COUNCIL ACTION FORM

SUBJECT: CHANGE ORDER – WATER POLLUTION CONTROL FACILITY STRUCTURAL REHABILITION PROJECT PHASE 2

BACKGROUND:

On June 12, 2018 the City Council awarded a construction contract to Minturn, Inc. of Brooklyn, Iowa for structural improvements to the Water Pollution Control Facility (WPCF) in the amount of \$558,600.

As construction has progressed, several items have been identified that need to be addressed and would result in a change to the contract. One previous change has been authorized by the Department Head in accordance with the City's Purchasing Policies, for an increase of \$22,230.

An additional change order is now needed. Below is a breakdown of what is included in Change Order 2.

Repair Two Existing Valve Cans

During the demolition and placement of new concrete sidewalks on site, two valve cans were found that were damaged beyond repair. The contractor replaced the damaged valve cans with new. **The total cost of this item is \$730.**

Storm Drain Revisions

Drain basins require upsizing from original design to accommodate the existing roof drains on site. **The total cost for this item is \$790.**

River Rock Surfacing

Additional river rock to be added around the Primary Clarifiers in areas of poor site drainage. The total cost for this item is \$3,350.

Trickling Filter Revisions

Additional repairs to the structure to minimize future concrete deterioration related to water damage (freeze/thaw). The repairs include the following:

- 1. Replace missing grout below tees and beyond shims (\$4,090.00)
- 2. Install waterstop in horizontal and vertical joints behind new concrete fillets (\$22,310)
- 3. Remove and replace sealant on interior of trickling filter parapet walls (\$5,530)

The total cost for this item is \$31,930.

The total cost for the change order is \$36,800. The costs for each of the items have been reviewed by staff and HDR Engineering and determined to be reasonable. The summary of change orders for the project is shown below. A copy of the change order and documentation is attached.

Original Contract Amount		\$558,600
Change Order 1		
Trickling Filter – Concrete Fillet Repair	5,280	
Trickling Filter – Precast Tee Bearing Repair	6,090	
Trickling Filter – Precast Connection Repair	1,980	
Trickling Filter – Masonry Column Repair	8,880	
		\$22,230
Change Order 2		
Valve Can Replacement	730	
Drain Revisions	790	
River Rock Surfacing	3,350	
Trickling Filter – Replace Grout at Tees/Shims	4,090	
Trickling Filter – Install Waterstop (Horz. Joint)	22,310	
Trickling Filter - Remove/Replace Interior Joints	5,530	
		\$36,800
Revised Contract Amount		\$617,630

The revised project budget is as follows.

Expenses	
Engineering	\$ 148,107
Original Contract	\$ 558,600
Change Order #1	\$ 22,230
Change Order #2 (This action)	\$ 36,800
Total Encumbered Expenses	\$ 765,737
Authorized Funding (FY 18/19 CIP, pg. 66)	\$ 1,113,000
Remaining Balance (after this Change Order)	\$347,263

ALTERNATIVES:

- 1. Approve Change Order Number 2 in the amount of \$36,800 to Minturn, Inc. of Brooklyn, Iowa.
- 2. Do not approve the change order at this time.

MANAGER'S RECOMMENDED ACTION:

Additional work that was not included in the original scope of the construction contract has been identified. The changes proposed are to improve the expected life and function of various structures at the Water Pollution Control Facility. The consulting engineers, City staff, and Minturn have worked together to come up with reasonable, cost effective recommendations. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative 1 as described above.



CHANGE ORDER NO. 2

CONTRACT / BID NO: 2018-163
PURCHASE ORDER NO: 55717

September, 2018

	Ames Water Pollution Control Facility Structural
Project:	Rehabilitation Phase 2

Contractor Name:	Minturn, Inc.	(Change Orders A	ppro	oved to Date:
Address:	144 W. Front St.	1	\$22,230.00	3	
City, State, & Zip Code:	Brooklyn, IA 52211	2		4	

ACTION	DESCRIPTION	COST
1	Repair Two Existing Valve Cans (Area B)	\$730.00
2	Nyloplast Drain Revisions	\$790.00
3	Additional River Rock Surfacing	\$3,350.00
4	 Trickling Filter Revisions – Additional to repairs described in the drawings to minimize future water damage to the structure. Replace missing grout below tees and beyond shims (\$4,090.00) Install waterstop in horizontal and vertical joints behind new concrete fillets (\$22,310) Remove and replace sealant on interior of trickling filter parapet walls (\$5,530) 	\$31,930.00
	TOTAL AMOUNT - CHANGE ORDER #2	\$36,800.00
	Additional Working Days	15
	Revised Contract Completion date	11/30/18

Contract Price:

Original contract price:	\$558,600.00
Change orders approved to date:	\$22,230.00
Amount of this change order:	\$36,800.00
Adjusted contract price including this change order:	\$617,630.00

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Accepted for (Company Name):	Minturn, Inc.	Recommended for City of Ames Ap (Usually the Department Head)	proval:
	9/19/18		
Signature	Date	Signature	Date
Printed Name & Title:		City of Ames Approval (Mayor):	
		(If Change Order puts changes over	r \$50,000)
Gregory J. Menke, Project Mar	nager		
		Signature	Date



August 1, 2018

City of Ames 515 Clark Avenue Ames, IA 50010

Attn: Neil Weiss, P.E.

RE: WPCF STRUCTURAL REHABILITATION PHASE 2

AMES, IOWA PROPOSAL.02

Dear Mr. Weiss.

Enclosed is a cost breakdown for the additional work required to repair 2 existing valve cans in Area B as requested by the City of Ames.

Please issue a change order as shown above in the amount of seven hundred thirty dollars and no cents (\$730.00) for the additional work required. A contract time extension will not be required.

Please don't hesitate to call if you have any questions, need additional information, or would like to discuss this matter further.

Sincerely,

Gregory J. Menke Project Manager

Enclosures: Cost breakdowns for Proposal.02 (1 page)

Municipal Supply invoice (1 page)

PROPOSAL.02
DESCRIPTION OF WORK: REPAIR 2 EXISTING VALVE CANS IN AREA B

	1		UNIT		
DESCRIPTION	QUANTITY	UNIT	PRICE	EXTENSION	TOTAL
LABOR					
SUPERINTENDENT	3	HR	\$37.50	\$113	
PIPE LAYER	3	HR	\$22.50	\$68	
LABORER	3	HR	\$21.50	\$65	
OT PREMIUM (TOTAL HRS/5)*(AVE WAGE/2)	2	HR	\$13.58	\$24	
TOTAL LABOR		<u> </u>		<u> </u>	\$269
TOTAL LABOR BURDEN @ 53%					\$143
				<u> </u>	·
EQUIPMENT					
3/4 TON PICKUP	3	HR	\$15.00	\$45	
TOTAL EQUIPMENT					\$45
MATERIAL					
MUNICIPAL SUPPLY	1	LS	\$166.00	\$166	
TOTAL MATERIAL					\$166
SUBCONTRACT					
NA		LS		\$0	
TOTAL SUBCONTRACT				<u> </u>	\$0
TOTAL SUBCONTRACT					Φ 0
OTHER					
NA NA	<u> </u>	LS		\$0	
IVA				ΨΟ	
TOTAL OTHER	<u> </u>	<u> </u>			\$0
				<u> </u>	·
TOTAL LABOR, EQUIPMENT, MATERIAL, SUBC	ONTRACT, AND	OTHER			\$622
TOTAL CONTRACTOR'S FEE @ 15%					\$93
SUBTOTAL					\$716
TOTAL BOND & INSURANCE @ 2%					\$14
TOTAL					\$730



MUNICIPAL SUPPLY, INC.

Municipal, Contractor, and Industrial Supplies

1550 N.E. 51st Avenue Des Moines, Iowa 50313 PH: (515) 262-1300 FAX: (515) 262-6662 WATS (800) 747-2025

> 1808-019500-O \$166.00 (no tax) GJM

INVOICE NUMBER: 0698594-IN INVOICE DATE: 7/17/2018

ORDER NUMBER: 0533938 ORDER DATE: 7/13/2018 SHIP DATE: 7/13/2018

SALESPERSON: HOUSE ACCOUNT

CUSTOMER NO: 10-MINTINC

SOLD TO: MINTURN, INC. 309 N. ORCHARD STREET BROOKLYN, IA 52211 SHIP TO:

MINTURN, INC.

309 N. ORCHARD STREET BROOKLYN, IA 52211

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CUSTOMER P.O.	JOB NAME 1808			SHIP VIA WC	TERM NET	IS 30 DAYS
ITEM NO.	UNIT	ORDERED	SHIPPED	BACK ORD	PRICE	AMOUNT
144953 26T SCREW VLV BOX	EACH TOP 112426	2.00	2.00	0.00	83.000	166.00

ORDER# 533938

 Net Invoice:
 166.00

 Freight:
 0.00

 Sales Tax:
 9.96

Invoice Total:

175.96



August 6, 2018

City of Ames 515 Clark Avenue Ames, IA 50010

Attn: Neil Weiss, P.E.

RE: WPCF STRUCTURAL REHABILITATION PHASE 2

AMES, IOWA PROPOSAL.03

Dear Mr. Weiss.

Enclosed is a cost breakdown for the additional cost associated with supplying 12" drain basins instead of 8" drain basins for Catch Basins 5 and 6 on Sheet C110. The 8" drain basins required are not large enough to accommodate 6" pipes at 90 degrees.

Please issue a change order as shown above in the amount of seven hundred ninety dollars and no cents (\$790.00) for the additional cost required.

Please don't hesitate to call if you have any questions, need additional information, or would like to discuss this matter further.

Sinderely,

Gregory J. Menke Project Manager

Enclosures: Cost breakdowns for Proposal.03 (1 page)

Brown Supply proposal (1 page)

PROPOSAL.03
DESCRIPTION OF WORK: NYLOPLAST DRAIN REVISIONS

			UNIT	П	
DESCRIPTION	QUANTITY	UNIT	PRICE	EXTENSION	TOTAL
				<u> </u>	
LABOR					
NA		LS		\$0	
					40
TOTAL LABOR BURDEN @ 500					\$0
TOTAL LABOR BURDEN @ 53%					\$0
EQUIPMENT					
NA NA		LS		\$0	
				ΨΟ	
TOTAL EQUIPMENT	<u> </u>	<u> </u>		<u> </u>	\$0
				-1-	:1
MATERIAL					
BROWN SUPPLY - 8" DRAIN BASIN (CB5)	(1)	LS	\$298.00	(\$298)	
BROWN SUPPLY - 12" DRAIN BASIN (CB5)	1	LS	\$635.00	\$635	
BROWN SUPPLY - 8" DRAIN BASIN (CB6)	(1)	LS	\$298.00	(\$298)	
BROWN SUPPLY - 12" DRAIN BASIN (CB6)	1	LS	\$635.00	\$635	
				<u> </u>	
TOTAL MATERIAL					\$674
SUBCONTRACT					
NA NA		LS		\$0	
IVA		1 23		φυ	
TOTAL SUBCONTRACT	<u> </u>	<u> </u>			\$0

OTHER					
NA		LS		\$0	
TOTAL OTHER					\$0
TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCO	NTRACT, AND	OTHER			\$674
TOTAL CONTRACTOR'S FEE @ 15% SUBTOTAL				11	\$101
TOTAL BOND & INSURANCE @ 2%					\$775 \$16
TOTAL BOND & INSURANCE @ 2%				ī	\$16 \$790
101/12					Ψ130

Brown Supply Co. - Ames Branch

23937 580th Ave Ames, IA 50010 PH: 1-515-233-2245

Fax: 1-515-233-2676

Project: Ames Pollution Control Facility Structrual

Location: Ames, Iowa Engineer: HDR Engineering Phone # (515) 280-4940 Bid Date: 5/23/18 2:00 PM

Quotation

uantity	Description	Unit	Price	Total
	Storms Course with a sould Darly Darly Darly			
	Storm Sewer pipe and Drain Basins (verify n			
1	8" Drain Basin 10' Tall w/ Solid Lid CB-5	EA	298.00	\$298.00
1	10" Drain Basin 10' Tall w/ Solid Lid CB-6	EA	415.00	\$415.00
3	12" Drain Basin 10' Tall w/ Solid Lid CB-7,8,10	<u>EA</u>	635.00	\$1,905.00
1	12" Drain Basin 5' Tall w/ Solid Lid CB-9	EA	493.00	\$493.00
1	12" Drain Basin 5' Tall w/ Std Grate CB-11	EA	493.00	\$493.00
4	18" Drain Basin 10' Tall w/ Std Grate CB-1,2,3,4	<u>EA</u>	930.00	\$3,720.00
1	24" Drain Basin 10' Tall w/ Solid Lid WQ3	EA	1160.00	\$1,160.00
1	24" Drain Basin 5' Tall w/ Solid Lid WQ2	EA	1040.00	\$1,040.00
1	24" Drain Basin Square Weir 5' Tall w/ Solid Lid WQ1	EA	1830.00	\$1,830.00
1	30" Drain Basin 10' Tall w/ Solid Lid WQ4	EA	2040.00	\$2,040.00
580	6" x 20' N12 Hwy WT IB Solid	LF	1.90	\$1,102.00
240	12" x 20' N12 Hwy WT IB Solid	LF	5.90	\$1,416.00
6	6" N12 WT 90 Degree Bend	EA	22.80	\$136.80
6	6" x 6" x 6" DownSpout Adapter	EA	58.00	\$348.00
			Bid Item Total	\$16,396.80
	Storm Champre (varify material needed)			
5	Storm Chamers (verify material needed) Storm Chamber SC310	ΕA	129.00	\$645.00
5	Storm Chamers (verify material needed) Storm Chamber SC310 Storm Chamber End Cap SC310EPE	EA EA	129.00 38.00	\$645.00 \$76.00
	Storm Chamber SC310		38.00	\$76.00
2	Storm Chamber SC310 Storm Chamber End Cap SC310EPE	EA EA		\$76.00 \$680.00
2 4	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B	EA EA EA	38.00 170.00 450.00	\$76.00 \$680.00 \$450.00
2 4 1	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK	EA EA EA	38.00 170.00 450.00 450.00	\$76.00 \$680.00 \$450.00 \$450.00
2 4 1	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid	EA EA EA EA LF	38.00 170.00 450.00 450.00 5.90	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00
2 4 1 1 20	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK	EA EA EA	38.00 170.00 450.00 450.00	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00
2 4 1 1 20 4	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf	EA EA EA EA LF EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00
2 4 1 1 20 4 80	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling	EA EA EA EA LF EA LF	38.00 170.00 450.00 450.00 5.90 11.00	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$45.00
2 4 1 1 20 4 80 3	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend	EA EA EA LF EA LF	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$45.00 \$16.00
2 4 1 1 20 4 80 3 1	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee	EA EA EA LF EA LF EA LF EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$45.00 \$16.00 \$10.00
2 4 1 1 20 4 80 3 1	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box 6" SDR into Chamber Inserta Tee Hole Saw	EA EA EA LF EA LF EA LF EA EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$45.00 \$16.00
2 4 1 1 20 4 80 3 1 2 1 2 2 2 8	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box	EA EA EA LF EA LF EA LF EA LF EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00 40.00	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$16.00 \$10.00 \$40.00 \$250.00
2 4 1 1 20 4 80 3 1 2	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box 6" SDR into Chamber Inserta Tee Hole Saw	EA EA EA LF EA LF EA EA EA EA EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00 40.00 125.00	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$16.00 \$10.00 \$40.00
2 4 1 1 20 4 80 3 1 2 1 2 2 2 8	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box 6" SDR into Chamber Inserta Tee Hole Saw 6" SDR 35	EA EA LF EA LF EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00 40.00 125.00 1.85	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$16.00 \$10.00 \$40.00 \$51.80
2 4 1 1 20 4 80 3 1 2 1 2 2 2 28	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box 6" SDR into Chamber Inserta Tee Hole Saw 6" SDR 35	EA EA LF EA LF EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00 40.00 125.00 1.85 370.00	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$16.00 \$10.00 \$250.00 \$51.80 \$740.00
2 4 1 1 20 4 80 3 1 2 1 2 2 2 8	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box 6" SDR into Chamber Inserta Tee Hole Saw 6" SDR 35 12" x 6" SDR Inline Drain Basin Inspection Port	EA EA LF EA LF EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00 40.00 125.00 1.85 370.00 Bid Item Total	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$118.00 \$44.00 \$84.00 \$16.00 \$10.00 \$40.00 \$51.80 \$740.00 \$3,699.80
2 4 1 1 20 4 80 3 1 2 1 2 2 2 8	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box 6" SDR into Chamber Inserta Tee Hole Saw 6" SDR 35 12" x 6" SDR Inline Drain Basin Inspection Port Misc. Silt Fence	EA EA EA LF EA ANY	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00 40.00 125.00 1.85 370.00 Bid Item Total	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$16.00 \$10.00 \$250.00 \$51.80 \$740.00 \$3,699.80
2 4 1 1 20 4 80 3 1 2 1 2 2 2 8	Storm Chamber SC310 Storm Chamber End Cap SC310EPE Chamber End Cap w/ 12" Bottom Stub SC310EPE12B 15' x 300' Filter Fabric Roll 0601TS 12.5' x 260' Filter Fabric Roll 315WTK 12" N12 Hwy ST IB Solid 12" Spilt Coupling 4" N12 Hwy ST IB Perf 4" N12 St 45 Degree Bend 4" N12 ST Tee 4" Snap Cap 6" Staple Box 6" SDR into Chamber Inserta Tee Hole Saw 6" SDR 35 12" x 6" SDR Inline Drain Basin Inspection Port	EA EA LF EA LF EA	38.00 170.00 450.00 450.00 5.90 11.00 1.05 15.00 16.00 5.00 40.00 125.00 1.85 370.00 Bid Item Total	\$76.00 \$680.00 \$450.00 \$450.00 \$118.00 \$44.00 \$84.00 \$16.00 \$10.00 \$40.00 \$250.00 \$51.80 \$740.00 \$3,699.80

Project Total

\$20,096.60



August 13, 2018

City of Ames 515 Clark Avenue Ames, IA 50010

Attn: Neil Weiss, P.E.

RE: WPCF STRUCTURAL REHABILITATION PHASE 2

AMES, IOWA PROPOSAL.04

Dear Mr. Weiss,

Enclosed is a cost breakdown for the additional work required to add river rock around the primary clarifiers in the areas shown on the attached drawing as requested by the City of Ames.

Please issue a change order as shown above in the amount of three thousand three hundred fifty dollars and no cents (\$3,350.00) for the additional cost required.

Please don't hesitate to call if you have any questions, need additional information, or would like to discuss this matter further.

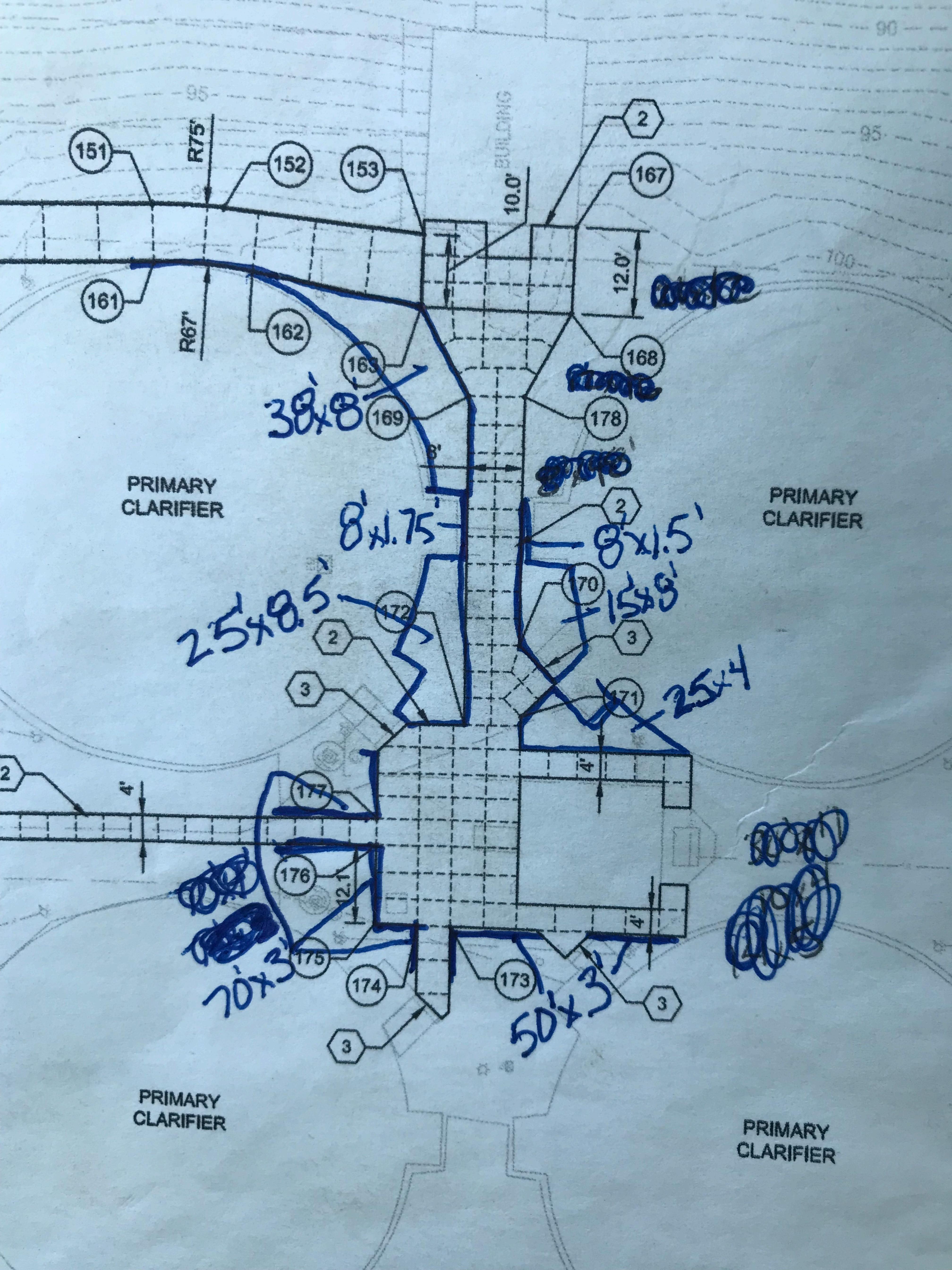
Sincerely,

Gregory J. Menke Project Manager

Enclosures: Cost breakdown for Proposal.04 (1 page)

Drawing (1 page)

SUPERINTENDENT 5	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION	TOTAL	
SUPERINTENDENT 5	DESCRIPTION	QUANTITY	UNII	PRICE	EXTENSION	IOTAL	
OPERATOR 10 HR \$23.50 \$235 PIPE LAYER 10 HR \$21.50 \$215 LABORER 10 HR \$21.50 \$215 OT PREMIUM (TOTAL HRS/5)*(AVE WAGE/2) 7 HR \$12.18 \$85 TOTAL LABOR \$35 TOTAL LABOR BURDEN @ 53% \$45 EQUIPMENT SKID LOADER 10 HR \$45.00 \$450 3/4 TON PICKUP 5 HR \$15.00 \$75 TOTAL EQUIPMENT \$55 MATERIAL CONSTRUCTION MATERIALS - GEOFABRIC 0.5 EA \$400.00 \$200 HALETT MATERIALS - 2" RIVER ROCK 20 TON \$35.00 \$700 TOTAL SUBCONTRACT NA LS \$0 TOTAL SUBCONTRACT \$0 TOTAL CONTRACTOR'S FEE @ 15% \$4.2 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$3,28	LABOR						
PIPE LAYER	SUPERINTENDENT	5	HR	\$37.50	\$188		
LABORER	OPERATOR	10	HR	\$23.50	\$235		
OT PREMIUM (TOTAL HRS/5)*(AVE WAGE/2)	PIPE LAYER	10	HR	\$21.50	\$215		
TOTAL LABOR BURDEN @ 53% \$45	LABORER	10	HR	\$21.50	\$215		
SUBCONTRACT SUBCONTRACT SUBCONTRACT, AND OTHER SUBCONTRACT S	OT PREMIUM (TOTAL HRS/5)*(AVE WAGE/2)	7	HR	\$12.18	\$85		
EQUIPMENT SKID LOADER 10 HR \$45.00 \$450 3/4 TON PICKUP 5 HR \$15.00 \$75 TOTAL EQUIPMENT \$5 MATERIAL CONSTRUCTION MATERIALS - GEOFABRIC 0.5 EA \$400.00 \$200 HALETT MATERIALS - 2" RIVER ROCK 20 TON \$35.00 \$700 TOTAL MATERIAL \$90 SUBCONTRACT NA LS \$0 TOTAL CONTRACT NA LS \$0 TOTAL CONTRACT NA LS \$0 TOTAL OTHER TOTAL CONTRACT SUBCONTRACT SUBCONTRACT NA LS \$0 TOTAL SUBCONTRACT SUBCONTRA	TOTAL LABOR					\$938	
SKID LOADER	TOTAL LABOR BURDEN @ 53%					\$497	
SKID LOADER							
3/4 TON PICKUP	EQUIPMENT						
TOTAL EQUIPMENT	SKID LOADER	10	HR	\$45.00	\$450		
MATERIAL CONSTRUCTION MATERIALS - GEOFABRIC 0.5 EA \$400.00 \$200 HALETT MATERIALS - 2" RIVER ROCK 20 TON \$35.00 \$700 TOTAL MATERIAL \$90 SUBCONTRACT NA LS \$0 TOTAL SUBCONTRACT \$ NA LS \$0 TOTAL OTHER \$ TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$44 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6	3/4 TON PICKUP	5	HR	\$15.00	\$75		
MATERIAL CONSTRUCTION MATERIALS - GEOFABRIC 0.5 EA \$400.00 \$200 HALETT MATERIALS - 2" RIVER ROCK 20 TON \$35.00 \$700 TOTAL MATERIAL \$90 SUBCONTRACT NA LS \$0 TOTAL SUBCONTRACT \$ NA LS \$0 TOTAL OTHER \$ TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$44 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6							
CONSTRUCTION MATERIALS - GEOFABRIC 0.5	TOTAL EQUIPMENT					\$525	
CONSTRUCTION MATERIALS - GEOFABRIC 0.5	MATERIAL						
HALETT MATERIALS - 2" RIVER ROCK	P	0.5	FA	\$400.00	\$200		
TOTAL MATERIAL							
SUBCONTRACT NA LS \$0 TOTAL SUBCONTRACT \$ OTHER NA LS \$0 TOTAL OTHER \$ \$0 TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,26 TOTAL BOND & INSURANCE @ 2% \$6					Ţ1.55		
NA LS \$0 TOTAL SUBCONTRACT \$ OTHER NA LS \$0 TOTAL OTHER \$ \$0 TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6	TOTAL MATERIAL	<u>'</u>				\$900	
NA LS \$0 ITOTAL SUBCONTRACT \$ OTHER NA LS \$0 ITOTAL OTHER \$ \$0 ITOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6							
TOTAL SUBCONTRACT \$ OTHER NA LS \$0 TOTAL OTHER \$ \$ TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$ \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6	SUBCONTRACT						
OTHER NA LS \$0 TOTAL OTHER \$2,86 TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6	NA		LS		\$0		
OTHER NA LS \$0 TOTAL OTHER \$2,86 TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER \$2,86 TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6							
NA LS \$0 TOTAL OTHER SUBTOTAL CONTRACTOR'S FEE @ 15% SUBTOTAL	TOTAL SUBCONTRACT					\$0	
NA LS \$0 TOTAL OTHER SUBTOTAL CONTRACTOR'S FEE @ 15% SUBTOTAL							
TOTAL OTHER	p						
TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER TOTAL CONTRACTOR'S FEE @ 15% SUBTOTAL TOTAL BOND & INSURANCE @ 2% \$2,86 \$42 \$3,28 \$3,28	NA		LS		\$0		
TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER TOTAL CONTRACTOR'S FEE @ 15% SUBTOTAL TOTAL BOND & INSURANCE @ 2% \$2,86 \$42 \$3,28 \$3,28	TOTAL OTHER				<u> </u>	<u>\$0</u> 1	
TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6	TOTAL OTHER					\$0	
TOTAL CONTRACTOR'S FEE @ 15% \$42 SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2% \$6	TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT. AND OTHER						
SUBTOTAL \$3,28 TOTAL BOND & INSURANCE @ 2%							
TOTAL BOND & INSURANCE @ 2%					I	\$3,289	
TOTAL \$3.35						\$66	
101712	TOTAL					\$3,350	





September 16, 2018

City of Ames 515 Clark Avenue Ames, IA 50010

Attn: Neil Weiss, P.E.

RE: WPCF STRUCTURAL REHABILITATION PHASE 2

AMES, IOWA PROPOSAL.05RR

Dear Mr. Weiss.

Enclosed are cost breakdowns for the additional work required to complete the following trickling filter revisions as requested by the City of Ames.

Description	Estimated Quantity	Unit	Unit Price	Amount
Replace missing grout below tees and beyond shims	1	LS	\$4,090.00	\$4,090.00
Install waterstop in horizontal and vertical joints behind new concrete fillets	1	LS	\$22,250.00	\$22,310.00
Remove and replace sealant on interior of trickling filter parapet walls	1	LS	\$5,530.00	\$5,530.00
Total				\$31,930.00

Please issue a change order in the amount of thirty-one thousand nine hundred thirty dollars and no cents (\$31,930.00) if the City of Ames would like to revise the contract as described above. A contract time extension in the amount of 15 calendar days will also be required.

Please don't hesitate to call if you have any questions, need additional information, or would like to discuss this matter further.

Sincerely

Gregory J. Menke Project Manager

Enclosures: Cost breakdowns for Proposal.05RR (3 pages)

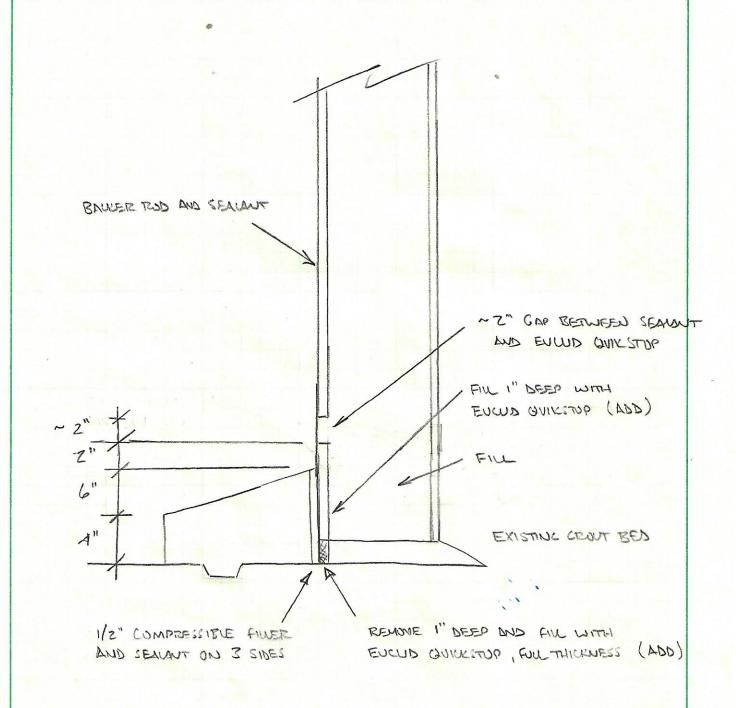
Drawings describing revisions (2 pages)

HD Supply quote and Euclid Speedstop product data (3 pages)

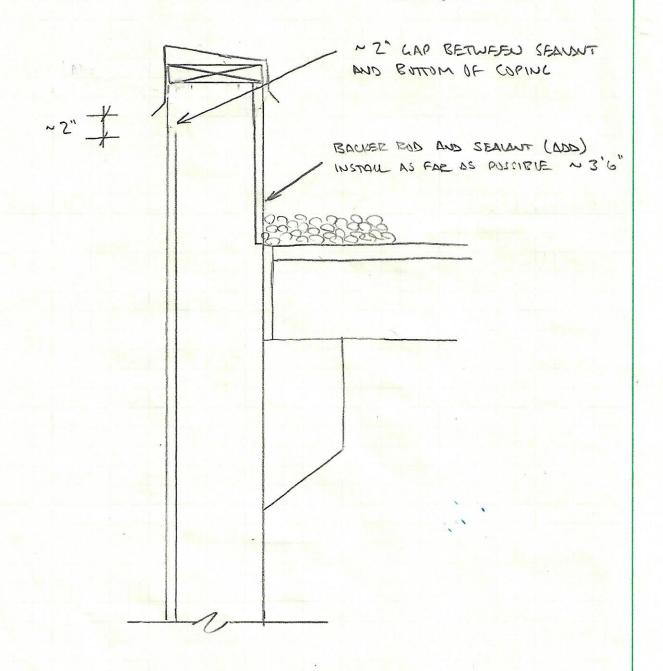
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION	TOTAL
DECOM! HON	QOANTII I	O.U.	TRIOL	EXTENSION	TOTAL
LABOR					
SUPERINTENDENT	10	HR	\$33.75	\$338	
FINISHER	36	HR	\$21.50	\$774	~15 MIN/EA
LABORER	36	HR	\$20.50	\$738	~15 MIN/EA
OT PREMIUM (TOTAL HRS/5)*(AVE WAGE/2)	16	HR	\$11.28	\$185	
TOTAL LABOR					\$2,034
TOTAL LABOR BURDEN @ 53%					\$1,078
EQUIPMENT					
AIR COMPRESSOR, JACKHAMMERS, SANDBLASTER	9	HR	\$16.50	\$149	
3/4 TON PICKUP	10	HR	\$15.00	\$150	
				<u> </u>	
TOTAL EQUIPMENT					\$299
MATERIAL					
WHITE CAP - SIKAQUICK VOH (0.44 CF/EA)	4	EA	\$19.00	\$76	
					4==1
TOTAL MATERIAL					\$76
OUDGONTDAGT					
SUBCONTRACT		1 1			
NA		LS		\$0	
TOTAL SUBCONTRACT				<u> </u>	\$0
TOTAL SUBCONTRACT					\$0
OTHER					
NA NA		Ls		\$0	
IVA		LS		20	
TOTAL OTHER					\$0
					Ψ0
TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTH	ER			1	\$3,487
TOTAL CONTRACTOR'S FEE @ 15%					\$523
SUBTOTAL					\$4,010
TOTAL BOND & INSURANCE @ 2%					\$80
TOTAL				I	\$4,090

	1		UNIT		
DESCRIPTION	QUANTITY	UNIT	PRICE	EXTENSION	TOTAL
LABOR		I I		4	
SUPERINTENDENT	50	HR	\$33.75	\$1,688	40.1411/54
FINISHER	160	HR	\$21.50	\$3,440	~40 MIN/EA
LABORER	160	HR	\$20.50	\$3,280	~40 MIN/EA
OT PREMIUM (TOTAL HRS/5)*(AVE WAGE/2)	74	HR	\$11.36	\$841	
TOTAL LABOR				<u> </u>	\$9,248
TOTAL LABOR BURDEN @ 53%				<u> </u>	\$4,902
					¥ 1,002
EQUIPMENT					
AIR COMPRESSOR, JACKHAMMERS, SANDBLASTER	80	HR	\$16.50	\$1,320	
3/4 TON PICKUP	50	HR	\$15.00	\$750	
				<u> </u>	
TOTAL EQUIPMENT					\$2,070
MATERIAL					
MUNICIPAL SUPPLY - EUCLID SPEEDSTOP	60	I EA I	\$42.50	\$2,550	
MISC. MATERIALS	1	LS	\$250.00	\$250	
			•	,	
TOTAL MATERIAL	•				\$2,800
SUBCONTRACT	<u> </u>	T T		•	
NA		LS		\$0	
TOTAL SUBCONTRACT				<u> </u>	\$0
TO THE CODE CHINATE I					+ + + + + + + + + + + + + + + + + + +
OTHER					
NA		LS		\$0	
TOTAL OTHER					\$0
TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND	OTHER			11	\$19,020
TOTAL CONTRACTOR'S FEE @ 15%	OTTLIN			<u> </u>	\$2,853
SUBTOTAL				<u>lí</u>	\$21,873
TOTAL BOND & INSURANCE @ 2%					\$437
TOTAL				I	\$22,310

	1	1 1	UNIT		
DESCRIPTION	QUANTITY	UNIT	PRICE	EXTENSION	TOTAL
DEGINI HON	407	<u> </u>			
LABOR					
SUPERINTENDENT	10	HR	\$33.75	\$338	
FINISHER	68	HR	\$21.50	\$1,462	~30 MIN/EA
LABORER	34	HR	\$20.50	\$697	~15 MIN/EA
OT PREMIUM (TOTAL HRS/5)*(AVE WAGE/2)	22	HR	\$11.15	\$250	
TOTAL LABOR					\$2,746
TOTAL LABOR BURDEN @ 53%					\$1,455
EQUIPMENT					
3/4 TON PICKUP	10	HR	\$15.00	\$150	
TOTAL EQUIPMENT					\$150
MATERIAL STATE OF THE PROPERTY	1 .	I = . I	* * * * * * * *		
STETSON - 5/8" BACKER ROD (1,550 LF / EA)	1 1	EA	\$124.16	\$124	
STETSON - SIKFLEX-1A "STONE" (5 GALLON / EA)	1 1	EA	\$138.82	\$139	
MISC. MATERIALS	1	LS	\$100.00	\$100	
TOTAL MATERIAL					\$363
TOTAL MATERIAL					Ψ000
SUBCONTRACT					
NA NA	1	LS		\$0	
IVA				ΨΟ	
TOTAL SUBCONTRACT		<u> </u>		i	\$0
<u></u>				!!	
OTHER					
NA		LS		\$0	
TOTAL OTHER					\$0
					\$4,715
TOTAL LABOR, EQUIPMENT, MATERIAL, SUBCONTRACT, AND OTHER					
TOTAL CONTRACTOR'S FEE @ 15%					
SUBTOTAL					\$5,422
TOTAL BOND & INSURANCE @ 2% TOTAL				-	\$108
II() A					\$5,530



REVISIONS TO DETAIL A 103A101



REVISIONS TO DETAIL 5 100A501 (TRICKUNG FICTERS ONLY)

From: Blair, Travis
To: Greg Menke
Subject: SPEED PLUG

Date: Tuesday, September 4, 2018 12:01:09 PM

Greg-

Your cost on the Euclid Speed Plug in 50# pails is \$42.50 each. It would take 2-3 days to get my hands on it. There are 36 per pallet, but we can order partial pallets. Give me a call with any questions. Thanks!

TRAVIS BLAIR
WHITE CAP - IOWA CITY
319-631-4887 CELL
319-337-9619 FAX

SPEED PLUG

RAPID-SETTING HYDRAULIC CEMENT



DESCRIPTION

SPEED PLUG is a rapid-setting hydraulic cement compound used to instantly stop running water or seepage in masonry or concrete. SPEED PLUG is ready to use and requires only the addition of water before plugging and sealing active leaks. SPEED PLUG is available in a standard 1-3 minute set time formula, as well as a faster setting 45 second version and a slower setting 3-5 minute formulation.

PRIMARY APPLICATIONS

- · Concrete and masonry walls and floors
- · Dams, swimming pools, cisterns, reservoirs, water tanks and manhole repairs

FEATURES/BENEFITS

- Non-shrinking, non-metallic and non-corrosive
- Initial set in 1 to 3 minutes
- Stops running water or seepage leaks
- · High strength
- Controlled expansion
- Can be applied underwater

TECHNICAL INFORMATION

Material Properties at 75°F (24°C) Test Method

 Expansion/Shrinkage ASTM C157

28 Day Test Chg. Length

Moist Room (100% RH)......0.10%

Dry Room (50% RH).....-0.25%

Appearance: SPEED PLUG is a gray hydraulic cement compound.

Values presented are typical and not necessarily referenced to create specifications.

PACKAGING

SPEED PLUG is packaged in 20 lb (9.2 kg) pails, 50 lb (22.7 kg) pails, and in cases of 10 lb (4.5 kg) tubs (4 tubs per case).

SHELF LIFE

18 months in original, unopened package

COVERAGE/YIELD

1 lb (0.45 kg) of SPEED PLUG yields approximately 17 in³ (171 cm³) and will repair approximately 30" of a 3/4" x 3/4" (1 kg for 155 cm of 2 cm x 2 cm) crack.

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP >3 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming: Clean and prime exposed steel with DURALPREP A.C. and allow to fully dry prior to the application of SPEED PLUG.

Mixing: Pour potable water into a clean mixing container and gradually add SPEED PLUG. Use approximately 1 quart of water to 8 to 9 lbs (3.8 to 4.3 kg/L) of material. Mix rapidly with a trowel to the consistency of stiff putty with no slump for no more than 30 seconds. SPEED PLUG will flash set in 1 to 3 minutes. Properly mixed, SPEED PLUG can be hand formed into a ball.

Application: SSD areas for repair with potable water immediately before application of SPEED PLUG.

General Patching: Force SPEED PLUG into the crack or hole by hand or with a trowel. Rapidly fill to the full depth of the opening. **Patching Active Leaks:** Start at the top of the crack or hole, and force the SPEED PLUG to the full depth of the prepared area. Apply direct pressure to the new patch until the SPEED PLUG has taken a firm set. Mix fresh material, and continue patching toward the area of the greatest pressure. When extreme water pressure is encountered, physically hold the mixed SPEED PLUG with a hand against the leak and apply continuous pressure until the SPEED PLUG has set, and the water has stopped running. Do not use a twisting motion. **Floor-Wall Patching:** Follow above methods for the specific conditions encountered. Use a rounded tool to force the SPEED PLUG into the joint, and construct a 45° transitional cove between the floor and wall at the same time. **Expansion/Contraction Cracks:** Do not use SPEED PLUG to treat dynamic cracks. Consult the technical data sheets for the DURAL AQUA LINE of chemical/urethane grouts.

CLEAN-UP

Clean tools and mixing equipment with water immediately after use.

PRECAUTIONS/LIMITATIONS

- Do not retemper SPEED PLUG. Do not apply SPEED PLUG to frozen or frost filled surfaces.
- Do not twist SPEED PLUG into the hole while plugging running water leaks.
- In warm weather, mix SPEED PLUG with ice water. In cold weather, mix SPEED PLUG with warm water and use a torch to preheat the area to be patched.
- · Do not prewet in cold weather.
- Do not use in dynamic (moving) cracks or expansion joints. Use a chemical grout from the DURAL AQUA Line
- In all cases, consult the Safety Data Sheet before use.