

**PROJECT DESCRIPTION & CONSTRUCTION SEQUENCE**

**Keller, Michele & Neil – Dock Repair**

**A. Project Location**

The proposed project is located on Lake Washington in the City of Mercer Island. Site address is 4111 Boulevard Pl, Mercer Island, WA 98040. The property is situated within NW Section 13, Township 24, Range 04, at Lat: 47.572000, Long: -122.238380. Parcel # 3623500420.

Owner - Michele and Neil Keller  
4111 Boulevard Pl  
Mercer Island, WA 98040

Agent for Owner- Kristin Osterberg  
Waterfront Construction, Inc.  
205 NE Northlake Way, Suite 230  
Seattle, WA 98105

**B. Project Description**

The proposed project is a dock repair on a single-family residential property. Replace decking on 1000 square foot dock (replace solid wood decking with light penetrating grating), replace fascia. Pile repair: 8 out of 35 existing piles will be spliced. Existing substructure (cap beams, stringers) to remain. Replace existing moorage cover canopy with translucent moorage cover. Boat lift and platform lift to remain. No changes to dock size or configuration. Please see project drawings for details.

**C. Construction Technique & Sequencing**

**1. PRE-CONSTRUCTION**

New deck grating will be prefabricated into sections at our Seattle yard. If required by the City of Mercer Island, a pre-construction site meeting will be scheduled with staff and Waterfront Construction's construction crew.

## **2. SITE PREPARATION**

There is no site preparation required prior to construction crew accessing site.

## **3. OFF-SITE PRE-FABRICATION**

All materials required for installation will be loaded onto the construction vessel in the contractor's Seattle yard and transported to the project site.

## **4. ON SITE CONSTRUCTION**

- Load barge with all materials and equipment necessary to perform the work as described. Mobilize barge to site.
- Remove and dispose of decking and canopy. Framing elements to be replaced if needed (not anticipated).
- Repair (6) internal piles using short bonnet splice below OLW.
- Repair (1) shoreward internal timber pile using full bonnet splice at mudline w/ grout.
- Install Sun Walk molded plastic grated decking.
- Install new Crystalite translucent moorage cover and framing.
- Existing dock accessories including cleats, vertical fenders, safety ladder, dock lights to remain.
- Existing boatlift & platform lift to remain.

Please see attached plans for reference.

## **5. MITIGATION**

Mitigation is to be determined with USACE and WDFW. Mitigation for previously permitted shoreline projects will be considered. A conservation fee may be an option per the new RAP program implemented by USACE and NMFS.

## **6. EQUIPMENT USED**

Onsite construction will be conducted using a diver, construction crew, and hand tools. The crane barge will be used for storage of all materials. All construction equipment and materials used in this project will be stationed on the construction vessel.

## **7. MATERIALS USED**

Material used will consist of molded plastic grated decking, steel bonnet splices, pipes, intermediate support stringers, stainless steel screws/hardware.

## **8. WORK CORRIDOR**

The vessel will operate offshore and avoids bottom and shoreline disturbances that could occur with ground-based equipment.

## **9. STAGING AREA AND EQUIPMENT WASH OUTS**

All staging area activities will occur on the pier and construction vessel, with no need for equipment washouts.

## **10. STOCKPILING AREAS**

The construction vessel will hold all construction materials during the project.

## **11. RUNNING OF EQUIPMENT DURING CONSTRUCTION**

Equipment will be running off and on throughout the on-site construction phase. All equipment will be kept in good running order and will only be running when required.

## **12. CLEAN-UP AND RE-VEGETATION**

Clean-up will occur using Best Management Practices.

## **13. PROJECT TIMING**

All proposed construction will take place in approved work windows during daylight hours to facilitate construction. In-water work windows to be determined by USACE and WDFW.

## **14. DURATION OF CONSTRUCTION**

Onsite project work will take a maximum of 2-4 weeks.