

**A RESOLUTION AUTHORIZING THE MAYOR TO SIGN
CHANGE ORDER NO. 6 WITH WILLIAMS BROTHERS CONSTRUCTION
FOR THE WASTEWATER TREATMENT PLANT PROJECT CONSTITUTING AN
INCREASE OF \$37,829.39 FOR ADDITIONAL WORK.**

WHEREAS, the City Council of the City of Laurel previously authorized the Mayor to approve a contract with Williams Brothers Construction for the Wastewater Treatment Plant Upgrade Project through Resolution No. R13-38 on June 18, 2013; and

WHEREAS, the original contract price was \$6,369,000.00 to complete the project; and

WHEREAS, the City Council previously approved Change Order Nos. 1 through 5 to the contract with Williams Brothers Construction to increase the cost of the project by \$295,412.84; and

WHEREAS, additional work and compensation is required to finish the project as described in the attached Change Order; and

WHEREAS, Great West Engineering and City Staff reviewed Change Order No. 6 and determined that it was correct, reasonable and necessary to complete the project and recommend the Council's approval of the same.

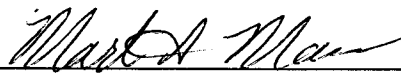
NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Laurel, Montana, that the Mayor is authorized to sign Change Order No. 6 a copy of which is attached, to increase the contract amount by \$37,829.39 for a total contract price of \$6,702,242.23.

Introduced at a regular meeting of the City Council on May 19, 2015, by Council Member McGee.

PASSED and APPROVED by the City Council of the City of Laurel this 19th day of May, 2015.

APPROVED by the Mayor this 19th day of May, 2015.

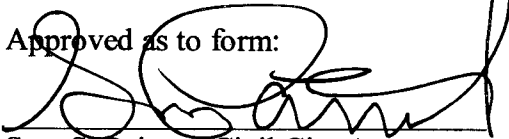
CITY OF LAUREL


Mark A. Mace, Mayor

ATTEST:


Shirley Ewan, Clerk/Treasurer

Approved as to form:


Sam S. Painter, Civil City Attorney



115 N Broadway, Suite 500
Billings, MT 59101

PHONE: 406.652.5000
FAX: 406.248.1363
www.greatwesteng.com

LETTER OF TRANSMITTAL

To: City of Laurel

Date: 5-5-15

Of:

Project: Laurel WW

Address: PO Box 10
Laurel, MT 59044

Project No.: 2-07128 TO 16

Subject: Change Order

Phone:

Fax:

We transmit: As requested Attached Under separate cover
Via: Mail e-Mail Courier Overnight delivery Fax

# of Copies	Description
3	Change Order #6

Our action: Reviewed Not approved Approved See remarks
Action requested: Review and comment Approve / Accept
 Make corrections noted Revise and resubmit
 For your information and use

Remarks: Please have all 3 copies signed where indicated. Please keep one copy for your records and return the other 2 copies back to me. Thanks,

From: Ilene Neudick e-mail address: ineudick@greatwesteng.com

Phone: 406-652-5000 cc: Project file,

If enclosures are not as noted, please notify the sender immediately.

Change Order

No. 6

Date of Issuance: May 1, 2015 Effective Date: _____

Project: WWTP Improvements – BNR Upgrade	Owner: City of Laurel, MT
Contract:	Date of Contract: July 7, 2013
Contractor: Williams Brother Construction LLC	Engineer's Project No.: 2-07128, TO 16

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

Miscellaneous changes to the project were required. In addition, the Contractor made a time extension request for items included in Change Orders 1 through 6.

Attachments (list documents supporting change):

Summary of changes and cost estimate from Contractor for each item. Time extension request analysis.

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIMES:

Original Contract Price:
\$ 6,369,000.00

Original Contract Times: Working days Calendar days
Substantial completion (date): November 5, 2014
Ready for final payment (date): February 3, 2015

Increase from previously approved Change Orders No. 1 to No. 5:
\$ 295,412.84

Increase from previously approved Change Orders No. 1 to No. 5:
Substantial completion (days): 107
Ready for final payment (days): 60

Contract Price prior to this Change Order:
\$ 6,664,412.84

Contract Times prior to this Change Order (including Contract Suspension for 14 days over Christmas):
Substantial completion (date): March 6, 2015
Ready for final payment (date): August 3, 2015

Increase of this Change Order:
\$ 37,829.39

Increase of this Change Order:
Substantial completion (days): 43
Ready for final payment (days): 0

Contract Price incorporating this Change Order:
\$ 6,702,242.23

Contract Times with all approved Change Orders:
Substantial completion (date): April 18, 2015
Ready for final payment (date): September 15, 2015

RECOMMENDED:
By: [Signature]
Engineer (Authorized Signature)
Date: 05/01/15

ACCEPTED:
By: [Signature]
Owner (Authorized Signature)
Date: 5/19/2015

ACCEPTED:
By: [Signature]
Contractor (Authorized Signature)
Date: 5-4-15

CHANGE ORDER No. 6 SUMMARY

Change to Work		Change to Contract Cost
6-A	Temporary piping to route the RAS to the aeration basins was not specifically included in the Construction Sequencing but is necessary for the proper operation of the plant as an activated sludge process.	\$ 12,157.47
6-B	Additional air release valve on 12" RAS line in lower level of blower building.	\$ 1,367.87
6-C	The City requested a water line and hose bib in the hypochlorite storage area of the blower building to facilitate cleaning and flushing the hypochlorite line(s) if necessary.	\$ 1,829.62
6-D	The Contractor proposed a significant credit to seal the floor in the thickener building instead of applying the specified epoxy coating.	\$ (14,656.90)
6-E	The drain valves on the RBC basin needed to be rehabilitated to bring them back into operation.	\$ 971.01
6-F	The Contractor had to repair the supports and slides on the existing slide gates on the RBC basins to reuse them.	\$ 347.11
6-G	The City requested a quote to connect the hand operated valves in the blower building to the SCADA system.	\$ 1,441.44
6-H	The DO and ORP analyzers and flow meters read outs included in the blower specification (Section 11370) require thermal enclosures to properly operate in freezing temperatures.	\$ 22,134.06
6-I	The FL line needed to be rerouted from the manhole near the headworks to the wet well at the base of the screw pumps.	\$ 3,333.88
6-J	Credit for providing plastic dipped forged hooks on hoists in thickener building instead of specified stainless steel hooks.	\$ (1,000.45)
6-K	Additional piping for RDT in thickener building is necessary per manufacturer requirements. The additional piping also requires adjustments to the WAS pumps.	\$ 9,904.28
Subtotal: Change Order 6		\$ 37,829.39
Total Change Orders		\$ 333,242.23

LAUREL WWTP
 Temporary RAS Reroute - Revision 2

BWC
 Date: 11-20-14

Materials

6" HDPE pipe	\$3.00	ft	100	\$300.00
6" Rodded pipe restraint	\$85.00	ea	1	\$85.00
6" HDPE 90	\$59.00	ea	2	\$118.00
6" HDPE 8 x 6 Reducer	\$95.00	ea	1	\$95.00
6" HDPE 45	\$78.00	ft	2	\$156.00
6" Coupling	\$223.00	ea	1	\$223.00
Heat Trace Kit	\$753.00	ls	1	\$1,555.00
Insulation	\$3.00	ft	100	\$300.00

Labor

Install Pipe	\$55.65	Hr	32	\$1,780.80
Install Insulation	\$55.65	Hr	4	\$222.60
Install Heat Tape	\$55.65	Hr	4	\$222.60
Remove	\$55.65	Hr	20	\$1,113.00

Equipment

HDPE Fuse Machine	\$22.50	Hr	32	\$720.00
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Sub- Contractors

Weir Pump	\$3,500.00	ls	1	\$3,500.00
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Subtotal				\$10,391.00
Markup				\$1,766.47
TOTAL				<u>\$12,157.47</u>

Note: Will require a 45 day time extension due to the fact that this bypass was not a requirement of the first contract schedule. This will require expedited installation of the pumps and controls as well as installation of bypass. The permanent installation of the RAS line will also be impacted as the line used as temporary will need to remain in service while the permanent lines are installed to the stage 1, stage 2 basin. The east line can be tied in when the remodel to the basin is done and flow can be diverted to this basin. Then the temporary can be removed and the west line can be tied together. This will also require that the ditch will be open for some time.

LAUREL WWTP
Additional Air Release

BWC
Date: 12-16-14

Materials

Materials					
12" x 1 1/2" Pipe Saddle	\$1,343.75	ea	2	\$391.24	
1 1/2" CC x IPS Corporation Valve	\$84.82	ea	2	\$165.32	
1 1/2" PVC Sch 80 Pipe and Fittings	\$15.45	ea	4	\$132.00	
Uni-Strut & Hanger	\$310.00	LS	1	\$30.00	

Labor

Labor					
Superitendant	\$45.00	hr	1	\$45.00	
Laborer	\$34.46	hr	2	\$68.92	
Carpenter	\$43.32	hr	2	\$86.64	

Equipment

Equipment					
Tapping Drill & Bit	\$250.00	ea	1	\$250.00	

Sub- Contractors

Sub- Contractors					
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Subtotal				\$1,169.12	
Markup				\$198.75	
TOTAL				<u>\$1,367.87</u>	

LAUREL WWTP
Water @ Hypochlorite Room

BWC
Date: 1-5-15

Materials

3/4" Copper Fitting	\$5.50	ea	4	\$22.00
3/4" Copper Pipe	\$5.24	ea	20	\$104.80
1" BFP	\$345.32	ea	1	\$345.32
1" Ball Valve	\$124.48	LS	1	\$124.48
3/4" Hose Bib	\$11.56	ea	1	\$11.56
1.5"x1" PVC tee	\$4.50	ea	1	\$4.50
Hose Quick-Cplg	\$12.50	ea	2	\$25.00
Misc Materials and Hangers	60	LS	1	\$60.00

Labor

Superitendant	\$45.00	hr	2	\$90.00
Laborer	\$34.46	hr	4	\$137.84
Carpenter	\$43.32	hr	4	\$173.28

Equipment

Core Drill	\$45.00	hr	4	\$180.00
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Sub- Contractors

Stevens Bros.	\$345.00	ls	1	\$345.00
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Subtotal				\$1,563.78
Markup				\$265.84
TOTAL				<u>\$1,829.62</u>

LAUREL WWTP
Deduct Epoxy Floor Coating

BWC
Date: 1-26-15

Labor & Material

[REDACTED]				
Seal Concrete Floor	\$1.00	sqft	770	\$770.00

Equipment

[REDACTED]				
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Sub- Contractors

[REDACTED]				
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T&L Painting	-\$15,000.00	LS	1	-\$15,000.00
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Subtotal				-\$14,230.00
Markup				-\$426.90
TOTAL				<u>-\$14,656.90</u>

E

LAUREL WWTP
Rehab Drain Valves (12' - 13' deep)

BWC
Date: 1-2-15

Materials

[REDACTED]

Misc. Material	\$250.00	ls	1	\$250.00
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Labor

[REDACTED]

Superintendent	\$45.00	hr	6	\$270.00
Carpenter	\$43.32	hr	6	\$259.92
Operator	\$41.47	hr	2	\$82.94

Equipment

[REDACTED]

Welder	\$25.00	hr	2	\$50.00
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Sub- Contractors

[REDACTED]

Subtotal				\$829.92
Markup				\$141.09
TOTAL				<u>\$971.01</u>

Time Extension: 1 days

LAUREL WWTP
Gate Repair

BWC
Date: 2-10-15

Materials

Description	Unit	Quantity	Cost (NWP)
1 1/2" x 1 1/2" Galvanized Angle	8.81 ft	1.33	\$11.72

Labor

Description	Unit	Quantity	Cost	
Superitendant	\$45.00	hr	3	\$135.00
Carpenter	\$43.32	hr	3	\$129.96

Equipment

Description	Unit	Quantity	Cost	
Welder	\$20.00	hr	1	\$20.00

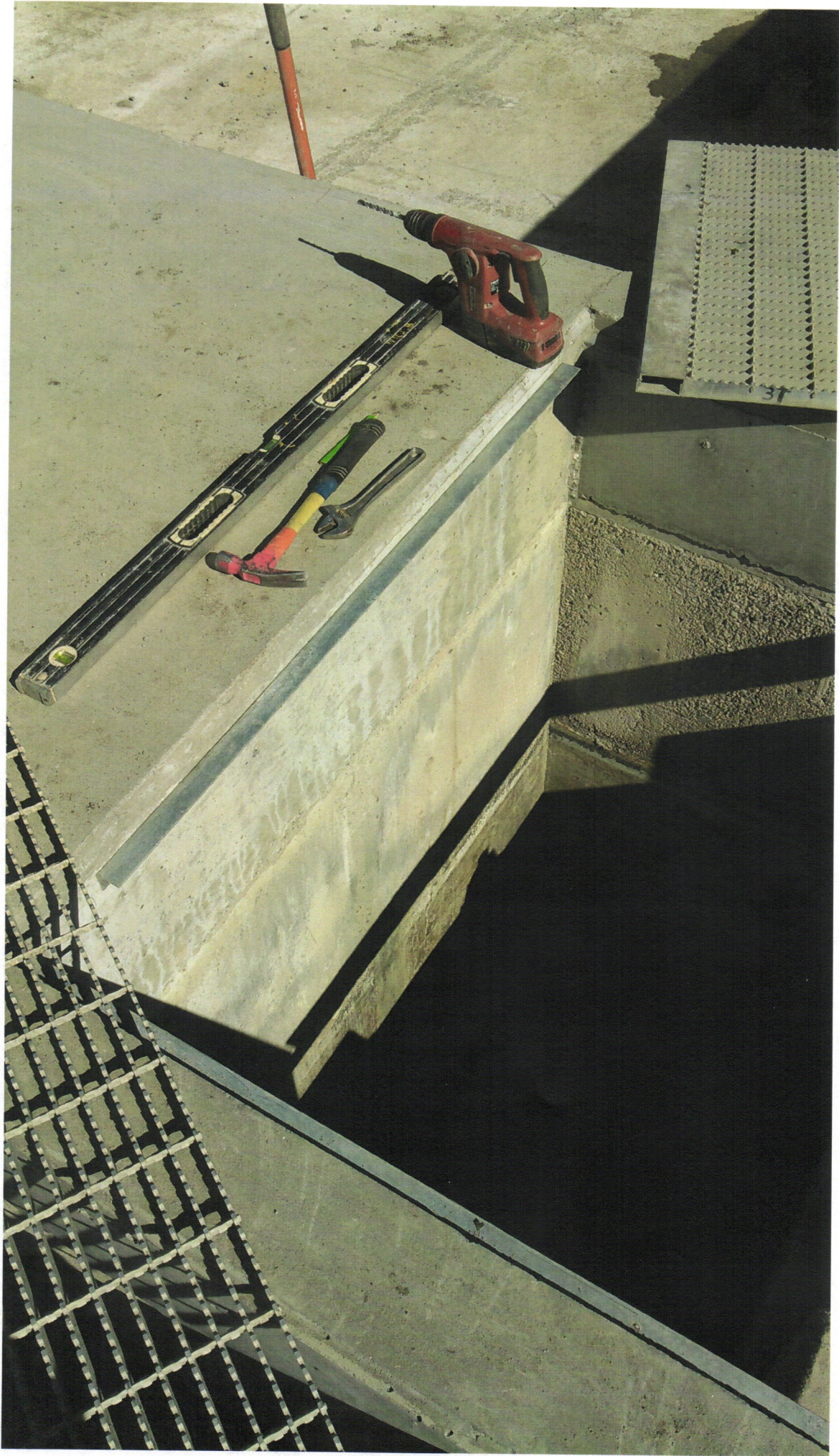
Sub- Contractors

Description	Unit	Quantity	Cost
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Subtotal			\$296.68
Markup			\$50.44
TOTAL			\$347.11







LAUREL WWTP
Add Control Valves To SCADA

BWC
Date: 2-24-15

G

Materials

Description	Unit	Quantity	Cost (NWP)
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Labor

Description	Unit	Quantity	Cost
Supervision	hr	2	\$90.00

Equipment

Description	Unit	Quantity	Cost
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Sub- Contractors

Description	Unit	Quantity	Cost
CEI	LS	1	\$1,142.00

Subtotal			\$1,232.00
Markup			\$209.44
TOTAL			\$1,441.44

Contract Time Extension 2 Days

CEI ELECTRICAL CONTRACTORS

6131 Homestead Blvd
PO Box 1934
Colstrip, MT 59323
TEL: (406) 748-4048
FAX: (406) 748-3135
cei@cei-online.com
www.cei-online.com

647 S. 18th St W
Billings, MT 59102
TEL: (406) 656-4365
FAX: (406) 656-4534

2401 S. Greely Hwy
Cheyenne, WY 82003
TEL: (307) 426-4258
FAX: (307) 426-4259

4105 S. Broadway
Minot, ND 58701
TEL: (701) 500-1007
FAX: (406) 748-3135

February 24, 2015

Williams Bros Construction

RE: Laurel WWTP – CEI COR 19: Add Hand Valves to SCADA

Attn: Barry Curtis

CEI would like to submit the following pricing change to add the hand valves to the SCADA system. This quote is the additional amount for labor, materials and programming that was not included CEI COR 4.

Quote: \$1,142

Notes:

- 1) Price is valid for 30 days.
- 2) Proposal is based off straight time rates.
- 3) Proposal will impact project duration.

If you have any further questions please call me at 406-656-4365.

Respectfully,



Wade Smith
PM/Estimator

LAUREL WWTP
Heated Enclosures-Revised

BWC
Date: 3-11-15

Materials

[REDACTED]

8 Heated Enclosures	\$4,720.00	ls	1	\$4,720.00
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Labor

[REDACTED]

Supervision	\$45.00	hr	4	\$180.00
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Equipment

[REDACTED]

Sub- Contractors

[REDACTED]

CEI	\$9,811.00	LS	1	\$14,018.00
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Subtotal				\$18,918.00
Markup				\$3,216.06
TOTAL				<hr/> \$22,134.06

Contract Time Extension 8 days

CEI ELECTRICAL CONTRACTORS

6131 Homestead Blvd
PO Box 1934
Colstrip, MT 59323
TEL: (406) 748-4048
FAX: (406) 748-3135
cei@cei-online.com
www.cei-online.com

647 S. 18th St W
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2401 S. Greely Hwy
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TEL: (307) 426-4258
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4105 S. Broadway
Minot, ND 58701
TEL: (701) 500-1007
FAX: (406) 748-3135

March 10, 2015

Williams Bros Construction

RE: Laurel WWTP – CEI COR 20: Install Blower Vendor ORP, DO and Flow Transmitters in Enclosures.

Attn: Barry Curtis

CEI would like to submit the following pricing change remove the Blower Vendor ORP, DO and Flow sensors and relocate them to heated enclosures.

Quote: \$14,018

Notes:

- 1) Price is valid for 30 days.
- 2) Heated enclosures by others.
- 3) Proposal is based off straight time rates.
- 4) Proposal will impact project duration.

If you have any further questions please call me at 406-656-4365.

Respectfully,



Wade Smith
PM/Estimator

Laurel WWTP CO
Job Number: 608
Extension By Section

Item #	Description	Quantity	Price U	Ext Price	Labor Hr U	Ext Lab Hr
--- COR 20 Install Blower DO Endo ---						
1144	3/4" LT Flex	80.00	150.00 C	121.20	6.20 C	4.96
1833	3/4" LT Flex Conn	8.00	450.00 C	36.36	0.22 E	1.76
1853	3/4" 90D LT Flex Conn	8.00	560.00 C	45.25	0.18 E	1.44
1863	3/4" 90D LT Flex Conn w/Ins Throat	16.00	632.10 C	102.15	0.18 E	2.88
2598	#14 THHN CU Stranded Wire	3,570.00	100.00 M	360.57	6.20 M	22.13
5968	12 Gauge 1-5/8x1-5/8 Channel	100.00	1,850.00 M	186.85	20.00 C	20.00
7398	Demo Existing	12.00	1.00 E	12.12	1.00 E	12.00
7473	#16 Twisted Shielded Pair	1,480.00	250.00 M	373.70	16.03 M	23.72
7518	Supervision/Coordination	5.00	0.00 E	0.00	1.00 E	5.00
7691	18"x18"x4" Nema 12	8.00	10.00 E	80.80	2.00 E	16.00
7919	3/8" Spring Nut, Bolt, Washer, Lock	32.00	2.15 E	69.49	0.05 E	1.60
8143	Mount Device	12.00	QUOTE 8	0.00	2.00 E	24.00
8193	Wire Termination	144.00	0.75 E	109.08	0.15 E	21.60
--- COR 20 Install Blower DO Endo Total ---				1,497.57		157.09
Job Total				1,497.57		157.09

* Target, Labor column 3, 1% Unit Price Factor

Laurel WWTP CO

Totals (Detailed) - Bid Summary: CO20 Install Blower DO and ORB

Job Number 608
 Bid Date 10/28/2013
 Bid Time 3:04:00 PM
 Square Footage 0

Material Totals

Division	Total	Factor	Extended
COR 20 Install Blower DO Endo	\$1,497.57	0.00 %	\$1,497.57
Total	\$1,497.57		\$1,497.57

Quoted Material

8143 - Mount Device	12.00	\$0.00	\$0.00
8 - Instrumentation (Supplier #1)			\$0.00
Total			\$0.00

Total Material \$1,497.57

Labor Hours

Division	Total	Factor	Extended
COR 20 Install Blower DO Endo	157.09	0.00 %	157.09
Total	157.09		157.09

Labor Rates

Category	% of Total	Hours	Base Rate	Burden \$	Burden %	Extended
532	100.000	157.090	\$70.00	0.00	0.000	\$10,996.30
Total	100.000	157.090	x \$70.00 (average of labor rate w/burden) =			\$10,996.30

Non-Productive Labor

Description	Hours	Rate	Factor	Extended
Total				\$0.00

Total Labor \$10,996.30

Tools and Miscellaneous Materials

Description	Total
Tools and Miscellaneous Materials (Lump sum)	\$250.00

Laurel WWTP CO
Totals (Detailed) - Bid Summary: CO20 Install Blower DO and ORB

Job Subtotal (Prime Cost)	\$12,743.87
Overhead (0.00%)	0.00
Profit (10.00%)	1,274.39
Sales Tax (0.00%)	0.00
Job Total	\$14,018.26
Actual Bid Price	\$14,018.26
Material to Direct Labor ratio: 0.12	
Prime Cost per square foot	\$0.00
Job Total per square foot	\$0.00
Actual Bid Price per square ft	\$0.00
Labor cost per square foot	\$0.00
Labor hours per square foot	0.00
Gross Profit %	9.09
Gross Profit \$	\$1,274.39
Net Profit %	\$9.09

LAUREL WWTP
 FL Line To The Headworks

BWC
 Date: 4-28-15

I

Materials

Description	Unit	Quantity	Cost (NWP)
Bedding Rock	yd	6	\$44.70
6" DI pipe	ft	12	\$294.48
6" DI pipe 6" DI Cap	ea	1	\$71.78
6" DI 45	ea	2	\$358.92
6" MJ Accessories	ea	5	\$221.70
#410 Link Seals	ea	7	\$52.15

Labor

Description	Unit	Quantity	Cost
Superintendent	hr	10	\$450.00
Carpenter	hr	12	\$519.84
Operator	hr	10	\$414.70

Equipment

Description	Unit	Quantity	Cost
PC 50	hr	6	\$136.98
Wacker Double Drum	hr	3	\$19.50
Komatsu 380 Loader	hr	2	\$109.72
Core Drill	hr	3	\$105.00
Demo Saw	hr	2	\$50.00

Sub- Contractors

Description	Unit	Quantity	Cost
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Subtotal			\$2,849.47
Markup			\$484.41
TOTAL			\$3,333.88

J

LAUREL WWTP
Hook Credit

BWC
Date: 4-28-15

Materials

[REDACTED]

Labor

[REDACTED]

Equipment

[REDACTED]

Sub- Contractors

[REDACTED]

Material Flow	\$935.00	1 LS	\$935.00
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Subtotal			\$935.00
Markup			\$65.45
TOTAL			<hr/> \$1,000.45

K

LAUREL WWTP

Thickener Re-Pipe & WAS Pump Adjustment

BWC

Date: 4-28-15

Materials

Materials					
4" DI Pipe CI 52 Grooved and Primed	\$13.34	ft	40		\$533.60
4" DI Grooved 90	\$76.30	ea	3		\$228.90
4" DI Grooved Tee	\$114.53	ea	4		\$458.12
4" DI Grooved Cap	\$43.37	ea	1		\$43.37
4" DI Vic Flg. Adpt.	\$82.94	ea	6		\$497.64
4" Vic Cplg.	\$47.37	ea	14		\$663.18
4" x 1" Tapped Cap	\$47.58	ea	3		\$142.74
4" x 1 1/2" Machined Steel Spacer	\$109.83	ea	1		\$109.83
4" Flg. Bolt & Gasket Set	\$13.24	ea	3		\$39.72
Flushing Connection	\$28.50	ea	3		\$85.50
4" Clevis Hangers & Rods	\$43.05	ea	4		\$172.20
Siesmic Braces	\$257.63	ea	2		\$515.26
Misc. Material	\$55.00	LS	1		\$55.00
Freight	\$350.00	LS	1		\$350.00
WAS pumps parts	\$300.00	LS	1		\$300.00
Freight	\$62.00	LS	1		\$62.00

Labor

Labor					
Superitendant - Piping	\$45.00	hr	4		\$180.00
Laborer - Piping	\$34.46	hr	21		\$723.66
Carpenter - Piping	\$43.32	hr	21		\$909.72
Superitendant - WAS	\$45.00	hr	6		\$270.00
Operator - WAS	\$43.32	hr	12		\$519.84
Carpenter - WAS	\$41.47	hr	12		\$497.64

Equipment

Equipment					
Manlift	\$48.41	hr	8		\$387.28
Vic Machine	\$45.00	hr	6		\$270.00

Sub- Contractors

Sub- Contractors					
T&L Painting	\$450.00	ls	1		\$450.00

Subtotal					\$8,465.20
Markup					\$1,439.08
TOTAL					<u>\$9,904.28</u>

Barry Curtis

From: Roxanne Leibrand [roxannewb1@gmail.com]
Sent: Friday, April 17, 2015 3:23 PM
To: 'Barry Curtis'
Subject: FW: Service Call Estimate- Laurel, MT

So they are saying parts \$300 and labor not to exceed \$3000. See warranty comment below for us doing the work. What do you want to do?

Roxanne Leibrand | Project Engineer

*Williams Brother Construction, LLC
Roxanne@WBCLLC.com
406-259-9395 Phone
406-248-6695 Fax*

From: nathan.farish@weirgroup.com [<mailto:nathan.farish@weirgroup.com>]
Sent: Friday, April 17, 2015 3:21 PM
To: CDaly
Cc: Dale McBain; matt.sheppick@weirgroup.com; 'Roxanne Leibrand'
Subject: RE: Service Call Estimate- Laurel, MT

The warranty on the pumps cover material in defects and workmanship. As long as the component's are OEM purchased and it is just changing belts and sheaves not disassembling the pump then the warranty remains intact. If any failure or damage were to arise and it was found to be due to improper installation or alignment of the belts or sheaves then there would be no warranty coverage allowed.

Nate

Nathan Farish
Customer & Technical Service
Weir Specialty Pumps
440 West 800 South SLC Utah 84101-2229
T: 801-530-7515
F: 801-530-7531
E: nathan.farish@weirgroup.com
W: www.weirsp.com

From: "CDaly" <CDaly@Apsco-inc.com>
To: "Roxanne Leibrand" <roxannewb1@gmail.com>, <nathan.farish@weirgroup.com>
Cc: "Dale McBain" <dmc Bain@apsco-llc.com>, <matt.sheppick@weirgroup.com>
Date: 04/17/2015 03:08 PM
Subject: RE: Service Call Estimate- Laurel, MT

Hi Roxanne,

With Matt out I am forwarding this to Nate Farish at Wemco.

---Clay

From: CDaly [<mailto:CDaly@Apsco-inc.com>]
Sent: Friday, April 17, 2015 2:06 PM
To: 'Roxanne Leibrand'; matt.sheppick@weirgroup.com
Cc: Dale McBain
Subject: RE: Service Call Estimate- Laurel, MT

Hi Roxanne,

I am forwarding this question to Matt Sheppick at Wemco as this would be the Factory's decision what voids their warranty. I believe he is familiar with the background on this project and what parts would be replaced to accommodate the speed change.

Resp,

---Clay

From: Roxanne Leibrand [<mailto:roxannewbc1@gmail.com>]
Sent: Friday, April 17, 2015 1:58 PM
To: 'CDaly'
Subject: RE: Service Call Estimate- Laurel, MT

If we purchased the parts and installed them ourselves would it void warranty on the pumps?

Roxanne Leibrand | Project Engineer

*Williams Brother Construction, LLC
Roxannel@WBCLLC.com
406-259-9395 Phone
406-248-6695 Fax*

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**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

1-A VFD Upgrade In Size		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Quote includes no labor. Only upgrade in equipment		

1-B Power For HV Valves		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	5	7
GWE - Days Calculated By Analysis	2.5	3.5
Analysis		
Work not completed. Quote for this work is 41 man hours or 20 crew hours using a two man crew. It is possible this work could be removed from the scope.		

1-C Relocate Switchgear		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Credit includes 49 man hours		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

1-D Move Composite Sampler		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Work completed at no additional cost.		

1-E Resize Generator Pad		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Credit includes 18 man hours		

1-F Move Generator Pad		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	1	1.4
GWE - Days Calculated By Analysis	0.5	0.7
Analysis		
The quote to do this work shows a total 6 man hours or 3 crew hrs for 2 men to.		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

2 - A Seal Secondary Baffles		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	1	1.4
Analysis		
<p>The quote to do this work shows a total 28 man hours or 14 crew hrs for 2 men. Considering the work had to be done on separate days because only on clarifier could be taken down at a time use 1 total day.</p>		

2-B Pressure Meters for Pumps P-4401&2		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	1	1.4
GWE - Days Calculated By Analysis	1	1.4
Analysis		
<p>Work included both WBC & CEI.</p>		

2-C UV Grating		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
<p>Quote includes no labor. Only upgrade in Grate</p>		

WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade

2-D Field Directive 1 (UV Side Walk Adjustment)		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	0.5	0.7
Analysis		
The T&M to do this work shows a total 13 man hours or 4 crew hours for 3 men.		

2-E SL Line T&M (Plan Discrepancy Between lines)		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	3	4.2
GWE - Days Calculated By Analysis	1	1.4
Analysis		
The T&M to do this work shows a total 30 man hrs or 8 crew hrs for 4 men.		

2-F RFI #15		
	Work Days	Calendar Days
WBC - Days Requested By Contractor (CEI)	0	0
GWE - Days Calculated By Analysis	0.5	0.7
Analysis		
Quote includes 6 man hours		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

2-G RFI #16		
	Work Days	Calendar Days
WBC - Days Requested By Contractor (CEI)	0	0
GWE - Days Calculated By Analysis	0.5	0.7
Analysis		
Quote includes 6 man hours		

3-A Generator Room Door		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	1	1.4
Analysis		
Quote includes 11 man hours with 1 man working full time and assistance from another during install and removal.		

3-B Replace Pipe Through Digester Wall		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Credit includes an increase in man hours by 4. The credit is due to changes in material required.		

WBC Time Extension Request Analysis
 Laurel WWTP BNR Upgrade

3-C Electrical Building Doors		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	1	1.4
Analysis		
Quote for this work includes 16 man hours or 8 crew hours for a 2 man crew.		

3-D Site Plan Revisions		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Credit does not quantify changes in labor hours.		

3-E Mixed Liquor		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	1	1.4
GWE - Days Calculated By Analysis	0.5	0.7
Analysis		
Quote for this work includes 12 man hours or 4 crew hours for a 3 man crew.		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

3-F Move Water Heater WH-2		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	1	1.4
Analysis		
Quote for this work includes 12 man hours or a 6 crew hours for 2 men.		

3-G Hoist Power in Thickener Building		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	3	4.2
GWE - Days Calculated By Analysis	2.5	3.5
Analysis		
Quote includes 40 man hours or a 20 crew hours for 2 men.		

3-H Gas Line/Storm Delay		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	2	2.8
Analysis		
Springline was unable to work for 4 days while waiting MDU. This impacted WBC's ability to access the site for deliveries.		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

3-J Primary Effluent		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	4	5.6
GWE - Days Calculated By Analysis	2	2.8
Analysis		
<p>Issues with corroded primary line discovered on 10/14 at approximately 2:00pm. WBC temporarily repaired line with pvc so CEI could cross with conduit. Repair completed 10/15 at approximately 2:00pm. 1 day lost to repair . Quote to swap DIP for PVC and new profile includes 12 man hours for additional fittings added. 1 day for additional work.</p>		

4-A Misc Mechanical Changes		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	1	1.4
GWE - Days Calculated By Analysis	1	1.4
Analysis		
<p>Not broken out in mechanical quote, considering all mechanical changes to gas lines and blower building manifold 1 day is reasonable</p>		

4-B Additional RAS Valves		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	1	1.4
Analysis		
<p>The quote for this work includes a total of 16 man hours or 8 crew hours for a 2 man crew. The installation of these valves should help with the switch over to the RAS lines from the bypass. Two valves would total 1 of a work day.</p>		

WBC Time Extension Request Analysis
 Laurel WWTP BNR Upgrade

4-C Additional SL Valves		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	2	2.8
Analysis		
<p>The quote for this work includes a total of 20 man hours or 10 crew hours for a 2 man crew. Given that this work will require the secondary clarifiers to be drained one at a time the request for two days is reasonable.</p>		

4-D Conduit Repair		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	4	5.6
GWE - Days Calculated By Analysis	2	2.8
Analysis		
<p>Work not completed. Quote includes 51 man hours and while assuming an average crew size of 3 for 8 hours a day between CEI and WBC.</p>		

4-E Air Dryer Circuits		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	1	1.4
Analysis		
<p>The quote to complete this work is shown as LS and does not break out man hours making it difficult to quantify. During the installation of this work CEI had an average crew of 6 men on site and in a 8hr day totaling 48 man hours. If the work had taken 3 days for one man or 24 man hours the cost would be approximately 1/2 the total bill.</p>		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

5-A Septage Dump Station		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Extra time approved in CO 5		

Temporary RAS Reroute		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	10	14
GWE - Days Calculated By Analysis	4	5.6
Analysis		
The quote to complete this work includes a total of 60 man hours or 30 crew hours using a 2 man crew over 4 days total install/removal.		

6-B RAS Air Release		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0.5	0.7
Analysis		
Quote includes 4 man hours		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

6-C Water @ Hypochlorite Room		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	1	1.4
Analysis		
<p>Work has not been completed and could be considered to not be part of the critical path. The quote to do this work shows a total 8 man hours or 4 crew hours for 2 men and a Stephens bros LS.</p>		

6-D Seal Thickener Floor		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
<p>Lump sum credit</p>		

6-E RBC Drain Valves		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	1	1.4
GWE - Days Calculated By Analysis	1	1.4
Analysis		
<p>Quote Includes 14 man hours or 7 crew hours for a 2 man crew. Original quote included a request for 3 additional days to replace the valves.</p>		

**WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade**

6-F Slide Gate Supports		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0.5	0.7
Analysis		
Quote Includes 6 man hours or 3 crew hours for a 2 man crew.		

6-G Connect Hand Valves In Blower to Scada		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	2	2.8
GWE - Days Calculated By Analysis	1	1.4
Analysis		
This CO is for additoanl work not included in CO 1-B power to hand valves. The CO is so the valves can be ran by the SCADA system.		

6-H DO & ORP & Flow Meters Enclosures		
	Work Days	Calendar Days
CEI - Days Requested By Contractor	6	8.4
GWE - Days Calculated By Analysis	0	0
Analysis		
Work is not part of the critical path and can be completed as part of final completion.		

WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade

6-I Reroute FL From MH to Headworks		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	1	1.4
Analysis		
Work to be completed T&M. Work not completed at this time.		

6-J Thickener Hoist Hooks		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Lump sum credit		

6-K Piping And Pump Modifactions For RDT		
	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	5	7
Analysis		
Quote Includes 42 man hours or 21 crew hours for a 2 man crew. Include two additional days for pump and thickener rep start up.		

WBC Time Extension Request Analysis
Laurel WWTP BNR Upgrade

6-L Anaerobic Davit Crane

	Work Days	Calendar Days
WBC - Days Requested By Contractor	0	0
GWE - Days Calculated By Analysis	0	0
Analysis		
Lump sum credit		

	Work Days	Calendar Days
WBC - Total Requested Time	33	46.2
GWE - Days Calculated (WBC) *SEE NOTES*	16	22.4
CEI - Total Requested Time	25	35
GWE - Days Calculated (CEI) *SEE NOTES*	11	15.4
GWE - Days Worked During Winter Shutdown (CEI)	-8	-11.2
GWE - Additional Days Added Not Requested By WBC	11.5	16.1
WBC - Total Requested Time	58	81.2
GWE - Total WBC&CEI Calculated	30.5	42.7

CEI Notes

CEI on average had 2 men on site for the project and currently only 1 man working the last couple weeks. CEI also worked 8 days over the 2014 holidays (12/22 - 1/2) while the job was under winter shutdown and no contract time was being charged. These days are represented in the total requested as a deduct.

WBC Notes

WBC the last 4 weeks has only worked on site 36 crew hours a week (1/12 - 2/6)