

Appendix B: DETAILED DESCRIPTION OF THE PROJECT ELEMENTS

South Terminal Intermodal Wharf Upgrade

The existing wharf at South Terminal is a 700-foot long concrete deck superstructure supported on concrete piling. The wharf was constructed in the late 1970s by the Weyerhaeuser Co., and was designed to only support 500 pounds per square foot (PSF) live load. Modern cargo operations, particularly in bulk/break-bulk operations, typically require 1,000 PSF live load or greater. Furthermore, many of the concrete beams supporting the deck are exhibiting signs of their age, with cracking and spalling. This project will add piling and reinforce the remaining 560-feet of dock structure for 1,000 PSF live loading, rehabilitate deteriorated elements of the existing structure, and construct 700 feet of 100-foot gauge crane rails, which will allow the Port to install two, 100-foot gauge gantry cranes on the wharf. In 2015, the Port completed Project I of this dock strengthening project, constructing a “heavy-lift” section on a 140 X 110 square foot area at the north end of the wharf.

Shore Power

This element will extend new high voltage power systems into the Port’s existing South Terminal, providing power and equipment so that shipping vessels can “cold iron” (turn off their diesel engines) while at berth. Voltage requirements exceed 10,000 volts, and new main and underground power lines, substations, transformers, and electrical panels need to be installed in the terminal. Other special equipment is needed dockside to allow high voltage cables to be extended and connected to the ships’ power systems.

Terminal Rail Improvements

Project II includes approximately 3,300 LF of additional rail sidings. This double terminal rail siding project would more than double the operational capacity at the Port of Everett, increasing the on-site storage from 46 cars to a total of 106 cars upon completion. This would provide the capacity necessary to support enhanced rail operations and reduce congestion and delays on the mainline.

Construction of a new warehouse

The existing warehouse located adjacent to the South Terminal Wharf will be demolished as part of this project and replaced with a larger warehouse facility in the general vicinity. The square footage of this new structure has yet to be determined.