# Racine Water and Wastewater Utilities

Keith E. Haas, P.E. General Manager



Michael L. Gitter, P.E. Chief of Operations Kenneth M. Scolaro, C.P.A. Administrative Manager

Chad W. Regalia, P.E. Chief Engineer

December 11, 2020

Board of Waterworks Commissioners:

Mayor Cory Mason Alder John Tate II Terry McCarthy Kathleen DeMatthew Stacy Sheppard Alder Natalia Taft James Spangenberg Kathleen Fischer

SUBJECT: Change Order No. 3 - Contract W-19-18-STH 20 Pumping Station Improvements

# Dear Commissioners:

Submitted for your review and approval is Change Order No. 3 on Contract W-19-18, STH 20 Pumping Station Improvements, Staab Construction Corp. (contractor) in the amount of \$42,260.00. This Change Order is interzone transfer piping within STH 20 Pumping station and complete dual 20-inch water main connections north.

The original contract amount is \$1,587,000.00. Previous Change Orders increased the contract amount to \$1,625,807.00. Change Order No. 3 would increase the total contract amount to \$1,668,067.00. This change order reflects an increase of 5.1 % on the original contract amount.

Sincerely.

Keith E. Haas General Manager

KH/eg

Three (3)

Date of Issuance: December 9, 2020 Effective Date: December 9, 2020

Owner:

Racine Water and Wastewater Utilities

Contract: STH Pumping Station Improvements

Owner's Contract No.:

W-19-18

Contractor: Staab Address: 1800 L

Staab Construction Corp.

Engineer:
Engineer's Project No.:

Ruekert & Mielke, Inc. 8022-10038.301

Address: 1800 Laemle Avenue Marshfield, WI 54499

Effective Date of Contract:

September 5, 2019

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

# Description:

- 1) Complete interzone transfer piping within STH 20 Pumping Station. The work includes providing all 6-inch diameter piping, fittings, and valves and all 12-inch diameter piping modifications shown on the attached sketch, thus an add of \$10,246.00.
- Remobilize and complete dual 20-inch water main connections north of the STH 20 Pumping Station, thus an add of \$32,014.00

# Reason for Change Order:

- 1) The change is to provide a way to return water from the 933 Pressure Zone to the 875 Pressure Zone to reduce water age.
- 2) The dual 20" pipe stub installations (by others) was expected to be installed ahead of work on this Contract. This work (by others) was recently completed necessitating the Contractor's remobilization to the site to complete this work.

### Attachments:

- 1) October 28, 2020, email with sketch of proposed work (modified). December 9, 2020, Staab Construction change order pricing.
- 2) December 8, 2020, Staab Construction change order pricing.
- December 9, 2020, Letter to Keith Haas summarizing changes required.

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price	Original Contract Times:
<b>4.507.000.00</b>	Substantial Completion:
\$ <u>1,587,000.00</u>	Ready for Final Payment:
	days or dates
Increase from previously approved Change Orders.	<ul> <li>Increase</li> <li>Decrease</li> <li>from previously approved</li> </ul>
	Change Orders No to No:
	Substantial Completion:
\$ <u>38,807.00</u>	Ready for Final Payment:
	days
Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
	Substantial Completion:
\$ <u>1,625,807.00</u>	Ready for Final Payment:
	dayş or dates
Increase of this Change Order:	●Increase● ●Decrease● of this Change Order:
	Substantial Completion:
\$ <u>42,260.00</u>	Ready for Final Payment:
	days or dates
Contract Price incorporating this Change Order:	Contract Times with all approved Change Orders:
	Substantial Completion:
\$ <u>1,668,067.00</u>	Ready for Final Payment:
	days or dates
DECOMMENDED:	DEED.

RECOMMENDED

ACCEPTED:

00 63 63-1

ACCEPTED:

By:	rgineer (Authorized Signature)	By:Owner (Authorized Signature)	By: Contractor (Authorized Signature
	David G. Lipski Ruekert & Mielke, Inc.	Racine Water and Wastewater Utilities Chad Regalia	Staab Construction Corporation Benjamin J. Lee
Date: _	December 9, 2020	Date:	Date: _ December 9, 2020



From:

Schultz, Ryan < RSchultz@ruekert-mielke.com>

Sent:

Wednesday, October 28, 2020 5:00 PM

To:

Haffenbredl, Leon

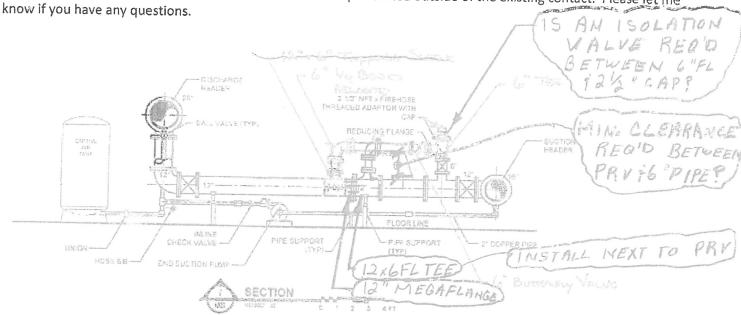
Arnott, David

Cc: Subject:

[EXTERNAL]STH 20 Piping Modifications

# Hi Leon:

I have a favor to ask. Could you provide a quick budgetary cost for performing the following piping modifications (furnish and install) at Racine's STH 20 Pumping Station. The cost just needs to be in the ballpark in order to help us decide if we want to proceed with the work and would be performed outside of the existing contact. Please let me



### Thanks.

Ryan M. Schultz, P.E. (WI) Project Engineer





262-290-2793



262-623-4379



RSchultz@ruekert-mielke.com



ruekertmielke.com







DAVID LIPSIQ RUEKERT MISLKE W233 N2803 RIDGEVIEW PARKWAY, SUITE 300 WAUKESHA, WI 63102-1020

File: 4577- CO

PCO: 7

PCO Item 6: 1

Phase	Description	Comments	Qiy	Offi	Material	Indirect	Rest	Hours	Rate	Labor	Sub	Equip	Tota's
89100	Parting		1	LS						2200		equip	1003:5
331100	Distriction Water Pipe System		0	LF	10						1,075		1,07
400506	Pipe Accessiones Malerials							1	105	105			115
400519-005-	Exposed DI Pipo Malerinio	-	1	LS	162								162
400619-112-	12 Damo Di Fico LBR			15	3,049								3.043
403519-506-			0	(F				4	105	420			420
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400564	Bulgarily Volves	-	C I	5A	975								1,652
404200	Exposed Pipe Institution	Queen and a second	0	SF	-							-	975
	Total Cost			-							1,880		1,830
	Percent Mergin				4,196			21		2,205	2.955		9,356
	Margin				15.00%						5.03%		-
	-				629						148		777
	Contract Price Sub-Total	The state of the s			4,825								
12290	BONDS									2,20%	3,103		10,133
	Contract Price Total									-			113
	ns / Exceptions:				1	1		i i		1	1		10.246

Project Manager:

LEON HAFFENBREDL | Inaffenbred@steabco.com p. 715-387-8429201 | f. 715-384-4846

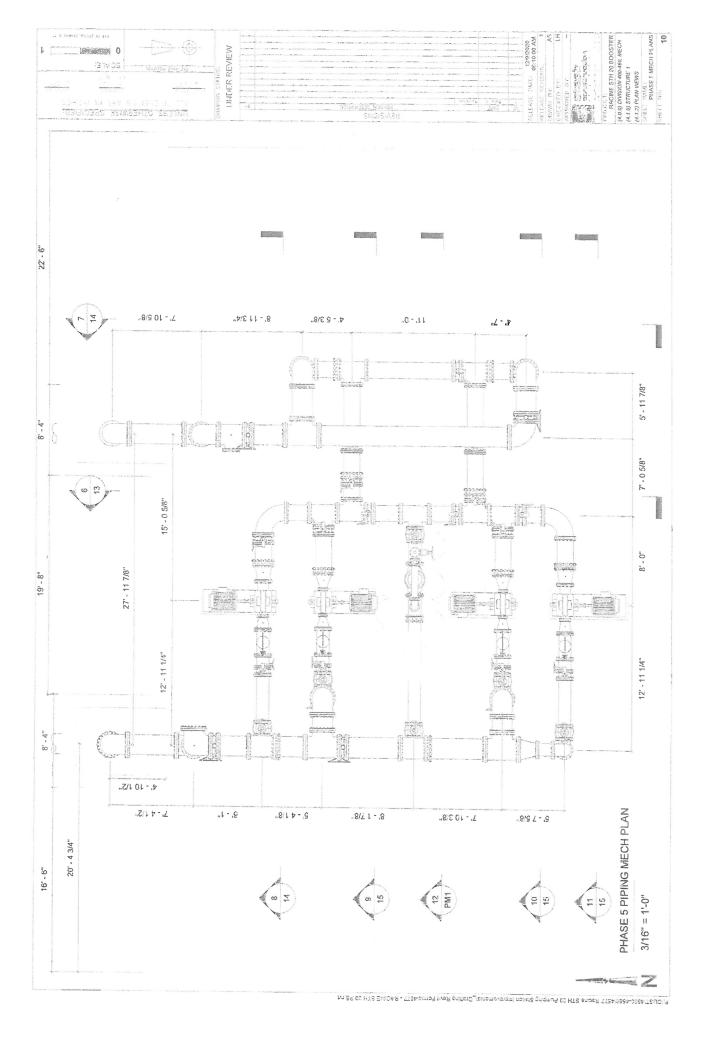
The contract completion date to be increased

TBD calendar days.

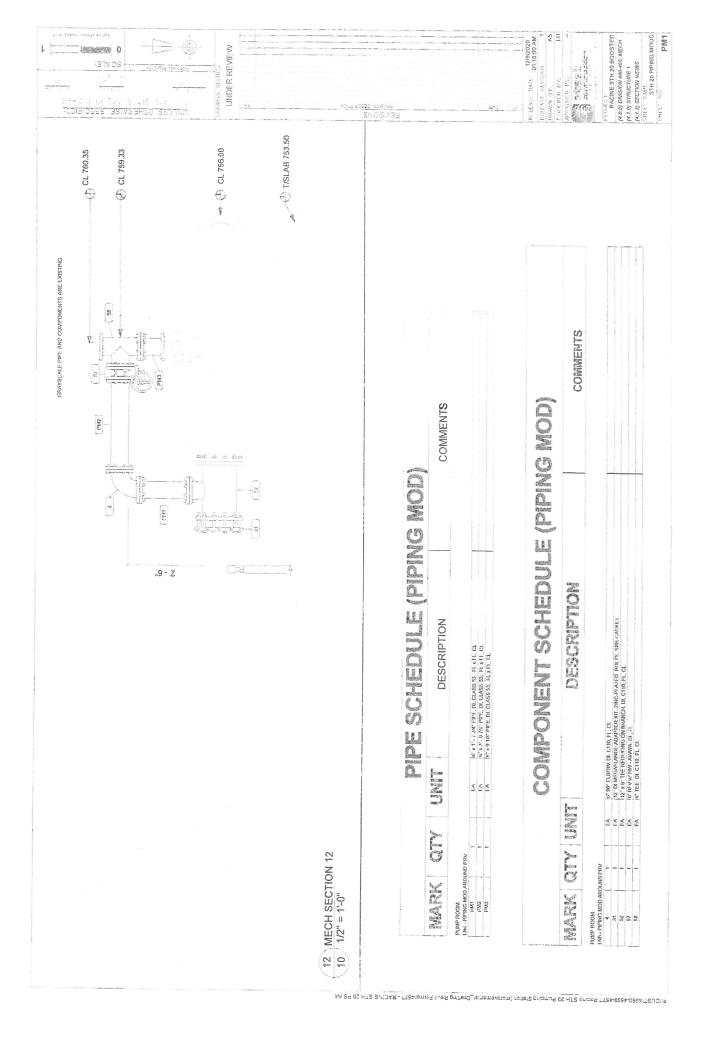
Price subject to change after 36 days.

SakabFafChangaOrdarEst.rpt

Discomber 03, 2220









# Staab PM Change Order Estimate

4577-CO 12/08/2020 Date: File:

W233 N2080 RIDGEVIEW PARKWAY, SUITE 300

RUSKERT MELKE

DAVID LIPSKI

V&AUKESHA, VM 53188-1020

Project: Re:

Revised- Cost to make two 20" watermain tie-ins 4577- RACINE STH 20 PUMPING STATION

PCO liem #:

9

PCO:

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312340	Dewatering		> 0		360		1,800	53	105	5,565	:	The state of the s	7,725
329219-	Seed Fertilizer & Mulch		0	<u> </u>	100			4	105	420			520
331300	Disinfection Metar Dias 6.		0	SY	350		200	16	105	1,680	AND THE CONTRACTOR AND THE CONTR		2,230
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						handari selfand				-			32.014
Carrieran	Carried / Freezes					THE RESERVE AND THE PERSONS ASSESSED.			- Contract C	-			

Clarifications / Exceptions:

Costs to make two 20" watermain tie-ins on north side of pump house. North site access to be from W36 Right-of-Way/ Easement. We include the following:

1) The pipe material will be C-900PVC. If Ductile is required, add \$3,400.00 to the above price.

2) We include stone 6" below the pipe and 6" over pipe.

3) Disinfection to include spraying pipe with bleach and adding a chlorine tablet on each pipe end. Bact-T- Testing by Owner.

4) Pipe testing to include the owner charging the line and visually inspecting the pipe for leaks.

5) We include seeding, erosion mat, and fertilizing. Seed to be dormant seed. This only applies to tie-in area approx. 60' x 60'

6) Price is based on Dec 2020 work.

7) A contract extension is required, Jan 29, 2021.

8) We do not include any restoration through the easement.

9) This price is based on the understanding the pipe lines are within 3" of vertical and horizontal planes. Thereby, not needing any additional alignment fittings.

10) We include removal and disposal of 4 concrete thrust blocks.

11) We expect to use site topsoil no additional topsoil in our bid.



RUEKERT MIELKE

DAVID LIPSKI

W233 N2080 RIDGEVIEW PARKWAY, SUITE 300 WAUKESHA, WI 53188-1020

Phase

4577-CO File:

12/08/2020 Project Date:

Re:

PCO Item #: ø PCO:

Staab PM Change Order Estimate

Revised- Cost to make two 20" watermain tie-ins 4577- RACINE STH 20 PUMPING STATION

Totals
Equip
Sub
Labor
Rate
Hours
Rent
Indirect
Material
UM
Qty
Comments
Description

Project Manager:

StaabPMChangeOrderEst.rpt

LEON HAFFEMBREDL maffenbredt@staabco.com p. 715-387-8429201 f. 715-384-4846

The contract completion date to be increased Price subject to change after 30 days.

calendar days.

TBD

Page 2

December 08, 2020





December 9, 2020

Keith Haas, P.E. Racine Water and Wastewater Utilities City Hall Annex 800 Center Street, Room 227 Racine, WI 53403

RE: STH 20 Pumping Station Improvement Project (W-19-18) Changes Required

Dear Keith,

The following letter is in reference to two proposed changes for the STH 20 Pumping Station Improvements project. The changes are necessary to address water age issues in the 933 Pressure Zone as a result of reduced demands and conflicts that occurred resulting from delays with the Spring Street Transmission Main project.

All water system improvements constructed to serve the Foxconn Development and Mount Pleasant TID were designed to serve the initial 2020 Foxconn Develop Demand of 5.8 mgd, as well as, the ultimate development in the 933 Pressure Zone. However, the current demand is far less than originally indicated. As a result, the Racine Water and Wastewater Utility is experiencing water age issues in the 933 Pressure Zone. In attempt to reduce the water age, Ruekert & Mielke, Inc. with Chad Regalia, are proposing to construct an inter-zone recirculation piping system at the STH 20 Pumping Station. This change consists of modifications to the existing piping, and new piping and a valve that will allow the Utility to manually control the flow of water from the 933 Pressure Zone back to the 875 Pressure Zone. This will allow turnover of the water in the 933 Pressure Zone thereby reducing water age. The approximate cost for this change from Staab Construction is \$10,246.

The second change is for the discharge main connections to the Spring Street transmission main. The original project schedules indicated that the Spring Street Transmission Main would be constructed prior to the STH 20 Pumping Station Improvements project. As a result, the design of the STH 20 Pumping Station included making the connections to the proposed transmission main. However, delays with the Spring Street Transmission Main project did not allow for Staab Construction to complete the connections when installing the underground piping for their project. In order to meet their project schedule, Staab Construction added caps, bleeder valves, and buttresses to the end of each water main as part of the pumping station project at no cost (in exchange for not being able to make the connections). The watermain will soon be pressure tested and be ready for the connections at the pumping station.

We have contacted Staab Construction and requested a cost to remobilize and complete the two water main connections. We have also contacted SJ Lewis and requested the same scope of work. Staab Construction and SJ Lewis provided costs of \$32,014 and \$53,000 respectively to complete the connections.

We recommend that Staab Construction remobilize and complete the watermain connections. The total cost will be offset due to a reduction in the full length of pipe installed as part of SJ Lewis's contract. With Staab completing the connection, the total length of pipe included with SJ Lewis's contract will be reduced 28 feet. Based on the unit pipe cost of \$850 per foot, the Utility will save \$23,800 on the SJ Lewis contract. As a result, the actual extra for the watermain connection will be \$8,214.

We recommend that these changes be made to the STH 20 pumping station contract with Staab Construction. Upon your approval, we will issue a Work Change Directive and further coordinate with Staab Construction. We will also prepare a formal Change Order.





Keith Haas, P.E. December 9, 2020 Page 2

Please let us know if you have any questions or concerns.

Respectfully,

RUEKERT & MIELKE, INC.

Paine W. Censter

David W. Arnott, P.E. (WI, IL) Team Leader/Senior Project Manager

darnott@ruekert-mielke.com

DWA:slc

CC:

Chad Regalia P.E., Racine Water and Wastewater Utilities Kenneth R. Ward, P.E., Ruekert & Mielke, Inc. Ryan Schultz, P.E., Ruekert & Mielke, Inc.

David Lipski, Ruekert & Mielke, Inc.