

PIER DETAILS - EXISTING/PROPOSED

LEGEND

- (10) EXISTING PILES TO BE REPAIRED
- (4) EXISTING PILES NO WORK TO BE DONE
- (2) EXISTING MOORING PILE NO WORK TO BE DONE

Area: 432 sqft (new grated decking)

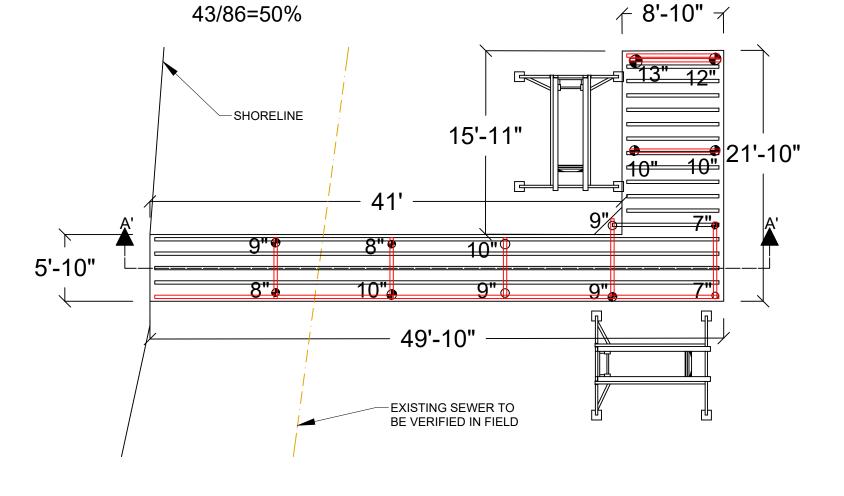
**Grated decking material is 43% light permeable



- (14) EXISTING PILES
- (7) EXISTING CAPS
- (37) EXISTING STRINGERS
- (28) EXISTING BRACKETS
- (86) TOTAL MEMBERS

REPAIR:

- (10) PILES
- (7) CAPS
- (6) STRINGERS
- (20) BRACKETS
- (43) MEMBER REPAIRS



11₀

12₀

PLAN VIEW



Seaborn Pile Driving 1080 W Ewing St Seattle, WA 98119

Office: 206-236-1700 ext. 3 www.seabornpiledriving.com

Scope of Work: We propose to repair (8) piles, repair the existing deck, stairs, and dock with grated decking material, and permitting the relocation of one lift.

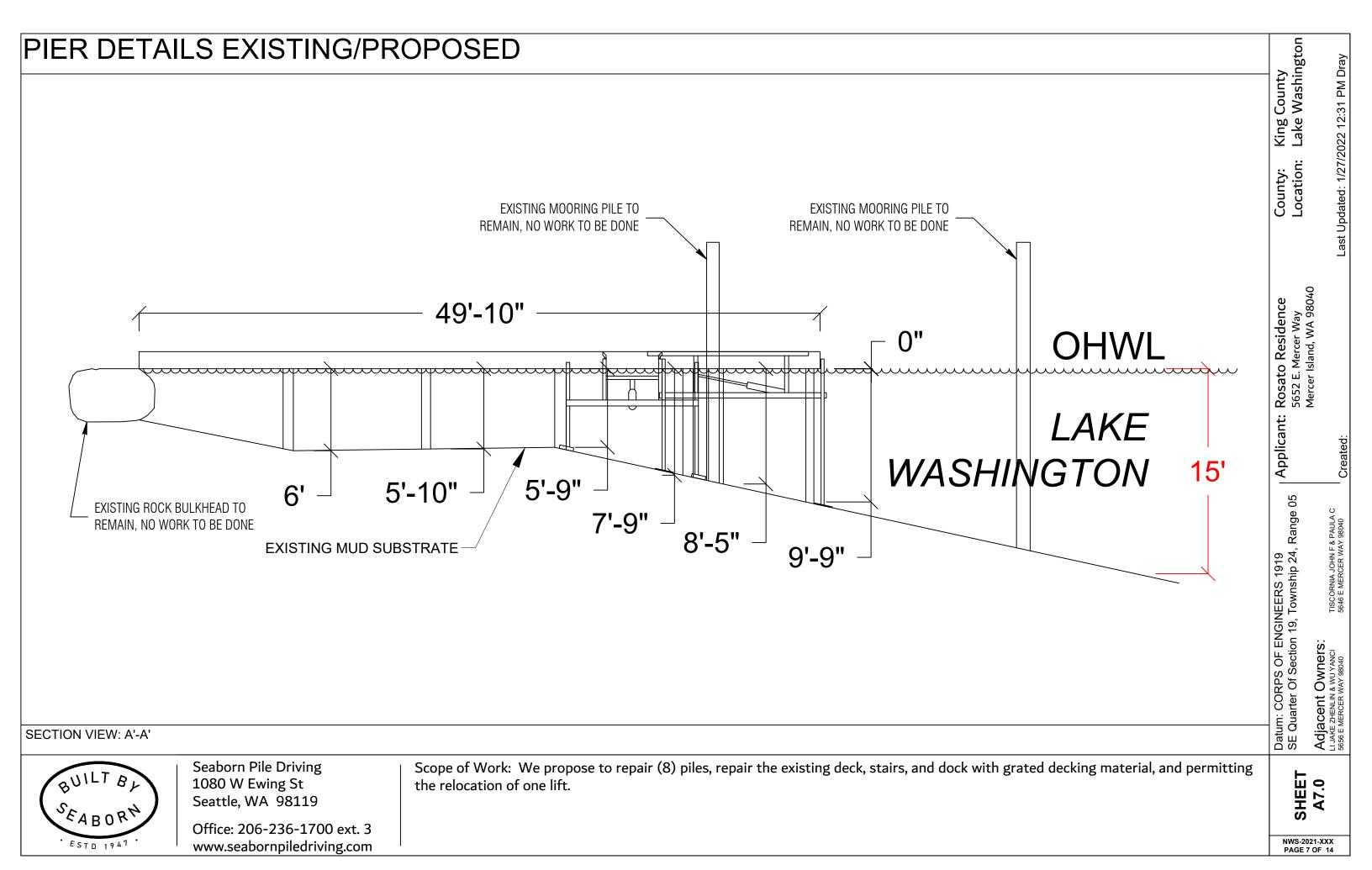
SHEET A6.0

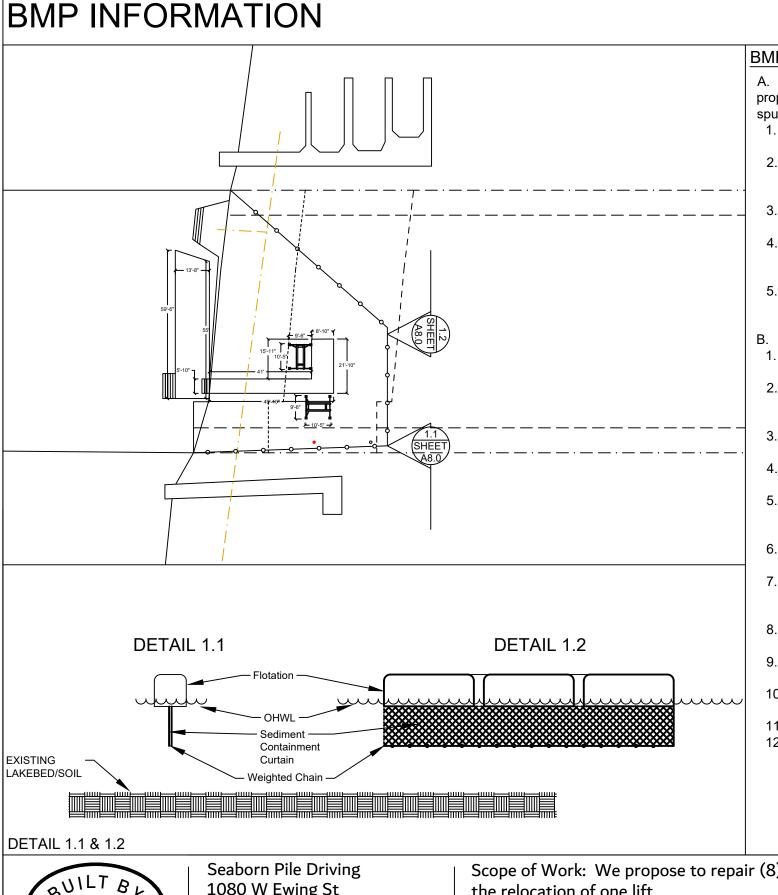
NWS-2021-XXX

: Rosato Residence 5652 E. Mercer Way Mercer Island, WA 98040 **Applicant**:

Datum: CORPS OF ENGINEERS 1919 SE Quarter Of Section 19, Township 24, Range 05

Adjacent (LI JAKE ZHENLIN S





BMP NOTES:

Constant vigilance shall be kept for the presence of protected fish species during all aspects of the proposed action, particularly during in-water activities such as vessel movement, deployment of anchors & spuds, pile driving, dredging, and placement of gravels and other fill.

- 1. The project manager shall designate an appropriate number of competent observers to survey the project site and adjacent areas for protected species, including the presence of fish as conditions allow.
- 2. Visual surveys shall be made prior to the start of work each day, and prior to resumption of work following any break of more than an hour. Periodic additional visual surveys throughout the work day are strongly recommended.
- 3. All in-water work shall be done during the in-water work window for the waterbody. Where there is a difference between the USCOE and WDFW work windows, the overlap of the two shall apply.
- 4. All pile driving and extraction shall be postponed or halted when obvious aggregations or schooling of fish are observed within 50 yards of that work, and shall only begin/resume after the animals have voluntarily departed the area.
- 5. When piloting vessels, vessel operators shall operate at speeds and power settings to avoid grounding vessels, and minimize substrate scour and mobilization of bottom sediments.
- No contamination of the marine environment shall result from project-related activities.
- 1. Appropriate materials to contain and clean potential spills shall be stored and readily available at the work site and/or aboard project-related vessels.
- 2. The project manager and heavy equipment operators shall perform daily pre-work equipment inspections for cleanliness and leaks. All heavy equipment operations shall be postponed or halted should a leak be detected, and shall not proceed until the leak is repaired and the equipment is cleaned.
- 3. To the greatest extent practicable, utilize biodegradable oils for equipment that would be operated in or near water.
- 4. Fueling of land-based vehicles and equipment shall take place at least 50 feet away from the water, preferably over an impervious surface. Fueling of vessels shall be done at approved fueling facilities.
- 5. Turbidity and siltation from project-related work shall be minimized and contained through the appropriate use of erosion control practices, effective silt containment devices, and the curtailment of work during adverse weather and tidal/flow conditions.
- 6. All wastes shall be collected and contained for proper disposal at approved upland disposal sites appropriate for the material(s).
- 7. When removing piles and other similarly treated wood, containment booms must fully enclose the work area. Wood debris, oils, and any other materials released into lake waters must be collected, removed. and properly disposed of at approved disposal sites.
- 8. All in- and over-water wood cutting would be limited to the minimum required to remove the subject wood component, and all cutting work should be enclosed within floating containment booms.
- 9. When removing piles, no actions shall be taken that would cause adhering sediments to return to lake
- 10. Above-water containment shall be installed around removed piles to prevent sediment laden waters from returning to lake waters.
- 11. Construction staging (including stocking of materials, etc.) will occur on the supply barge.
- 12. All Exposed wood to be used on the project will be treated with a cheminite treatment.

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SHEET A8.0

NWS-2021-XXX

Rosato Residence 5652 E. Mercer Way Mercer Island, WA 98040 Applicant:

County Washington

King Lake

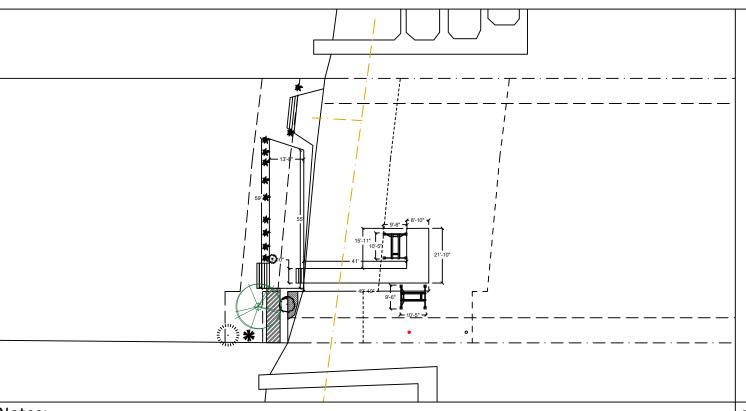
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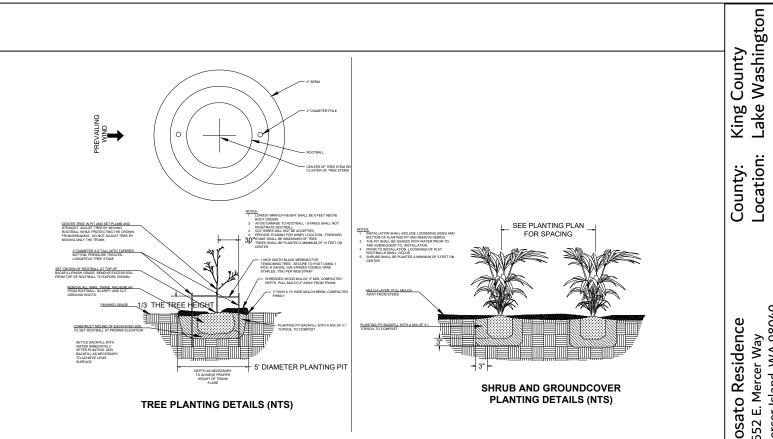
Datum: CORPS OF ENGINEERS 1919 SE Quarter Of Section 19, Township 24, Range 05 Owners:

& WU YANCI
WAY 98040

Adjacent (LI JAKE ZHENLIN S

MITIGATION PLAN





Notes:

- 1. Shrubs are show, and shall be planted, at least five feet on center. Trees are show, and shall be planted, at least ten feet to
- 2. The property owner will implement and abide by the shoreline planting plan. The plants shall be installed before or concurrent with the work authorized by this permit. A report, as-built drawing and photographs demonstrating the plants have been installed or a report on the status of project construction will be submitted to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, within 12 months from the date of permit issuance. This reporting requirement may be met by completing and submitting a U.S. Army Corps of Engineers approved Report for Mitigation Work Completion form.
- 3. The property owner will maintain and monitor the survival of installed shoreline plantings for five years after the U.S. Army Corps of Engineers accepts the as-built report. Installed plants shall achieve 100% survival during monitoring Years 1 and 2. Installed plants shall achieve at least 80% survival during monitoring Years 3, 4 and 5. Percent survival is based on the total number of plants installed in accordance with the approved riparian planting plan. Individual plants that die will be replaced with native riparian species in order to meet the survival performance standards.
- 4. The property owner will provide annual monitoring reports for five years (Monitoring Years 1-5). Each annual monitoring report will include written and photographic documentation on plant mortality and replanting efforts and will document whether the performance standards are being met. Photos will be taken from established points and used repeatedly for each monitoring year. In addition to photos at designated points, photo documentation will include a panoramic view of the entire planting area. Submitted photos will be formatted on standard 8 1/2 x 11" paper, dated with the date the photo was taken, and clearly labeled with the direction from which the photo was taken. The photo location points will be identified on an appropriate drawing. Annual shoreline planting monitoring reports will be submitted to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, by November 31 of each monitoring year. This reporting requirement may be met by completing and submitting a U.S. Army Corps of Engineers approved Mitigation Planting Monitoring Report form.

PROPOSED PLANTING SPECIES/QUANTITIES

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SYMBOL	LATIN NAME	COMMON NAME	QTY	SIZE	Appl
	Thuja picatta	Western Redcedar	1	3 ft	9 :4, Range
PLANTS: Shrubs to b	oe installed 5ft on center and tree	s to be installed 10ft on	center.		Datum: CORPS OF ENGINEERS 1919 SE Quarter Of Section 19, Township 24,

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SHEET A9.0

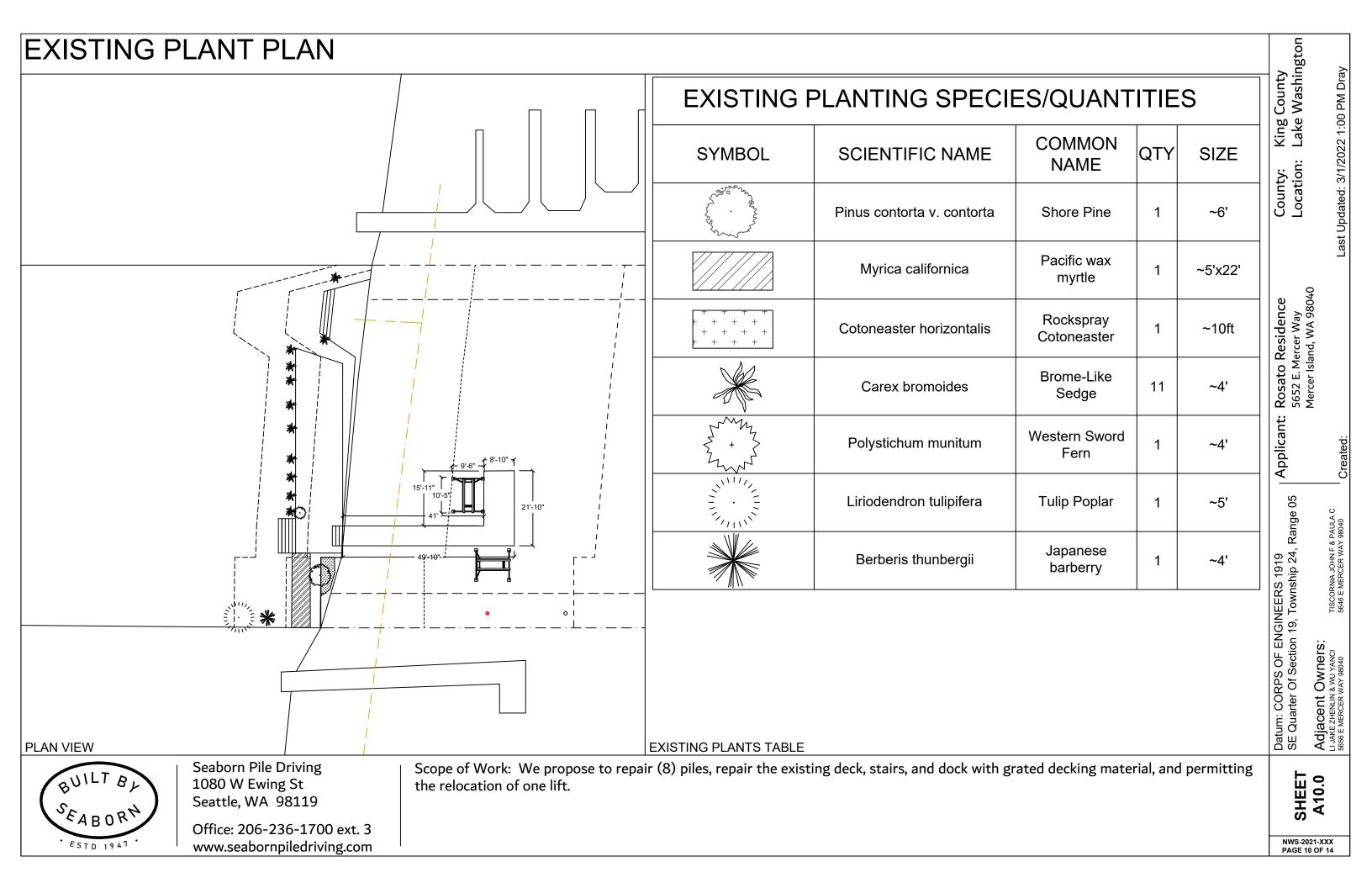
NWS-2021-XXX

Rosato Residence 5652 E. Mercer Way Mercer Island, WA 98040

_ast Updated: 3/1/2022 1:00 PM Dray

Applicant:

Adjacent (LI JAKE ZHENLIN S



GENERAL NOTES:

MATERIALS SPEC LIST:

Boat Lifts:

- * SL10014ARW 114" x 125"
- * SL10014ARW 114" x 125"

Decking Material: FRPP - Fiberglass reinforced polypropylene

Light permeable percentage:

- * Surface 43%
- * 18" Dock Height 61%

Sewer:

* All sewer is field verified by probing the lake bed manually during the allowed work windows for the area.

Piles:

* Repair piles are done as a sleeve/strap method

Mitigation:

* Originally submitted mitigation will change following CORPS submittal. We will update the plan set to reflect all changes before submitting for an amendment

CODE REFERENCES: Mercer Island

We are applying for the permit to be reviewed under the:

"Alternative Development Standards" per MIMC 19.13050(F)(3).

The code official shall approve moorage facilities not in compliance with the development standards in subsection (F)(1) or (F)(2) of this section subject to both U.S. Army Corps of Engineers and Washington Department of Fish and Wildlife approval to an alternate project design. The following requirements and all other applicable provisions in this chapter shall be met:

i. The dock must be no larger than authorized through state and federal approval; Ch. 19.13 Shoreline Master Program Mercer Island City Code Page 30 of 34 The Mercer Island City Code is current through Ordinance 20C-13, passed June 16, 2020.

The dock is no larger than authorized

ii. The maximum width must comply with the width of moorage facilities standards specified in standards specified in subsection D of this section (Table D);

Not applicable

iii. The minimum water depth must be no shallower than authorized through state and federal approval;

Water depth is not changing

iv. The applicant must demonstrate to the code official's satisfaction that the proposed project will not create a net loss in ecological function of the shorelands; and

NNL report attached

iw. The applicant must provide the city with documentation of approval of the moorage facilities by both the U.S. Army Corps of Engineers and the Washington Department of Fish and Wildlife.

Plan set is in review by CORPS and WDFW

Last permit issued for property: Building WW523R 7/16/18

Dock established/constructed: 10/28/1983



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SHEET A11.0

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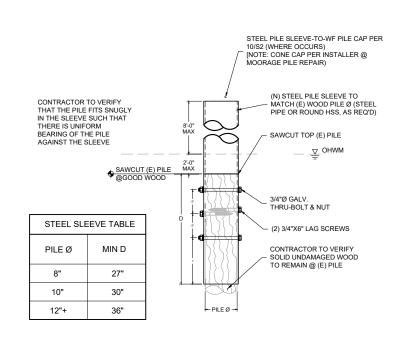
Rosato Residence 5652 E. Mercer Way Mercer Island, WA 98040

Applicant:

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NWS-2021-XXX

DETAILS - REPAIR



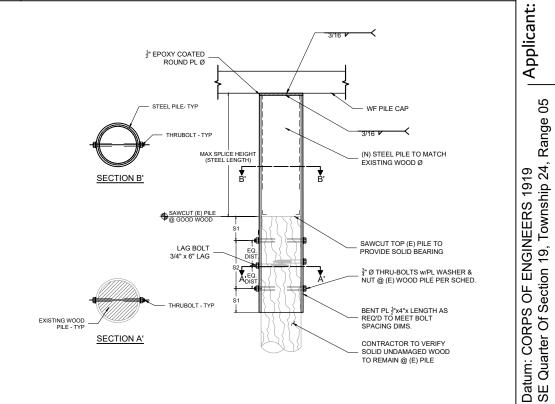
SLEEVE PILE REPAIR - TYP

DETAIL NOT IN USE

DETAIL NOT IN USE

STEEL SLEEVE TABLE							
PILE Ø	MAX SPLICE HEIGHT	S1	S2	S3			
9"	15"	6"	12"	3"			
12"+	28"	6"	12"	3"			

- MAX PILE LOAD = 1,200 # / PILE (BOAT LOAD PARALLEL TO DOCK).
- CONTACT ENGINEERING IF BOAT SIZE EXCEEDS GENERAL NOTES MAXIMUM ALLOWABLE
- MINIMUM BOLT SPACING = 3"
- STRAP AXIS SHALL BE ORIENTED PERPENDICULAR TO LONGITUDINAL AXIS OF DOCK.



S4 **DETAIL NOT IN USE** SPLICE PILE REPAIR - TYP



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SHEET A12.0

Adjacent Owners:

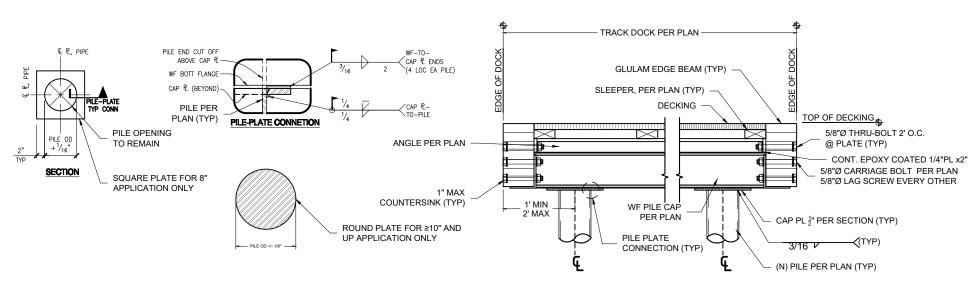
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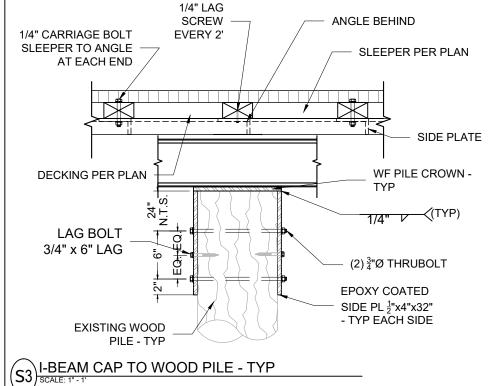
King Lake

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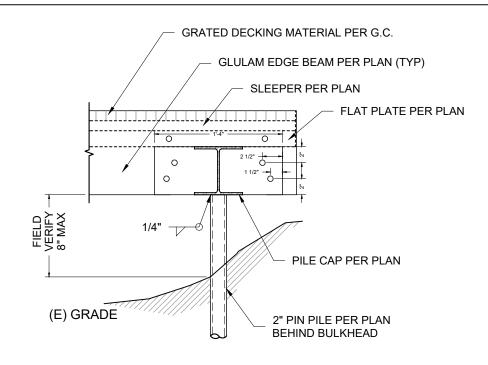
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DETAILS - TRACK





S1)DOCK SECTION w/PILES - TYP



PIN PILE @SHORE MOUNT - TYP

EABOR"

ESTD 1947

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GLULAM EDGE BEAM (TYP) SLEEPER PER PLAN (TYP) 1/4"Ø CARRIAGE BOLT SLEEPER TO EA ANGLE DECKING TOP OF DECKING 5/8"Ø THRU-BOLT 2' O.C. @ PLATE **EPOXY COATED ANGLE** (2) 5/8"Ø THRU-BOLT EPOXY COATED, WF PER PLAN FLUSH WITH BEAM REF S3/SHEET12.0 3/16 V (TYP) (S5) EDGE SECTION (STEEL TRACK) - TYP

Rosato Residence 5652 E. Mercer Way Mercer Island, WA 98040 Applicant: SLEEPER, PER **CONT EPOXY** PLAN (TYP) COATED PL DECKING Datum: CORPS OF ENGINEERS 1919 SE Quarter Of Section 19, Township 24, Range 05 CL BOLTS GLULAM & BENT PL **EDGE BEAM** COUNTERSINK BOLT: 1" MAX EDGE BEAM PER PLAN $\angle 7\frac{1}{2} \times 7\frac{1}{2} \times \frac{3}{8} \times 0' - 6"$ (DOES NOT CONTINUE w/(4) 3"Ø THRU-BOLT @ SIM CONDITION **EA LEG** S6 BEAM TO BEAM - TYP

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SHEET 13.0

Adjacent Owners:

County Washington

King Lake

County: Location: Last Updated: 1/27/2022 12:31 PM Dray

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