

**MEMORANDUM**

**TO:** Board of Trustees

**THROUGH:** Brad Underwood, Director of Public Works

**FROM:** Kate Nelson, Engineering Manager

**SUBJECT:** Accept the FY22 Tahoe Water for Fire Suppression Partnership Grant in the amount of \$204,528.00; appropriate FY22 Tahoe Water for Fire Suppression Partnership Grant funds in the amount of \$204,528.00 as a revenue source to support the Watermain Replacement - Crystal Peak Road Project (CIP#2299WS1705); award the Construction Contract to Burdick Excavation in the amount of \$1,111,111.00; authorize Staff to execute change orders for additional work not anticipated at this time of approximately 10% of the construction contract value; amount not to exceed \$111,000; approve construction phase contract for Shaw Engineering in the amount not to exceed \$9,600.00; approve a materials testing contract for Construction Materials Engineers Inc. (CME) in the amount of \$18,800; and authorize Chair and Secretary to execute contracts with Burdick Excavation, Shaw Engineering, and CME. (Requesting Staff Member: Director of Public Works Brad Underwood)

**RELATED STRATEGIC PLAN INITIATIVE(S):**

**LONG RANGE PRINCIPLE #5 – ASSETS AND INFRASTRUCTURE**

The District will practice perpetual asset renewal, replacement and improvement to provide safe and superior long term utility services and recreation venues, facilities, and services.

**RELATED DISTRICT POLICIES, PRACTICES, RESOLUTIONS OR ORDINANCES**

Board Policy 12.1.0 Multi-year Capital Planning, 13.1.0 Capital Project Budgeting, and 21.1.0 Purchasing Policy for Public Works Contracts.

**DATE:** March 8, 2023

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**I. RECOMMENDATION**

That the Board of Trustees made a motion to:



- Accept the FY22 Tahoe Water for Fire Suppression Partnership Grant in the amount of \$204,528.00
- Appropriate FY22 Tahoe Water for Fire Suppression Partnership Grant funds in the amount of \$204,528.00 as a funding source to support the Watermain Replacement - Crystal Peak Road Project (CIP#2299WS1705)
- Award the Construction Contract to Burdick Excavation in the amount of \$1,111,111.00
- Authorize Staff to execute change orders for additional work not anticipated at this time of approximately 10% of the construction contract value; amount not to exceed \$111,000
- Approve a construction phase contract for Shaw Engineering in the amount not to exceed \$9,600.00
- Approve a materials testing contract for CME in the amount of \$18,800.00
- Authorize Chair and Secretary to execute contracts with Burdick Excavation, Shaw Engineering, and CME, based on a review by General Counsel and Staff.

## **II. BACKGROUND**

This project is a FY 2022-23 Capital Improvement Project, and is a continuation of the multi-year program to replace 1960's-era thin-wall steel watermains and other deficient watermains. This project will replace the watermain in Crystal Peak Road between Lakeshore Boulevard and Martis Peak Road.

An additional objective of this program is to coordinate closely with the North Lake Tahoe Fire Protection District to determine areas of low fire flow, which may indicate a need for increased capacity in that area. If increased capacity is needed, these waterlines are also eligible for grant funding through the Tahoe Water for Fire Suppression Partnership. Staff also continues to coordinate with the Washoe County Road Department to replace watermains prior to the County's repaving or rehabilitating the road surface. Staff is working with the Utility Masterplan consultant to re-evaluate the steel watermain replacement program to consider locations with frequent repairs and the continued increases in the Construction Cost Index (CCI).

## **III. BID RESULTS**

The District publicly advertised this project for bidding on December 30, 2022 with a bid submittal due date of February 9, 2023, a 6-week bid period. The District advertised the work as required by NRS 338 and posted all construction documents on PlanetBids. Vendors and contractors on PlanetBids can access all of the District's documents at no cost. The online portal also tracks questions, addenda to the documents, plan holders and interested vendors.

The District received and opened four (4) responsive bids. The Engineer's Estimate for the base project was \$1,200,000. The Engineer's Estimate did not



include a contingency. The bid results are attached as part of the Recommendation of Award provided by the design engineer (Attachment A).

#### **IV. FINANCIAL IMPACT AND BUDGET**

The Crystal Peak Watermain Replacement Project CIP2299WS1705 is included in the approved FY 2022-23 CIP Budget, with a total project budget of \$1,500,000 (Attachment B). The Crystal Peak Watermain Replacement project was submitted as a top tier IVGID priority project for grant funding under the Tahoe Water for Fire Suppression Partnership, and was awarded a grant in the amount of \$204,528 for construction (Attachment C). Approval of the recommendations contained in this agenda item would authorize acceptance of the grant funding, authorize a budget amendment to reflect the grant funding as a revenue source in support of this project, and authorize actions related to executing the project. There is no impact to the approved expenditure budget for the project.

The table below presents the estimated Construction Phase costs for the Crystal Peak Waterline project budget:

<b>Task</b>	<b>Cost</b>
Internal Project Management & Inspection	\$36,500
Construction by Burdick Excavation	\$1,111,111
Construction Materials Testing - CME	\$18,800
External Construction Phase Services - Shaw Engineering	\$9,600
Construction Contingency	\$111,000
<b>Total</b>	<b>\$1,287,011</b>

Construction contingency is listed at approximately 10% to account for unforeseen conditions during construction such as unknown ground conditions or existing utility conflicts as examples.

The contracts associated with the construction, construction administration services, and material testing are attached (Attachment D, E, F).

#### **V. ALTERNATIVES**

Not accept the grant award and not authorize the construction of the Crystal Peak Waterline Replacement.

#### **VI. COMMENTS**

No additional comments.

#### **VII. DISTRICT IMPROVEMENT, COST REDUCTION, RETURN ON INVESTMENT OR PRODUCTIVITY ENHANCEMENT**

Replacement of waterlines that have outlived their useful life reduce costs associated with repairs and is considered best management practice for utility purveyors. Replacing this waterline will effectively eliminate the need for the Public Works Pipeline Division to respond to leaks from aging infrastructure.

#### **VIII. BUSINESS IMPACT**

This item is not a "rule" within the meaning of Nevada Revised Statutes, Chapter 237, and does not require a Business Impact Statement.

#### **IX. ATTACHMENTS**

1. A\_IVGID Crystal Peak Recommendation of Award Letter\_WA-2023-032
2. B\_2299WS1705 - Watermain Replacement - Crystal Peak Road
3. C\_STPUD - Fire Suppression - Subaward Packet IVGID
4. D\_IVGID WA-2023-032 Project Manual - Conformed\_bbk
5. E\_Shaw Engineering 2022-02-22 PSA - Crystal Peak Waterlines, Construction Phase
6. F\_2022-02-22 PSA - Crystal Peak Waterlines Mat'ls Testing

#### **X. DECISION POINTS NEEDED FROM THE BOARD OF TRUSTEES**

1. Accept the FY22 Tahoe Water for Fire Suppression Partnership Grant in the amount of \$204,528.00
2. Appropriate FY22 Tahoe Water for Fire Suppression Partnership Grant funds in the amount of \$204,528.00 as a funding source to support the Watermain Replacement - Crystal Peak Road Project (CIP#2299WS1705)
3. Award the Construction Contract to Burdick Excavation in the amount of \$1,111,111.00
4. Authorize Staff to execute change orders for additional work not anticipated at this time of approximately 10% of the construction contract value; amount not to exceed \$111,000
5. Approve a construction phase contract for Shaw Engineering in the amount not to exceed \$9,600.00
6. Approve a materials testing contract for CME in the amount of \$18,800
7. Authorize Chair and Secretary to execute contracts with Burdick Excavation, Shaw Engineering, and CME, based on a review by General Counsel and Staff.





## ATTACHMENT A

February 14, 2023  
PWP No. WA-2023-032

Ms. Ronnie Rector  
Public Works Contracts Administrator  
Incline Village General Improvement District  
1220 Sweetwater Road  
Incline Village, NV 89451

**RE: Crystal Peak Distribution Watermain Improvements  
Recommendation of Award**

Dear Ms. Rector:

Incline Village General Improvement District has reviewed all four bids received on February 9, 2023 for the above referenced Project. A summary of the bids received is attached to this letter. No mathematical errors were found in any of the bids. Burdick Excavation (Burdick) is the apparent low bidder with a bid amount of \$1,111,111.00. Burdick has satisfactorily completed all the forms associated with the bid proposal package and is properly licensed in the State of Nevada. Burdick appears to have submitted a responsive and responsible bid.

Shaw Engineering therefore recommends the award of this project to Burdick for a total amount of \$1,111,111.00. This award should be contingent upon no formal protests being filed per Article 17 contained in the Information for Bidders which allows for a formal protest within 5 Days of this letter of recommendation.

If you have any questions or comments please feel free to call anytime.

Sincerely,  
**SHAW ENGINEERING**

*Nick O'Connor*

Nick O'Connor, P.E.  
Project Engineer

Attachments: Bid Tabulation  
Contractors Board Information

Cc: Hudson Klein, P.E. IVGID  
Kate Nelson, P.E., IVGID

20 Vine Street  
Reno, Nevada  
89503

Telephone:  
775  
329.5559

Facsimile:  
775  
329.5406

Email:  
mail@  
shawengineering  
.com



**Incline Village General Improvement District  
Crystal Peak Distribution Watermain Improvements  
Bid Tabulation**

2/9/23

Item No.	Description	Unit	Qty	Burdick Excavating		Gerhardt & Berry		FW Carson		Resource Development	
				Bid Unit Price	Bid Amount	Bid Unit Price	Bid Amount	Bid Unit Price	Bid Amount	Bid Unit Price	Bid Amount
1	Mobilization/Demobilization	LS	1	\$ 55,000.00	\$ 55,000.00	\$ 50,000.00	\$ 50,000.00	\$ 53,100.00	\$ 53,100.00	\$ 66,000.00	\$ 66,000.00
2	Temporary Traffic Control	LS	1	\$ 71,000.00	\$ 71,000.00	\$ 11,540.00	\$ 11,540.00	\$ 52,100.00	\$ 52,100.00	\$ 159,500.00	\$ 159,500.00
3	Environmental Protection	LS	1	\$ 6,500.00	\$ 6,500.00	\$ 65,165.00	\$ 65,165.00	\$ 29,400.00	\$ 29,400.00	\$ 27,500.00	\$ 27,500.00
4	WL Connection Assembly Sheet P1 Section A-A	LS	1	\$ 45,000.00	\$ 45,000.00	\$ 27,043.00	\$ 27,043.00	\$ 22,500.00	\$ 22,500.00	\$ 50,900.00	\$ 50,900.00
5	WL Connection Assembly Sheet P3 Station 32+15	LS	1	\$ 30,900.00	\$ 30,900.00	\$ 13,370.00	\$ 13,370.00	\$ 21,000.00	\$ 21,000.00	\$ 28,000.00	\$ 28,000.00
6	8" Water Line	LF	2280	\$ 159.00	\$ 362,520.00	\$ 193.00	\$ 440,040.00	\$ 198.00	\$ 451,440.00	\$ 267.50	\$ 609,900.00
7	8" Gate Valve	EA	6	\$ 6,550.00	\$ 39,300.00	\$ 4,685.00	\$ 28,110.00	\$ 5,600.00	\$ 33,600.00	\$ 4,250.00	\$ 25,500.00
8	Fire Hydrant Assembly	EA	3	\$ 18,100.00	\$ 54,300.00	\$ 18,995.00	\$ 56,985.00	\$ 15,900.00	\$ 47,700.00	\$ 24,700.00	\$ 74,100.00
9	Water Service Re-connects	EA	15	\$ 5,865.00	\$ 87,975.00	\$ 6,608.00	\$ 99,120.00	\$ 3,900.00	\$ 58,500.00	\$ 5,250.00	\$ 78,750.00
10	Abandon Existing Water Valve	EA	3	\$ 250.00	\$ 750.00	\$ 1,716.00	\$ 5,148.00	\$ 1,800.00	\$ 5,400.00	\$ 2,550.00	\$ 7,650.00
11	1" Combination Air Valve	EA	1	\$ 8,200.00	\$ 8,200.00	\$ 10,332.00	\$ 10,332.00	\$ 9,400.00	\$ 9,400.00	\$ 11,500.00	\$ 11,500.00
12	Bollards	EA	2	\$ 1,890.00	\$ 3,780.00	\$ 1,077.00	\$ 2,154.00	\$ 1,800.00	\$ 3,600.00	\$ 2,100.00	\$ 4,200.00
13	Cut and Cap Water Main or Cut and Plug Existing Pipe	EA	8	\$ 230.00	\$ 1,840.00	\$ 1,214.00	\$ 9,712.00	\$ 1,900.00	\$ 15,200.00	\$ 1,200.00	\$ 9,600.00
14	Roadway & Existing Facility Repair	LS	1	\$ 344,046.00	\$ 344,046.00	\$ 438,000.00	\$ 438,000.00	\$ 508,800.00	\$ 508,800.00	\$ 294,980.00	\$ 294,980.00
				<b>\$ 1,111,111.00</b>		<b>\$ 1,256,719.00</b>		<b>\$ 1,311,740.00</b>		<b>\$ 1,448,080.00</b>	