



## SOUTH WEBER CITY COUNCIL AGENDA

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**PUBLIC NOTICE** is hereby given that the City Council of SOUTH WEBER CITY, Utah, will meet in a special public meeting on Thursday September 5, 2019, in the Council Chambers, 1600 E. South Weber Dr., commencing at 7:00 p.m.

**COUNCIL MEETING** (Agenda items may be moved in order or sequence to meet the needs of the Council.)

1. **Pledge of Allegiance:** Councilman Halverson
2. **Prayer:** Councilman Taylor
3. **Change Order for South Bench Drive Phase 1 Irrigation Pipe**
4. **Adjourn**

In compliance with the Americans With Disabilities Act, individuals needing special accommodations during this meeting should notify the City Recorder, 1600 East South Weber Drive, South Weber, Utah 84405 (801-479-3177) at least two days prior to the meeting.

THE UNDERSIGNED DULY APPOINTED CITY RECORDER FOR THE MUNICIPALITY OF SOUTH WEBER CITY HEREBY CERTIFIES THAT A COPY OF THE FOREGOING NOTICE WAS MAILED, EMAILED, OR POSTED TO: 1. CITY OFFICE BUILDING 2. FAMILY ACTIVITY CENTER 3. CITY WEBSITE [www.southwebercity.com](http://www.southwebercity.com) 4. UTAH PUBLIC NOTICE WEBSITE [www.pmn.utah.gov](http://www.pmn.utah.gov) 5. THE GOVERNING BODY MEMBERS 6. OTHERS ON THE AGENDA

9-4-19

DATE:

Finance Director: Mark McRae

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**MEMORANDUM**

TO: South Weber City Mayor and Council

FROM: Brandon K. Jones, P.E.  
South Weber City Engineer 

CC: David Larson – South Weber City Manager  
Mark Larsen – South Weber City Public Works Director

RE: **SWIC IRRIGATION MAIN REPLACEMENT – 475 EAST CROSSING  
Change Order Extension Request**

Date: September 4, 2019

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The approved Cooperative Agreement (date June 13, 2019) between South Weber City and the South Weber Irrigation Company (SWIC) included costs to replace the irrigation main up to, but not across 475 East. The new main is installed, but not connected yet. During construction it was discovered that the existing irrigation main across 475 East is very shallow. There are many other utilities below the main which prevent the pipe from being lowered. There is concern that it may break during construction, especially during paving activities. We are also concerned for the long-term stability of the pipe. We have discussed at length many different options with the contractor. The following summarize the options discussed. Each one comes with varied risk, costs, and time. It is difficult to quantify the risk. Therefore, we have listed each option with a comparative risk factor. This factor is based on our opinion and feedback from the contractor.

1. **Relocate main under conflicting utilities.** Risk factor: *Very low*. Cost: *Very high*. Time: *Undetermined*. This option would require the installation of the main underneath all the utilities in 475 East, which would put it very deep. This option was not pursued due to the difficulty of construction, the compromised functionality of the system, the anticipated cost, and time to construct.
2. **Replace main with Ductile Iron Pipe (DIP) and flowable fill.** Risk factor: *Low*. Cost: *High (\$39,211.20)*. Time: *4 days*. This option would replace the existing main across the intersection at the same depth. DIP and flowable fill have increased capacity to carry the loads from construction and future traffic. According to DIPRA (Ductile Iron Pipe Research Association), “Ductile Iron Pipe has more than 13 times the impact strength, 9 times the tensile strength and 4 times the burst strength of PVC pipe.”
3. **Replace main with PVC C900 and flowable fill.** Risk factor: *Moderate*. Cost: *High (approx. \$36,000)*. Time: *4 days*. This is the same as Option #2, with the exception of using PVC pipe rather than DIP.

4. **Leave the existing main.** Risk factor: *High*. Cost: *Low (no additional cost)*. Time: *0 days (no additional days)*. This option would connect to the new irrigation main on the east side and would not cross the intersection. The existing main would remain.

The cost listed in the Cooperative Agreement is \$246,000 with a change order allowance of 2% (split 50/50 between SWC and SWIC - \$123,000 for each entity). If Option #2 was selected (\$39,211.20), this would take the total to \$285,211.20, rounded to \$286,000 (\$143,000 for each entity). At this point in construction it appears that there are some items included in the original irrigation main replacement project that may not have to be installed. This would lower the final cost, but \$286,000 will cover all potential costs originally anticipated.

Our recommendation is to proceed with Option #2 and amend the Cooperative Agreement to increase the total amount to \$286,000 with the 2% change order allowance (both to be split 50/50).

# Change Order No. #1b

**Project:** South Bench Drive Construction Phase 1

**Owner:** South Weber City

**Contractor:** Staker & Parson Companies

**Notice to Proceed:** 4/9/2019

**Substantial Completion:** 8/6/2019

**Original Contract Price:** \$1,797,740.13

## SUMMARY OF CHANGE ORDER

Description of Change(s): Extending new 16" irrigation main replacement to the west across the 475 East intersection with ductile iron pipe (DIP) and flowable fill

**Total Amount of Change: \$39,211.20**

**Total # of Days: 8**

**\*Revised Contract Price: \$2,112,713.31**

**\*Revised Substantial Completion: 10/23/2019**

Attachments: Cost Breakdown from Parsons (item 934)

\_\_\_\_\_  
Recommended for Approval by Engineer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Approved by Director of Public Works

\_\_\_\_\_  
Date

\_\_\_\_\_  
Approved by Mayor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Received by Contractor

\_\_\_\_\_  
Date

\*APPROVED CHANGES TO DATE (additional days)

CO #1:	\$	244,532.35	70	
CO #2:	\$	31,229.63	-	
CO #1b:	\$	-	-	
CO #3:	\$	-	-	
CO #4:	\$	-	-	
Total Changes:	\$	275,761.98	70	days



**Cost Breakdown  
Change Order No. #1b**

No.	Description	Quantity	Unit Price	Total Price
<b>Irrigation Main Replacement - 475 East Crossing</b>				
128	New 8" DIP	50	lf \$ 55.00	\$ 2,750.00
129	New 16" DIP	80	lf 83.00	6,640.00
130	New 16x8 Cross w/ MJ Flange Adaptors	1	ea 6,705.00	6,705.00
131	New 8" Valve	2	ea 1,450.00	2,900.00
132	New 16" Valve	1	ea 4,659.00	4,659.00
133	Remove 15" PVC	130	lf 3.00	390.00
134	New 8" 45° Bend	2	ea 800.00	1,600.00
135	New 16" sleeve	1	ea 2,180.00	2,180.00
136	New 8" sleeve	2	ea 1,070.00	2,140.00
137	Connect new DIP to existing PVC PIP - 3 locations	1	ls 2,630.00	2,630.00
138	Flowable Fill	25	cy 190.00	4,750.00
	<b>Subtotal (Irrigation Main Replacement):</b>			<b>\$ 37,344.00</b>
139	Staker & Parson Companies Markup (5%)			1,867.20

**Total Change in Contract Price: \$ 39,211.20**

**Additional Time Required**

Time extension for parts and labor to construct crossing	8	days
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**Total Change in Contract Time: 8**



**STAKER PARSON**  
MATERIALS & CONSTRUCTION  
A CRH COMPANY

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A CRH Company

Ogden - 2350 S. 1900 W. Ogden, UT 84401 | P: (801) 731-1111 F: (801) 731-8800  
Brigham City - PO Box 517 Brigham City, UT 84302 | P: (435) 723-5216 F: (435) 723-9343  
Smithfield - PO Box 65 Smithfield, UT 84335 | P: (435) 563-3242 F: (435) 563-9480

*The Preferred Source for quality sand, rock, landscape products,  
ready mix concrete, asphalt, paving & construction services.*

<b>To:</b>	South Weber City	<b>Contact:</b>	
<b>Address:</b>	1600 East South Weber Drive South Weber, UT 84405	<b>Phone:</b>	(801) 479-3177
<b>Project Name:</b>	South Bench Drive Construction Phase 1 Change Orders	<b>Fax:</b>	
<b>Project Location:</b>	South Bench Drive, South Weber, UT	<b>Bid Number:</b>	
		<b>Bid Date:</b>	3/12/2019

**JOB SPECIFICATION AND PRICE:**

**(IF UNIT PRICES ARE QUOTED, UNITS WILL BE MEASURED ON COMPLETION AND INVOICED AT UNIT PRICES QUOTED).**

**IF OWNER ELECTS TO EXECUTE OWN CONTRACT AGREEMENT, THIS PROPOSAL IS TO BECOME PART OF AND ATTACHED TO OWNERS CONTRACT**

Line #	Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
934		Irrigation Across 475 E. 16" DIP Pipe 80 LF: \$83.00/LF = \$6,640.00 8" DIP Pipe 50 LF: \$55.00/LF = \$2,750.00 16x8 Cross W/MJ Flange Adaptors 1 EA: \$6,705.00 8" Valves 2 EA: \$1,450.00/EA = \$2,900.00 16" Valves 1 EA: \$4,659.00 Flowable Fill 25 CY: \$190.00/CY = \$4,750.00 Remove 15" PVC 130 LF: \$3.00/LF = \$390.00 8" 45's For DIP 2 EA: \$800.00/EA = \$1,600.00 16" Sleeve 1 EA: \$2,180.00 8" Sleeve 2 EA: \$1,070.00/EA = \$2,140.00 Hooking To Existing Lines 1 LS: \$2,630.00 S&P 5% MU = \$1,867.20	1.00	LS	\$39,211.20	\$39,211.20

**Total Price for above Items: \$39,211.20**

**Total Bid Price: \$39,211.20**

**Notes:**

- In order to assure positive drainage, all paving surfaces need to have a minimum of 1.5% slope. Staker Parson Companies cannot guarantee drainage on areas with less than 1.5% slope. We will do our best to minimize standing water in areas less than 1.5%.
- Additional work and work in excess of that specified and described above will be handled as a Change Order. Additional work **MUST BE APPROVED** by owner and contractor prior to construction.
- Bid DOES NOT include engineering, layout or testing unless otherwise stated.
- Finegrade +/- 1/10' means that the grade is within 1/10' from being finished (GENERALLY ONE PASS WITH A GRADER). Our price does not include furnishing additional material or the removal of excess material.
- Price Shown DOES NOT Include Performance And Payment Bond.
- If saw cutting of asphalt & testing of road base are to be completed by Staker/Parson Companies, a minimum of \$200.00 plus \$0.20 per inch foot for saw cut and a minimum of \$175.00 plus \$25.00 for each density test.
- Bid includes only the items as specified and described above.
- Unless otherwise stated bid does not include raising and concrete collars on manholes, water valves or monuments.
- General Contractor, owner or developer is responsible for Storm Water Prevention Plan. Staker & Parson Companies will be responsible for Storm Water Prevention for our portion of work only, unless other arrangements are made.
- Please Review attached TERMS & CONDITIONS. Upon Signature Of Proposal Purchaser Is Bound To All Terms And Conditions Of Agreement. Original Copy Of Proposal Must Be Signed And On File Prior To Commencement Of Work.

**Payment Terms:**

Refer to attached Terms & Conditions. Please note\*\*\*Effective March 1, 2019, payment by credit card will no longer be allowed on Construction Service Invoices\*\*\*



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	<b>Bid Date:</b> 3/12/2019

<p><b>ACCEPTED:</b>          The above prices, specifications and conditions are satisfactory and are hereby accepted.</p> <p><b>Buyer:</b> _____</p> <p><b>Signature:</b> _____</p> <p><b>Date of Acceptance:</b> _____</p>	<p><b>CONFIRMED:</b>  <b>STAKER   PARSON COMPANIES</b></p> <p><b>Authorized Signature:</b> _____</p> <p><b>Estimator:</b> Nick Mecham          801-791-4221 nicholas.mecham@stakerparson.com</p>
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