Washington State Department of Health

CONTRACT AMENDMENT

1. NAME OF CONTRACTOR City of Olympia	2. CONTRACT NUMBER **DOH Contract #DWL23455**
1a. ADDRESS OF CONTRACTOR (STREET) P.O. Box 1967 Attn: Supervising Engineer: Tim Richardson	2a. AMENDMENT NUMBER
1b. CITY, STATE, ZIP CODE Olympia, WA 98507-4511	**3**

3. ☒ **THIS ITEM APPLIES ONLY TO BILATERAL AMENDMENTS.**
The Contract identified herein, including any previous amendments thereto, is hereby amended as set forth in Item 5 below by mutual consent of all parties hereto.

4. ☐ **THIS ITEM APPLIES ONLY TO UNILATERAL AMENDMENTS.**
The Contract identified herein, including any previous amendments thereto, is hereby unilaterally amended as set forth in Item 5 below pursuant to that changes and modifications clause as contained therein.

5. **DESCRIPTION OF AMENDMENT:** The purpose of this amendment is to provide additional funding in the amount of $467,000 to cover higher than originally bid construction costs. This additional funding is necessary to complete the project.

5a. **Consideration:** This amendment increases the **Contract Consideration** by **$467,000.00**; therefore, the revised maximum consideration of this contract and all amendments shall not exceed **$1,986,670.00** (including loan fee)**.**

Source of Funds for this Amendment: Federal and or State, **Total** $467,000.00

5b. **Period of Performance:** remains unchanged through 10/01/2038**.**

5c. **The Effective Date of this Amendment:** is the **Date of Execution.**

There are no changes to this project SOW related to this amendment.

6. All other terms and conditions of the original contract and any subsequent amendments thereto remain in full force and effect.

7. ☐ This is a unilateral amendment. Signature of contractor is not required below.
☒ Contractor hereby acknowledges and accepts the terms and conditions of this amendment. Signature is required below.

8. CONTRACTOR SIGNATURE **(also, please print/type your name)** _____ Steven J. Burney, City Manager	DATE
Approved as to Form: Mark Barber Mark Barber, City Attorney	
9. DOH CONTRACTING OFFICER SIGNATURE	DATE

This document has been approved as to form only by the Assistant Attorney General.

Statement of Work
DOH Contract DWL23455-3

Project Description:

The Fir Street Reservoirs No. 1 and No. 2 are located at the NW corner of Fir Street and 7th Avenue in the City of Olympia's in the 226 Pressure Zone. These concrete reservoirs are similar in construction and were constructed nearly side-by-side in the 1930s. Each reservoir provides a capacity of 2.5MG (Million Gallons). Both reservoirs received major renovations in 1975 and earthquake repairs in 2003. The repair work performed in in 2003 addressed damage caused by the 2001 Nisqually earthquake. Originally the reservoirs were constructed of cast in place concrete slabs on grade, lined with brick parapet. The 1975 renovations consisted of structural upgrades to the bottom and sloped sides of both tanks, as well as removal of the brick parapet. Additionally, precast concrete columns were added to support a new 4-inch thick post-tensioned concrete roof over precast-prestressed concrete double-tee beams. New perimeter walls and footings were also added on all four sides of each tank. Geomembrane slab liners were also anchored to the base and perimeter walls of each tank. Finally, a berm over the existing grade around the new perimeter walls was constructed to match the top of the roof slab.

A structural engineer performed thorough seismic evaluations in 2001 and 2011, using current codes and standards based on the USGS National Seismic Hazard Mapping Project, to assess the condition of the reservoirs and recommend seismic upgrades. Based on the inspection done in 2001 (after the Nisqually earthquake), and the subsequent repairs in 2003, the reservoirs were deemed to be structurally sound in resisting gravity loads but had deficiencies in resisting seismic forces. Recommendations for seismic upgrades included adding new seismic cables and roof chord reinforcing steel in perimeter walls on all four sides of each reservoir. These modifications are proposed to be constructed on the outside face of the perimeter walls to enhance accessibility and minimize disruption of materials inside the tanks. This work can be done without a disruption in service.

A collar will be added at the top of each column to repair cracking and spalling of concrete and eliminate bearing induced cracking. The lower portion of the columns are in good condition; however, these sections are to be wrapped in Glass Fiber Reinforced Plastic (GFRP) for damage protection. These column modifications will be performed in the winter during low water demands; this work will require draining each reservoir. Only one reservoir will be taken off-line at any given time to ensure continuity of service. The City will develop a contingency plan to deal with any unusual water demands during construction of these seismic upgrades.
The City will hire an engineering consultant to review the previous seismic upgrade recommendations and design the final seismic upgrades based on the most current seismic codes and methods.

Scope of Work: (no change)

Project to include seismic upgrades and repairs/improvements to reservoir components at the existing 2.5 MG Fir Street Reservoirs No. 1 and No. 2, located at the NW corner of Fir Street and 7th Avenue in the City of Olympia's in the 226 Pressure Zone. Improvements will include:

- Installation of stainless steel brackets to improve the wall/roof connection to meet current seismic standards.
- A collar will be added at the top of each column to repair cracking and spalling of concrete and eliminate bearing induced cracking.
- Repair of spalling concrete in the reservoirs.
- Replacement of geomembrane liners in the reservoirs that are leaking and have reached the end of their useful life.
- Installation of new access hatches in each reservoir to facilitate construction.
- Filling of voids under the reservoir with grout.
- Lining of the existing drain and outlet pipes under the reservoir.
- Replacement of corroded wash water piping and outlet and drain grates and funnels.
- Adjustment of water level gauges in the reservoir.
- Replacement of the existing reservoir vents with vents that meet current standards.

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- Replace pipes and valving within the McCormick valve house where the outlet piping from the Fir Street Reservoirs resides. Install new grating platform to improve access.
- Replace existing flowmeters with new flowmeters in the McCormick Valve House.
- Install a new pressure reducing valve vault to facilitate taking the reservoirs out of service.

In addition to costs of construction, costs may include (but are not limited to): engineering, design, construction inspection, geotechnical and soils work, cultural and environmental review, permits, public involvement, preparation of bid documents, fees, taxes, legal, administrative, and audit.

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2016-024 City of Olympia
Fir Street Reservoirs No. 1 & No. 2 Seismic Upgrades

Project Costs by Cost Category:

COST CATEGORY	CURRENT ESTIMATES
Engineering Report (Preliminary Engineering):	**$26,800**
Environmental Review:	**$5,000**
Historical Review/Cultural Review:	**$5,000**
Land/ROW Acquisition:	**$**
Permits:	**$5,000**
Public Involvement/Information:	**$10,000**
Bid Documents (Design Engineering):	**$368,000**
Construction: Estimated Cost. Provide details on following pages.	**$1,367,000**
DOH Review/Approval Fees:	**$6,000**
Contingency: (10% min, 20% max):	**$90,000**
Other: (Sales or Use Taxes):	**$79,200**
Construction Engineering/Inspection:	**$**
Insurance:	**$**
Audit:	**$5,000**
Legal:	**$**
Service Meters:	**$**
Other:	**$**
Other:	**$**
Other:	$
TOTAL ESTIMATED PROJECT COSTS (before Loan Fee)	**$1,967,000**
Loan Fee (1% of the DWSRF Loan Request)	**$19,670**

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2016-024 City of Olympia
Fir Street Reservoirs No. 1 & No. 2 Seismic Upgrades

Construction Bid Items Checklist:

COMPONENT	INDICATE IF NEW CONSTRUCTION OR REPLACEMENT OF EXISTING COMPONENT (NEW / REPLACE / N/A)	QUANTITY	APPROXIMATE SIZE OR CAPACITY
EXAMPLE:			
Transmission main	*NEW*	*5,000 lf*	*8"*
Transmission main			
Distribution main			
Intertie			
Other piping	Piping and valving upgrades at McCormick Valve House	1	
Booster pump			
Well			
Surface Water Intake			
Treatment or filtration			
Disinfection			
Generator			
Electrical (in ground)			
Service meters			
Mobilization			
Grading/Site Prep			
Source Meters			
Telemetry			
Reservoir			
Building			

Fencing			
Lighting			
Surface Restoration If not included in another item.			
Other: Seismic Upgrades to two 2.5 MG reservoirs		2	2.5 MG each
Other: Amendment 3	Higher than bid estimated Construction costs		
Other:			
Other:			
Other:			
Other:			
Other:			

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2016-024 City of Olympia
Fir Street Reservoirs No. 1 & No. 2 Seismic Upgrades

Project Funding:

TYPE OF FUNDING	SOURCE	CURRENT STATUS
Grants and Other Non-Matching Funds		
Grant #1		$
Grant #2		$
Other Grants		$
New Grants		$
	Total Grants and Other Non-Matching Funds	**$**
Loans		
This Loan Request	*DWSRF with 1% Loan Fee*	$1,986,670
Other Loan #1		$
Other Loan #2		$
Other Loans		$
New Loans		$
	Total Loans	**$**
Local Revenue		
Source #1		$
Source #2		$
Other Local Revenue		$
New Local Revenue		$
	Total Local Revenue	**$**
Other Funds		
Other Funds		$
Other Funds		$
	Total Other Funds	**$**
TOTAL PROJECT FUNDING		**$1,986,670**

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2016-024 City of Olympia
Fir Street Reservoirs No. 1 & No. 2 Seismic Upgrades

Engineer's Certification:

The term of this loan will be based on an engineer's certification of the expected useful life of the improvements, as stated below, or 24 years, whichever is less. If the jurisdiction prefers the term of its loan to be less than either 24 years or the useful life of the improvements, the preferred loan term should be indicated here: **____** years.

I, _____, licensed engineer, certify that the average expected useful life for the improvements described above is **____** years.

Signed: _____

Name: _____

Date: _____

Telephone: _____

Professional Engineer License Number: _____