



CITY OF ALBANY  
Public Works Department

ADDENDUM #2

SS-19-05

RIVERFRONT WET WEATHER LIFT STATION AND FORCE MAIN

In order to clarify the intent of the Specifications and Drawings, the following provisions are provided and shall be considered part of the contract documents.

In order to ensure that all bidders are aware of these provisions, each bidder shall sign this addendum below and attach it to the proposal.

**IMPORTANT: Failure to include a signed Addendum could result in the disqualification of your bid.**

**APPENDIX B:**

**Replace Section 02262 with the attached new Section 02262.** The new language clarifies requirements for settlement monitoring.

**Add the attached new Section 15116.6, SWING CHECK VALVES.** This specification was accidentally omitted from the original specifications.

**GENERAL INFORMATION:**

**Water Level in Willamette River:** There is a stream gauge on the Willamette River located at the Ellsworth Street bridge approximately a quarter mile upstream of the lift station site. The datum for this gauge is 167.18 feet (same vertical datum as the Construction Drawings).

Both current and historical data are available:

Current Data: <https://water.weather.gov/ahps2/hydrograph.php?wfo=pqr&gage=albo3>

Historical Data: [https://waterdata.usgs.gov/nwis/uv/?site\\_no=14174000&agency\\_cd=USGS](https://waterdata.usgs.gov/nwis/uv/?site_no=14174000&agency_cd=USGS)

\_\_\_\_\_  
Contractor's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company Name *(please type or print)*

## SECTION 02262

### SETTLEMENT MONITORING

#### PART 1 - GENERAL

##### 1.01 SECTION INCLUDES

- A. Requirements for settlement monitoring and contingency planning for protection of nearby existing structures and underground facilities from the effects of Contractor's construction of structures, pipelines, casings, tunnels, and other underground facilities.
- B. Develop a settlement monitoring and contingency program for any permanent existing structure including railroad track and railroad ties, and any structures which are within a horizontal distance 1.5 times the depth of any excavation deeper than 5 feet, or within 20 feet of the alignment of any borings, tunnels, and jacked casings. This paragraph does not limit Contractor's choice of construction methods based on the site conditions; it establishes minimum requirements for Contractor to monitor the effects of construction on existing site features and to demonstrate a reasonable preparedness to meet potential contingencies and protect existing site features.
- C. Provide an Oregon-Licensed Land Surveyor to perform the specified surveying

##### 1.02 REFERENCED SECTION

- A. The following Section is referenced in this Section:
  - 1. Section 01330 – Submittals

##### 1.03 SUBMITTALS

- A. Provide submittals in accordance with Section 01330.
- B. Requirements:
  - 1. Monitoring plan showing locations, depths, dimensions, and materials for settlement monitoring devices.
  - 2. Name of Oregon-Licensed Land Surveyor who will be taking measurements and copy of sample survey report.
  - 3. Any drilling permits and third-party approvals required to perform the work.
  - 4. Approved City of Albany review including requirements for monitoring including traffic control and restricted access.
  - 5. Procedures for installation and removal of instruments and materials.

#### 1.04 REPORTS AND RECORDS

- A. Submit Baseline Survey report showing location and initial elevation of all monitoring points installed at least one week prior to any excavation.
- B. Submit updated survey reports each week during active excavation or construction in the area.
- C. Submit final report with final elevation measured at least one month following excavation and construction in the area.

#### 1.05 DEFINITIONS

- A. Surface Settlement Monitoring Point: Inscribed marking, approved surveyor's nail, rebar driven flush with surface, or brass cap installed at predetermined location to measure vertical (elevation) and horizontal (coordinate) locations of ground surface or structural element.
- B. Surface Settlement Monitoring Stations: A group of Surface Settlement Monitoring Points (one at centerline, two offset from centerline) located at a specific station along the pipeline alignment.

### **PART 2 - PRODUCTS (NOT USED)**

### **PART 3 - EXECUTION**

#### 3.01 GENERAL

- A. Install Surface Settlement and monitoring Points at locations shown on the approved monitoring plan.
  - 1. Develop Monitoring plan in accordance with location requirements shown on Plans and as specified.
- B. To avoid being damaged by construction operations or the general public, clearly mark and protect all parts.
- C. For work within Albany right of way, comply with Albany requirements including traffic control and restricted hours of access
- D. Prior to removal of any monitoring points, request and obtain written approval from the Construction Manager.
- E. Surveying shall be performed by an Oregon-Licensed Land Surveyor and vertical measurements shall be within a tolerance of 0.001 feet.

#### 3.02 SURFACE SETTLEMENT MONITORING LOCATIONS

- A. Establish Surface Settlement Monitoring Stations (SSMS) wherever shown on the Plans.
- B. Regardless of whether Surface Settlement Monitoring Stations are shown on the Plans, establish the following Surface Settlement Monitoring as a minimum.

1. In areas where railroad tracks are within 1.5 times the depth of excavation Surface Settlement Monitoring Stations shall be located a maximum of every 100 feet on the railroad tracks unless otherwise indicated.
2. Locate Surface Settlement Monitoring Stations on any buildings or structures within 1.5 times the depth of excavation.

### 3.03 MONITORING SCHEDULE

- A. Perform a baseline survey of all Surface Monitoring Points at least one week prior to any excavation or construction within 100 feet of the monitoring locations.
- B. Survey Surface Monitoring Points daily during any active construction (sheet pile driving, excavation, boring, microtunneling, pipe installation, backfilling, compaction, etc.) within 100 feet of the monitoring locations. Continue daily survey monitoring for 3 days after completion of active construction.
  1. Perform a final survey at least one month following completion of active construction.

### 3.04 ACTION REQUIREMENTS

- A. Provide survey reports for Surface Settlement Monitoring Points each week.
- B. In the event that Surface Settlement Monitoring Points show a deviation from the baseline survey of 0.50 inches (.04 feet), the Contractor shall stop work immediately, notify and meet with the Construction Manager to develop a plan for action before work can be resumed. The Construction Manager may require that the frequency of monitoring be increased.

**END OF SECTION**

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**SECTION 15116.6**  
**SWING CHECK VALVES**

**PART 1 - GENERAL**

1.01 SECTION INCLUDES

- A. Horizontal swing check valves.
  - 1. Weighted

1.02 REFERENCED SECTIONS

- A. The following Section is referenced in this Section
  - 1. Section 01330 – Submittals
  - 2. Section 01782 – Operation and Maintenance Information
  - 3. Section 09960 – High Performance Coatings

1.03 DESIGN

- A. Unless otherwise specified, design valves to conform to the minimum pressure ratings listed below:

Size, inches	Working Pressure, psig
2 through 12	200
14 through 24	150

- B. Outside Lever and Weight: Mount on each side of the valve body.

1.04 SUBMITTALS

- A. Comply with Section 01330 and include the following:
  - 1. Manufacturer’s catalog information including dimensions, cross-sectional views, details of construction and materials list.
  - 2. Design Data: Submit test reports certifying that manufacturer has performed adequate testing prior to shipment on site.
  - 3. Operation and Maintenance Data: Submit data in accordance with Section 01782.

**PART 2 - PRODUCTS**

2.01 GENERAL

- A. Provide weighted lever arm check valve.
- B. Comply with AWWA C508, unless otherwise indicated.
- C. Clear opening per AWWA C508 (can pass a solid the same diameter as the valve)

D. ANSI Class 125-pound flange, unless otherwise indicated.

## 2.02 MANUFACTURERS

A. Non-weighted, weighted, spring loaded

1. One of the following or equal:
  - a. Golden Anderson Fig. 230
  - b. APCO Series 6000 CVS.

## 2.03 MATERIALS

A. Non-weighted, weighted and spring loaded

1. Body, Cover: Cast iron, ASTM A126, Class B
2. Disc: Cast iron, ASTM A126, Class B; or ductile iron, ASTM A536
3. Seat Rings: Bronze, AWWA C508
4. Hinge Shafts and Hinge Pins: Stainless steel, ASTM 276, Type 304. Optional material for oil-cushioned valves include stainless steel, ASTM A582, Type 303.
5. Shaft Bushings: Bronze, AWWA C508

B. Coatings and linings

1. Coat interior ferrous surfaces in water passages with epoxy per AWWA C550.
2. Coat interior surfaces with a minimum dry fil thickness: 8 mil
3. Coat exterior ferrous surfaces with 100% epoxy per Section 09960

## 2.04 COMPONENTS

A. Weights

1. Provide an adjustable outside lever and weight to force the disc to close upon reversal of flow.
2. Configure to permit mounting lever and weight on either side of the valve body.

B. Seats

1. Thread onto the body or fit with an O-ring seal.
2. Lock in place with stainless steel screws or pins.
3. Design to be replaceable.

C. Shafts

1. Provide with stuffing box and packing or O-ring seals at each end.
2. Design packing or seals to be externally replaceable.

**PART 3 - EXECUTION**

3.01 INSTALLATION

- A. Install as recommended by manufacturer.

**END OF SECTION**



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