



AGENDA Division 7 Reservoir Replacement  
 BILL Project  
 Item 6.A Public Works Contract Award

DATE SUBMITTED:	March 5, 2024	MEETING DATE:	March 13, 2024
TO: BOARD OF COMMISSIONERS	FROM: Greg Nicoll, District Engineer/Eng. Mgr.		
GENERAL MANAGER APPROVAL			
ATTACHED DOCUMENTS	1. Bid Tabulation		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input checked="" type="checkbox"/>	INFORMATIONAL /OTHER <input type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

In 2016, the District contracted with BHC Consultants to complete a seismic vulnerability assessment of the District's five welded steel reservoirs. That assessment identified significant deficiencies in the ability of the 1,000,000-gallon Division 7 reservoir to meet existing earthquake code requirements. The District subsequently applied for a Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant (HMG) to replace the reservoir.

In 2021, the FEMA HMG, funding both design and construction, was awarded and the District contracted with Wilson Engineering to complete the design. Based on a previous evaluation of the reservoir during the 2016 Water System Plan, it was determined that the existing 1,000,000-gallon reservoir was substantially oversized. Sizing calculations completed during preliminary design confirmed that the service area could be served with substantially less storage. The preferred alternative for reservoir replacement was construction of two 32-foot diameter, 46-foot-tall concrete reservoirs with a combined volume of 476,000 gallons. The new reservoirs will be constructed on an undeveloped, forested ridge immediately upslope of the existing reservoir and the existing reservoir will remain in service until the two new reservoirs are complete. Once the new reservoirs are in service, the existing reservoir will be demolished and the site restored.

The District published an advertisement for bids (District Project No. C2111) in the Bellingham Herald on January 10, 2024. Bids were due on February 27, 2024. As summarized in the attached bid tabulation, nine (9) bids were received. Bids, including the bid alternate and excluding Washington State sales tax, ranged from \$2,324,115 to \$3,076,883. The lowest responsive bid was provided by Tiger Construction of Bellingham, Washington.

District staff and Wilson Engineering have completed a review of the mandatory and supplemental bidder criteria and contacted references provided by Tiger Construction and have determined that Tiger Construction meets all responsibility criteria.

Start of active on-site construction is anticipated to begin at the start of the 2024 Lake Whatcom Watershed work window, which opens on June 1, 2024, with project completion anticipated by the end of the 2025 work window on September 30, 2025.

**FISCAL IMPACT**

This project is funded by a Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant (HMG); a low interest loan from Public Works Board; a federal earmark that is awaiting ratification by the United States Congress; and District funds included in the 2023-24 capital budget. A breakdown of the construction costs and associated funding is summarized below.

Construction Costs	
Task (Agency)	Cost
Bidding Services (Wilson)	\$ 11,032.00
Construction Administration (Wilson)	\$ 99,901.00
Construction (Tiger Construction)	\$ 2,523,988.89
<b>TOTAL - CONSTRUCTION</b>	<b>\$ 2,634,921.89</b>

  

Funding	
Agency	Construction
FEMA	\$ 1,373,284.50
WA-EMD	\$ 228,880.75
LWWSD	\$ 228,880.75
Federal Earmark	\$ 220,000.00
PWB Loan	\$ 800,000.00
<b>TOTAL - FUNDING</b>	<b>\$ 2,851,046.00</b>

  

Balance	\$ 216,124.11
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**APPLICABLE EFFECTIVE UTILITY MANAGEMENT ATTRIBUTE(S)**

Infrastructure Strategy and Performance  
Enterprise Resiliency

**RECOMMENDED BOARD ACTION**

Staff recommends award the contract to the selected responsible, responsive bidder.

**PROPOSED MOTION**

Recommended motion is:

“I move to award the Division 7 Reservoir Replacement Project public works contract to Tiger Construction for a total contract price of \$2,523,988.89, including 8.6% sales tax, and authorize the general manager to execute the contract.”

LAKE WHATCOM WATER & SEWER DISTRICT  
 1220 LAKEWAY DRIVE  
 BELLINGHAM, WA 982298  
 (360) 734-9224



**BID TABULATION**

PROJECT NAME	PROJECT #	BID OPENING DATE/TIME	PAGE # OF #	LOCATION
DIVISION 7 RESERVOIR REPLACEMENT PROJECT	C2111	2/27/2024 2:05 PM		LAKE WHATCOM WATER & SEWER DISTRICT BOARD ROOM (BROADCAST VIA GOTO MEETING)

NAME OF FIRM	ENGINEER'S ESTIMATE	BOSS CONSTRUCTION, INC.	COLACURCIO BROTHERS, INC.	INTERWEST CONSTRUCTION, INC.	BAYSHORE CONSTRUCTION COMPANY LLC	SRV CONSTRUCTION INC.	FABER CONSTRUCTION CORPORATION	TIGER CONSTRUCTION LTD.	SCOCON LLC	STRIDER CONSTRUCTION CO., INC.
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Item	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount		
BASE BID																							
1	Mobilization / Demobilization	1	LS	\$ 204,241.00	\$ 204,241.00	NA	\$ 11,668.00	NA	\$ 263,000.00	NA	\$ 200,000.00	NA	\$ 280,000.00	NA	\$ 128,000.00	NA	\$ 215,981.00	NA	\$ 90,000.00	NA	\$ 83,000.00	NA	\$ 298,000.00
2	Trench Safety Excavation Provisions	1	LS	\$ 4,000.00	\$ 4,000.00	NA	\$ 2,200.00	NA	\$ 2,500.00	NA	\$ 7,500.00	NA	\$ 9,000.00	NA	\$ 500.00	NA	\$ 6,435.00	NA	\$ 500.00	NA	\$ 500.00	NA	\$ 2,800.00
If the project contains any work which requires trenching exceeding a depth of four feet, all costs for trench safety shall be included in the Trench Safety Excavation Provisions lump sum unit price above for adequate trench safety systems in compliance with Chapter 39.04 RCW, 49.17 RCW and WAC 296-155-650. Bidder must include a lump sum dollar amount in blank above (even if the value is \$0.00) to be responsive.																							
3	Temporary Traffic Control	1	LS	\$ 2,000.00	\$ 2,000.00	NA	\$ 3,523.00	NA	\$ 7,000.00	NA	\$ 7,200.00	NA	\$ 15,000.00	NA	\$ 4,000.00	NA	\$ 20,076.00	NA	\$ 500.00	NA	\$ 6,500.00	NA	\$ 8,000.00
4	Temporary Erosion and Sediment Control	1	LS	\$ 12,059.00	\$ 12,059.00	NA	\$ 24,063.00	NA	\$ 25,000.00	NA	\$ 22,000.00	NA	\$ 9,000.00	NA	\$ 7,350.00	NA	\$ 15,887.00	NA	\$ 24,800.00	NA	\$ 22,500.00	NA	\$ 22,000.00
5	Clearing and Grubbing	1	LS	\$ 15,000.00	\$ 15,000.00	NA	\$ 302,434.00	NA	\$ 70,000.00	NA	\$ 12,200.00	NA	\$ 30,000.00	NA	\$ 21,000.00	NA	\$ 10,594.00	NA	\$ 2,000.00	NA	\$ 6,500.00	NA	\$ 5,000.00
6	Brush and Log Management	1	LS	\$ 20,000.00	\$ 20,000.00	NA	\$ 13,288.00	NA	\$ 8,000.00	NA	\$ 17,750.00	NA	\$ 10,000.00	NA	\$ 26,000.00	NA	\$ 11,980.00	NA	\$ 28,100.00	NA	\$ 15,000.00	NA	\$ 36,000.00
7	Native Topsoil Salvage, including Stockpiling	1	LS	\$ 11,820.00	\$ 11,820.00	NA	\$ 12,826.00	NA	\$ 8,500.00	NA	\$ 14,400.00	NA	\$ 66,000.00	NA	\$ 7,000.00	NA	\$ 5,629.00	NA	\$ 5,230.00	NA	\$ 12,000.00	NA	\$ 11,000.00
8	Site Earthwork	1	LS	\$ 107,560.00	\$ 107,560.00	NA	\$ 55,168.00	NA	\$ 180,000.00	NA	\$ 107,500.00	NA	\$ 80,000.00	NA	\$ 71,000.00	NA	\$ 45,021.00	NA	\$ 161,000.00	NA	\$ 85,000.00	NA	\$ 201,000.00
9	Concrete Water Reservoirs, Foundations, and All Appurtenances	1	LS	\$ 894,700.00	\$ 894,700.00	NA	\$ 1,049,997.00	NA	\$ 1,172,000.00	NA	\$ 1,045,000.00	NA	\$ 978,500.00	NA	\$ 1,181,000.00	NA	\$ 1,132,526.00	NA	\$ 960,000.00	NA	\$ 1,120,000.00	NA	\$ 1,157,803.00
10	Site Piping	1	LS	\$ 218,720.00	\$ 218,720.00	NA	\$ 329,342.00	NA	\$ 300,000.00	NA	\$ 283,300.00	NA	\$ 600,000.00	NA	\$ 393,000.00	NA	\$ 260,627.00	NA	\$ 362,000.00	NA	\$ 330,000.00	NA	\$ 442,000.00
11	Outlet Valve Vault, Standard	1	LS	\$ 32,000.00	\$ 32,000.00	NA	\$ 37,351.00	NA	\$ 40,000.00	NA	\$ 42,300.00	NA	\$ 48,000.00	NA	\$ 34,850.00	NA	\$ 38,503.00	NA	\$ 34,100.00	NA	\$ 50,000.00	NA	\$ 40,000.00
12	Outlet Valve Vault w/ Seismic Valve and Actuator	1	LS	\$ 49,000.00	\$ 49,000.00	NA	\$ 86,543.00	NA	\$ 55,000.00	NA	\$ 55,000.00	NA	\$ 63,000.00	NA	\$ 49,500.00	NA	\$ 51,925.00	NA	\$ 46,600.00	NA	\$ 65,000.00	NA	\$ 54,000.00
13	Flow Meter Vault	1	LS	\$ 27,000.00	\$ 27,000.00	NA	\$ 50,206.00	NA	\$ 56,000.00	NA	\$ 53,000.00	NA	\$ 59,000.00	NA	\$ 37,000.00	NA	\$ 51,328.00	NA	\$ 45,000.00	NA	\$ 64,000.00	NA	\$ 56,000.00
14	Electrical, Telemetry & Instrumentation	1	LS	\$ 176,674.00	\$ 176,674.00	NA	\$ 194,700.00	NA	\$ 350,000.00	NA	\$ 255,000.00	NA	\$ 310,000.00	NA	\$ 238,000.00	NA	\$ 260,221.00	NA	\$ 208,000.00	NA	\$ 212,000.00	NA	\$ 238,000.00
15	Steel Reservoir Demolition	1	LS	\$ 212,500.00	\$ 212,500.00	NA	\$ 61,364.00	NA	\$ 75,000.00	NA	\$ 112,000.00	NA	\$ 70,000.00	NA	\$ 113,000.00	NA	\$ 83,512.00	NA	\$ 45,100.00	NA	\$ 79,000.00	NA	\$ 75,000.00
16	Site and Surface Restoration	1	LS	\$ 89,155.00	\$ 89,155.00	NA	\$ 151,452.00	NA	\$ 85,000.00	NA	\$ 127,000.00	NA	\$ 140,000.00	NA	\$ 84,000.00	NA	\$ 105,647.00	NA	\$ 114,000.00	NA	\$ 65,000.00	NA	\$ 117,000.00
17	Project Mitigation Site Preparation and Planting	1	LS	\$ 30,720.00	\$ 30,720.00	NA	\$ 52,752.00	NA	\$ 110,000.00	NA	\$ 106,000.00	NA	\$ 8,200.00	NA	\$ 119,700.00	NA	\$ 41,420.00	NA	\$ 41,900.00	NA	\$ 35,000.00	NA	\$ 121,000.00
18	Miscellaneous Owner Directed Work	1	LS	\$ 20,000.00	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00	NA	\$ 20,000.00
19	Construction Records	1	LS	\$ 2,000.00	\$ 2,000.00	NA	\$ 13,200.00	NA	\$ 5,000.00	NA	\$ 5,000.00	NA	\$ 4,000.00	NA	\$ 10,500.00	NA	\$ 5,965.00	NA	\$ 500.00	NA	\$ 1,000.00	NA	\$ 3,000.00
20	Unscheduled Rock Excavation requiring Special Equipment, including Stockpiling and/or Haul	760	CY	\$ 150.00	\$ 114,000.00	\$ 117.67	\$ 89,429.20	\$ 90.00	\$ 68,400.00	\$ 50.00	\$ 38,000.00	\$ 100.00	\$ 76,000.00	\$ 98.50	\$ 74,860.00	\$ 93.00	\$ 70,680.00	\$ 75.50	\$ 57,380.00	\$ 82.00	\$ 62,320.00	\$ 98.00	\$ 74,480.00
21	Unscheduled Unsuitable Foundation Over-Excavation	20	CY	\$ 50.00	\$ 1,000.00	\$ 91.74	\$ 1,834.80	\$ 90.00	\$ 1,800.00	\$ 65.00	\$ 1,300.00	\$ 12.00	\$ 240.00	\$ 64.00	\$ 1,280.00	\$ 70.00	\$ 1,400.00	\$ 81.50	\$ 1,630.00	\$ 62.00	\$ 1,240.00	\$ 85.00	\$ 1,700.00
22	Unscheduled Additional Crushed Surfacing Base Course	50	TON	\$ 50.00	\$ 2,500.00	\$ 72.69	\$ 3,634.50	\$ 90.00	\$ 4,500.00	\$ 75.00	\$ 3,750.00	\$ 75.00	\$ 3,750.00	\$ 60.00	\$ 3,000.00	\$ 46.00	\$ 2,300.00	\$ 45.50	\$ 2,275.00	\$ 79.00	\$ 3,950.00	\$ 92.00	\$ 4,600.00
Total Base Bid (Sum of Bid Items 1 -22) (does not include Washington State Sales Tax)					\$ 2,246,649.00		\$ 2,566,975.50		\$ 2,906,700.00		\$ 2,535,200.00		\$ 2,879,690.00		\$ 2,624,540.00		\$ 2,457,657.00		\$ 2,250,615.00		\$ 2,339,510.00		\$ 2,988,383.00

BID ALTERNATE																							
A1	Build America, Buy America Act (BABAA) Compliance (Section 01 02 50 Scopes of Bids)	1	LS	\$ 112,332.00	\$ 112,332.00	NA	\$ 73,712.00	NA	\$ 73,000.00	NA	\$ 75,000.00	NA	\$ 99,000.00	NA	\$ 86,500.00	NA	\$ 80,052.00	NA	\$ 73,500.00	NA	\$ 100,000.00	NA	\$ 88,500.00
Total Bid Alternate (Bid Item A1) (does not include Washington State Sales Tax)					\$ 112,332.00		\$ 73,712.00		\$ 73,000.00		\$ 75,000.00		\$ 99,000.00		\$ 86,500.00		\$ 80,052.00		\$ 73,500.00		\$ 100,000.00		\$ 88,500.00

BID GUARANTEE FOR PROJECTS OVER \$35,000? (YES OR NO)	N/A	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ADDENDUM ACKNOWLEDGED? (YES OR NO)	N/A	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
BID FORM SIGNED (YES OR NO)	N/A	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Note: Highlighted cell(s) indicate math error, discrepancy with Bid Proposal Form.