

AMENDMENT NO 2  
CONTRACT NO. 36297

FOR

**Design of Mt. Tabor Interim Security and Deferred Maintenance Improvements**

Pursuant to Ordinance No. 179633 and 179979

This Contract was made and entered into on the 14th day of October 2006, by and between Black & Veatch Corporation, hereinafter called Contractor, and the City of Portland, a municipal corporation of the State of Oregon, by and through its duly authorized representatives, hereinafter called City.

1. This contract is hereby extended through March 1, 2010.
2. Additional compensation is necessary and shall not exceed \$650,000. Additional compensation is required for additional geotechnical monitoring and video documentation of private property adjacent to the construction zone to mitigate risk; design for the relocation and replacement of aging sewer and realignment of 48-inch water main to minimize neighborhood and tree impacts during construction; security equipment commissioning, and final record drawings for the Mt. Tabor and Washington Park Interim Security and Deferred Maintenance Project.

All other terms and conditions shall remain unchanged and in full force and effect.

Black & Veatch Corporation

By: \_\_\_\_\_  
Date

\_\_\_\_\_  
(Name and Title)

Address: 4800 Meadows Road  
Suite 200  
Lake Oswego, OR 97035  
Telephone: (503) 699-7556

Approved as to Form:

CITY OF PORTLAND

\_\_\_\_\_  
City Attorney Date

By: \_\_\_\_\_  
Auditor Date

By: \_\_\_\_\_  
Mayor/Elected Official Date

**Mt. Tabor and Washington Park  
Interim Security and Deferred Maintenance**

**Amendment #2 – Contract 36297**

**Additions to Preliminary Design Services Scope, Mt Tabor & Washington Park: Add the following Tasks:**

**Additional Documentation for the Land Use Review (LUR) Packages:** B&V/HDR were requested to provide additional exhibits, drawings and text for the LUR process for Mt. Tabor and Washington Park applications, beyond that anticipated in the original scope. These were required in order to provide better detail on the proposed improvements for Landmarks Commission review.

**Additions to Design Services Scope, Mt Tabor & Washington Park:  
Add the following Tasks:**

**Redesign of Water Transmission Mains 60th Ave. – Hawthorne – 59<sup>th</sup> – Lincoln to accommodate the BES sewer replacement project:** The original design was developed on the assumption that existing sewers would remain in place. BES has determined that the sewers in these streets will be replaced as part of the Mt. Tabor project. The proposed sewers are larger than existing, in some cases deeper, and generally realigned in the roadway. This change necessitates significant changes in the alignment of the water transmission mains of the existing design, which was already at 95% completion when these changes were made. This Task provides for the effort to redesign and change locations of these water pipelines to avoid conflicts with the sewers.

**Specifications for Metal-Seated Valves:** The original scope of services was developed on the assumption that all main valves would be AWWA C504 valves. Because of unexpected high velocities in several valves PWB has directed B&V to change these to metal-seated triple-offset valves. This Task provides for the effort to prepare specifications for these valves.

**Redesign at Gatehouse 5:** BDS initial reviews indicated that changes would be needed to meet City code. This Task is to redesign the entrance and handrails at Gatehouse 5 and to re-issue the affected drawings.

**Land Use Review (LUR) - Washington Park:** Landmarks Commission as part of the LUR permitting process has required additional research and documentation of alternative concrete repair procedures and alternative handrails and fencing material effecting features in the historic district. This review has resulted in the direction to redesign and to re-issue the affected drawings for the repair to the Grand Staircase, East Staircase and some other issues. The exact scope is undefined at this time, but a budgetary allowance is provided.

**Electrical Design Change – Generator System:** As a value engineering measure, to reduce project cost, the PWB has decided to delete the generator building at Reservoir 6 and instead to provide a manual transfer switch and connection for a portable generator. This scope is to provide design services for this change in electrical wiring and physical facilities.

**Additions to CM/GC Services Scope: Add the following Tasks:**

**Additional Partnering Workshop:** This provides for one partnering workshop beyond the original Scope, to be held early in the construction phase. The Scope provides for a qualified facilitator, plus attendance by key B&V/HDR team members.

**Additions to Construction Services Scope - Task 0500**

**Vibration Monitoring – Mt. Tabor:** This Task is to allow for continuous vibration monitoring during construction of the sewer and pipeline improvements in 59<sup>th</sup> Ave, Hawthorne and Lincoln St, on a time and materials basis, with a budget of \$70,000 for Earth Dynamics, plus B&V oversight and handling fees.

**Video Documentation – Mt. Tabor:** This Task is to allow for video documentation of the condition of selected residences in the vicinity of the sewer and pipeline improvements in 59<sup>th</sup> Ave, Hawthorne and Lincoln St, on a time and materials basis, with a budget of \$28,000 for Curtis & Jeidy, plus B&V oversight and handling fees.

**Labor Escalation:** The Original Construction Services budget is adjusted to allow for labor cost escalation, based on project completion approximately 2 years later than the original timeframe anticipated in the Request for Proposals.

**Project Record Drawings:** This Task is to provide drafting services and production of Project Record Drawings, for Mt. Tabor and Washington Park improvements, based on the CM/GC's as-built drawing markups submitted to the PWB. This Task will be on a time and materials basis with a budget allowance of \$50,000.

**Washington Park – Security Systems Commissioning:** Consultant shall provide 80 hours field services to assist the BWW and CM/GC in commissioning the security facilities. (Commissioning for Tabor is in the existing Scope).

**Washington Park - Reservoir Isolation Operational Guidelines:** The Consultant will work with BWW staff to develop Reservoir Isolation Operational Guidelines for Washington Park (Guidelines for Tabor are in the existing Scope). These guidelines will incorporate O&M manuals for the valve actuators, supplied by the CM/GC. The Operational Guidelines will cover the following general topics:

- Confirming decision to isolate one or more reservoirs;

- Items to check before remotely actuating valves;

- Valve opening and closing sequence for each of several operating scenarios (isolate one reservoir, two particular reservoirs, etc.);

- Instruments to monitor while valves are opening and closing – warning signs to be aware of;

- Corrective actions if pressure transients or other unexpected problems emerge;

- Follow-up monitoring and observations after new valve-line up is complete

#### **Additional Task 0600 – BES Sewer**

This Task is to provide design drafting and production of plan and profile sheets for the 59<sup>th</sup> Ave, Hawthorne, Lincoln St, and 60<sup>th</sup> Ave. sewer replacements. This work does not include sealing drawings or specifications; the responsibility for the technical design and calculations is with City of Portland BES.

#### **Construction Value Engineering**

This budget is for additional Tasks that may be authorized at PWB discretion. If requested, Consultant shall submit a scope and fee proposal for each Task requested and shall not proceed until receipt of PWB's written approval.