

# **AGENDA MEMO**

Needs Legal Review:

Yes

Council Meeting Date:

October 7, 2020

Agenda Item:

Jewett Water Main Improvements Project, Change Order No.5

Presented By:

Jan Brending, Clerk Treasurer and Pat Munyan, City Administrator

#### Action

Authorize approval of Change Order No. 5. Information will be added to the city's website on Monday, October 5.

#### **Motion**

Motion to authorize approval of Jewett Water Main Improvements Project Change Order No. 5 with an increase in contract price of \$137,185.05 from \$2,367,652.47 to \$2,504,837.52; changing Date of Substantial Completion from November 1, 2020 to November 26,2020; and changing Date Ready for Final Payment from December 1, 2020 to December 25, 2020.

### **Explanation of Issue**

See Attachment A of the change order for specifics related to the change order.

### **Staff Recommendation**

Staff recommends approval of Change Order No. 5 for the Jewett Water Main Improvements project.

## **CHANGE ORDER**

				Change O	rder No.:5		
Date of Is	suance:	10/2/2020					
Owner:		City of White Salmon, Washington					
Contracto	or:	Crestline Construction Company, LLC					
Engineer:		Anderson Perry & Associates, Inc.					
Project:		Jewett Water Main Improvements					
The Conti	ract is modifi	ied as follows upon execution of this Change Order:					
Description	on of Change			DECREASE	INCREASE		
		ption, Plans and Specifications attached, as applicable)		in Contract Price	in Contract Price		
5-1	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN	venue Water Main Improvements		\$0.00	\$54,575.00		
5-2	Rhine Villa	age Water Main Improvements		\$0.00	\$64,439.00		
5-3		Weather Conditions Caused by Wildfire Smoke		\$0.00	\$0.00		
5-4		•		,0.00	·		
3-4	ILVA IIIZIGI	llation in Bingen Master Meter Vault Sub	total	\$0.00	\$8,600.00 \$127,614.00		
		Total, Increase Less Decr	ease	\$127,6			
Sales Tax (7.5%)					\$9,571.05		
		Net Change in Contract Price for this Change C		\$137,1			
See Attac	hments A, B	, and C to Change Order No. 5.					
		ontract will be increased for this Change Order			• William William		
by the sum of:					\$137,185.05		
Total Con	tract Price p	rior to this Change Order:			\$2,367,652.47		
The Conti	ract Price inc	corporating this Change Order:			\$2,504,837.52		
Contract '	Times prior t	to this Change Order:					
Date of Substantial Completion:					November 1, 2020		
Date Re	eady for Fina	al Payment:			December 1, 2020		
The Conti	ract period p	provided for Substantial Completion will be increased.			25days		
Revised D	ate of Subst	antial Completion:			November 26, 2020		
Revised D	ate Ready fo	or Final Payment:			December 26, 2020		
В	y:	RECOMMENDED:  Omid Jepher PG  Inderson Perryle Associates, Inc.	Ву:	ACCEP			
Tial	_	An about the contract of the c	Title	•	•		
Dat	e:		Date:		21 ST 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	-5	ACCEPTED:	D	Approved b			
В	Cre	stline Construction Company, LLC	By:	USDA Rural D	evelopment		
Titl	e: ///	walsen	Title:				
	e: 10/						

# **ATTACHMENT A** CITY OF WHITE SALMON, WASHINGTON **JEWETT WATER MAIN IMPROVEMENTS** CHANGE ORDER NO. 5

#### 5.1 WAUNA AVENUE WATER MAIN IMPROVEMENTS

Description of Change: Installation of approximately 320 linear feet of new 8-inch water main in Wauna Avenue between the original proposed connection point just north of Jewett Boulevard and a connection to the existing 8-inch diameter main near the intersection of Tohomish Street and Wauna Avenue. The Work includes rock and general fill excavation, aggregate backfill, 2- and 8-inch pipe, connections to existing 2- and 8-inch pipe, surface restoration, and all other work needed for a complete water main installation. See Attachment C, Figure 1 for extent of the Wauna Avenue Water Main Improvements.

Justification: The original design included connecting the new 8-inch diameter water branch line from the new 12-inch diameter water main on Jewett Boulevard with the existing 4-inch diameter water main on Wauna Avenue north of Jewett Boulevard. However, when potholed, the existing main was discovered to be 2-inch diameter pipe instead of 4-inch diameter pipe. From further review of historical drawings, the 2-inch water pipe extends on Wauna Avenue approximately halfway between Jewett Boulevard and Tohomish Street and then transitions to 4-inch diameter pipe before connecting to an 8-inch diameter main near the intersection of Tohomish Street and Wauna Avenue. The combination of 2- and 4-inch diameter pipe in Wauna Avenue does not provide the hydraulic capacity needed or desired or adequate looping to serve a distribution main in the City's commercial area. A larger diameter pipe (i.e., minimum 8-inch diameter) should be installed to improve system hydraulics and looping in this part of the City's distribution system.

Cost/Time: Agreed upon unit prices and estimated quantities will be used as the basis for determining the cost of this work. Most of the work is covered by unit prices from the original bid. The cost for rock excavation was increased to better reflect the actual effort to remove rock in the downtown area. The 8-inch water main cost was increased to reflect higher material costs since the original bid submission. A new unit price, "Traffic Control/Flagging" was added to reflect the cost for this work. The estimated cost for this work is shown in spreadsheet format under Wauna Avenue Water Main Improvements in Attachment B. Total construction cost is estimated to be \$54,575.00. Eight days will be added to the Contract Time.

> CHANGE TO THE CONTRACT PRICE W/O SALES TAX: \$54,575.00 (Increase) **CHANGE TO THE CONTRACT TIME:**

#### RHINE VILLAGE WATER MAIN IMPROVEMENTS

Description of Change: Installation of approximately 425 linear feet of new 8-inch diameter water main to loop the existing 6-inch diameter water main with the existing water distribution system located on the north and east side of Skyline Hospital. The Work includes general excavation, aggregate backfill, 6- and 8-inch pipe, one fire hydrant with valve, connections to existing 6-inch pipe, surface restoration, and all other work needed for a complete water main installation. See Attachment C, Figure 2 for extent of the Rhine Village Water Main Improvements.

8 Days

**Justification:** This proposed improvement was originally described in the City's Project Report for the Jewett Water Main Improvements (July 2018) as a means to eliminate a dead-end line and improve system lopping and hydraulic capacity to better meet the 2,000 gallon per minute fire flow goal in the Rhine Village area.

Cost/Time: Agreed upon unit prices and estimated quantities will be used as the basis for determining the cost of this work. Most of the work is covered by unit prices from the original bid. The 8-inch water main cost was increased to reflect higher material costs since the original bid submission. The estimated cost for this work is shown in spreadsheet format under Wauna Avenue Water Main Improvements in Attachment B. Twelve days will be added to the project Contract Time for this work. Total construction cost is estimated to be \$64,439.00.

CHANGE TO THE CONTRACT PRICE W/O SALES TAX: CHANGE TO THE CONTRACT TIME:

\$64,439.00 (Increase) 12 Days

# 5.3 ABNORMAL WEATHER CONDITIONS CAUSED BY WILDFIRE SMOKE

**Description of Change:** The Contractor requested additional contract time for smoke in the project work area from September 14 through 17, 2020 (four days total) created by wildfires in the states of Oregon and Washington. The Contractor did not perform construction work on the project on these days.

**Justification:** Smoke in the project area for the dates noted was in the ranged from unhealthy to hazardous as defined by the daily air quality index. These air conditions are considered unhealthy to the general public and not conducive to construction work. The smoke in the area was considered abnormal weather conditions. The request for additional contract time for abnormal weather conditions is allowed per Article 4.05.C.2 of the General Conditions.

**Cost/Time:** Per Article 4.05 of the General Conditions, additional contract time is only allowed for abnormal weather conditions. A total of four additional days will be added to the Contract Time.

CHANGE TO THE CONTRACT PRICE W/O SALES TAX: CHANGE TO THE CONTRACT TIME:

\$0.00 4 Days

### 5.4 PRV INSTALLATION IN BINGEN MASTER METER VAULT

**Description of Change:** Installation of new 3-inch diameter pressure reducing valve (PRV) in the Bingen master meter vault and installation and removal of a 2-inch diameter PRV valve and miscellaneous fittings installed as a temporary measure until the new 3-inch diameter PRV could be installed.

Justification: While the water pressure upstream of this meter vault (130 psi) is less because of the new PRV valves installed upstream, the water pressure downstream (85 psi) is still higher than before the new master meter vault was installed. The piping in the existing vault included a 2-inch PRV valve that was discovered at the time of the new master meter vault installation. The new master meter vault did not include a PRV valve. A new 3-inch diameter PRV valve is needed to match the existing piping in the vault and reduce the downstream water pressure to approximately 85 psi. As a temporary measure, the existing 2-inch PRV was plumbed into the new master meter vault piping to reduce water pressure delivered to Bingen.

Cost/Time: The cost for this work was based on an agreed-upon lump sum price of \$8,600.00, which includes mobilization/demobilization, installation of new 3-inch PRV valve (manufacturer: Cla-Val to match other valves in the system) and associated fittings and piping, modifications to the master meter piping, removal of the temporary 2-inch PRV and associated piping, disinfection, and other miscellaneous work for a complete installation.

CHANGE TO THE CONTRACT PRICE W/O SALES TAX: CHANGE TO THE CONTRACT TIME:

\$8,600.00 1 Day

#### **SUMMARY OF CHANGE ORDER NO. 5**

Change Order Description	Change in Contract		
Change Order Description	Time, days	Price, \$	
5-1 – Wauna Avenue Water Main Improvements	8	54,575.00	
5-2 – Rhine Village Water Main Improvements	12	64,439.00	
5-3 – Abnormal Weather Conditions Caused by Wildfire Smoke	4	0.00	
5-4 – PRV Installation in Bingen Master Meter Vault	1	8,600.00	
Subtotal	25	127,614.00	
Sales Tax @7.5%	N/A	9,571.05	
TOTAL	25	137,185.05	

With sales tax (7.5%), the total cost for this change order is \$137,185.05.

# ATTACHMENT B CITY OF WHITE SALMON, WASHINGTON JEWETT WATER MAIN IMPROVEMENTS CHANGE ORDER NO. 5

## **WAUNA AVENUE WATER MAIN IMPROVEMENTS**

NO.	DESCRIPTION		UNIT PRICE	QTY	TOTAL
1	Traffic Control/Flagging	HR	\$ 55.00	120 \$	6,600.00
2	Trench Excavation System Safety System	LS	200.00	All Req'd	200.00
3	Potholing	HR	300.00	10	3,000.00
4	Cap Existing Water Mains	EA	250.00	2	500.00
5	Rock Excavation	CY	180.00	30	5,400.00
6	Asphalt Removal	SY	2.00	185	370.00
7	Repair of Unmarked Sewer Service Line	EA	485.00	1	485.00
8	Asphalt Restoration, HMA Cl. 3/8- or 1/2-ln. PG 64H-28	TON	149.00	65	9,685.00
9	Pavement Marking Restoration	LS	200.00	All Req'd	200.00
10	8-In. Water Main	LF	65.00	320	20,800.00
11	2-In. Water Main	LF	38.00	20	760.00
12	Connection to Existing 8-In. Water Main	EA	5,300.00	1	5,300.00
13	Water Service Line, Main Connection	EA	150.00	1	150.00
14	Non-Potable Crossing, CDF	EA	550.00	1	550.00
15	2-In. Gate Valve	EA	575.00	1 -	575.00
				Subtotal \$	54,575.00

## **RHINE VILLAGE WATER MAIN IMPROVEMENTS**

NO.	DESCRIPTION	UNIT	UNIT PRICE	QTY	TOTAL
1	Trench Excavation System Safety System	LS	\$ 200.00	All Reg'd \$	200.00
2	Potholing	HR	300.00	10	3,000.00
3	Asphalt Removal	SY	2.00	237	474.00
4	Asphalt Restoration, HMA Cl. 3/8- or 1/2-In. PG 64H-28	TON	149.00	85	12,665.00
5	8-In. Water Main	LF	65.00	425	27,625.00
6	6-In. Water Main	LF	51.00	25	1,275.00
7	Connection to Existing 6-In. Water Main	EA	5,000.00	2	10,000.00
8	Non-Potable Crossing, CDF	EA	550.00	1	550.00
9	8-In. Gate Valve	EA	1,300.00	2	2,600.00
10	6-In. Gate Valve	EA	975.00	2	1,950.00
11	Fire Hydrant Assembly and Auxiliary Valve	EA	4,100.00	1	4,100.00
				Subtotal \$	64,439,00

#### **SUMMARY**

Change Orders No. 5.1 and 5.2

Subtotal \$ 119,014.00 Sales Tax (7.5%) \$ 8,926.05 TOTAL \$ 127,940.05

# ATTACHMENT C CITY OF WHITE SALMON, WASHINGTON JEWETT WATER MAIN IMPROVEMENTS CHANGE ORDER NO. 5



Figure 1 - Proposed Wauna Avenue Water Main Improvements

# ATTACHMENT C (CONT.) CITY OF WHITE SALMON, WASHINGTON JEWETT WATER MAIN IMPROVEMENTS CHANGE ORDER NO. 5



Figure 2 - Proposed Rhine Village Water System Improvements