

## **DIVISION 02 – EXISTING CONDITIONS**

### **Section 02 41 00 – Demolition**

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#### **PART 1 - GENERAL**

##### **1.01 RELATED WORK SPECIFIED ELSEWHERE**

A. The provisions and intent of the Contract, including the General Conditions, Supplementary Conditions and General Requirements, apply to this work as if specified in this section. Work related to this section is described in the following.

1. Section 00 31 26 – Existing Hazardous Material Information
2. Section 01 10 00 – Summary
3. Section 01 33 00 – Submittal Procedures
4. Section 01 35 29 – Health, Safety, and Emergency Response Procedures
5. Section 01 50 00 – Temporary Facilities and Controls
6. Section 01 74 19 – Construction Waste Management and Disposal
7. Section 02 90 00 – Fugitive and Silica Dust Control Procedures
8. Section 03 60 00 – Grouting

##### **1.02 DESCRIPTION OF WORK**

A. The extent and location of the "Demolition" work is indicated on the drawings, and as outlined below.

1. Removal and disposal, in whole or in part, all items (demolition materials, debris, etc.) in compliance with the specifications and all agencies of jurisdiction. All items shall become the property of the Contractor unless otherwise noted.
2. Payment of all costs required for disposal of items at legal disposal sites, including all permit fees and related costs.

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- B. The details shown on the drawings are based upon information contained in the reference drawings. The details indicate typical features of the various structures and shall not be construed as complete or adequate to supplant actual on-site inspection, additional review, and interpretation of the reference drawings by the Contractor.
- C. In general, demolition work shall be in accordance with all applicable local, state, and federal regulations, and all permit requirements for the project.

#### 1.03 REFERENCE STANDARDS

- A. Standard Specifications for Road, Bridge, and Municipal Construction, M41-10, 2012 edition, by Washington State Department of Transportation (WSDOT Standard Specifications).

#### 1.04 REFERENCE DRAWINGS

- A. The reference drawings shall be reviewed by the Contractor and electronic files are available from the Port. The Port does not warrant the completeness or accuracy of these documents and the Contractor assumes all risk regarding their use. The reference drawings are not as-built.
- B. The following reference drawings or documents are available:
  1. Pierce County Terminal Wharf and Phase 2 Dredging and Slip 5 Mitigation (Contract No. 998149, Project No. 102349.10, Record Drawings dated June 2003, 163 Sheets).
  2. Pierce County Terminal Berth B (Contract No. 430, Project No. 07-1-1920, Record Drawings dated October 1975, 22 Sheets).
  3. Pierce County Terminal Wharf Complex (Project No. 07-1-00717, Dated March 1972, 19 Sheets).
  4. Pierce County Fender Shop Drawings by Zalda Technoloy (Dated October 2003, 13 Sheets).
- C. The 2005 wharf expansion record drawings, dwg S76, show a "vee fender concrete back-up stub" that does not exist. see 'D' series drawings for existing conditions.

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#### **1.05 SITE CONDITIONS:**

- A. Pierce County Terminal is an operating facility. The work shall be completed in accordance with phasing and access shown on the drawings. Access to the site is restricted by ongoing terminal operations. Contractor operations shall be restricted to the designated areas.
- B. All demolition items not identified for salvage or recycle shall become the property of the Contractor. Disposal of all demolition items shall be in accordance with the specifications, local, state and federal requirements.
- C. Refer to Section 00 31 26 – Existing Hazardous Material Information for additional information.

#### **1.06 SUMMARY**

- A. Items and material categories for demolition include, but are not limited to, (34) fender assemblies and (2) locations of pile cap spall repair.
- B. Any damage by the Contractor's operations to the existing wharf face and operating areas shall be repaired or replaced, by the Contractor and at the Contractor's expense.

#### **1.07 SUBMITTALS**

- A. Demolition Management Plan (DMP) with documentation that includes and addresses the following:
  1. Work sequence and schedule. Include phased demolition requirements consistent with the overall project schedule.
  2. Activity-based schedule.
  3. List of subcontractors proposed including point of contact and telephone numbers.
  4. List of equipment to be used for demolition operations.
  5. Means and methods to protect existing infrastructure, and stockpile demolished materials. Include the methods used to provide floats, false work, temporary supports, bracing, and shoring.
  6. Means and methods to prevent demolition materials, debris, water from construction activities, etc. from falling into or entering the Blair Waterway.

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7. Laydown areas for materials management.
8. Worker safety, toolbox meetings, and signs.
9. Protection of the public or other persons in areas surrounding the work.
10. Environmental protection plan and compliance with permit requirements.
11. Hazardous material abatement plan.
12. Schedule of disposal sites, their locations, and the materials that will be disposed at each site.
13. Puget Sound Clean Air Agency, Notice of Intent to Demolish.

B. If the DMP is revised, resubmit with any proposed changes for review by the Engineer prior to incorporating changes to means, methods, equipment, tools, temporary supports, etc.

C. Water Quality Monitoring and Protection Plan (WQMP) as required by the Department of Ecology and described in the DOE Water Quality Certification. Refer to the permits included in the appendices.

## **PART 2 - PRODUCTS**

### **2.01 GENERAL**

- A. Grout pads and repair mortar are specified under Section 03 60 00 Grouting.
- B. All other products that are required to repair, accomplish, or be incorporated into the work shall be selected by the Contractor, subject to the approval of the Engineer.

## **PART 3 - EXECUTION**

### **3.01 PREPARATION**

- A. Verify all items for demolition, disposal, and salvage as early as practicable prior to start of the work. Notify the Engineer immediately if observed conditions differ from anticipated conditions.

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#### 3.02. DEMOLITION OF STRUCTURES

- A. Coordinate and perform all demolition in accordance with the permit requirements and regulations.
- B. Completely remove and dispose of all designated items. Infrastructure or materials designated to remain that are damaged by Contractor activities shall be replaced or repaired at the Contractor's expense.
- C. At no time shall any debris be allowed to enter the water. The Contractor shall make provisions using floats, falsework, scaffolding, and other means as necessary to prevent debris from falling into the water. All debris that falls into the water, whether it sinks or floats, shall be removed immediately, on an ongoing basis, and be disposed of at no additional cost to the Port.
- D. Blasting shall not be used.
- E. The Port encourages the salvage and recycling of materials from demolished structures. The Contractor shall salvage or recycle to the extent possible, in a manner acceptable to environmental agencies and the Port, any of the materials designated for demolition and disposal. See Section 01 74 19 – Construction Waste Management and Disposal.
- F. Disposal of all concrete (plain and reinforced) shall be at a Contractor-selected recycle site.
- G. All existing structures to remain shall be protected in-place by Contractor and not damaged. Any existing structures to remain that are damaged shall be repaired at the Contractor's expense.
- H. All existing anchors or embedded plates that are cutoff and abandoned at the wharf face shall be coated with Interzinc Aerosol by Interlux or approved equal. 3 coats of primer shall be applied for a total minimum dry-film-thickness of 3 mils. All oxidation shall be removed from base metal by grinding immediately prior to application and primer applied while base metal is still warm. Base metal shall have ambient temperature above the dew point when primer is applied. Follow recommendations by the primer manufacturer. Primer shall be grey in color.

#### 3.05 DISPOSAL

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- A. Disposal shall be in accordance with the Specifications, and in compliance with local, state, and federal regulatory agencies.
- B. Cleanup: After removal of all demolition items and materials, clean and grade the area. There shall be no debris, rubble or litter left at the site from any of the demolition operations and the site shall be clean.

**END OF SECTION**