RESOLUTION NO. R16-96

A RESOLUTION AUTHORIZING THE MAYOR TO SIGN CHANGE ORDER NO. 4 WITH WILSON BROTHERS CONSTRUCTION FOR THE WATER TREATMENT PLANT INTAKE PROJECT CONSTITUTING A DECREASE OF \$13,605.25.

WHEREAS, the City Council of the City of Laurel previously authorized the Mayor to approve a contract with Wilson Brothers Construction for the Water Treatment Plant Intake Project through Resolution No. R16-45 on June 21, 2016; and

WHEREAS, the original contract price was \$8,560,901.00 to complete the project; and

WHEREAS, Change Order Nos. 1 through 3 to the contract with Wilson Brothers Construction are pending approval; and

WHEREAS, Great West Engineering and City Staff reviewed Change Order No. 4 and determined that it was correct, reasonable and necessary to complete the project and recommend the Council's approval of the same.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Laurel, Montana, that the Mayor is authorized to sign Change Order No. 4, a copy of which is attached, to decrease the contract amount by \$13,605.25.

Introduced at a regular meeting of the City Council on S	eptember	6, 2016,	by Cou	ıncil M	1eml	er
Nelson ·						
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PASSED and APPROVED by the City Council of the City of Laurel this 6th day of September, 2016.

APPROVED by the Mayor this 6th day of September, 2016.

CITY OF LAUREL

Marla Mace Mark A. Mace, Mayor

ATTEST:

Shirley Ewan, Clerk/Treasurer

Approved as to form:

Sam S. Painter, Civil City Atterney



Change Order No. Date of Issuance: September 6, 2016 **Effective Date:** September 6, 2016 Owner: City of Laurel, Montana Owner's Contract No.: FEMA: 1996-DR-MT-PW 01679 SRF: EQ 16-1684 Contractor: Wilson Bros. Construction, Inc. Contractor's Project No.: N/A Engineer: Great West Engineering, Inc. Engineer's Project No.: 2-07128-TO26 Project: Water Treatment Plant Intake N/A **Contract Name:**

The Contract is modified as follows upon execution of this Change Order:

Description:

This change order is for cost savings proposals as described on RFI 001 and RFI 008. Specific changes in contract quantities and unit prices are as follows:

- The unit price for *Item No. 109 24" DIP Transmission Main From Intake to Riverbank* will be decreased from \$225.00/LF to \$222.65/LF. Decrease in cost = 850 LF x \$2.35/LF = (\$1,997.50).
- The unit price for Item No. 110 18" ID Casing Pipe for Air & Hot Water Lines From Intake to Riverbank will be decreased from \$185.00/LF to \$182.65/LF. Decrease in cost = 655 LF x \$2.35/LF = (\$1,539.25).
- The unit price for *Item No. 208 30" PVC Carrier Pipe* will be decreased from \$175.00/LF to \$165.55/LF. Decrease in cost = 530 LF x \$9.45/LF = (\$5,008.50).
- Item No. $217 30'' \times 6''$ Tee will be changed to $30'' \times 4''$ Tapping Sleeve and the unit price will be increased from \$12,000.00/EA to \$12,375.00/EA. Increase in cost = 10 EA x \$375.00/EA = (\$3,750.00).
- The contract quantity for Item No. $222a 6'' \times 4''$ Reducer will be decreased from 10 EA to 0 EA. Decrease in cost = 10 EA x \$800.00/EA = (\$8,000.00).
- The unit price for Item No. 225 Transmission Main Clean-out Connection will be decreased from \$12,500.00/EA to \$12,365.00/EA. Decrease in cost = 6 EA x \$135.00/LF = (\$810.00).

Attachments: RFI 001 and RFI 008

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
	[note changes in Milestones if applicable]
Original Contract Price:	Original Contract Times:
	Substantial Completion: 240
\$ <u>8,560,901.00</u>	Ready for Final Payment: 270
	days
Increase from previously approved Change Orders	Increase from previously approved Change Orders
No. <u>1</u> to No. <u>3</u> :	No. <u>1</u> to No. <u>1</u> :
	Substantial Completion: 0
S Pending Approval of Change Orders 1 to 3	Ready for Final Payment: 0
	days
Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
	Substantial Completion: 240
\$ Pending Approval of Change Orders 1 to 3	Ready for Final Payment: 270
	days

EJCDC* C-941, Change Order.

Prepared and published 2013 by the Engineers Joint Contract Documents Committee.

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Decreas	se of this Change Order:		Increase of this	Change (Order:		
				Substantial Completion: 0			
\$ <u>13,60</u>	5.25		Ready for Final	Payment	: <u>0</u>		
					days		
Contrac	ct Price incorporating this Cha	nge Order	Contract Times	with all a	pproved Change Orders:		
			Substantial Com	pletion:	240		
\$ <u>Pendi</u>	ng Approval of Change Orders	1 to 3	Ready for Final	Payment.	: <u>270</u>		
					days		
	RECOMMENDED:		ACCEPTED:		ACCEPTED:		
By:	_ Jonnathan Weaver	By:	Markof Mare	By:	_Nick Wilson		
	Engineer		Owner (Authorized		Contractor (Authorized		
	Liigiileei		Signature)		Signature)		
Title:	Project Engineer	Title	Maryor	Title (Operations Manager		
Date:	8/25/2016	 Date	9/6/2016		<u> </u>		
applicab	ed by Funding Agency (if ble)						
By: Title:			Date:				

REQUEST FOR INFORMATION (RFI)

RFI# 001

Project: Laurel Treatment Plant Intake

	Title	: Fittings Clarification/Proposa	<u>ils</u>
То:	Great West Engineering, Inc. Attn: Jonathan Weaver, P.E. 115 N Broadway, Suite 500 Billings, MT 59101 jweaver@greatwesteng.com		Wilson Bros. Construction Attn: Nick Wilson 980 Rd. 7 Cowley, WY 82420 nwilson@wilson-bros.com
Creat	ed Date: <u>6/29/16</u>	Status:	<u>open</u>
Locat	ion:	Due Date:	
		Reference:	
Drawi	ing No. <u>MULTIPLE</u>	Spec Section:	

Contractor Question:

- 1. Bid Item 211 After reviewing the requirements to cut and cap the existing line, Wilson Bros. would like to propose capping the ends of the pipe with M4000 concrete in lieu of the 20" ductile iron caps and restraints. Since the pipe will be abandoned in place and capped on both end, we feel using the concrete would accomplish the intent. One of our main concerns is the year/condition of the pipe and ensuring we have/can get the proper sized cap and restraint. Ductile iron pipe went into production in 1955, but they still used a lot of cast iron at that time.
- 2. Sheet P25 Rather than installing a short section of pipe and a cap on the end of the 42" Tee, we would like to propose installing an MJ plug instead.
- 3. Sheet D2 Air Release Detail We would like to propose installing 30" x 4" tapping sleeves on the pipe at these locations instead of the 30"x6" tee with a 6"x4" reducer. Using the sleeves would provide the same level of pressure seal and allow for greater flexibility/constructability in placing the sleeves at the best location for the AR valve vaults.
- 4. Sheet D2 Cleanout Detail Similar to the above request, we would like to install 30"x8" tapping sleeves in lieu of the 30"x8" tee.
- 5. Specification Section 15060-2.2.A Specs call for Class 52 (Thickness Class) pipe. Addendum #1 states the 18" and 24" DIP should be Class 52, 150psi. Wilson Bros. would like to propose providing pressure class 250psi in lieu of Class 52 pipe for the 18" and 24" DIP pipe. CL52 Pipe provides uniform thickness across the entire pipe, while pressure class pipe thickness can vary (0.01 to 0.02 of an inch) but guarantees a pressure rating. Please advise if pressure class 250 (which provides an additional 100 psi safety factor) would be sufficient in these locations.

Owner/Engineer Reply:

- 1. The ductile iron pipe connecting the pump house to the 1955 intake was replaced in 1996 and should be in fair condition. The City will accept capping the ends of the pipe with M4000 concrete in lieu of the 20" DI caps only with an acceptable reduction in contract price.
- 2. 5. These proposals are acceptable only with an acceptable reduction in contract price.

Contractor Reply:

- 1. Since the existing material is DIP, Wilson Bros. will install the 20" DI cap as bid.
- 2. The cost savings on this change would amount to \$300. The savings will come only from less bolts to install.
- 3. Reduction in contract price for using 30"x4" tapping sleeves will be \$4,250.
 4. Reduction in contract price for using 30"x8" tapping sleeves will be \$800.
- 5. Reduction in contract price for using PC250 DIP pipe will be \$3,500.

See attached spreadsheet for unit cost changes reflecting the credits above.

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142, 1	Jameshim Weaver	Nick Wilson	
Owner 3	Engineer	Contractor	
8/8/2016	8/8/2016	08/11/2016	
Date	Date	Date	

WILSON BROS. CONSTRUCTION, INC. P.O. BOX 636 COWLEY, WY 82420 TELEPHONE AND FAX 307-548-6559

WATER TREATMENT PLANT INTAKE LAUREL, MT

RFI001 Price Breakdown

Bid Item No.	Item Description	Units	Qty.		Unit Price		Total Price
	Revised Pri	cing from RFI001					
217	30" X 6" TEE	I EA	10	T\$	12,375.00	\$	123,750.00
222a	6" x 4" REDUCER	EA	10	\$	-	\$	
225	TRANSMISSION MAIN CLEAN-OUT CONNECTION	EA	6	\$	12,365.00	\$	74,190.00
109	24" DIP TRANSMISSION MAIN FROM INTAKE TO RIVERBANK	LF	850	\$	222.65	\$	189,252.50
110	18" ID CASING PIPE FOR AIR & HW INTAKE TO RIVER	LF	655	\$	182.65	\$	119,635.75
	Origin	nal Pricing	_!			l	
217	30" X 6" TEE	EA	10	T\$	12,000.00	\$	120,000.00
222a	6" x 4" REDUCER	EA	10	\$	800.00	\$	8,000.00
225	TRANSMISSION MAIN CLEAN-OUT CONNECTION	EA	6	\$	12,500.00	\$	75,000.00
109	24" DIP TRANSMISSION MAIN FROM INTAKE TO RIVERBANK	LF	850	\$	225.00	\$	191,250.00
110	18" ID CASING PIPE FOR AIR & HW INTAKE TO RIVER	LF	655	\$	185.00	\$	121,175.00
				TOTA	L COST CHANGE	\$	8,596.75

REQUEST FOR INFORMATION (RFI)

RFI# 008

Project: Laurel Treatment Plant Intake

		Title: Casing	Spacers on Fused	PVC
То:	Great West Engineering Attn: Jonathan Weaver 115 N Broadway, Suite Billings, MT 59101 jweaver@greatwestend	, P.E. 500	From:	Wilson Bros. Construction Attn: Nick Wilson 980 Rd. 7 Cowley, WY 82420 nwilson@wilson-bros.com
Creat	ted Date: <u>08/05/16</u>		Status:	<u>OPEN</u>
Loca	tion: 42" Bore		Due Date:	<u>08/12/16</u>
			Reference:	
Draw	ing No. <u>NA</u>		Spec Section	on: <u>02445.2.3</u>
	inating casing spacers		•	the weld beads on the interior s shall be removed and/or
The	nd down to a smooth so unit price for bid item 2 cted on Change Order	08 will be reduced accord	ingly. The change	e in contract price will be
- January Comments	12) 10-16	Engineer	Sawr	Nick Wilson Contractor 08/11/2016
<u>クー</u> Date	10 14	8/8/2016 Date		Date



13.4.1 Casing Spacers

When PVC pipe is installed in casings, casing spacers (Fig. 13.5) must be used to prevent damage to pipe and bell joints during installation and to provide proper long-term line support. PVC pipe in casings should not rest on bells. See but fixed PVC casing

Casing spacers must be securely attached at the insertion line of the pipe on the spigot end to ensure that overinsertion does not occur. Caution should be used when attempting longer installations using this method, as the frictional forces of the installation may build to a greater force than the casing spacer at the insertion line can resist. Restrained joints suitable for compressive loads may also be used (or required) if installation forces exceed slippage resistance of casing spacers.

Care must be exercised to avoid damage to pipe or bell joints. Non-petroleum-based lubricants applied to casing interior or spacer exterior makes sliding easier.

Casing spacers must provide sufficient height to permit clearance between bell joint and casing wall.

Table 8.10, in Chapter 8, gives maximum support spacing values for casing spacers. Casings are normally sized to provide an inside diameter at least 2 in. (50 mm) greater than the maximum outside diameter (OD) of pipe bell, casing spacer, or joint restraint device. Approximate maximum ODs of the pipe bell for various PVC products are provided in the tables of the Handbook's Appendix.

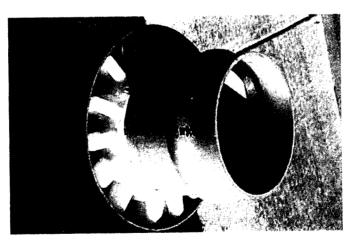


Fig. 13.5 Casing spacer. Note that casing spacers must be securely attached at the insertion line of the pipe on the spigot end to insure overinsertion does not occur.

