTON KEY MAP

SHEET INDEX

SHEET NO.	TITLE
1	COVER SHEET & PROJECT LOCATION
2	EXISTING PLAN & DEMOLITION
3	EXISTING SITE PHOTOS
4	PROPOSED SITE PLAN
5	BREAKWATER PLAN
6	SECTIONS
7	RESTROOM PLAN & ELEVATION
8	BREAKWATER DETAILS
9	WAVE FENCE ELEVATION & SECTION
10	PLUMB & BATTER PILE DETAIL
11	ACCESS & FINGER FLOAT DETAILS / ANCHOR PILE DETAIL



REVISION NOTES:

1. REVISED BY SOUNDWEST ENGINEERING ASSOCIATES OCTOBER 2020 TO: ELIMINATE PROPOSED RELOCATION OF SEAPLANE FLOATS, MAKE MINOR REVISIONS TO SUNKEN VESSEL NOTATIONS BASED ON SAV SURVEY COMPLETED JULY 2020, AND MAKE COMPLIANT WITH WAC 240-660-400.
2. THESE JARPA DRAWINGS WERE DEVELOPED TO MEET CORPS SUBMITTAL REQUIREMENTS AND, DUE TO FORMATTING RESTRICTIONS, ARE MORE SCHEMATIC IN NATURE. PLEASE REFER TO FULL SIZE PROJECT DESIGN DRAWINGS FOR ADDITIONAL DESIGN DETAILS.

LOCATION MAP



PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

PORT OF POULSBO BREAKWATER REHABILITATION PROJECT

COVER SHEET
APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESS
IN: POULSBO

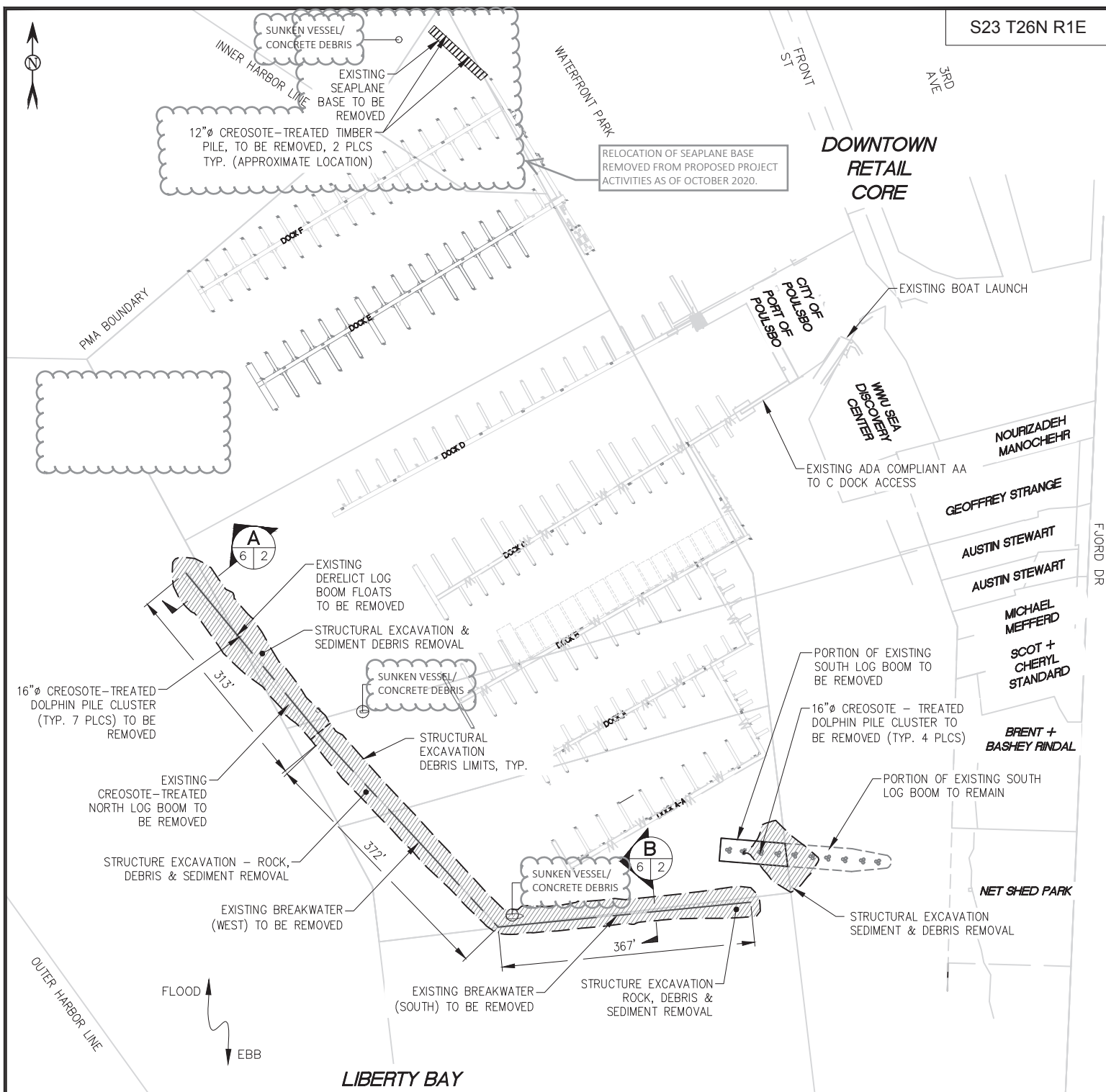
AT: LIBERTY BAY

COUNTY: KITSAP

SHEET 1 OF 11

SEE REVISION NOTES, SHEET 1

DATE: JUNE 2020



EXISTING SITE PLAN + DEMOLITION



TIDAL WATER LEVELS (MLLW)

MEAN HIGHER HIGH WATER (MHHW)	+11.7'
MEAN HIGH WATER (MHW) / HIGH TIDE LINE (HTL)	+10.85'
MEAN LOWER LOW WATER (MLLW)	0.0'

PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

PORT OF POULSBO BREAKWATER REHABILITATION PROJECT

EXISTING SITE PLAN & DEMOLITION

APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESS

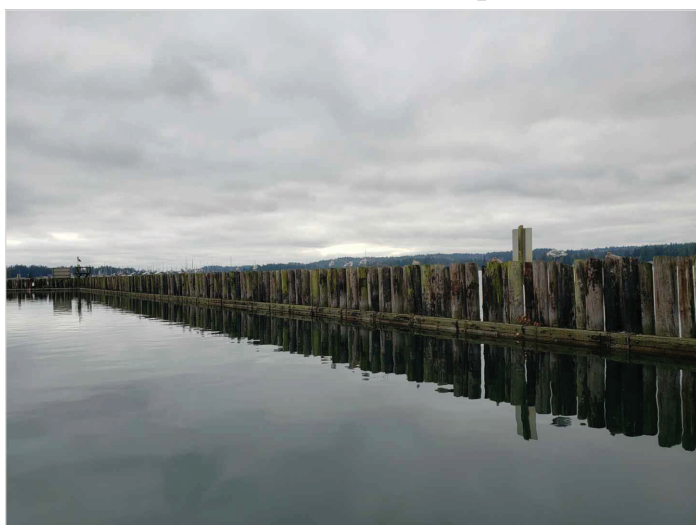
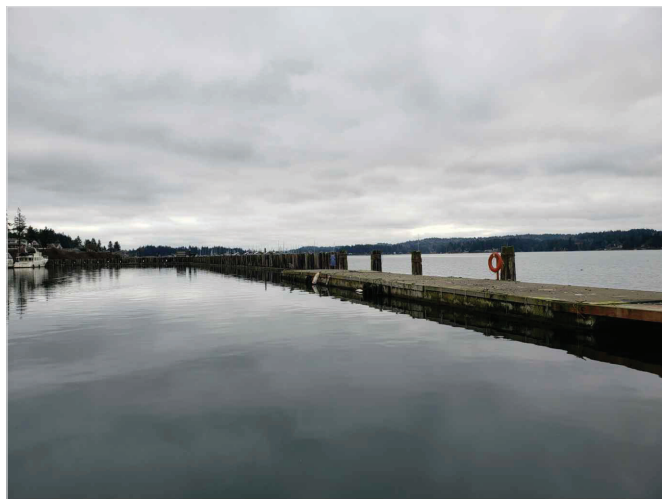
IN: POULSBO
AT: LIBERTY BAY

COUNTY: KITSAP

SHEET 2 OF 11

SEE REVISION NOTES, SHEET 1

DATE: JUNE 2020

**SOUTH BREAKWATER** (A)**NORTH LOG BOOM** (B)**WEST BREAKWATER** (C)**CROWS NEST, TYP** (D)**DERELICT FLOATS** (E)**SOUTH LOG BOOM** (F)

PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

PORT OF POULSBO BREAKWATER REHABILITATION PROJECT

EXISTING SITE PHOTOS

APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESS
POULSBO

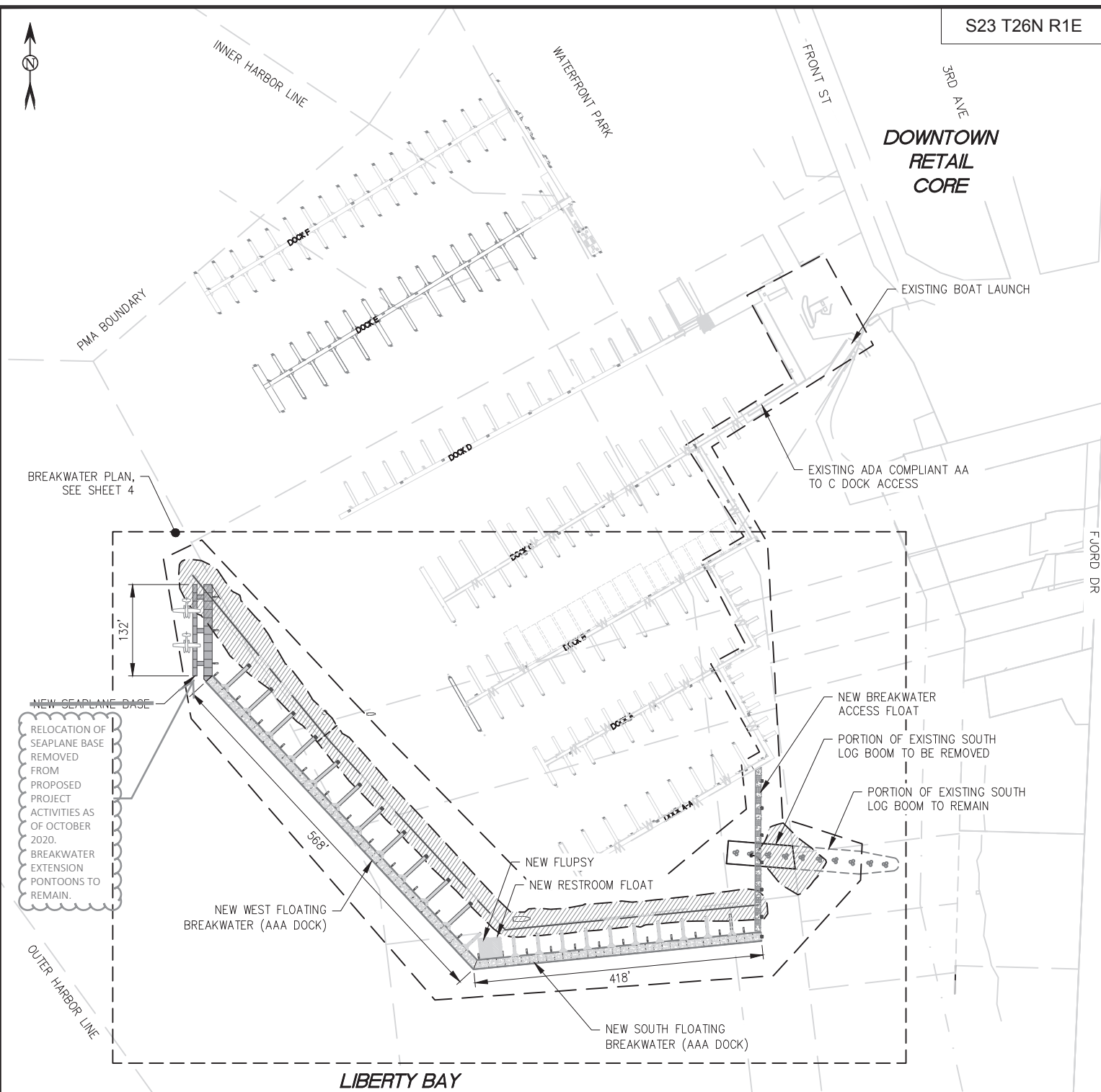
IN:
AT: LIBERTY BAY

COUNTY: KITSAP

SHEET 3 OF 11

SEE REVISION NOTES, SHEET 1

DATE: JUNE 2020



PROPOSED SITE PLAN



TIDAL WATER LEVELS (MLLW)

MEAN HIGHER HIGH WATER (MHHW)	+11.7'
MEAN HIGH WATER (MHW) / HIGH TIDE LINE (HTL)	+10.85'
MEAN LOWER LOW WATER (MLLW)	0.0'

PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

PORT OF POULSBO BREAKWATER REHABILITATION PROJECT

PROPOSED SITE PLAN

APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESS
IN: POULSBO

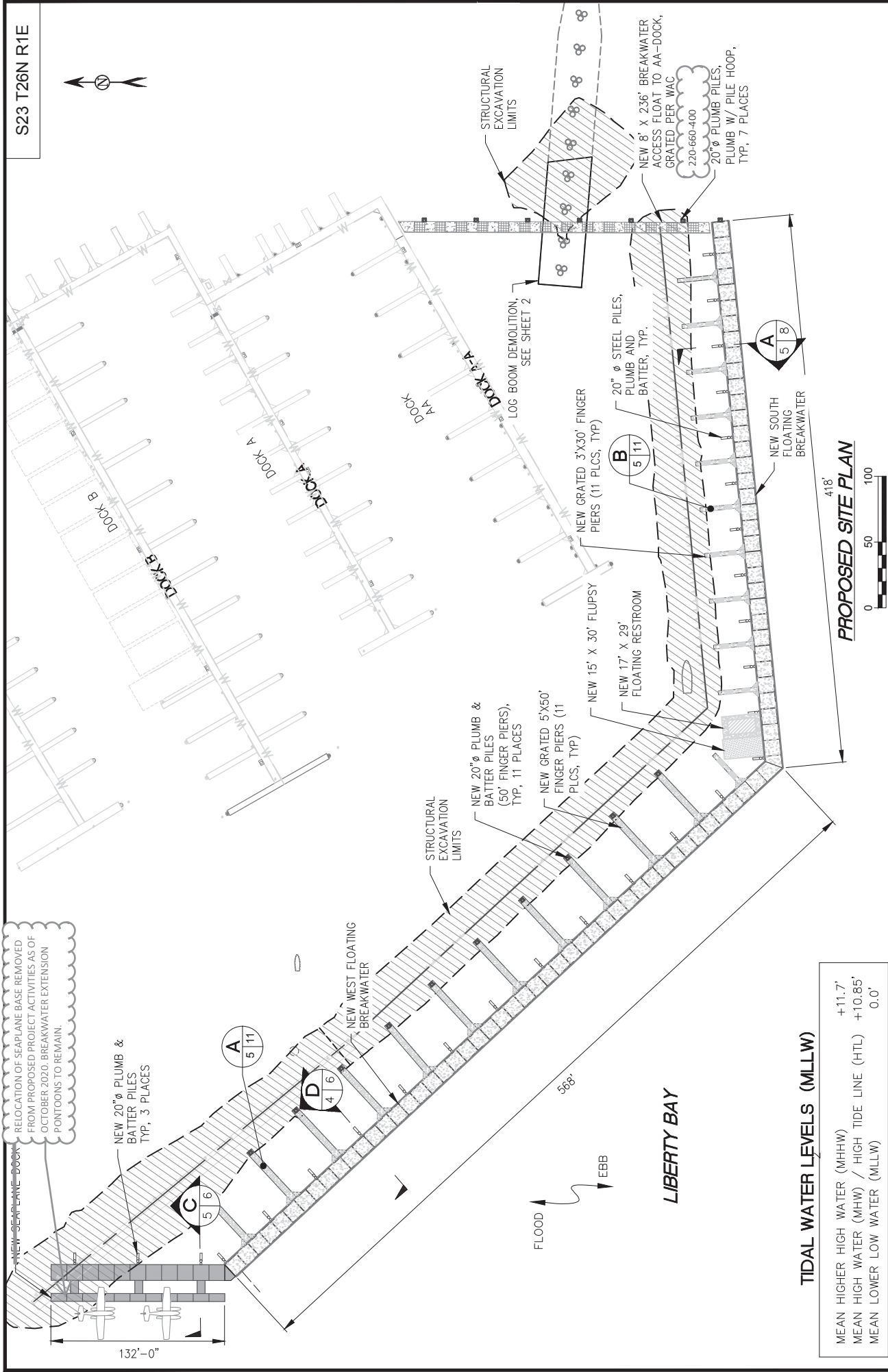
AT: LIBERTY BAY

COUNTY: KITSAP

SHEET 4 OF 11

SEE REVISION NOTES, SHEET 1

DATE: JUNE 2020



TIDAL WATER LEVELS (MLLW)

MEAN HIGHER HIGH WATER (MHHW)	+11.7'
MEAN HIGH WATER (MHW) / HIGH TIDE LINE (HTL)	+10.85'
MEAN LOWER LOW WATER (MLLW)	0.0'

PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

1. CITY OF POULSBO
2. PORT OF POULSBO
3. SEA DISCOVERY CENTER
4. N. MANOCHEHR
5. G. STRANGE
6. A. STEWART
7. M. MEFFERD
8. S. & C. STANDARD
9. B. & B. RINDAL
10. NET SHED PARK

**PORT OF POULSBO
BREAKWATER
REHABILITATION PROJECT**

BREAKWATER PLAN
APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESS

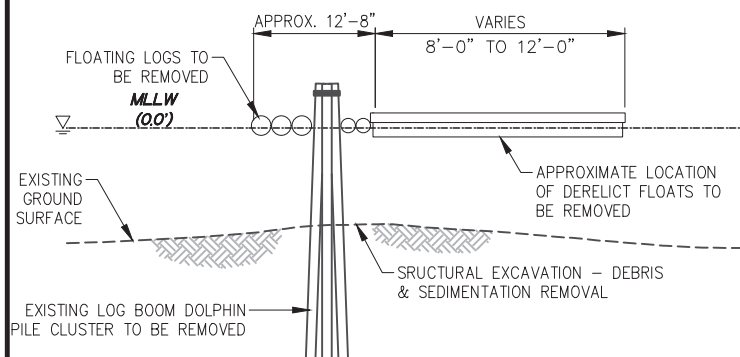
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AT: LIBERTY BAY

COUNTY: KITSAP

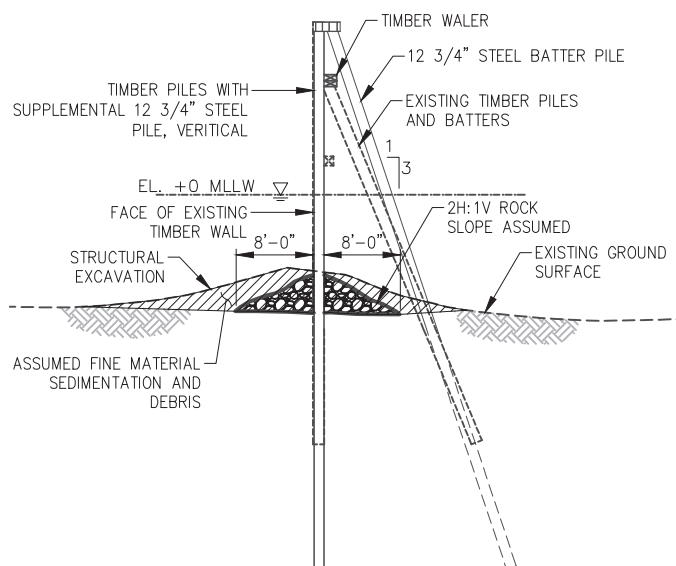
SHEET 5 OF 11

SEE REVISION NOTES, SHEET 1

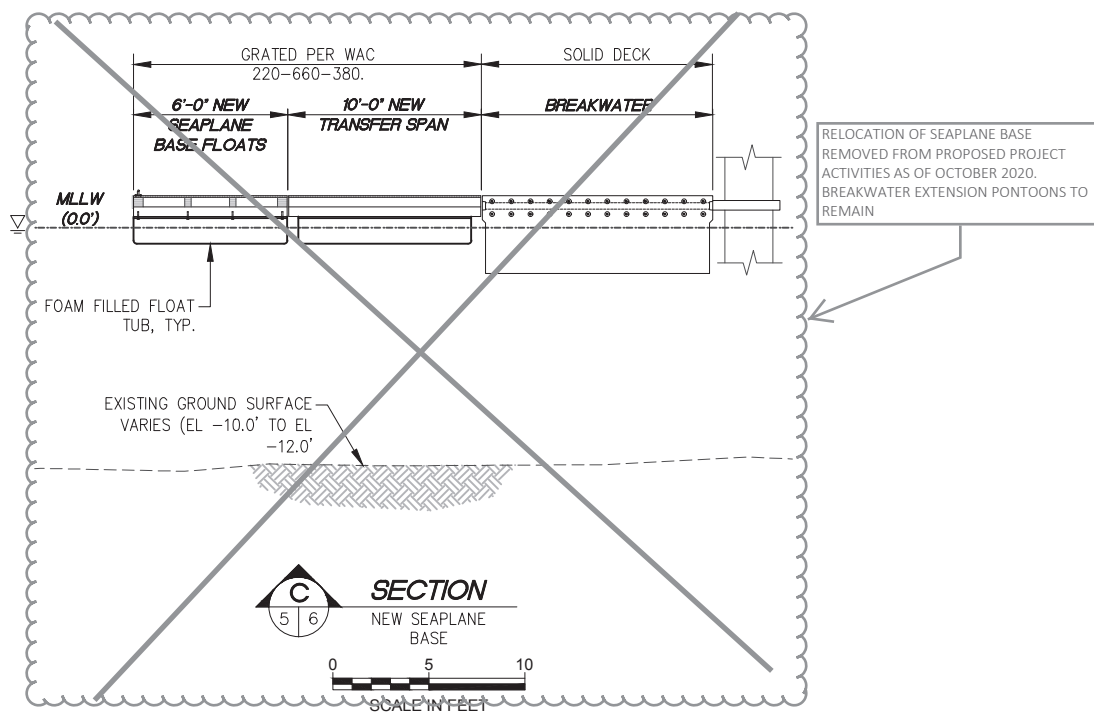
DATE: JUNE 2020



SECTION A
2 | 6
REMOVAL OF EXISTING LOG BOOM
SCALE IN FEET
0 10 20



SECTION B
2 | 6
REMOVAL OF EXISTING BREAKWATER
SCALE IN FEET
0 10 20



SECTION C
5 | 6
NEW SEAPLANE BASE
SCALE IN FEET
0 5 10

PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

PORT OF POULSBO BREAKWATER REHABILITATION PROJECT

SECTIONS
APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE BASE FLOAT, AND EXTEND DOCK AA FOR PUBLIC ACCESS
IN: POULSBO

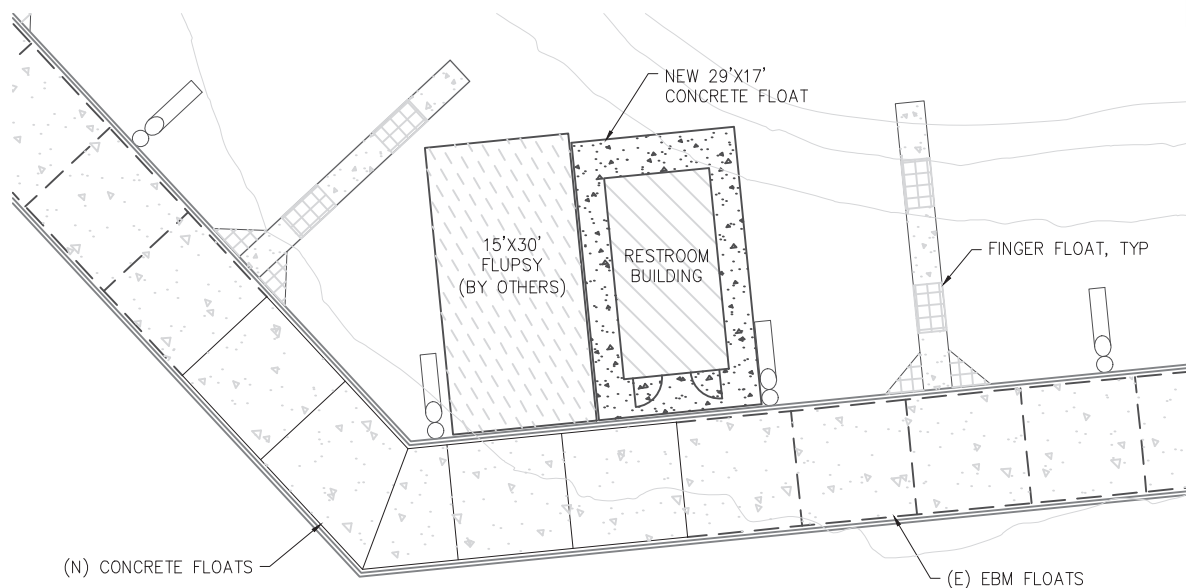
AT: LIBERTY BAY

COUNTY: KITSAP

SHEET 6 OF 11

SEE REVISION NOTES, SHEET 1

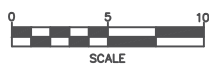
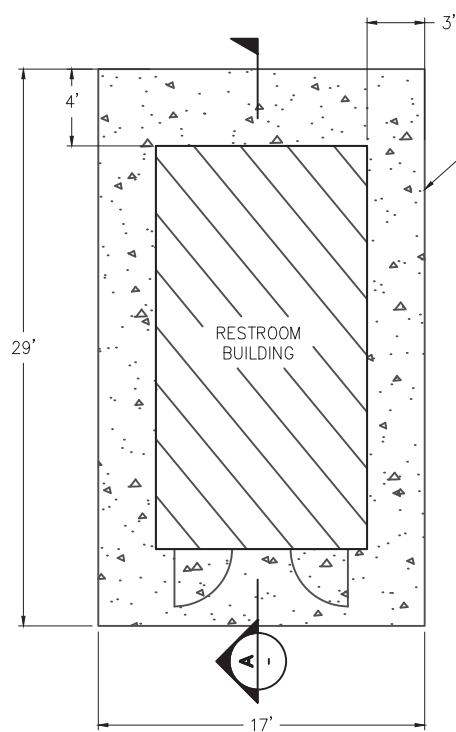
DATE: JUNE 2020



PARTIAL PLAN

1
XX

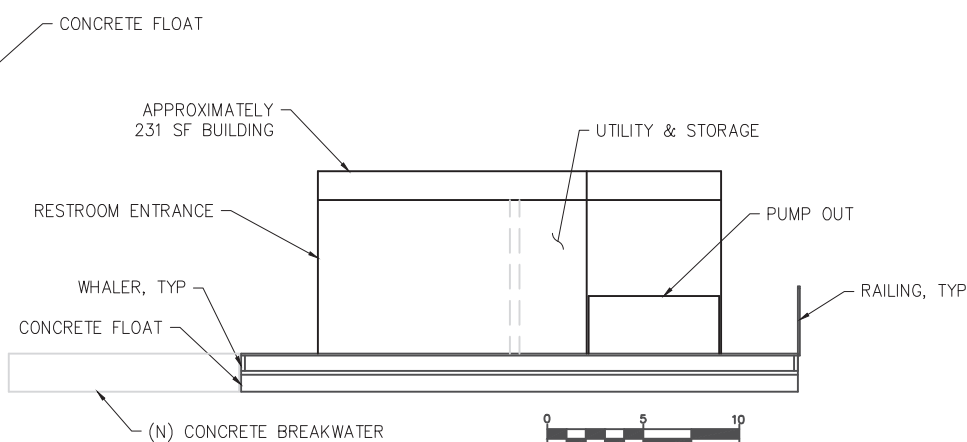
SCALE



SCALE

RESTROOM
PLAN

2



SCALE

RESTROOM
ELEVATION

A

PURPOSE: REPLACE BREAKWATER

5

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

PORT OF POULSBO BREAKWATER REHABILITATION PROJECT

RESTROOM PLAN & ELEVATION

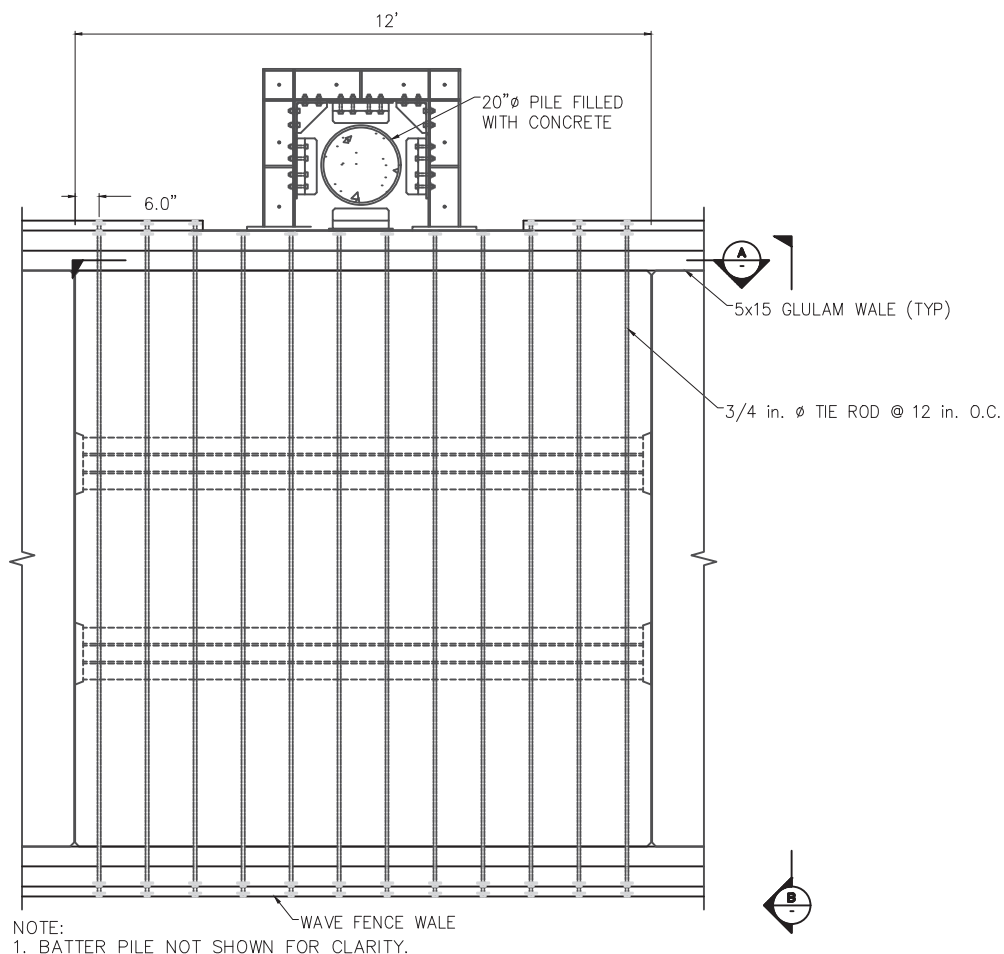
APPLICATION BY:
PORT OF POULSBOPROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESSIN: POULSBO
AT: LIBERTY BAY

COUNTY: KITSAP

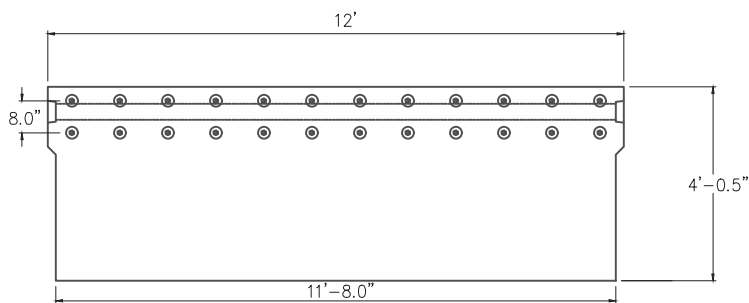
SHEET 7 OF 11

SEE REVISION NOTES, SHEET 1

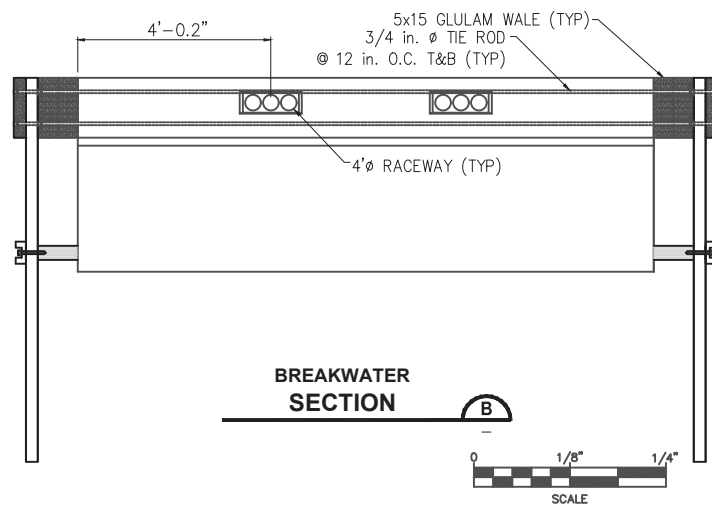
DATE: JUNE 2020



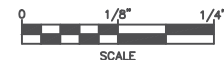
**TYPICAL BREAKWATER FLOAT
PLAN**



**CONCRETE BREAKWATER PONTON
SECTION**



**BREAKWATER
SECTION**



PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

**PORT OF POULSBO
BREAKWATER
REHABILITATION PROJECT**

BREAKWATER DETAILS

APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE BEARPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESS
POULSBO

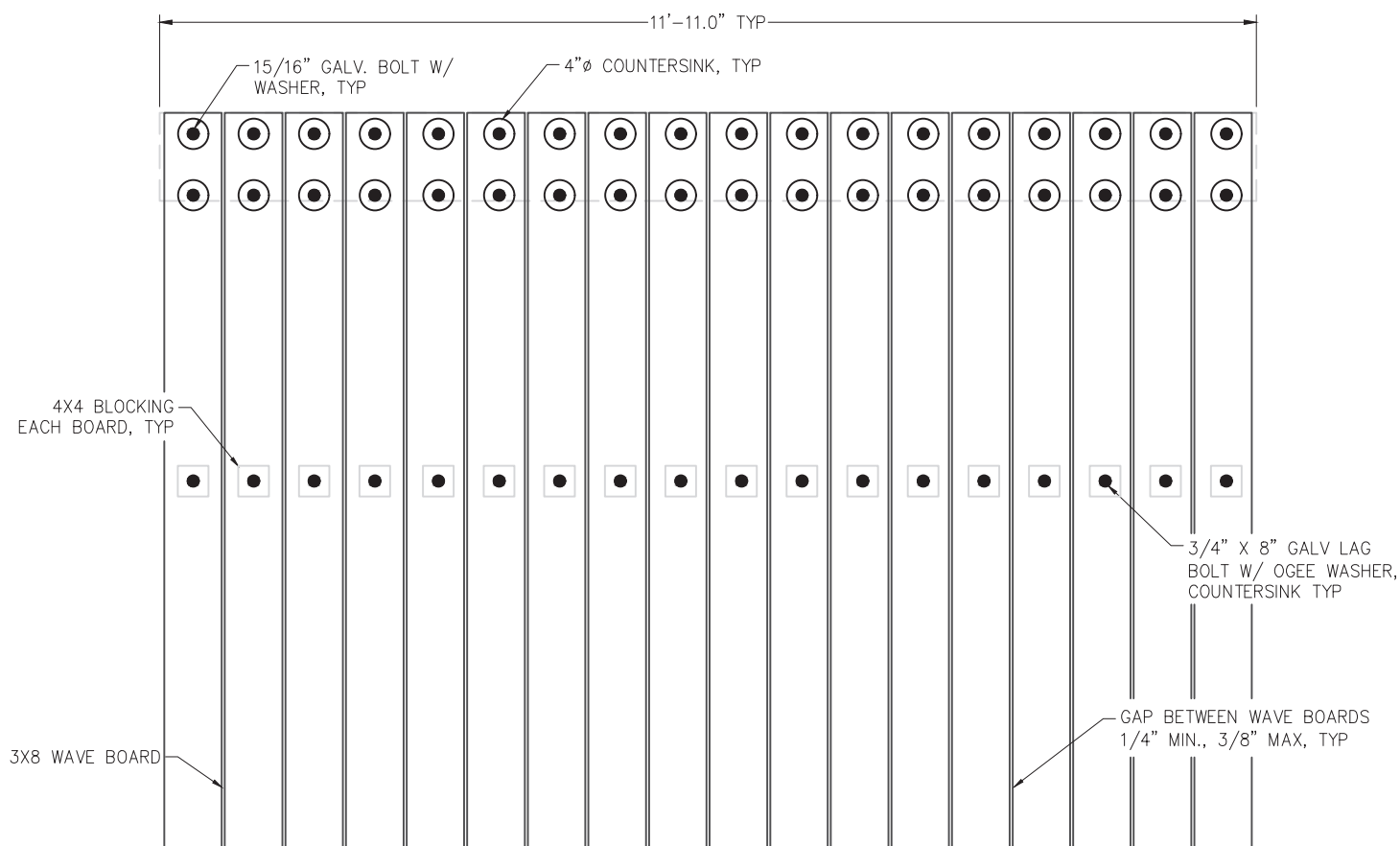
IN:
AT: LIBERTY BAY

COUNTY: KITSAP

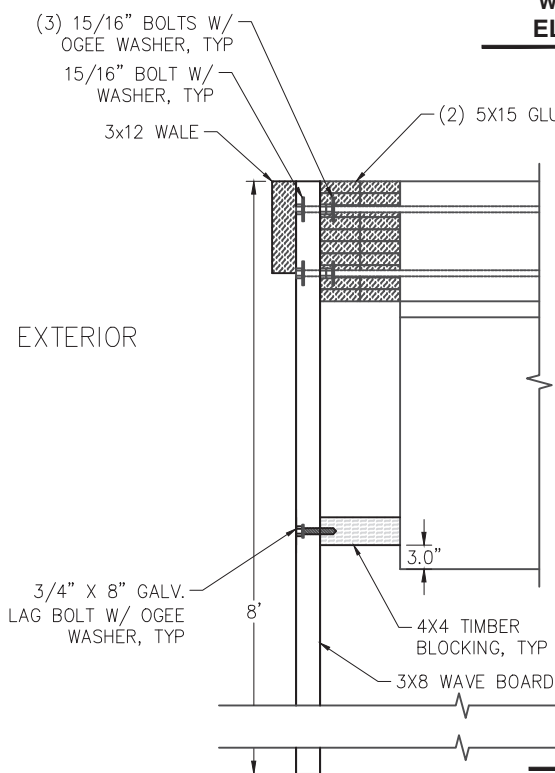
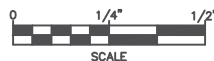
SHEET 8 **OF** 11

SEE REVISION NOTES, SHEET 1

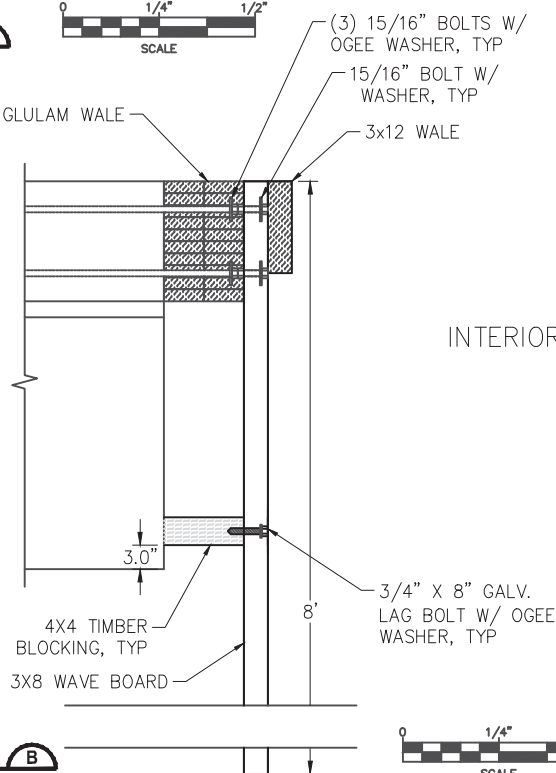
DATE: JUNE 2020



**WAVE FENCE
ELEVATION**



EXTERIOR



INTERIOR

**WAVE FENCE
SECTION**



PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

**PORT OF POULSBO
BREAKWATER
REHABILITATION PROJECT**

WAVE FENCE ELEVATION & SECTION

APPLICATION BY:
PORT OF POULSBO

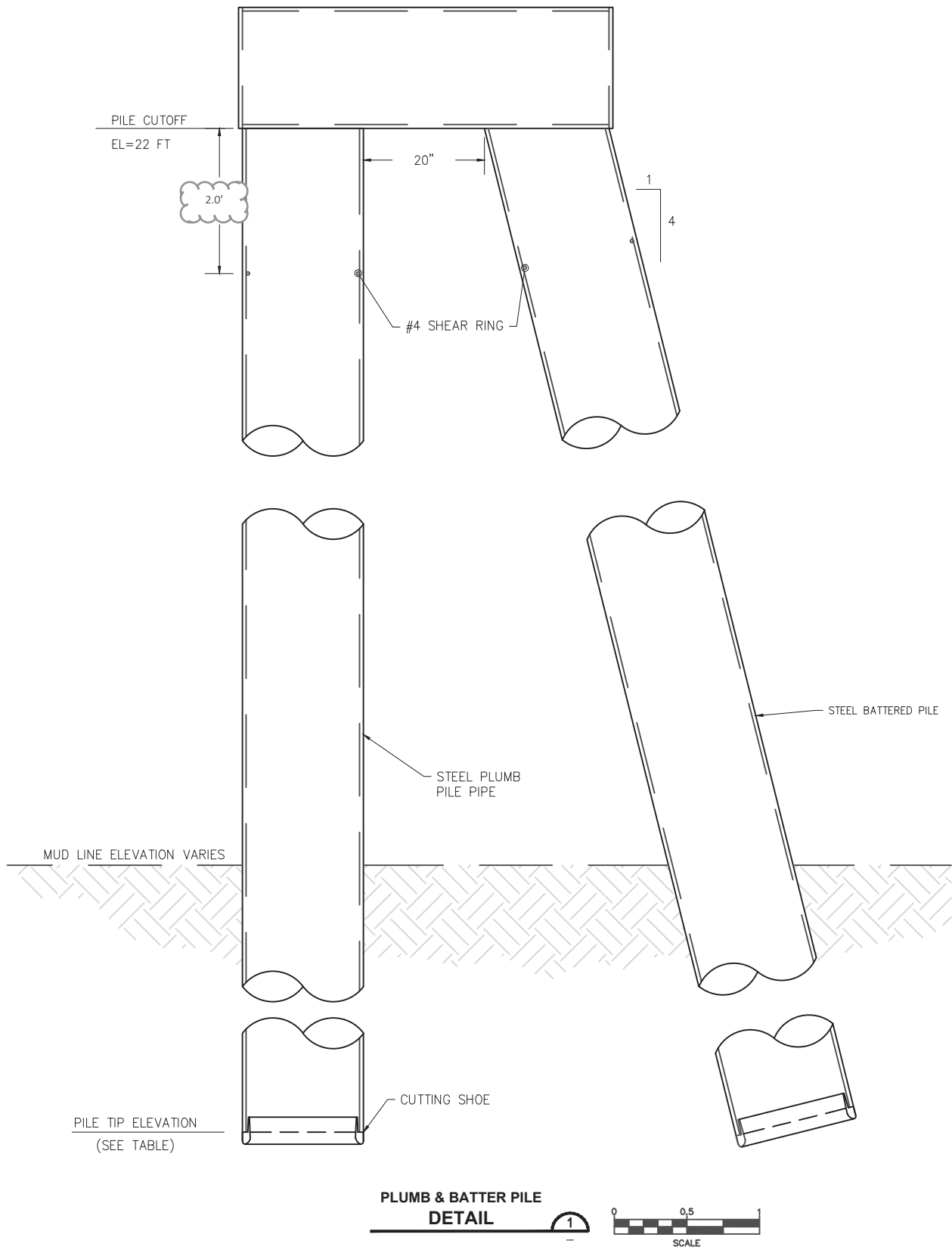
PROPOSED: REPLACE BREAKWATER, ~~RELOCATE SEAPLANE~~
~~BASE FLOAT~~, AND EXTEND DOCK AA FOR
PUBLIC ACCESS
POULSBO

IN:
AT: LIBERTY BAY
COUNTY: KITSAP

SHEET 9 OF 11

SEE REVISION NOTES, SHEET 1

DATE: JUNE 2020



PURPOSE: REPLACE BREAKWATER

DATUM: MLLW

ADJACENT PROPERTY OWNERS:

- | | |
|-------------------------|---------------------|
| 1. CITY OF POULSBO | 6. A. STEWART |
| 2. PORT OF POULSBO | 7. M. MEFFERD |
| 3. SEA DISCOVERY CENTER | 8. S. & C. STANDARD |
| 4. N. MANOCHEHR | 9. B. & B. RINDAL |
| 5. G. STRANGE | 10. NET SHED PARK |

PORT OF POULSBO
BREAKWATER
REHABILITATION PROJECT

PLUMB & BATTER PILE DETAIL

APPLICATION BY:
PORT OF POULSBO

PROPOSED: REPLACE BREAKWATER, RELOCATE SEAPLANE
BASE FLOAT, AND EXTEND DOCK AA FOR
PUBLIC ACCESS
POULSBO

IN:
AT:
COUNTY: KITSAP
LIBERTY BAY

SHEET 10 OF 11

SEE REVISION NOTES, SHEET 1

DATE: JUNE 2020

Figure 1 shows the elevation view of a 30-foot slipform piling. The pile is 30 feet high, with a 4-foot base section. The pile is divided into three sections: 10 feet of concrete, 10 feet of steel, and 10 feet of concrete. The pile is supported by a 4-foot wide base.

8' ACCESS FLOAT

5' FINGER

3' FINGER

7' CLR MIN

4' CLR MIN

2' CLR MIN

CLEAT, BOTH SIDES (TYP)

3X8 RUB BOARD, TYP

CONCRETE COVER

4"

FREEBOARD SEE SPECIFICATIONS

POLYSTYRENE FOAM CORE

SEAL BOTTOM WITH 1-1/2" CONCRETE OR 50 MIL (MIN) OF POLYURETHANE COATING (TYP)

4'-10.0"

4'-1.0"

PILE

1/2" ϕ DRAIN HOLE EACH WELL, (TYP)

UHMW-PE BLOCK

TIMBER WALE

DATE: JUNE 2020