



Meeting Agenda

Capital Investment Committee

Thursday, September 22,
2022

3:30 PM

Board Room

CALL TO ORDER

APPROVAL OF MINUTES

1. Consideration Of Approval Of Minutes Of The August 25, 2022 Capital Investment Committee Meeting

NEW BUSINESS

2. Consideration Of DRAFT Kiewit Change Order No. 11 To COF Contract No. 2017-0264, With Kiewit Infrastructure South Co., For The Water Reclamation Facility Modifications & Expansion Project For A Net Increase Of \$379,849.

Sponsors: Michelle Hatcher

3. Consideration Of COF Contract No. 2022-0217, With C&T Engineering For Water Reclamation Facility Liquids Equipment Maintenance Services.

Sponsors: Michelle Hatcher

4. Consideration Of COF Contract No. 2022-0237, A Joint-Funding Agreement Between The U.S. Geological Survey Lower Mississippi-Gulf Water Science Center And The City Of Franklin.

Sponsors: Michelle Hatcher

5. Consideration Of DRAFT COF Contract No. 2022-0246, With Hethcoat & Davis For The Meadows Pump Station Engineering Report In The Amount Of \$32,226.00

Sponsors: Michelle Hatcher, Brian Goodwin, Patricia McNeese

6. Consideration Of DRAFT Amendment 8 To COF Contract No. 2011-0129 (TDOT Agreement No. 110291) For The Franklin ITS Extension (PIN 116144.00) And The Adaptive Signal Control Technology (PIN 116144.01) Projects To Replace Exhibit "A" And To Change The Completion Date.
WS 11/9/21

Sponsors: Paul Holzen, Jonathan Marston, Adam Moser

7. Capital Projects Dashboard And Status Updates For September 2022.

Sponsors: Paul Holzen, Jonathan Marston

OTHER BUSINESS

ADJOURN

Anyone needing accommodations due to disabilities please contact the ADA Coordinator at 615-791-3277 at least 24 hours prior to the meeting.



File #: 21-03509

DATE: August 26, 2022
TO: Capital Investment Committee
FROM: Michelle Hatcher, Director of Water Management

SUBJECT:

Consideration Of DRAFT Kiewit Change Order No. 11 To COF Contract No. 2017-0264, With Kiewit Infrastructure South Co., For The Water Reclamation Facility Modifications & Expansion Project For A Net Increase Of \$379,849.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning Change Order No. 11 for the Water Reclamation Facility Modifications and Expansion Project.

BACKGROUND/STAFF COMMENTS:

The Board of Mayor and Alderman passed a Resolution to award the contract on July 10, 2018 for the Water Reclamation Facility Modifications and Expansion Project to Kiewit Infrastructure South Co. (Kiewit). The amount of the contract entered into by the City and Kiewit was for \$132,890,000.00 (which included an Owner's contingency of \$4,000,000.00). A substantial completion date of February 20, 2022 and a final completion date of May 26, 2022 were outlined in the contract. The Contractor, however, is significantly behind schedule and liquidated damages are being assessed (\$5,000/day). A pandemic delay of time will likely be awarded, however, the time of that award is still being determined.

During the course of the project to date, the need for various changes to Kiewit's scope has become apparent to include work that was not captured in the original contract, changes due to alternative items of equipment, existing conditions, or to realize savings to the City. Those changes are memorialized in Construction Change Authorizations (CCAs), Change Proposals (CPs), and Request for Proposals (RFPs) issued by CDM Smith and then approved by the City, and formalized in this change order and include the following:

- Change Proposal 121 - additional fiber installation from the existing network cabinet to a new solids termination (\$18,710.00)
- Change Proposal 118 - change of flooring in elevator due to change in requirements (\$2,713.00)
- Request for Proposal 16 - recoating of surface aerator impeller coating due to draining of basin (\$45,316.00)
- Change Proposal 131 - installation of an emergency stop redundancy for the gas fired water heaters in a separate location (\$1,416.00)

- Change Proposal 130 - installation of hot water pump controls & modification of the motor control center to monitor the alarm circuit check valve for each pump (\$10,543.00)
- Change Proposal 119 - structural work based on differing elevations from the field as as-builts the design was based off that weren't seen until field excavation (\$11,813.00)
- Change Proposal 124 - design change in material for biogas gaskets from butyl to nitrile or Viton (\$5,917.00)
- Construction Change Authorization 67 - installation of 1" air vacuum relief valves to prevent air locking on equalization basin (\$33,185.00)
- Change Proposal 132 - additional solids removal from biological nutrient basin #3 that wasn't anticipated until the basin was drained (\$4,432.00)
- Construction Change Authorization 61.1 - change in control strategy for the equalization basin (\$2,331.00)
- Change Proposal 128 - additional power to heat tracing equipment in solids building (\$140,086.00)
- Change Proposal 136 -rehabilitation to reclaimed pump control valves #1 and #2 (\$20,190.00)
- Change Proposal 133 - addition of concrete floor coatings to prevent slippage under conveyors (\$4,651.00)
- Change Proposal 66.1 - modifications to the control strategy for the plant water booster pumps (\$2,331.00)
- Construction Change Authorization 70 - additional concrete paving around new ultraviolet light facility (\$15,039.00)
- Change Proposal 17 - modifications to facility perimeter fencing (-\$44,321.00)
- Change Proposal 137 - chemical line additional piping (\$13,814.00)
- Change Proposal 141 - additional heat tracing for hydrogen sulfide tank (\$21,950.00)
- Change Proposal 138 - application of additional concrete sealant in solids processing building (\$7,980.00)
- Change Proposal 135 - differing field conditions from as-builts for 54" influent piping to denitrification filter (\$1,294.00)
- Change Proposal 142 - addition of diamond plate covers for safety in solids processing building (\$8,666.00)
- Change Proposal 120 -piping modifications for mixing system for digesters (\$41,757.00)
- Change Proposal 143 - rehabilitation to biological nutrient removal basin #1 and #2 diffuser piping (\$2,783.00)
- Change Proposal 139 - troubleshooting of repairs to control instruments for biological nutrient basin #1 and #2 (\$8,121.00)
- Construction Change Authorization 71 - additional wash hose stations for digester building determined during field work (\$11,163.00)

FINANCIAL IMPACT:

The attachments outline all of these changes, totaling a net increase of \$379,849.00, with a remaining contingency amount of \$392,583.22.

RECOMMENDATION:

Staff recommends that Change Order 11 to COF Contract No. 2017-0264 with Kiewit Infrastructure South Co. be recommended for approval by the Board of Mayor and Aldermen.

REQUEST FOR CONSTRUCTION CONTRACT CHANGE

ORDER NO. 11

City of Franklin
Engineering Office
109 Third Avenue South
Franklin, Tn 37064

Contract Number: 2017-0264
Project Name: Water Reclamation Facility
Modifications & Expansion

Background

The Board of Mayor and Alderman passed a resolution to award a contract on July 10, 2018 for the Franklin Water Reclamation Facility Modifications and Expansion Project to Kiewit Infrastructure South Co., (Kiewit), contingent upon approval by the State Revolving Fund (SRF) Program, which was received on August 23, 2018. The amount of the contract entered into by the City of Franklin and Kiewit was for \$132,890,000.00 (which included an Owner contingency of \$4,000,000). A substantial completion date of February 20, 2022, and a final completion date of May 26, 2022 were requirements in the contract.

The Franklin Water Reclamation Facility Modifications and Expansion Project included, among other scope, construction of a new headworks facility, an equalization basin, odor control systems, two ultraviolet disinfection systems, an alum storage and feed system, an electrical building, modifications to the biological nutrient removal facilities, the reclaimed water pump station, return sludge pump station and RAS/WAS pump station, construction of a new solids treatment system, upgrades to the instrumentation and control system, installation of new yard piping and demolition.

Reason for Change Order:

During the course of the project to date, the need for various changes to Kiewit's scope became apparent to include work not captured in the original contract, changes due to alternate items of equipment proposed by Kiewit, unforeseen conflict with existing features or to realize savings to the City of Franklin. Those changes were memorialized in Construction Change Authorizations (CCAs), Contractor Change Proposals (CPs) or responses to Requests for Proposal (RFPs) as shown on Attachment A. The specific language of the scope changes is detailed in the CCA/CP/RFP documents.

Attachments (List documents supporting change):

Attachment A – CCA/RFP/CP Summary Sheet

CP 121

CP 118

RFP 16 w/Contractor Proposal

CP 131

CP 130

CP 119

CP 124

CCA 67 w/Contractor Proposal

CP 132

CCA 61.1 w/Contractor Proposal
CP 128
CP 136
CP 133
CCA 66.1 w/Contractor Proposal
CCA 70 w/Contractor Proposal
RFP 17 w/Contractor Proposal
CP 134
CP 137
CP 141
CP 138
CP 135
CP 142
CP 120
CP 143
CP 139
CCA 71 w/Contractor Proposal

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CHANGE IN CONTRACT PRICE:	
Original Contract Price:	\$132,890,000.00
Net Increase in Contract Price From Previous Change Orders:	\$87,021.00
Contract Price Prior to This Change Order:	\$132,977,021.00
Net Increase or <Decrease> of This Change Order:	\$00.00
Contract Price with All Approved Change Orders:	\$132,977,021.00

CHANGE IN CONTRACT TIMES	
Original Contract Times	
Substantial Completion Date	2/20/2022
Final Completion Date	5/26/2022
Net Change From Previous Change Orders	
Substantial Completion	13 Days
Final Completion	13 Days
Contract Times Prior to This Change	
Substantial Completion Date	2/26/2022
Final Completion Date	6/01/2022
Increase in Time This Change Order	
Substantial Completion	0 Days
Final Completion	0 Days
Contract Times with All Approved Change Orders	
Substantial Completion Date	3/05/2022
Final Completion Date	6/08/2022

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Now, Therefore, Kiewit Infrastructure South Co., hereby agrees to this Change Order, consisting of the above mentioned schedule changes, and agrees that this Change Order is hereby made a part of the original contract and will be performed by this Contractor in accordance with specifications thereof, and that the original contract remains in full force and effect, except in so far as specifically modified by this Change Order.

RECOMMENDED FOR APPROVAL BY:

ENGINEER

Name: Daniel A. Harris

Signature: 

Date: 8/11/22

CITY PROJECT MANAGER

Name: Brian Goodwin

Signature: _____

Date: _____

CITY WATER MANAGEMENT DIRECTOR

Name: Michelle Hatcher

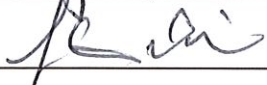
Signature: _____

Date: _____

ACCEPTED BY CONTRACTOR:

Name: Steve Davis

Title: Project Manager

Signature: 

Date: 8/11/2022

APPROVED BY OWNER:

Name: _____

Title: _____

Signature: _____

Date: _____

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Attachment A

CP/RFP/CP Summary

CCA Number	RFP Number	CP Number	Description	Cost	Time Extension	Date Sent to SRF for Review	Date Approved by SRF
		121	Fiber optic cable for phone & data	\$ 18,710.00	0	2/16/2022	3/2/2022
		118	Elevator flooring	\$ 2,713.00	0	2/21/2022	3/2/2022
	16		BNR3 impeller recoating	\$ 45,316.00	0	3/1/2022	3/28/2022
		131	Gas water heater emergency stop	\$ 1,416.00	0	3/22/2022	3/28/2022
		130	Hot water pump control modifications	\$ 10,543.00	0	3/15/2022	3/28/2022
		119	UV diversion vault modifications	\$ 11,318.00	0	3/15/2022	3/28/2022
		124	Gasket material clarifications	\$ 5,917.00	0	3/15/2022	3/28/2022
67			EQ pump AVR revisions	\$ 33,485.00	0	3/15/2022	3/28/2022
		132	Additional cleanup in BNR3	\$ 4,432.00	0	4/25/2022	4/27/2022
61.1			EQ pump control revisions	\$ 2,331.00	0	4/25/2022	4/27/2022
		128	Additional heat trace power circuits	\$ 140,086.00	0	4/25/2022	4/26/2022
		136	Reclaimed water pump control valve repairs	(Allowance Item 2)	0	5/11/2022	5/11/2022
		133	Chemical metering area floor coating	\$ 4,651.00	0	5/11/2022	5/11/2022
66.1			EQ valve control revisions	\$ 2,331.00	0	5/2/2022	5/11/2022
70			Concrete pavement north of UV	\$ 15,039.00	0	5/2/2022	5/11/2022
	17		Fence layout revisions	\$ (44,321.00)	0	6/30/2022	6/30/2022
		134	HRS access revisions	\$ 10,942.00	0	5/27/2022	6/30/2022
		137	BSOC piping modifications	\$ 13,814.00	0	5/27/2022	6/30/2022
		141	H2S tank heat trace & insulation	\$ 21,950.00	0	5/27/2022	6/30/2022
		138	Solids basement concrete sealer	\$ 7,980.00	0	5/27/2022	6/30/2022
		135	Denitrification filter piping revisions	\$ (1,294.00)	0	5/27/2022	6/30/2022
		142	Diamond plate for future openings	\$ 8,666.00	0	7/20/2022	8/1/2022
		120	Digester mixing system piping revisions	\$ 41,757.00	0	7/20/2022	8/1/2022
		143	BNR3 diffuser piping conflicts	\$ 2,783.00	0	7/20/2022	8/1/2022
		139	BNR1/2 DO probe repair and FO tstg & termination	\$ 8,121.00	0	7/20/2022	8/1/2022
71			Digester pump gallery wash hose stations	\$ 11,163.00	0	7/20/2022	8/1/2022
Total This Change				\$ 379,849.00			
Total Previous Changes				\$ 3,227,567.78			
Owner's Contingency Amount				\$ 4,000,000.00			
Remaining Owner's Contingency				\$ 392,583.22			
Total Time Extension (Calendar Days)					7		



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

December 10, 2021

CP 121

To: Mr. Dan Harris CP-KIEWIT-00196.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal – Telecom Fiber Install from Network Cabinet to TTC-SB

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for **Telecom Fiber Install from Network Cabinet to TTC-SB** in the amount of **Eighteen Thousand Seven Hundred Ten Dollars (\$18,710.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



Change Proposal: Telecom Fiber Install from Network Cabinet to TTC-SB

PREPARED BY: Galileo Rivera-Tobar

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Supply and Install added Fiber for Telecom Installation from Network Cabinet to TTC-SB	1.00	LS				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 17,243.59
Kiewit Subcontractor Coordination	1.00	EA	8.00	8	\$ 60.15	\$ 481.20		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 481.20
*Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
STS - small tools, consumables, safety equip, (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 + 1.0975)																	
OTHER						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
TAX: (9.75% of Material, Equipment, Other)						\$ 481.20		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 3.90
SUBTOTALS				8		\$ 481.20		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 17,243.59
MARKUP %						15.00%		15.00%		15.00%		15.00%		15.00%		15.00%	\$ 940.94
SUBTOTALS WITH MARKUPS APPLIED						\$ 553.38		\$ 15.00%		\$ 15.00%		\$ 15.00%		\$ 15.00%		\$ 15.00%	\$ 18,709.63
BOND																	\$ 50.49
TOTAL																	\$ 18,710.00



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

December 6, 2021

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp-Telecom Exempt, Franklin, TN
Proposal #85

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal includes the following:

- 1) Furnish the labor and material for the complete telecom installation for added fiber from the City of Franklin Network Cabinet In the Admin Building to TTC-SB in the Solids Building.
- 2) The materials in this proposal have a two to four (2-4) weeks lead time from acceptance of this proposal.
- 3) WJGEI will need a notice to proceed to procure materials.

This proposal excludes the following:

- Cutting, patching, painting.
- Conduit, boxes, fittings.
- Electrical portion, if required.
- Replacements, or repairs to damaged ceiling tile or grid.
- Overtime and Premium Time.

Material	\$	8,716.56
Labor		6,201.78
Overhead & Profit		2,237.75
Subtotal	\$	17,156.09
Bond		87.50
Total	\$	17,243.59

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (919) 627-9724 ext. 8122 or jbradshaw@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



John L. Bradshaw
Project Manager - Telecom

JLB/hat

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Tim Roberson, Project Manager, Wayne J. Griffin Electric, Inc.
Keith Sanborn, Telecom Division Manager, Wayne J. Griffin Electric, Inc.
Thomas Herndon, Project Foreman-Telecom, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0085, 6198T Franklin Added Fiber
Date: 12/2/2021
Project Name: Franklin WRF Mods and Exp-Telecom E:
Project Number: 06198-T0-18
Page Number: 1

Work Description

This proposal includes the following:

- 1) Furnish the labor and material for the complete telecom installation for added fiber from PLC- 11 to PLC-01.
- 2) The materials in this proposal have a 2-4 weeks lead time from acceptance of this proposal.
- 3) WJGEI will need a notice to proceed to procure materials.

This proposal excludes the following:

- Cutting, patching, painting.
- Conduit, boxes, fittings.
- Electrical portion, if required.
- Replacements, or repairs to damaged ceiling tile or grid.
- Overtime and Premium Time

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	1.810
Cleanup	0.00	0.0000	HRS	0.000	0.000	1.810
Tools	0.00	0.0000	HRS	0.000	0.000	2.170
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	1.810
Supervision	0.00	0.0000	HRS	0.000	0.000	3.620
Project Controls	0.00	0.0000	HRS	0.000	0.000	3.620
12 Strand MM OM4 Fiber	2,640.00	2.3040	E	6,082.560	0.014	36.960
Corning Housing	2.00	136.0000	E	272.000	1.000	2.000
Corning ST Adapter Panel	2.00	104.0000	E	208.000	1.000	2.000
Corning ST Unicam Connectors	30.00	12.0000	E	360.000	0.500	15.000
Drawings/Coordination/Labeling	1.00	40.0000	E	40.000	8.000	8.000
Per Diem	8.00	125.0000	E	1,000.000	0.000	0.000
Testing	1.00	750.0000	E	750.000	8.000	8.000
Wrap Labels	2.00	2.0000	E	4.000	0.250	0.500
Totals				8,716.56		87.30
Tax				0.00		
Materials with Tax				8,716.56		

Summary

Itemized Breakdown Total		8,716.56
Telecom Journeyman	(87.3000 hrs @ \$71.04 / hr)	6,201.79
		6,201.79
Overhead & Profit	(\$14,918.34 @ 15.00%)	2,237.75
		2,237.75
Bond	(\$17,156.09 @ 0.51%)	87.50
		87.50
		2,325.25
Total		\$17,243.59

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2021 Breakdown of Craft Wage Burden Rates

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Wage Type	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 40.00	\$ 60.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 24.00	\$ 36.00
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 3.07	\$ 4.60	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.15	\$ 3.22	\$ 1.84	\$ 2.76
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.61	\$ 2.42	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.13	\$ 1.69	\$ 0.97	\$ 1.45
Additional Wages	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence	\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 60.15	\$ 82.49	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 42.26	\$ 57.89	\$ 37.79	\$ 51.19

Wage Type	Pipefitter (Foreman)		Pipefitter		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 4.22	\$ 5.69	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07	\$ 2.15	\$ 3.22	\$ 3.05	\$ 4.12	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 2.22	\$ 2.99	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14	\$ 1.13	\$ 1.69	\$ 1.60	\$ 2.16	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14
Additional Wages	\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 72.38	\$ 93.91	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29	\$ 42.26	\$ 57.89	\$ 55.34	\$ 70.97	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29

Wage Type	Survey		Electrician	
	Straight	OT	Straight	OT
Labor - Base Wages	\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 2.53	\$ 3.80	\$ 2.95	\$ 3.95
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.33	\$ 1.99	\$ 1.55	\$ 2.07
Additional Wages	\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 47.84	\$ 66.27	\$ 53.97	\$ 68.46



Kiewit

CP 118

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 9, 2022

To: Mr. Dan Harris

CP-KIEWIT-00198.02

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFI 520 – Elevator Cab Flooring (Rev. 1)

Dear Mr. Harris,

Attached you will find Kiewit's cost proposal for **RFI 520 – Elevator Cab Flooring** in the amount of **Two Thousand Seven Hundred Thirteen Dollars (\$2,713.00)**.

This proposal includes an increase in cost due to the selection of sheet type flooring as well as a credit for the "raised rubber flooring" included in the elevator specifications.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

Cc: File
Michelle Hatcher

PREPARED BY: Steve Davis

000-CostProposal-FranklinWRF-RFI 520



PROPOSAL

PAGE 1 OF 1

Submitted To: Kiewit	Attention: Peter Sestak	e-mail: Peter.Sestak@Kiewit.com
Address:	Project Location: Franklin, TN	Telephone: 470.503.5074
Project Name: Wastewater Treatment Plant - Rubber Flooring for Elevator Car		Date: 12.16.21

We propose to perform the following per drawings and specifications:

1. Provide and install Nora Sentica Rubber Flooring at Elevator cab.
2. Provide and install self-leveling up to 3/8" in the elevator cab to meet flush with the threshold.
3. Floor prep is limited to one (1) skim coat using Schonox SL (or similar) at all areas receiving glue-down flooring. All other floor prep is explicitly excluded.
4. Exclusions; the following are explicitly excluded from the scope of this proposal;
 - a. Post installation floor protection
 - b. Initial maintenance procedures
 - c. Moisture Testing
 - d. Demo of existing materials
 - e. Grinding, leveling, floating, filling, moisture emission control, and all other floor prep not specifically mentioned elsewhere within this proposal.

WE PROPOSE TO PROVIDE THE ABOVE FOR A BASE PRICE OF: \$2,831

Authorized By: Gerardo Perez

Accepted By:



Payment Terms: Net 30 Days

Any invoices arising from this agreement that are not paid per the terms will be subject to at maximum 1½% monthly service charge in addition to any associated collection costs and attorneys' fees.

Date: _____

Steven.Davis1

To: Peter.Sestak
Subject: RE: Kiewit - Franklin TN - Elevator Flooring

From: Gerardo Perez <Gerardo.Perez@becafloor.com>
Sent: Wednesday, February 9, 2022 11:15 AM
To: Peter.Sestak <Peter.Sestak@Kiewit.com>
Subject: [EXTERNAL] RE: Kiewit - Franklin TN - Elevator Flooring Color Selection

Peter –

Additional cost for sheet flooring is \$1,253.

Thanks,
Gerardo Perez – Project Manager

m.615-881-6327 o.615-661-4404





Parkview Towers
210 25th Avenue North, Suite 1102
Nashville, Tennessee 37203
tel: 615-771-2466
fax: 615-778-9733

March 28, 2022

Mr. Steve Davis
Kiewit Infrastructure South Co.
4405 International Blvd NW, Suite C-101
Norcross, GA 30093

Subject: Franklin WRF Expansion Project
Request for Proposal (RFP) No. 16

Dear Mr. Davis;

We have received your March 22, 2022 proposal in response to RFP No. 16. Your proposed cost of \$45,316 is acceptable and this work will be incorporated into a future change order.

Feel free to contact me with any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'D. Harris', with a stylized flourish at the end.

Daniel A. Harris, PMP, CCM, LEED GA
Senior Project Manager
CDM Smith

cc: Michelle Hatcher, City of Franklin
Brian Goodwin, City of Franklin
File 231666.05.02.10





Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 22, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

RFP-KIEWIT-00006.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFP-016 BNR 03 Existing Surface Aerator Impeller Coating

Dear Mr. Harris,

Attached you will find Kiewit's proposal for surface preparation and coating of the impellers for BNR No. 03 Existing Surface Aerators in accordance with **RFP No. 16 – BNR 03 Existing Surface Aerator Impeller Coating** in the amount of **Forty-Five Thousand Three Hundred Sixteen Dollars (\$45,316.00)**.

As requested, Kiewit has received pricing from a new painting contractor and will have to enter into a new agreement with this contractor prior to this work beginning, if the proposal is approved, which may take time, so Kiewit requests an expedited review of this proposal. Note that this work must be complete prior to Kiewit completing the work in the existing Clarifier Influent Distribution Box to avoid schedule delays with the start-up of BNR No. 03.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Commercial Painting, Inc.

350 Herron Drive, Nashville, TN. 37210
Tel.: 615.242.8212 / www.cpinash.com

REVISED PROPOSAL

DATE: 3/22/2022
SUBMITTED TO: Kiewit Corporation
PROJECT: Franklin WRF Impeller Rehab
ARCHITECT/ENGINEER: CDM Smith
DATE OF PLANS: N/A
ADDENDA: No Addendum Acknowledged
WAGE RATES: Wage Rate Acknowledged

SCOPE OF WORK:

Rehab Three (3) Existing Impellers

N69 OPTION:

- Surface Prep: SSPC-SP10 Near Metal Blast Cleaning
- 1st coat: Tnemec Omnithane Series 1 @ 2.5 – 3.5 mils dft
 - Color: **Greenish-Gray**
- 2nd coat: Tnemec Hi-Build Epoxoline II Series N69 @ 3.0 – 5.0 mils dft
 - Color: **00WH Tnemec White**
- Stripe coat: Tnemec Hi-Build Epoxoline II Series N69 brush applied to welds and edges
 - Color: **32GR Light Gray**
- 2nd coat: Tnemec Hi-Build Epoxoline II Series N69 @ 3.0 – 5.0 mils dft
 - Color: **33GR Gray/ANSI No. 61 (To Be Verified)**

Impellers done on site in place:

- CPI to mobilize, provide access and containment, clean up and demobilize
 - COST: \$41,700.00

Bobby K. Tate

Bobby K. Tate
Commercial Painting, Inc
629-202-7866
btate@cpinash.com

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2022 Breakdown of Craft Wage Burden Rates

Wage Type	Burden %	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 44.00	\$ 66.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 24.00	\$ 36.00
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 3.50	\$ 5.25	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.39	\$ 3.58	\$ 1.91	\$ 2.87
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 2.61	\$ 3.92	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.78	\$ 2.67	\$ 1.43	\$ 2.14
Additional Wages		\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence		\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 65.25	\$ 90.30	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 44.81	\$ 61.90	\$ 37.98	\$ 51.64

Wage Type	Burden %	Pipefitter (Foreman)		Pipefitter/Welder		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 4.38	\$ 5.91	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.28	\$ 2.23	\$ 3.34	\$ 3.16	\$ 4.28	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.23
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 3.27	\$ 4.41	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.19	\$ 1.66	\$ 2.49	\$ 2.36	\$ 3.19	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.15
Additional Wages		\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 11.71	\$ 11.71	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence		\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 73.25	\$ 95.21	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.82	\$ 42.53	\$ 58.48	\$ 55.87	\$ 71.82	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.12

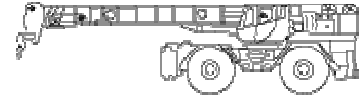
Wage Type	Burden %	Survey		Electrician	
		Straight	OT	Straight	OT
Labor - Base Wages		\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 2.63	\$ 3.94	\$ 3.06	\$ 4.10
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 1.96	\$ 2.94	\$ 2.29	\$ 3.06
Additional Wages		\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence		\$ 13.92	\$ 13.92	\$ 8.35	\$ 8.35
Total		\$ 53.80	\$ 72.59	\$ 54.48	\$ 69.25

Rental Rate Blue Book®

June 1, 2020

Tadano GR-800XL-1 (disc. 2010)

Rough Terrain Hydraulic Cranes



Size Class:

66.0 - 80.9 MTons

Weight:

107965 lbs

Configuration for GR-800XL-1 (disc. 2010)

Axle Configuration	4 X 4 X 4	Maximum Boom Length	144.4 ft
Maximum Lift Capacity	72.6 mt	Net Horsepower	270.0 hp
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$15,285.00	USD \$4,280.00	USD \$1,070.00	USD \$160.00	USD \$96.17	USD \$183.02
Adjustments						
Region (Franklin, Tennessee: 108%)	USD \$1,222.80	USD \$342.40	USD \$85.60	USD \$12.80		
Model Year (2010: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$16,507.80	USD \$4,622.40	USD \$1,155.60	USD \$172.80	USD \$96.17	USD \$189.96

Non-Active Use Rates

Hourly

Standby Rate	USD \$51.59
Idling Rate	USD \$127.66

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	38%	USD \$5,808.30/mo
Overhaul (ownership)	45%	USD \$6,878.25/mo
CFC (ownership)	10%	USD \$1,528.50/mo
Indirect (ownership)	7%	USD \$1,069.95/mo
Fuel (operating) @ USD 3.07	35%	USD \$33.87/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)



Kiewit

CP 131

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 17, 2022

To: Mr. Dan Harris CP-KIEWIT-00210.00
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for RFI No. 541 – SP-GWH-3

Dear Mr. Harris,

Attached you will find Kiewit's proposal for furnishing and installing an emergency stop for the gas fired water heaters in the storage room in the Solids Processing Building in accordance with the response to **RFI No. 541 – E-Stop for SP-GWH-3** in the amount of **One-Thousand Four Hundred Sixteen Dollars (\$1,416.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

RFI No. 541 - E-Stop for SP-GWH-3

[illegible]



WAYNE J.
GRIFFIN ELECTRIC
INC.

March 16, 2022

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp., Franklin, TN
Proposal #92

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is to provide and install one (1) NEMA 4X Emergency Stop Station including conduit and wiring for SP-GWH-3 located in the Solids Process Building.

Material	\$	549.53
Labor		617.25
Overhead & Profit		175.02
Subtotal	\$	1,341.80
Bond		6.84
Total	\$	1,348.64

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-6188 or nyoung@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Nicholas A. Young
Project Manager

NAY/kab

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Brian Harlow, Project Controls Specialist, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0092, ESTOP FOR SP-GWH-3
Date: 3/14/2022
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is to provide & install one NEMA 4X Emergency Stop Station including conduit & wiring for SP-GWH-3 located in the Solids Process Building.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	0.180
Cleanup	0.00	0.0000	HRS	0.000	0.000	0.180
Tools	0.00	0.0000	HRS	0.000	0.000	0.220
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	0.180
Supervision	0.00	0.0000	HRS	0.000	0.000	0.360
Project Controls	0.00	0.0000	HRS	0.000	0.000	0.360
NEMA 4X EMERGENCY STOP STATION	1.00	245.2600		245.260	2.000	2.000
3/4" ALUMINUM CONDUIT	25.00	5.6424	FT	141.060	0.055	1.375
3/4" ALUMINUM 90D ELBOW	1.00	17.2300	EA	17.230	0.300	0.300
3/4" ALUM COUPLING	2.00	6.2350	EA	12.470	0.300	0.600
3/4" MYERS HUBS ALUMINUM	1.00	9.8000	EA	9.800	0.300	0.300
3/4" LIQUID TIGHT CONDUIT UL	3.00	2.5933	FT	7.780	0.050	0.150
3/4" LIQUID TIGHT STEEL STRAIGHT I.T. INSULATED CONN	2.00	6.3050	EA	12.610	0.180	0.360
#12 XHHW COPPER WIRE	92.00	0.4807	FT	44.220	0.007	0.644
3/4 S-STEEL MINERALLAC HANGERS W/BOLT	5.00	5.4260	EA	27.130	0.250	1.250
1/4 X 1 1/4" FENDER WASHER (SS)	4.00	0.2250	EA	0.900	0.001	0.005
1/4" HOLLOW WALL ANCHOR	9.00	3.4522	EA	31.070	0.025	0.225
Totals				549.53		8.69
Tax				0.00		
Materials with Tax				549.53		

Summary

Itemized Breakdown Total		549.53
Elect. Journeyman	(8.6888 hrs @ \$71.04 / hr)	617.25
		617.25
Overhead & Profit	(\$1,166.78 @ 15.00%)	175.02
		175.02
Bond	(\$1,341.80 @ 0.51%)	6.84
		6.84
		181.86
Total		\$1,348.64



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 8, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203
CP-KIEWIT-00206.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for RFI 525 – Hot Water Pump Controls

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for the response to RFI #525 – Hot Water Pump Controls in the amount of **Ten Thousand Five Hundred Forty-Three Dollars (\$10,543.00)**.

This proposal is for modifying MCC control buckets for Pumps P-4620-1, P-4620-2, P-4630-1, and P-4630-2 to add an alarm circuit to monitor the check valve associated with each pump per the revised elementary diagrams provided in the response to RFI 525

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

Cc: File
Michelle Hatcher



Change Proposal for RFI 525 - Hot Water Pumps

PREPARED BY: Steve Davis

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Modifications to MCC-7 and MCC-8 for Hot Water Pumps															
Modifications to Control Buckets for Hot Water Pumps	1.00	LS				\$ -		\$ -		\$ -	\$ 10,040.56	\$ 10,040.56		\$ -	\$ 10,040.56
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.															
OTHER															
STS - small tools, consumables, safety equip, (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)															
		MHR				\$ -							\$ 5.00	\$ -	\$ -
TAX: (9.75% of Material, Equipment, Other)															
															\$ -
SUBTOTALS						\$ -		\$ -		\$ -	\$ 10,040.56	\$ 10,040.56		\$ -	\$ 10,040.56
MARKUP %						15.00%		15.00%		15.00%	5.00%		15.00%		502.03
SUBTOTALS WITH MARKUPS APPLIED															
											\$10,542.59				\$10,542.59
BOND															
TOTAL															
															\$10,543.00



WAYNE J.
GRIFFIN ELECTRIC
INC.

January 26, 2022

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp, Franklin, TN
Proposal #89

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is for modifying MCC control buckets for Pumps P-4620-1, P-4620-2, P-4630-1, and P-4630-2 to add an alarm circuit to monitor the check valve associated with each pump per the revised elementary diagrams provided in the response to RFI 525.

Material	\$	5,947.33
Labor		2,739.29
Overhead & Profit		1,302.99
Subtotal	\$	9,989.61
Bond		50.95
Total	\$	10,040.56

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval, and acceptance.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at nyoung@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.

A handwritten signature in black ink, reading "Nicholas Young", is written over a rectangular box.

Nicholas A. Young
Project Manager

NAY/hat

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0089, RFI 525 Response MCC Bucket Mods
Date: 1/22/2022
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is for modifying MCC control buckets for Pumps P-4620-1, P-4620-2, P-4630-1, & P-4630-2 to add an alarm circuit to monitor the check valve associated with each pump per the revised elementary diagrams provided in the response to RFI 525.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	0.800
Cleanup	0.00	0.0000	HRS	0.000	0.000	0.800
Tools	0.00	0.0000	HRS	0.000	0.000	0.960
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	0.800
Supervision	0.00	0.0000	HRS	0.000	0.000	1.600
Project Controls	0.00	0.0000	HRS	0.000	0.000	1.600
EATON RESET NAMEPLATE 10250TM29	4.00	4.0000		16.000	0.000	0.000
EATON PILOT LIGHT 10250T297LAP2A	4.00	152.0000		608.000	0.000	0.000
AGASTAT 0-300 TIMMING RELAY 7014AK	4.00	1,255.0000		5,020.000	0.000	0.000
CHECK VALVE FAIL NAMEPLATE	4.00	9.5000		38.000	0.000	0.000
EATON N.C. PUSH BUTTON 10250T101-51	4.00	46.0000		184.000	0.000	0.000
MCC BUCKET MODIFICATION LABOR	4.00	0.0000		0.000	8.000	32.000
#14 XHHW COPPER WIRE	104.00	0.3555	FT	36.970	0.000	0.000
11.5" TY-WRAP	51.00	0.8698	EA	44.360	0.000	0.000
Totals				5,947.33		38.56
Tax				0.00		
Materials with Tax				5,947.33		

Summary

Itemized Breakdown Total		5,947.33
Elect. Journeyman	(38.5600 hrs @ \$71.04 / hr)	2,739.30
		2,739.30
Overhead & Profit	(\$8,686.62 @ 15.00%)	1,302.99
		1,302.99
Bond	(\$9,989.61 @ 0.51%)	50.95
		50.95
		1,353.94
Total		\$10,040.56



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

December 21, 2021

To: Mr. Dan Harris CP-KIEWIT-00182.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFI 486 – UV Box Differing Field Conditions

Dear Mr. Harris,

Attached you will find Kiewit's cost proposal for **RFI 486 – UV Box Differing Field Conditions** in the amount of **Eleven Thousand Eight Hundred Thirteen Dollars (\$11,813.00)**.

The cost proposal includes the work involved with pre-casting the new UV diversion box tops as well as the dimensional changes made to the UV effluent box.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



RFI NO.: 486 - UV Box Differing Field Conditions

PREPARED BY: Galileo Rivera-Tobar

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Cast in Place Top (Credit)						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Erect/Strip Edge Forms (1' - 4')	(120.00)	SF				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	(1.00)	EA	15.00	(15)	\$ 60.15	\$ (902.25)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (902.25)
Carpenter	(1.00)	EA	15.00	(15)	\$ 55.34	\$ (830.10)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (830.10)
Erect/Strip Soffit including Joists	(200.00)	SF				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	(1.00)	EA	12.50	(13)	\$ 60.15	\$ (751.88)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (751.88)
Carpenter	(3.00)	EA	12.50	(39)	\$ 55.34	\$ (2,075.25)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,075.25)
Place/Finish/Cure	(14.19)	CY				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	(1.00)	EA	3.50	(4)	\$ 60.15	\$ (210.53)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (210.53)
Carpenter	(3.00)	EA	3.50	(11)	\$ 55.34	\$ (581.07)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (581.07)
Operator (P/C)	(1.00)	EA	3.50	(4)	\$ 47.67	\$ (166.85)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (166.85)
Shoring (EIS Shoring System)	(1.00)	LS				\$ -	\$ -	\$ -	\$ 924.35	\$ (924.35)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (924.35)
Concrete	(14.20)	CY				\$ -	\$ -	\$ -	\$ 133.50	\$ (1,895.70)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,895.70)
Todano 75TN Crane	(3.50)	HR				\$ -	\$ -	\$ -	\$ -	\$ -	\$ 189.86	\$ (664.51)	\$ -	\$ -	\$ -	\$ -	\$ (664.51)
Precast Top (Kiewit)						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Erect/Strip Edge Forms (1' - 0')	100.00	SF				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	1.00	EA	15.00	15	\$ 60.15	\$ 902.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 902.25
Carpenter	1.00	EA	15.00	15	\$ 55.34	\$ 830.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 830.10
Finegrade	364.00	SF				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	1.00	EA	4.00	4	\$ 60.15	\$ 240.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240.60
Laborer	2.00	EA	4.00	8	\$ 55.34	\$ 442.72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 442.72
Place/Finish/Cure	11.56	CY				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	1.00	EA	5.00	5	\$ 60.15	\$ 300.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300.75
Carpenter	3.00	EA	5.00	15	\$ 55.34	\$ 830.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 830.10
Install Neoprene Bearing Pads	92.00	LF				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	1.00	EA	3.00	3	\$ 60.15	\$ 180.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 180.45
Carpenter	1.00	EA	3.00	3	\$ 55.34	\$ 166.02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 166.02
Set Precast Tops	2.00	EA				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	1.00	EA	5.00	5	\$ 60.15	\$ 300.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300.75
Carpenter	1.00	EA	5.00	5	\$ 55.34	\$ 276.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 276.70
Crane Operator	1.00	EA	5.00	5	\$ 47.67	\$ 238.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 238.35
Sand (Onsite Precast Laydown)	7.00	Ton				\$ -	\$ -	\$ -	\$ 21.50	\$ 150.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150.50
6 mil Plastic Roll (20' x 100')	1.00	Roll				\$ -	\$ -	\$ -	\$ 140.00	\$ 140.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140.00
Dayton Superior Utility Anchors	1.00	LS				\$ -	\$ -	\$ -	\$ 261.86	\$ 261.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 261.86
Neoprene Bearing Pads (12" x 12' x 12FT)	8.00	EA				\$ -	\$ -	\$ -	\$ 689.73	\$ 5,517.84	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,517.84
Concrete	11.33	CY				\$ -	\$ -	\$ -	\$ 133.50	\$ 1,512.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,512.56
Rebar Change	1.00	LS				\$ -	\$ -	\$ -	\$ 4,021.00	\$ 4,021.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,021.00
Todano 75TN Crane (Setting Tops)	5.00	HR				\$ -	\$ -	\$ -	\$ -	\$ -	\$ 189.86	\$ 949.30	\$ -	\$ -	\$ -	\$ -	\$ 949.30
Add for Dimensional Changes on the Effluent Diversion Box						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Erect/Strip	60.00	SF				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	1.00	EA	5.00	5	\$ 60.15	\$ 300.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300.75
Carpenter	2.00	EA	5.00	10	\$ 55.34	\$ 553.40	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 553.40
Install Rebar	0.18	TN				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	1.00	EA	2.00	2	\$ 60.15	\$ 120.30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120.30

000-CostProposal-FranklinWRF-RFI 486 Kian

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2021 Breakdown of Craft Wage Burden Rates

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Wage Type	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 40.00	\$ 60.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 24.00	\$ 36.00
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 3.07	\$ 4.60	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.15	\$ 3.22	\$ 1.84	\$ 2.76
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.61	\$ 2.42	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.13	\$ 1.69	\$ 0.97	\$ 1.45
Additional Wages	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence	\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 60.15	\$ 82.49	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 42.26	\$ 57.89	\$ 37.79	\$ 51.19

Wage Type	Pipefitter (Foreman)		Pipefitter		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 4.22	\$ 5.69	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07	\$ 2.15	\$ 3.22	\$ 3.05	\$ 4.12	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 2.22	\$ 2.99	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14	\$ 1.13	\$ 1.69	\$ 1.60	\$ 2.16	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14
Additional Wages	\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 72.38	\$ 93.91	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29	\$ 42.26	\$ 57.89	\$ 55.34	\$ 70.97	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29

Wage Type	Survey		Electrician	
	Straight	OT	Straight	OT
Labor - Base Wages	\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 2.53	\$ 3.80	\$ 2.95	\$ 3.95
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.33	\$ 1.99	\$ 1.55	\$ 2.07
Additional Wages	\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 47.84	\$ 66.27	\$ 53.97	\$ 68.46

Quotation

Bill-To-Party : 119957 KIEWIT CORPORATION 1000 KIEWIT PLAZA OMAHA NE 68131		Information Quotation Number 20975214 Quotation Created Date 10/25/2021 Customer Number 119957			
Ship-To-Party : 5330737 KIEWIT WWTP 135 CLAUDE YATES DRIVE FRANKLIN TN 37064		Inside Salesman Jeff Ervin Outside Salesman Dave Brown QUOTE VALID FOR 5 DAY/S Expires 10/30/2021			
Notes from the Customer:					
Item	Material	Quantity	Price Per	Unit	Amount
*10	LUMBER 4IN X 6IN X 16FT PRES TRTD	4 EA	62.26 \$	1 EA	249.04
*20	LUM-4X4X16 #2 SYP 4IN X 4IN X 16FT #2 SYP	8 EA	22.47 \$	1 EA	179.76
*30	LUM-3/4 CDX PLYWD 3/4" X 4' X 8' CDX PINE PLYWOOD	6 EA	38.88 \$	1 EA	233.28
*40	COMMODITY ELLIS C-4 CLAMPS	8 EA	16.00 \$	1 EA	128.00
*50	COMMODITY SH-4C 4X4 SHORE CUP	4 EA	14.00 \$	1 EA	56.00
Items total:					846.08
*Sales Tax:					78.27
Sales Coupon:					0.00
Total Amount:					\$ 924.35

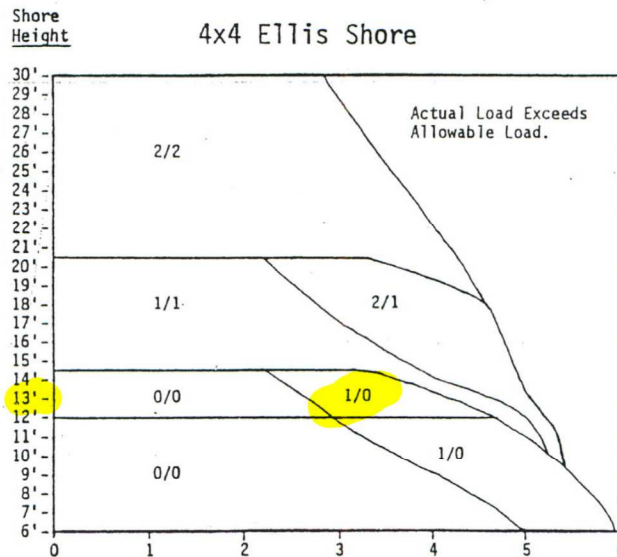
Signature _____ Date _____

ELLIS SHORE ALLOWABLE LOAD CHARTS

These Charts Are Based On #1 Douglas Fir Or #1 Southern Pine Used At 19% Max. Moisture Content. The Following Design Values Are Taken From DESIGN VALUES FOR WOOD CONSTRUCTION, A Supplement To The 1986 Edition Of NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).

$F_b = 1700 \text{ PSI}$, $F_c = 1250 \text{ PSI}$, $E = 1,700,000 \text{ PSI}$

For the most efficient use of an Ellis Shore's strength, the clamps should be approximately at the midpoint on the shore. This will keep lateral deflection at a minimum. These charts are representative of the clamps used at midpoint for shore heights up to 12' high. For shore heights of 12' and over use a 7' lower shore member.



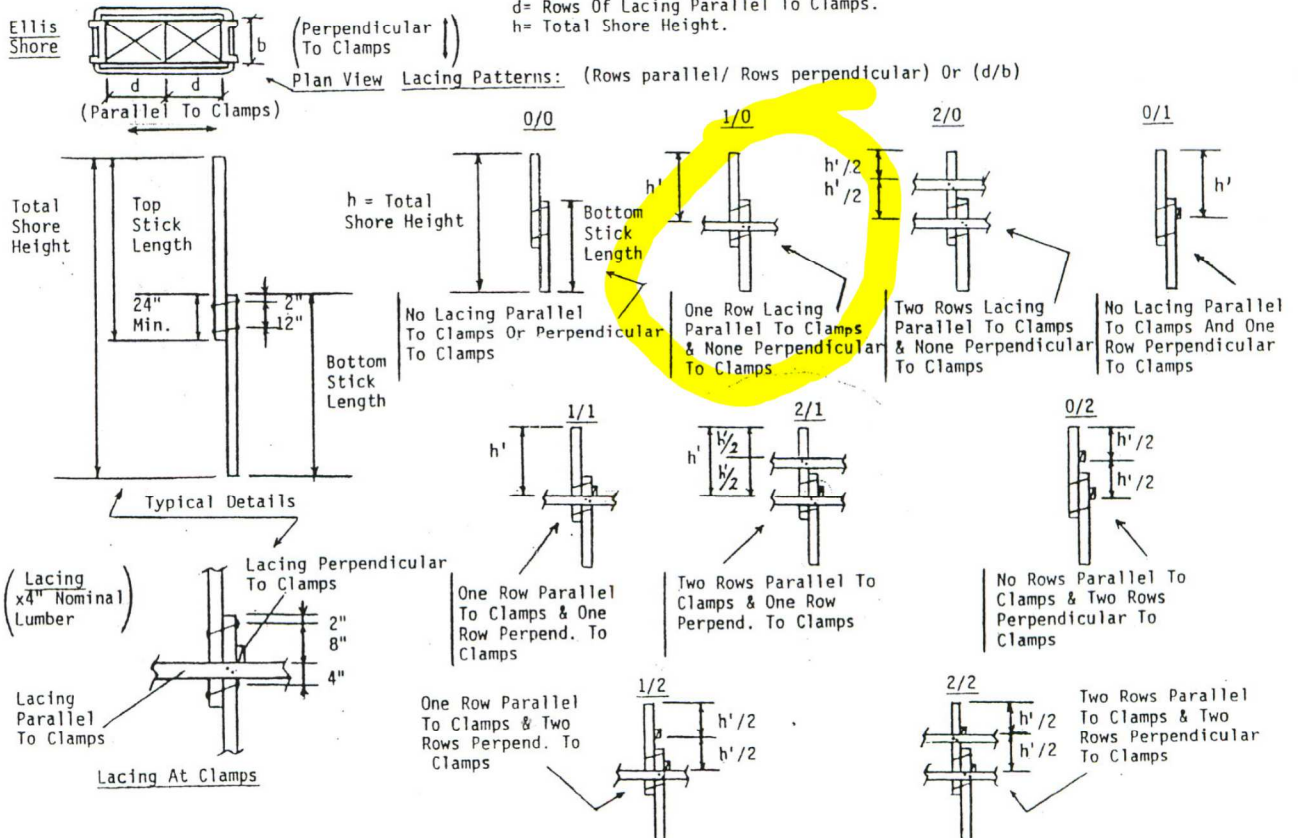
ELLIS SHORE LACING CHART

KEY TO SYMBOLS:

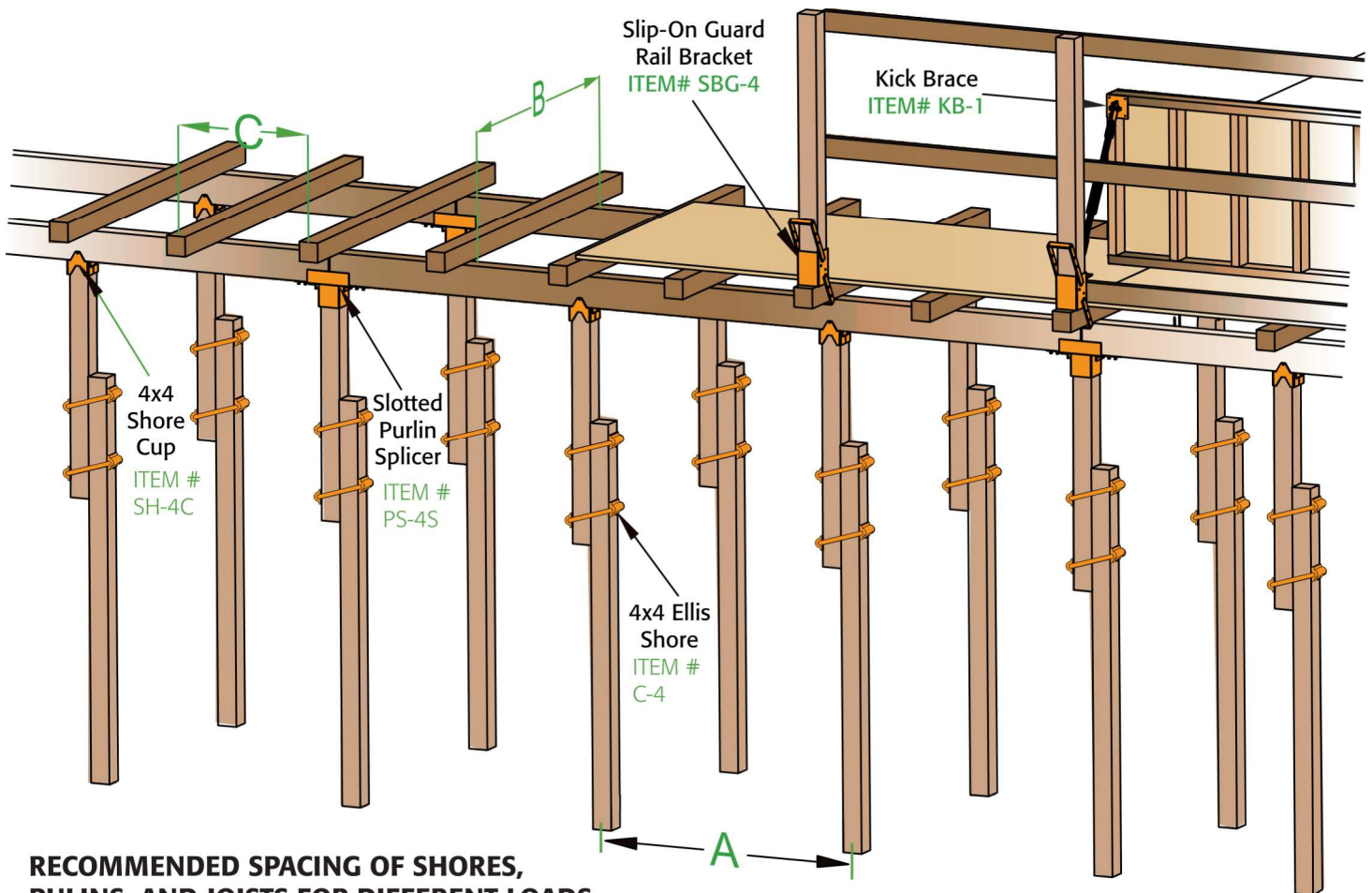
b = Rows Of Lacing Perpendicular To Clamps.

d = Rows Of Lacing Parallel To Clamps.

h = Total Shore Height.



SPACING FOR ELLIS SHORES, PURLINS, AND JOISTS.



RECOMMENDED SPACING OF SHORES, PULINS, AND JOISTS FOR DIFFERENT LOADS.

4X6 PURLINS W/ 4X4 JOISTS			
SLAB THICKNESS	A	B	C
4" OR UNDER	5'-0"	6'-0"	2'-0"
5" TO 7"	5'-0"	5'-0"	2'-0"
8" TO 9-1/2"	4'-6"	5'-0"	2'-0"
10" TO 12"	4'-0"	5'-0"	1'-8"
13" TO 14"	4'-0"	4'-6"	1'-8"

4X4 PURLINS W/ 4X4 JOISTS			
SLAB THICKNESS	A	B	C
4" OR UNDER	4'-0"	5'-0"	2'-0"
5" TO 7"	4'-0"	4'-0"	2'-0"
8" TO 9-1/2"	4'-0"	3'-0"	2'-0"
10" TO 14"	3'-6"	3'-0"	1'-8"

Douglas Fir, Construction Grade Joist and Purlins. 3/4" Plywood held strong way over Joists with face grain parallel to span. Maximum deflection L/360.

PLYWOOD DECKING GRAPH INDICATES SUGGESTED SPACING OF PLYWOOD SUPPORTS (JOISTS) AT CERTAIN SLAB THICKNESSES USING 5/8" OR 3/4" PLYWOOD. SOLID AND DOTTED LINES INDICATE THE DEFLECTION OF THE SPAN AT CORRESPONDING SLAB THICKNESSES AND PLYWOOD SUPPORT SPACINGS.

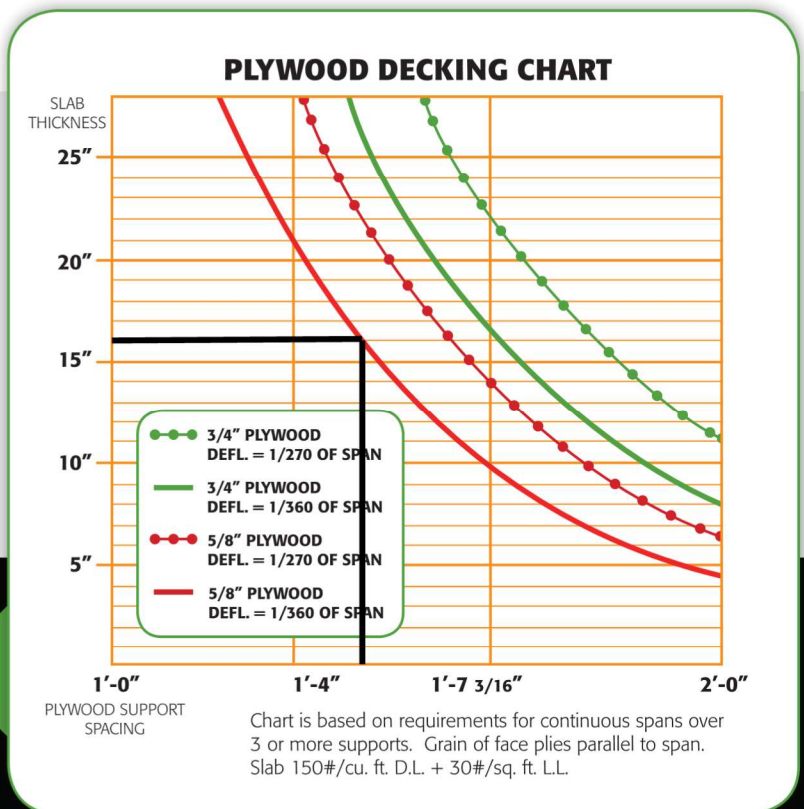
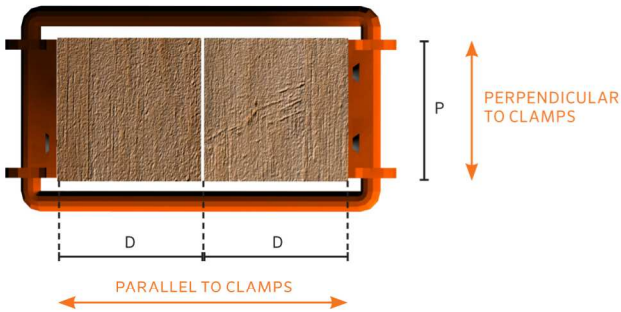


DIAGRAM A: TOP VIEW

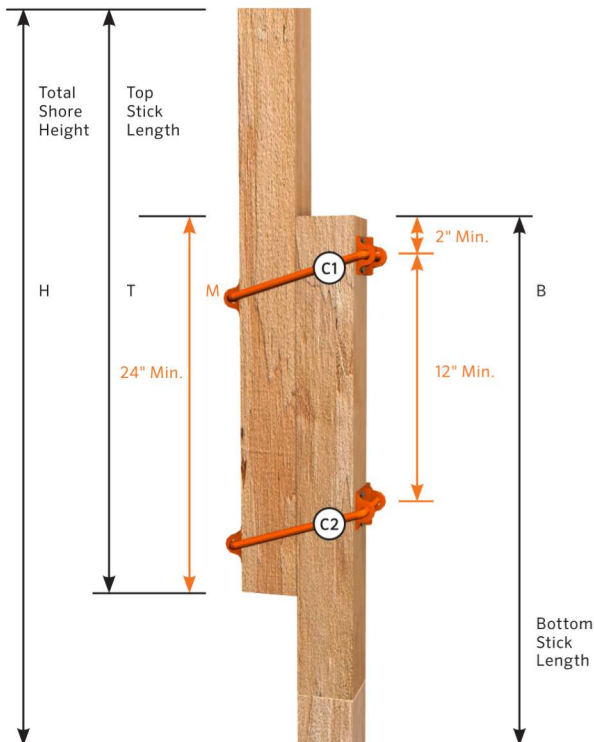


D = Lacing Parallel to Clamps
P = Lacing Perpendicular to Clamps

LACING PATTERNS & SETUP

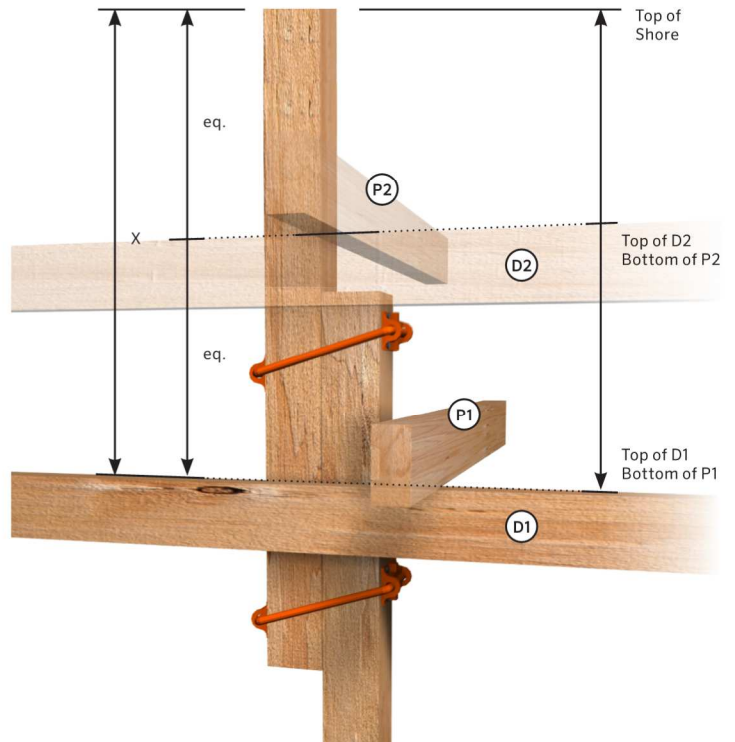
Each lacing pattern can be understood as Rows parallel to clamps / Rows perpendicular to clamps or (D/P). Lacing patterns all share the same basic Ellis Shore™ setup shown in "Diagram B". The top Ellis Clamp™ should be placed a minimum of 2" from top of lower shore member and be a minimum of 12" from second Ellis Clamp™. Lacing Ellis Shores is simple. The first row of parallel lacing (D1) is always placed just above the bottom Ellis Clamp™ and fastened to the lower shore member only. While the first row of perpendicular lacing (P1) is always placed between the Ellis Clamps™ just above the parallel lacing (D1) and fastened to the lower shore member. The final 2 rows of parallel (D2) and perpendicular (P2) lacings are placed halfway between the top of the first row (D1) and the top of the shore. See "Diagram C" for more details.

DIAGRAM B: BASIC SHORE SETUP



H = Total Shore Height
T = Upper Shore Length
B = Lower Shore Length
M = Shore Midpoint
C = Clamps

DIAGRAM C: LACING POSITIONING

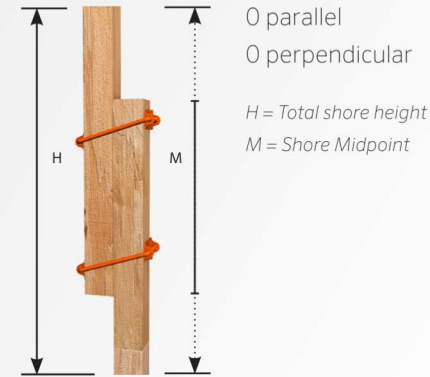


D = Lacing Parallel to Ellis Clamps™
P = Lacing Perpendicular to Ellis Clamps™
X = Distance from Supported Structure to First Lacing (D1/P1)

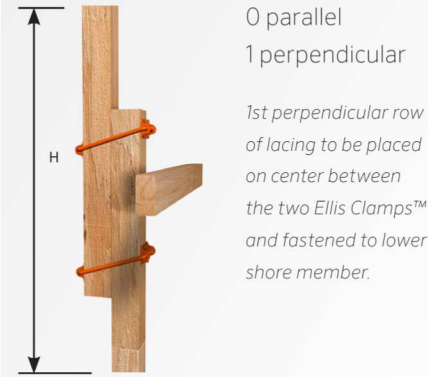
LACING VARIANTS

To obtain the most load value from your Ellis Shores™ and keep lateral deflection at a minimum, the Ellis Clamps™ should be approximately at the midpoint of the shore.

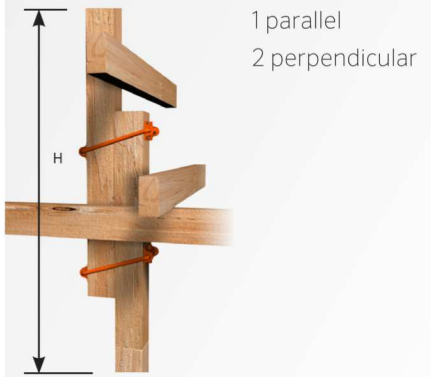
LACING (0/0)



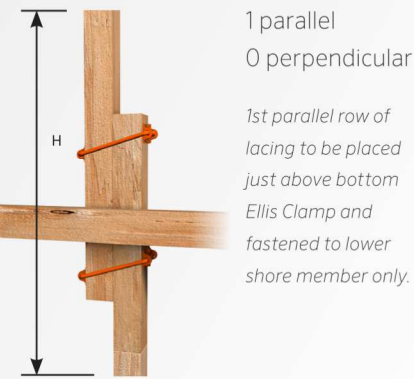
LACING (0/1)



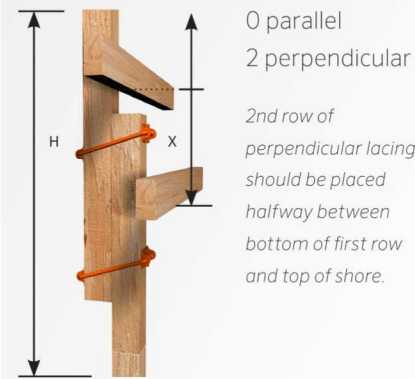
LACING (1/2)



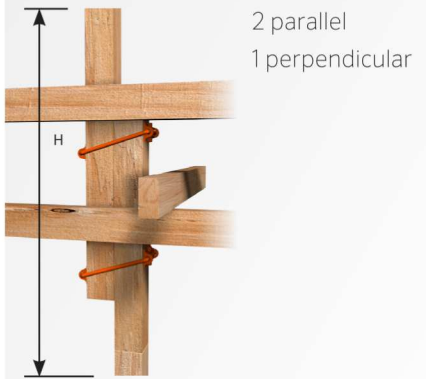
LACING (1/0)



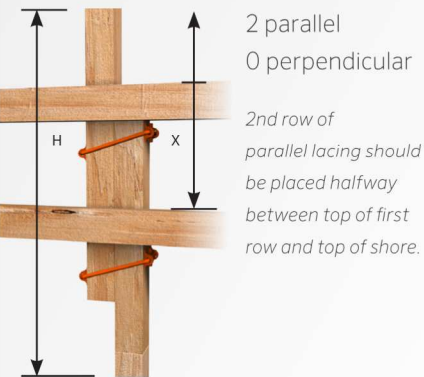
LACING (0/2)



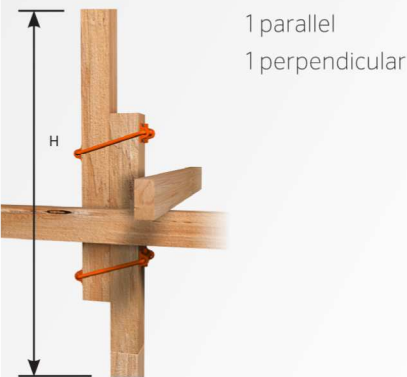
LACING (2/1)



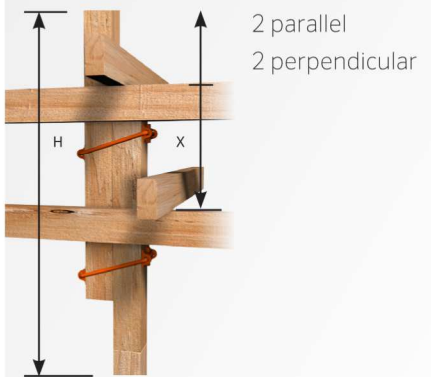
LACING (2/0)



LACING (1/1)



LACING (2/2)



HOW TO BUILD THE ELLIS SHORING SYSTEM.



How to increase profits on concrete forming: adopt Ellis Methods for all suspended reinforced concrete construction! Through the use of simple, low-cost, standardized wood and metal parts in a way that has been proved fast, safe and economical, you can slash your costs tremendously!

DETERMINE SPACING



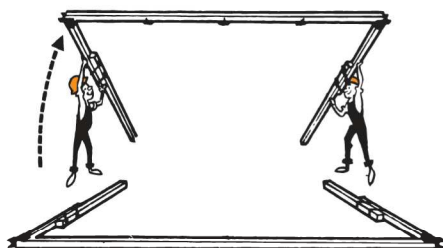
See catalog to get shore, purlin and joist spacing. (see previous page).

ATTACH METAL PARTS



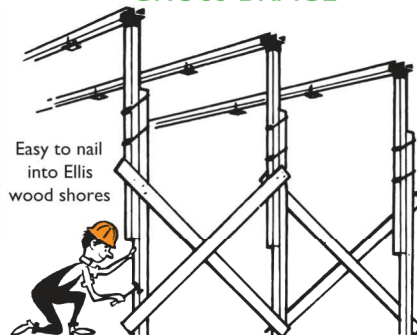
On ground, attach Ellis metal parts to lumber.

U-PURLIN ASSEMBLIES



Make series of U-purlin assemblies on ground, each consisting of 2 Ellis shores and one purlin, then raise.

CROSS BRACE



Easy to nail into Ellis wood shores

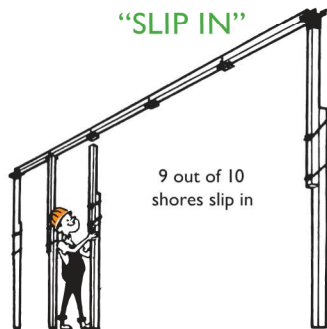
Cross brace these inverted U's so they are free standing.

JACK LEVEL



Level whole system of purlins and end shores by story pole or string method, using Ellis Jack. (pg. 4).

"SLIP IN"

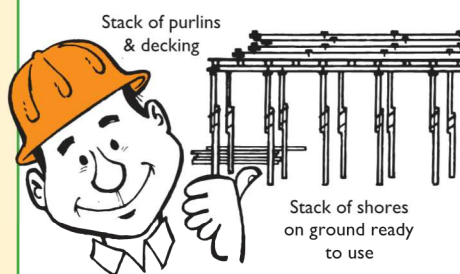


9 out of 10 shores slip in

In-between shores just "slip in." (1 row pictured - actually many.)

Extend shored area by 1 of 2 methods

COMPLETE A SECTION

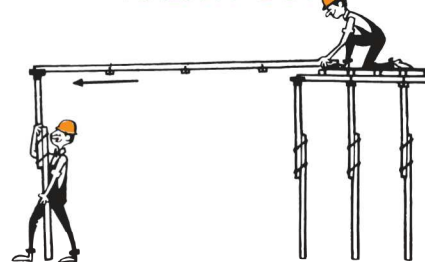


Stack of purlins & decking

Stack of shores on ground ready to use

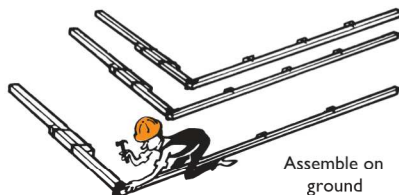
METHOD A. Complete a section with joists and decking. Stack purlins on top, shores below.

"WALK IT OUT"



Man above pushes purlin end out, man below slips shore into purlin splicer, walk it out. Top man seats and nails it.

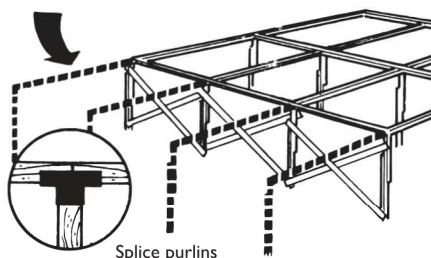
OR- EXTEND WITH "L" ASSEMBLIES



Assemble on ground

METHOD B. To shore entire area before decking, make series of L's with 1 shore to 1 purlin.

ADD "L" ASSEMBLIES



Splice purlins

Erect L's, seating free end of each in purlin splicer left open, nail, cross brace as before.

COMPLETE & DECK



Then level, add slip-in shores, joists and decking to complete. Either method does a great job!

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Job No.: 103925

Seller Name: Imi Tennessee LLC
Material Contract No.: 103925-MC-064
Contract ID No. 809941

EXHIBIT D

MATERIAL CONTRACT CHANGE ORDER

Job Name: Franklin WRF Modifications & Expansion Project

Job No. 103925

Material Contract No. 103925-MC-064

Company No. 1044

Material Contract Change Order No. 1

TO: (Seller's Name and Address)

FROM: (Contractor's Name and Address)

IMI Tennessee LLC

Klewit Infrastructure South Co.

2001 Antloch Pike

4405 International Blvd., NW, Suite C-101

Nashville, TN 37013

Norcross, GA 30093

Pursuant to the "Changes" clause of the Material Contract, the following changes are made:

1. See approximate quantities in table below.

2.0 Including But Not Limited to:

1. The unit prices in the Schedule of Values are firm through February 28, 2021, and shall increase \$9.00 per cubic yard annually thereafter. Quantities may increase or decrease at Contractor's option. Seller shall be paid only for actual quantities received and verified by Contractor.
2. BOND(s): Not Required
3. Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
4. Material is not exempt from sales or use taxes.
5. Seller shall attend and participate in Contractor's daily and/or weekly scheduling and coordination meetings as determined by the Contractor.
6. Seller shall submit a quality plan to Contractor prior to start of Work.
7. Seller shall provide all required material certifications or tests prior to or upon delivery of materials to site.
8. Contractor shall receive a ~~0%~~ ^{\$13.00} discount on all proper invoices paid within 10 days after Contractor's receipt.

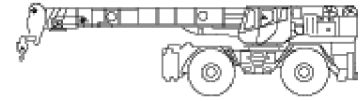
8	Fiber Force	Lb	\$7.00	100	\$	700.00
9	Ice	Lb	\$0.40	3,150	\$	1,260.00
10	4500 N CF SStone SD	CY	\$123.50	150	\$	18,525.00
11	2500 A CF SStone SD	CY	\$104.00	100	\$	10,400.00
12	MRWR (Mid Range WR)	CY	\$5.00	50	\$	250.00
13	3500 A CF SStone SD	CY	\$124.50	90	\$	11,205.00
14	Winter Service Fee	Ea	\$4.00	300	\$	1,200.00
Total Contract Value					\$	717,265.00

Rental Rate Blue Book®

June 1, 2020

Tadano GR-800XL-1 (disc. 2010)

Rough Terrain Hydraulic Cranes



Size Class:

66.0 - 80.9 MTons

Weight:

107965 lbs

Configuration for GR-800XL-1 (disc. 2010)

Axle Configuration	4 X 4 X 4	Maximum Boom Length	144.4 ft
Maximum Lift Capacity	72.6 mt	Net Horsepower	270.0 hp
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$15,285.00	USD \$4,280.00	USD \$1,070.00	USD \$160.00	USD \$96.17	USD \$183.02
Adjustments						
Region (Franklin, Tennessee: 108%)	USD \$1,222.80	USD \$342.40	USD \$85.60	USD \$12.80		
Model Year (2010: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$16,507.80	USD \$4,622.40	USD \$1,155.60	USD \$172.80	USD \$96.17	USD \$189.96

Non-Active Use Rates

Hourly

Standby Rate	USD \$51.59
Idling Rate	USD \$127.66

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	38%	USD \$5,808.30/mo
Overhaul (ownership)	45%	USD \$6,878.25/mo
CFC (ownership)	10%	USD \$1,528.50/mo
Indirect (ownership)	7%	USD \$1,069.95/mo
Fuel (operating) @ USD 3.07	35%	USD \$33.87/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

EXHIBIT D

MATERIAL CONTRACT CHANGE ORDER

Job Name: Franklin WRF Modifications & Expansion Project Job No. 103925

Material Contract No. 103925-MC-001

Contract ID No. MXXXXXX-XXX

Material Contract Change Order No. 06

Company No. 1044

TO: (Seller's Name and Address)

FROM: (Contractor's Name and Address)

Rogers Group, Inc.

Kiewit Infrastructure South Co.

646 Highway 99

4405 International Blvd., NW, Suite C-101

Lewisburg, TN 37091

Norcross, GA 30093

Pursuant to the "Changes" clause of the Material Contract, the following changes are made:

Item	Description	Unit	Unit Price	New Quantity	Total
1	TDOT 57	TON	\$ 18.00	51,656.00	\$ 929,808.00
2	TDOT Grade D	TON	\$ 12.50	28,093.00	\$ 350,412.50
3	Class A3 Rip Rap	TON	\$ 21.00	1,500.00	\$ 31,500.00
4	Surge Stone	TON	\$ 13.00	9,674.80	\$ 125,772.41
5	Class A1 Rip Rap	TON	\$ 21.00	320.00	\$ 6,720.00
6	2-3 Stone	TON	\$ 17.75	2,527.00	\$ 44,854.25
7	TDOT #4 Stone	TON	\$ 17.75	200.00	\$ 3,550.00
8	TDOT Grade D (building pad)	TON	\$ 11.50	4,878.00	\$ 56,097.00
9	Strippings	TON	\$ 8.50	66.27	\$ 563.30
10	1.5 Stone	TON	\$ 17.75	306.48	\$ 5,440.02
11	TDOT T&W Hauls	TON	\$ 7.00	300.00	\$ 2,100.00
12	TDOT T&W Hauls 57	TON	\$ 12.50	100.00	\$ 1,250.00
13	1/4" to dust	TON	\$ 10.50	250.00	\$ 2,625.00
15	Sand	TON	\$ 21.50	43.00	\$ 924.50
17	Pea Gravel	TON	\$ 29.25	26.00	\$ 760.50
18	(NEW) Misc Sand - Man, River	TON	\$ 1.00	4,769.88	\$ 4,769.88
					\$ 1,567,147.37

Previous Contract Amount: \$1,224,176.07

Change Order Amount: \$ 342,971.30

Updated Contract Amount: \$1,567,147.37

Acceptance of the terms of this Change Order constitutes full and final settlement of all costs and time associated with this Change, and Seller agrees to waive all rights to make any further claim arising out of, or resulting from, this Change. Except as hereby modified, all terms and conditions of the Material Contract as heretofore modified remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Change Order by their proper officers or duly authorized agents this 14 day of October, 2021.

Kiewit Infrastructure South Co.

Contractor

By _____
Title

Rogers Group, Inc.

Seller

By _____
Title

Account Manager



You're shopping
Thompson Lane
OPEN until 9 pm

Delivering to
37204

What can we help you find today?

- All Departments
- Home Decor, Furniture & Kitchenware
- DIY Projects & Ideas
- Project Calculators
- Installation & Services
- Specials & Offers
- Local Ad & Catalog

- Store Finder
- Truck & Tool Rental
- For the Pro
- Gift Cards
- Credit Services
- Track Order
- Help



My Account Lists Cart | 1 item

Your Cart (1)



Your Order

Remove All Items

FREE Shipping on eligible items. View Details



HDX 20 ft. x 100 ft. Black 6 mil Plastic Sheeting

Model #CFHD0620B

\$140.00

Get Bulk Pricing of \$119.00 on this item when you purchase at least 4 units.

Store Pickup
21 in stock at
Thompson Lane
37204 | Change

Ship To Home

Scheduled Delivery
Starting at \$8.99 for
delivery as soon as
tomorrow
How it Works

FREE

FREE

FREE

Curbside Available

☐ **SUBSCRIBE AND GET 5% OFF**

Learn More

Ships Every:

3 Months (Most Common) |

Save for Later | Save to Favorites | Remove

Subtotal

\$140.00

Pick Up In Store

FREE

Sales Tax (determined in later step)

Total

\$140⁰⁰

Have a promo code?

Checkout

— or —

PayPal Checkout

Quotation

Bill-To-Party : 119957 KIEWIT CORPORATION 1000 KIEWIT PLAZA OMAHA NE 68131		Information Quotation Number 20984224 Quotation Created Date 11/11/2021 Customer Number 119957			
Ship-To-Party : 5330737 KIEWIT WWTP 135 CLAUDE YATES DRIVE FRANKLIN TN 37064		Inside Salesman Jeff Ervin Outside Salesman Dave Brown QUOTE VALID FOR 5 DAY/S Expires 11/16/2021			
Notes from the Customer: LEAD TIME IS 12-15 WORKING DAYS FROM DATE THE ORDER					
Item	Material	Quantity	Price Per	Unit	Amount
*10	BAR SUPPORTS 50500 P75C .671 X 8" W/CLIP W/9" CLIP	8 EA	23.98 \$	1 EA	191.84
*20	BAR SUPPORTS 142946 P76P UTILITY VOID FOR USE W/P975-	8 EA	5.98 \$	1 EA	47.84
Items total:					239.68
*Sales Tax:					22.18
Sales Coupon:					0.00
Total Amount:					\$ 261.86

Signature _____ Date _____

Utility Anchor System

The Dayton Superior Utility Anchor System is designed to economically simplify the lifting and handling of precast concrete elements. Its economics, ease of use and versatility will be a welcome addition to your precast operations.

Key Advantages

- High strength – up to 24,000 lbs. SWL
- No special lifting hardware required
- Uses a standard hook or clevis
- Easy to install and use
- Utilizes reusable 90° and 45° polyurethane recess plugs
- Eliminates “through holes” in the precast element
- An economical and versatile system – applicable to any precast concrete element

$$\text{EffBox} = 24,351.3\text{lb} \\ = 6100\text{lbs/EA}$$

Added Benefit

Utility contractors can use the utility anchor effectively as a pulling iron. When used as a pulling iron, the safe working loads may be increased by 33%, based on the use of a 3 to 1 factor of safety.

The design of the Dayton Superior Utility Anchor System assures the precaster of an economical, user-friendly system for lifting and handling precast concrete elements.

Utilize the Utility Anchor System to:

- Remove precast elements from their forms
- Handle in the precast yard
- Load for shipment
- Unload and place at the job site

The precaster is able to do it all without the need for any special lifting equipment or hardware. Simply use a standard hook or shackle to connect slings to the utility anchor for a safe lift.

The Utility Anchor System uses a polyurethane recess plug to create a void in the concrete. The concrete void created for the P75 utility anchor is sufficiently large to accept the following:

1. 6-ton Grade 8 alloy hook or
2. 7-ton forged alloy shackle

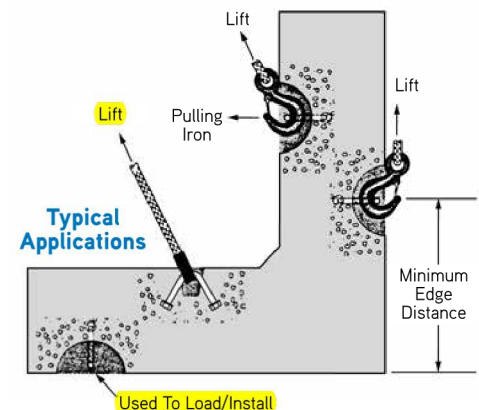
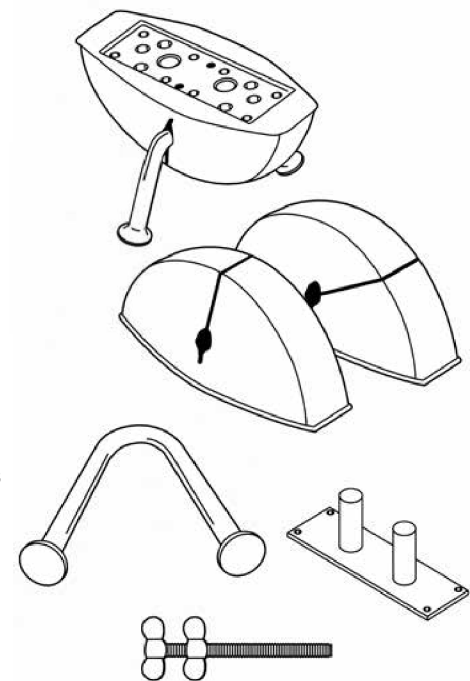
For the P75H Utility Anchors:

3. 15-ton cast/alloy hook or
4. 15-ton forged alloy shackle

DO NOT use larger hooks or shackles; they will apply additional and unintended loads to the utility anchor and could cause a premature failure of the concrete or anchor.

Anchor Placement

Placement of the Utility Anchor is dependent on the structural shape of the precast element. Utility anchors are not designed for thin edge installation. Always maintain minimum edge distances. For special conditions, contact the nearest Dayton Superior Technical Service Department for assistance.



P75 and P75H Utility Anchor®

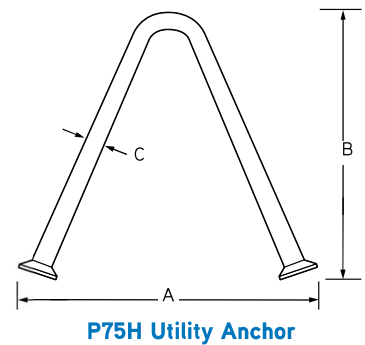
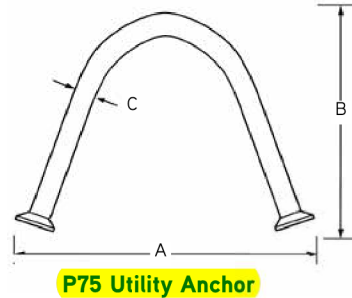
The Dayton Superior Utility Anchors are available in three diameters and a series of lengths for specific concrete thickness. The utility anchors can be set in either a 90° or a 45° anchor orientation using the appropriate setting plug. The P75H Utility Anchor can only be set in a 90° orientation.

To Order:

Specify: (1) quantity, (2) name, (3) product code.

Example:

200, P75 Utility Anchors, 5UA444.



Anchor	Type	Product Code	Minimum Panel Thickness	Safe Working Load Tension 90	Safe Working Load Shear 90	Safe Working Load Tension/ Shear 45	Minimum Edge Distance	A	B	C	End Shape
P75	4UA444	121877	4"	3,200	5,800	2,260	9"	5-1/4"	3-1/8"	0.444"	Swift Lift
	5UA444	123442	5"	3,860	7,710	2,730	10"	6"	3-3/4"		
	6UA444	121888	5-5/8"	4,460	9,460	3,150	12"	7-3/8"	4-3/4"		
	5UA671	123441	5"	4,560	8,430	3,220	10"	6-7/16"	3-3/4"	0.671"	
	6UA671	121889	5-5/8"	7,320	15,780	5,170	12"	7-3/8"	4-3/4"		
	8UA671	121891	7-5/8"	10,830	18,850	7,660	16"	9-3/4"	6-3/4"		
P75H	12UA875	124738	12"	24,000	24,000	N/A	30"	15-7/8"	11"	0.875"	

Note:

- Compressive strength of normal weight concrete to be 4,000 psi at time of initial lift.
- Safe working loads provide an approximate factor of safety of 4 to 1.
- Shear safe working loads are based on loading in the direction of the top of the precast concrete element.

P75C Utility Anchor® with Clip

The Dayton Superior Utility Anchor with Clip is designed to allow the Utility Anchor to be secured to the wire mesh cage. This product utilizes the P75 Utility Anchors with 2 wire clips welded to opposite legs of the anchor. These wire clips are positioned to hold the utility anchor with Void to the wire mesh in the proper position in the wall for lifting your precast product. Both the 5UA and 6UA anchors in 0.444 and 0.671 diameters for 9" wire spacing are in stock. Other anchor and wire spacing are readily available.

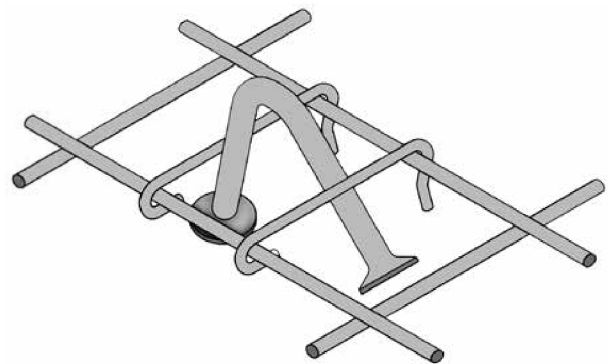
To Order:

Specify: (1) quantity, (2) name, (3) product code (4) anchor size, (5) wire spacing (6) wall thickness.

Example:

200, P75C, #121443, 5UA444anchor, 9" wire spacing, 5" wall.

Product Code	Utility Anchor	Wire Clip Lengths	Wall Thickness
123443	5UA444	9"	5"
121890	5UA671	9"	5"
121892	6UA444	9"	6"
121893	6UA671	9"	6"
127446	8UA671	9"	8"

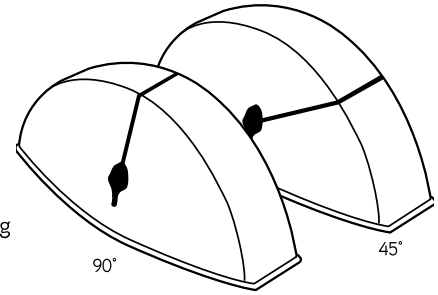


P76 Utility Anchor® Setting Plugs

Utility Anchor Setting Plugs are a polyurethane plastic in 90° and 45° orientation.

The reusable setting plug properly sets the anchor approximately 1/2" below the surface of the concrete and provides an adequate recess for easy sling attachment. After final positioning of the concrete element, the recess formed by the recess member can be easily grouted or conveniently covered by the Utility Anchor Cover/Patch.

The 90P875 Setting Plug used with the P75H 24,000 lb. anchor requires 2 each P101 holding rods to attach setting plug to the form. No holding plate or magnetic plate are available for this setting plug.



P76 Utility Anchor Setting Plugs

P76 Utility Anchor Setting Plug

Type	Product Code No.	Length	Width	Depth	Color
90P444	123175	8.00"	3.25"	3"	Blue
45P444	123176	8.00"	3.25"	3"	Blue
90P671	123177	8.00"	3.25"	3"	Orange
90P671	127786	9.00"	4.58"	3.35"	Orange
45P671	123178	8.00"	3.25"	3"	Orange
90P875	124685	15.00"	6.13"	5"	Blue

To Order:

Specify: (1) quantity, (2) name, (3) product code.

Example:

200, P76 Utility Anchor Setting Plugs, 90P444.

P76D Disposable Setting Plugs

The Disposable Setting Plug is manufactured to offer the precaster an inexpensive alternate to urethane setting plugs. This 2 piece high density polyethylene plastic setting plug is used with the 0.671 Dayton Superior Utility Anchors. The two piece design snaps tightly together around the legs of the anchor eliminating concrete entering the void. The setting plug is installed to the formwork using nail holes on each end of the plug.

To Order:

Specify: (1) quantity, (2) name, (3) product code.

Example:

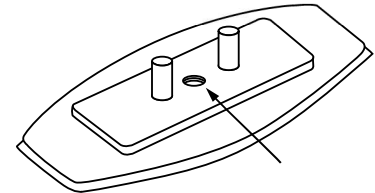
200, P76D, #126214.



P76D Disposable Utility Anchor

P76C Utility Anchor Cover/Patch

The P76C Utility Anchor Cover/Patch installs over the back of the setting plug to protect the unit without the use of duct tape. The cover/patch can be installed on the setting plug/anchor assembly prior to setting the assembly in the form. This protects the assembly from concrete leakage through the concrete placement sequence. It can also be used later as a temporary or permanent cover for the recess. The P76C cover is gray in color and will blend with most concrete. It can be painted to match other color schemes.



P76C Utility Anchor Cover/Patch

P76P Single Use Void Former

The P76P Single Use Void Former is manufactured to offer the precaster an inexpensive alternative to urethane setting plugs.

Features

- The two-piece design snaps tightly together around the legs of the anchor preventing concrete from entering the void
- The setting plug is installed to the formwork using nail holes on each end of the plug



P76P Single Use Void Former

P76M Utility Anchor® Magnetic Setting Plate

The Dayton Superior P76M Utility Anchor Magnetic Setting Plates are available for easy setting of utility anchors in steel precast forms.

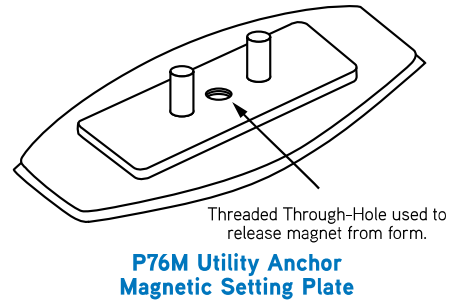
Use 3/8" P101 Holding Rod in threaded through hole to strip magnet from steel form.

To Order:

Specify: (1) quantity, (2) name.

Example:

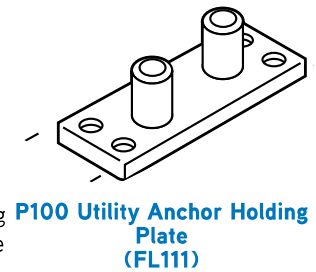
200, P76M Utility Anchor Magnetic Setting Plates.



P100 Utility Anchor® Holding Plate P101 Utility Anchor® Holding Rod

The Dayton Superior P100 Utility Anchor Holding Plate and P101 Holding Rod are used in various applications to install Utility Anchors in the form. The Holding Plate can be nailed, screwed, welded or double-face taped to the form. The setting plug/anchor assembly is pushed onto the projecting studs of the plate and held firmly in place through the concrete placement.

The Holding Rod is placed through a predrilled hole in the form and into the threaded insert in the setting plug. After fully seating the holding rod in the setting plug, the setting plug can be pulled up tightly to the form with the holding rod's free-running wing nut.

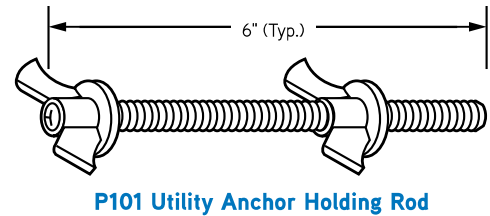


To Order:

Specify: (1) quantity, (2) name, (3) anchor diameter.

Example:

200, P100 Utility Anchor Holding Plates, 0.671 anchor diameter.



P104U One Piece Magnetic Utility Anchor® Recess

The Dayton Superior P104U One Piece Magnetic Utility Anchor Recess allows installation of Utility Anchors in a metal face form using a one piece rubber recess with Magnet imbedded in the top of the recess. Available for 0.444 or 0.671 Utility Anchors.

To Order:

Specify: (1) quantity, (2) name.

Example:

200, P104 One Piece Magnetic Utility Anchor Recess.



Anchor Placement

Placement of the Utility Anchor is dependent on the structural shape of the precast unit and/or the manufacturer's preference. The Utility Anchors are not designed for thin edge installations. Always maintain minimum edge distances and adjust anchor capacities if concrete strengths, other than those noted in the capacity chart, are encountered. Refer to edge distance chart.

In-Form setting:

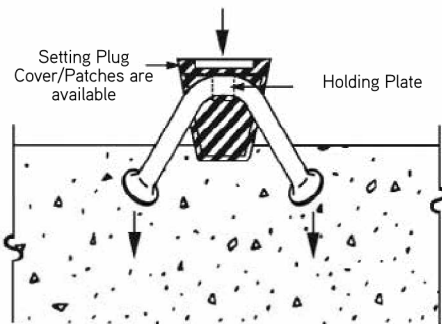
1. Assemble setting plug and anchor.
2. Affix holding plate (nail, weld, magnetic setting plate, double-face tape) to the form.
3. Push the setting plug/anchor assembly onto the holding plate and firmly against the form.

Through-Form Setting

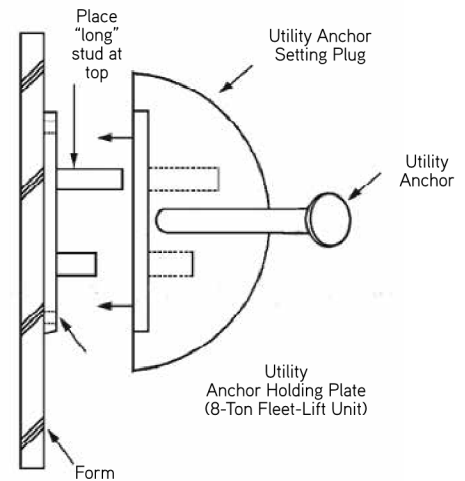
1. Assemble setting plug and anchor.
2. Insert holding rod through form and line up setting plug.
3. Finger-tighten holding rod and lock assembly in place with the running wing nut.

Wet Setting

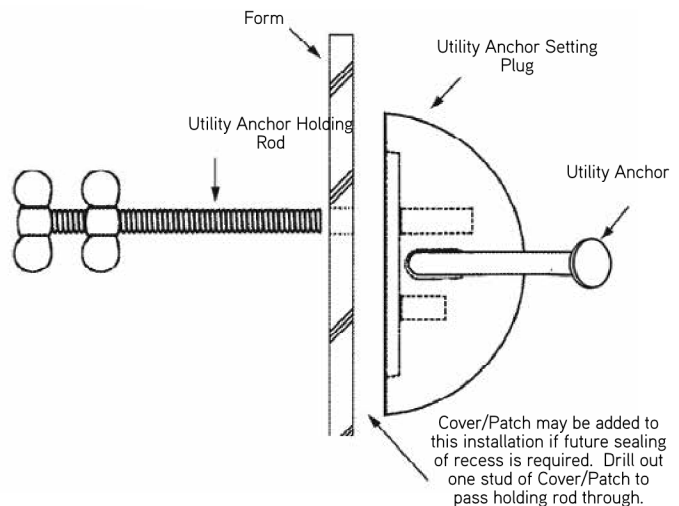
1. Assemble setting plug holding plate and anchor.
2. Use cover/patch or duct tape to seal setting plug cavities.
3. Work the assembly down into the wet concrete until the top surface of the plug is flush with the surface of the concrete.



"Wet" Setting



In-Form Setting



Through-Form Setting

P76 Utility Anchor® and Double Tee Anchor Setting Plug

The new P76 Setting Plug is a re-usable polyurethane setting plug designed to provide a larger recess in the concrete for the 0.671 Utility Anchors and the Double Tee Anchors. This setting plug is 9.0" in length, 4.5" in width across the top, and 3.3" in depth. This recess member positions the anchor at a 90 degree angle to the surface of the concrete product. The reusable setting plug sets the anchor approximately 1/2" below the top of the concrete. The setting plug is attached to the form with the P101 Holding Rod and/or the P100 Holding Plate. The P76 Setting Plug is stripped from the concrete by placing two 3/8" dia. rods into the holes provided in the plug and using a 'scissor action' to strip the plug from the anchor.



To Order:

Specify: (1) quantity, (2) name, (3) product code.

Example:

200, P76 Utility Anchor and Double Tee Anchor

P110 Wire Rope Lifting System™

The Wire Rope Lifting System is an economical lifting loop for utility type structures. It is used in face lift applications and is 'mucked' into the surface of the concrete. The galvanized wire rope is formed in a figure 8 shape, with the ends of the rope secured by a positive swaged clamp, and a steel band at approximately the mid point to establish the proper shape. The Wire Rope Lifting System is embedded 2/3 of its length into the concrete. The hardware must be standard hook or clevis with a diameter at least twice the rope diameter. Each anchor has a color-coded tag which identifies the SWL in tension of the anchor.

Product Features and Benefits:

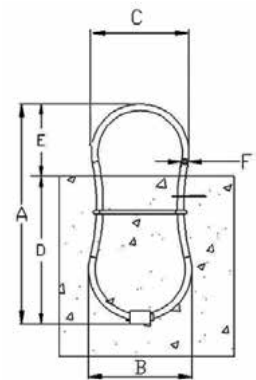
- 7 standard sizes – handles most precast applications up to 10,000 lb SWL
- Mucked into surface – no recess members required by the precaster
- Uses standard jobsite Crosby Hooks – no hardware purchases required by precaster.
- Galvanized wire rope – reduces rusting of the anchor
- Can be cut off or left exposed – reduces labor cost for precaster
- Economical – for the cost conscious precaster

To Order:

Specify: (1) quantity, (2) name, (3) product code.

Example:

200, P110 Wire Rope Lifting System #127327.



Part #	Description	Safe Working Load	A	B	C	D	E	F
#127326	0.8 T	1,600#	8.07"	3.7"	3.3"	5.7	2	0.24
#127327	1.2 T	2,400#	9.06"	3.9"	3.5"	6.6	2.50	0.275
#127328	1.6 T	3,200#	9.84"	5.1"	4.9"	7.1	2.75	0.313
#127329	2.0 T	4,000#	11.81"	5.3"	4.9"	8.7	3.13	0.375
#127330	2.5 T	5,000#	12.80"	5.5"	4.9"	9.4	3.38	0.375
#127331	3.8 T	7,600#	14.57"	6.5"	5.7"	10.7	3.88	0.473
#127332	5.0 T	10,000#	14.96"	7.6"	5.7"	11.1	3.80	0.630

NOTE: SWL is 4:1 SF in 3000 psi concrete

Tag Color: White= 0.8T, Red= 1.2T, Pink= 1.6T, Light Green= 2.0T, Dark Green= 2.5T, Emerald Green= 3.8T, Light Yellow= 5.0T

Wire Loop Parallel To Wall Thickness

Anchor Tonnage	Minimum Wall Thickness	Overall Length	Embedment Depth	Minimum Edge Distance	Minimum Corner Distance	SWL @ 3000 psi	Concrete Strength For maximum SWL	Maximum SWL
0.8 ton	4.0"	8.0625"	5.7"	2.0"	8.75"	1,600 lbs	3,000 psi	1,600 lbs.
1.2 ton	4.5"	9.375"	6.5"	2.25"	9.75"	2,400 lbs	3,000 psi	2,400 lbs
1.6 ton	4.75"	9.8125"	7"	2.375"	10.5"	2,841 lbs	4,000 psi	3,200 lbs
2.0 ton	6"	11.8125"	8.7"	3"	13.25"	3,547 lbs	4,000 psi	4,000 lbs
2.5 ton	7.0"	12.34"	9.4"	3.5"	14.25"	4,898 lbs	3,500 psi	5,000 lbs
3.8 ton	9.0"	14.5"	10.7"	4.5"	16.25"	6,796 lbs	4,000 psi	7,600 lbs
5.0 ton	12"	14.9375"	11.1"	6"	16.75"	9,539 lbs	3,500 psi	10,000 lbs

Wire Loop Perpendicular To Wall Thickness

Anchor Tonnage	Minimum Wall Thickness	Overall Length	Embedment Depth	Minimum Edge Distance	Minimum Corner Distance	SWL @ 3000 psi	Concrete Strength For maximum SWL	Maximum SWL
0.8 ton	5.5"	8.0625"	5.7"	2.75"	8.75"	1,600 lbs	3,000 psi	1,600 lbs.
1.2 ton	6"	9.375"	6.5"	3"	9.75"	2,400 lbs	3,000 psi	2,400 lbs
1.6 ton	6.5"	9.8125"	7"	3.25"	10.5"	2,700 lbs	4,500 psi	3,200 lbs
2.0 ton	7"	11.8125"	8.7"	3.5"	13.25"	3,474 lbs	4,000 psi	4,000 lbs
2.5 ton	7.5"	12.34"	9.4"	3.75"	14.25"	4,251 lbs	4,500 psi	5,000 lbs
3.8 ton	9.0"	14.5"	10.7"	4.5"	16.25"	5,468 lbs	6,000 psi	7,600 lbs
5.0 ton	12"	14.9375"	11.1"	6"	16.75"	7,739 lbs	5,000 psi	10,000 lbs



ISO 9001:2015

BRP MANUFACTURING COMPANY

Sheet, Extruded, and Molded Rubber Products
 637 North Jackson Street
 Lima, Ohio 45801
 PH 800-858-0482 or 419-228-4441
 Fax 419-222-5010

Page 1

QUOTE: 20361

RFQ#:

KIEWIT CORPORATION 1550 Mike Fahey St. Omaha, NE 68102	Phone: (402) 342-2052 Fax: Email: Galileo.RiveraTobar@kiewit.com Cust#: Galileo Rivera-Tobar; Eng 1	Date: December 06, 2021 Tom Shawver tshawver@brpmfg.com
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Delivery	Ship Via	F.O.B.	Payment Terms
5-8 WEEKS	Common Carrier	Lima Ohio, 45801	CIA W/1ST PO / AFTER, TERMS WAC

BRP Part #	Description	QTY Break	Price / UM
Include the QUOTE# when placing your orders. Please submit all orders to ORDERS@BRPMFG.COM			
1S375-1500-1212	1.5"X12"X12LF AASHTO 50D Gr 3	MOQ 1 4 8	1,636.460 / EA 1,350.080 / EA 1,268.250 / EA 1,186.430 / EA
	NEOPRENE 2,250 PSI TENSILE AASHTO Tolerances		
1S375-0500-1212	.5"X12"X12LF AASHTO 50D Gr 3	MOQ 2 8 9	889.980 / EA 734.230 / EA 689.730 / EA 645.240 / EA
	NEOPRENE 2,250 PSI TENSILE AASHTO Tolerances		
Thank you for the opportunity! See attached page for BRP Manufacturing Freight Policy All quotations and pricing are subject to change without notice			

Proudly made in the U.S.A. Please visit our website for further information at www.brpmfg.com



BRP MANUFACTURING COMPANY

Sheet, Extruded, and Molded Rubber Products

637 North Jackson Street

Lima, Ohio 45801

PH 800-858-0482 or 419-228-4441

Fax 419-222-5010

ISO 9001:2015 Certified

Terms: 1% ten days; net 30 Day. First Order Credit Card

For complete terms and conditions please contact our Sales Department.

Our materials are manufactured to RMA tolerances unless otherwise noted on our quotation or assigned by military specification

Pricing is subject to change without notice

Material is shipped FOB Lima, OH 45801 with this noted exception Sheet rubber and diaphragm orders of \$3,000 or more may be shipped prepaid with 1% of the invoice added to the invoice as a Fuel Surcharge. There is no prepaid option with extruded products

BRP reserves the option to ship quantities $\pm 10\%$ unless otherwise stated.

If Test Reports are required, we must know prior to the order being placed for possible test charges and added lead time.

Conformance Report & First Article Test Report are available please contact BRP Sales for charges

Military specification products are quoted Not Marked specified on the quotation. If marking material to specification is required there is a \$250 minimum lot marking charge or a charge per foot as determined by the order.

BRP does not specifically define their product as PSA ready. Materials can be provided with a paper interleaf or buffed, allowing for the application of an adhesive or a surface "promoter" with an adhesive. It is best that you test the adhesive bond prior to placing your order.

BRP Manufacturing Company

Please take a few moments to check our updated Website www.brpmfg.com

All of our products are proudly manufactured in the U.S.A.





CMC Rebar Nashville
852 Visco Dr, Suite 101
Nashville, TN 37210
Phone
Fax

CMC Change Order #: CO38
Change Order Date: 9/21/21

CHANGE ORDER REQUEST

Customer: Campbell & Ford Construction Inc
1592 Whitten Rd
Memphis, TN 38134-7550

Project: Franklin WWTP

CMC Job #: 1922800003

Subject: UV Influent & Effluent Diversion Box

Description of Changes:

Adding 6,217# for the pre-cast top

Amount of this Change Order (**excluding taxes**) **\$ 4,041.00**

It is mutually agreed that for such change the contract price is changed by \$ **4,041.00** , terms of payment are net 30 days. No retainage of funds will be allowed. If you have any questions regarding our Change Order, immediately contact the below signed to schedule a meeting to discuss it.

Change Order pricing is subject to market increase change if not approved within 30 days.

Campbell & Ford Construction Inc

CMC Rebar

Signature: _____

Signature: _____

CMC Representative - Corey White

Date: _____

Date: _____

Attachment A

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone	26,620.00	TN	\$ 18.00	\$ 479,160.00
2	TDOT Grade D	4,980.00	TN	\$ 12.50	\$ 62,250.00
3	Class A3 Rip Rap	1,500.00	TN	\$ 21.00	\$ 31,500.00
4	Surge Stone	850.00	TN	\$ 13.00	\$ 11,050.00
5	Class A1 Rip Rap	200.00	TN	\$ 21.00	\$ 4,200.00
6	2" to 3" Stone	350.00	TN	\$ 17.75	\$ 6,212.50
7	TDOT #4 Stone	200.00	TN	\$ 17.75	\$ 3,550.00
	Approximate Contract Total (without Taxes)				\$ 597,922.50
	Bond (0%)				\$ -

1.0 General Description of the "Work": Provide all supervision, labor, material tools and equipment to furnish and deliver aggregates of the type, at the unit prices, and up to the qty shown on the Schedule of Values.

- .1 FURNISH SECTIONS: 02230 - Granular Materials complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00 and Division 1 General Requirements

2.0 Including But Not Limited to:

- .1 The Contract price(s) are firm through 12/31/19.
- .2 Seller will provide _0_% of the Seller's total contract dollar value in DBE participation.
- .3 Material is not exempt from sales or use taxes.
- .4 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-3 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
- .5 All Deliveries must include a material ticket recognizing the material and quantity delivered. Delivery Tickets to be signed by Contractor for validation of receipt and acceptance to pay for actual quantities delivered.

3.0 Clarifications:

- .1 Effective 1/1/20 Seller will institute a 3% increase per ton on all remaining aggregate through 12/31/20. An additional 3% increase will be effective per ton starting 1/1/21 through 12/31/21.
- .2 Delivered prices are based on full loads (20 ton or more) a minimum haul may be applied for smaller loads.

Kian.Lawlor

From: Michael Morgan <michael@thundertechllc.com>
Sent: Wednesday, November 3, 2021 9:44 AM
To: Kian.Lawlor
Subject: [EXTERNAL] RE: Thunder Tech

Kian,
Please note, raw material cost continue to rise by the week. If this order is not placed in 5-7 working days an re-quote will be needed.

1.5" x 12" (+/- .250" width tolerance)

Total footage: 92ft

9 strips at 10ft

1 strip at 2ft

We have stock right now, I would recommend getting an order going ASAP. Pricing and availability go up and down by the week.

Cost per foot: \$118.18ft (x 92ft = \$10,872.72)

Estimated lead time to ship: 7-10 working days (currently)

Regards,

Michael Morgan

Thunder Technologies LLC
1618 Star Batt Drive
Rochester Hills, MI 48309
248-844-4875 x212

From: Kian.Lawlor <Kian.Lawlor@kiewit.com>
Sent: Wednesday, November 3, 2021 10:01 AM
To: Michael Morgan <michael@thundertechllc.com>
Subject: RE: Thunder Tech

We won't need the rubber pads until the beginning of 2022.

Just estimating the work right now.

Thank you,
Kian

From: Michael Morgan <michael@thundertechllc.com>
Sent: Wednesday, November 3, 2021 8:58 AM
To: Kian.Lawlor <Kian.Lawlor@kiewit.com>
Subject: [EXTERNAL] Thunder Tech

Good Morning Kian,



PURCHASE ORDER

PO Number: 4502586362



4502586362

Bill To Address

1044-Kiewit Infrastructure South Co., PO Box 452500, Omaha, Nebraska, United States, 68145-2500
Email ID / Fax Number
KBS.Invoices.AP@Kiewit.com

Supplier Details	
Supplier Name and Address:	10089807 :: Elder Building Supply Inc., 401 Cowen St, Nashville, Tennessee, United States, 37207
Dispatch Mode:	Call and Submit
Project/Cost Center:	103925 : Franklin WRF Modifications and Expansion_Project

Summary	Amount (USD)
Item Total	5,500.00
Tax	508.75
Total Value	6,008.75

Header Comments

Sales Order # 129503

Order Details			
Order Number	4502586362	Cancellation Date	
Issue Date	11/30/2021	Currency	USD
Order Contact	ISRAEL.CRUZVITAL@KIEWIT.COM	Order Contact Name	Israel Cruz-Vital
Order Status	Partner Acknowledged	Order Type	New Order
Payment Terms	Net due in 30 days		

Incoterms

Delivery Point

Code

Material Items

Line No.	Item Number	Supplier Item Number	Item	Quantity	UOM	Unit Price (USD)
1		32-BBP75	4 x 8 - 3/4 BB Pine Plyform (50)	100700	Each	55.00
	Price Per	Total (USD)	Need By Date	Tax Amount (USD)	Line Type	
	1.00	5,500.00	12/7/2021	508.75	Material	
	Ship To Address		Ship To Location	Deliver To	Requester Details (Name/Email/Phone)	
	135 Claude Yates Drive, Franklin, Tennessee, United States, 37064		103925-103925-135 Claude Yates Drive	Ben Janami	Behnam Janami / BEHNAM.JANAMI@KIEWIT.COM /	

Account Code Details						
Sr No.	WBS Element	Work Order	Plant-Sloc	Unit Price	Price Per	Quantity(Value)
1	103925.2057 - (C)Self Perform Concrete Direct		0641-0007 - Franklin WRF Modifications and Expansion	55.00	1.00	100.00
	Total By Amount					
	6,008.75					
Additional Info						

Purchaser may be a federal contractor, and Seller may be a federal subcontractor. If seller is a federal subcontractor, then unless exempted, the Equal Opportunity clauses as set forth in 41 CFR §60-1.4(a), 41 CFR §60-1.4(b), 41 CFR §60-250.5(a), 41 CFR §60-300.5(a), and 41 CFR §60-741.5(a), as well as the specifications set forth in 41 CFR §60-4.3(a) and the provisions of 41 CFR §61-250.10, 41 CFR §61-300.10, and 29 CFR Part 471 , Appendix A to Subpart A and, if applicable, requirements of Form FHWA-1273, are incorporated by reference and shall be binding on Seller.

Except for breaches of confidentiality and vendor's third party indemnity obligations, neither party (or its affiliates, employees, contractors or suppliers, when acting in such capacity with respect to this purchase order) will be liable to the other (or its affiliates, employees, contractors or suppliers, when acting in such capacity with respect to this purchase order) for any indirect, incidental, consequential, special or punitive damages, for loss of profits or revenue or loss of time, opportunity or value of data, whether in an action in contract, tort (including negligence), product liability, statute, law, equity or otherwise.

Seller's quotation shall be referenced solely for purposes of price, quantity and delivery date. All other terms and conditions included in Seller's quotation or any other communication are hereby rejected. Purchaser's acceptance hereunder is expressly conditioned upon and limited to application of previously negotiated and mutually agreed terms. Seller will be deemed to have accepted the Purchase Order when it (i) sends Purchaser notice of acceptance in writing, (ii) starts to perform any services in accordance with the terms of the Purchase Order, and/or (iii) delivers any or all of the goods or materials covered by the Purchase Order, whichever occurs first. Purchaser may withdraw the Purchase Order at any time before it is accepted by Seller. No contract will exist except as herein provided.

Seller shall comply with Contractor's Vendor Code of Conduct which can be accessed at https://kiewit.com/files/7516/1038/9671/Kiewit_Vendor_Code_of_ConductEN.2020.pdf

If no incoterm is listed above, all equipment, materials, components, documents and other deliverables furnished under this Agreement shall be delivered D.D.P. (Incoterms 2020) to the Project Site, or such other location as Contractor may direct in writing.



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

January 12, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00201.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFI-426 Rubber Expansion Joint Tube Material

Dear Mr. Harris,

Attached you will find Kiewit's cost proposal for changes in RFI-426 Rubber Expansion Joint Tube Material in the amount of **Five Thousand Nine Hundred Seventeen Dollars (\$ 5,917.00)**

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager



RFL426 Rubber Expansion Joint Tube Material

PREPARED BY: Abdul Albasheer

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Costs															
Material															
SPB/Plant Water Booster Pumps-Suction-8"-Nitrile	2	EA					\$ 432.48	\$ 864.96							\$ 864.96
Digester Building/Digester Rectriculation Pumps-Discharge-4"-Nitrile	2	EA					\$ 301.24	\$ 602.48							\$ 602.48
Digester Building/Digester Rectriculation Pumps-Suction-8"-Nitrile	2	EA					\$ 432.48	\$ 864.96							\$ 864.96
Digester Building/Digester Withdrawal Pumps-10"-Nitrile	4	EA					\$ 599.67	\$ 2,398.68							\$ 2,398.68
SPB/Pre-Dewatering Polymer Solution Feed Pumps-Suction-3"-Viton	3	EA					\$ 711.78	\$ 2,135.34							\$ 2,135.34
SPB/Pre-Dewatering Polymer Solution Feed Pumps-Discharge-3"-Viton	3	EA					\$ 711.78	\$ 2,135.34							\$ 2,135.34
SPB/Pre-Dewatering Neat Polymer Mixing Pumps-Suction-3"-Viton	2	EA					\$ 711.78	\$ 1,423.56							\$ 1,423.56
SPB/Pre-Dewatering Neat Polymer Mixing Pumps-Discharge-3"-Viton	2	EA					\$ 711.78	\$ 1,423.56							\$ 1,423.56
SPB/Post-Dewatering Polymer Solution Feed Pumps-Suction-3"-Viton	2	EA					\$ 711.78	\$ 1,423.56							\$ 1,423.56
SPB/Post-Dewatering Polymer Solution Feed Pumps-Discharge-3"-Viton	2	EA					\$ 711.78	\$ 1,423.56							\$ 1,423.56
SPB/Post-Dewatering Neat Polymer Mixing Pumps-Suction-3"-Viton	2	EA					\$ 711.78	\$ 1,423.56							\$ 1,423.56
SPB/Post-Dewatering Neat Polymer Mixing Pumps-Discharge-3"-Viton	2	EA					\$ 711.78	\$ 1,423.56							\$ 1,423.56
WAS Tank FRP to PV-HDPE Underground Pipe-24"-Viton	7	EA					\$ 3,132.19	\$ 6,264.38							\$ 6,264.38
Digester Tanks to Waste Gas Flare-9"-Viton	1	EA					\$ 853.00	\$ 853.00							\$ 853.00
Credits															
Material															
SPB/Plant Water Booster Pumps-Suction-8"-Burl	-2	EA					\$ 1,245.00	\$ (2,490.00)							\$ (2,490.00)
Digester Building/Digester Rectriculation Pumps-Discharge-4"-Burl	-2	EA					\$ 641.25	\$ (1,282.50)							\$ (1,282.50)
Digester Building/Digester Rectriculation Pumps-Suction-8"-Burl	-2	EA					\$ 1,245.00	\$ (2,490.00)							\$ (2,490.00)
Digester Building/Digester Withdrawal Pumps-10"-Burl	-4	EA					\$ 726.51	\$ (2,906.04)							\$ (2,906.04)
SPB/Pre-Dewatering Polymer Solution Feed Pumps-Suction-2.5"-Burl	-3	EA					\$ 205.20	\$ (615.60)							\$ (615.60)
SPB/Pre-Dewatering Polymer Solution Feed Pumps-Discharge-2"-Burl	-3	EA					\$ 211.50	\$ (634.50)							\$ (634.50)
SPB/Pre-Dewatering Neat Polymer Mixing Pumps-Suction-2.5"-Burl	-2	EA					\$ 205.20	\$ (410.40)							\$ (410.40)
SPB/Pre-Dewatering Neat Polymer Mixing Pumps-Discharge-2"-Burl	-2	EA					\$ 211.50	\$ (423.00)							\$ (423.00)
SPB/Post-Dewatering Polymer Solution Feed Pumps-Suction-2.5"-Burl	-2	EA					\$ 205.20	\$ (410.40)							\$ (410.40)
SPB/Post-Dewatering Polymer Solution Feed Pumps-Discharge-2"-Burl	-2	EA					\$ 211.50	\$ (423.00)							\$ (423.00)
SPB/Post-Dewatering Neat Polymer Mixing Pumps-Suction-2.5"-Burl	-2	EA					\$ 205.20	\$ (410.40)							\$ (410.40)
SPB/Post-Dewatering Neat Polymer Mixing Pumps-Discharge-2"-Burl	-2	EA					\$ 211.50	\$ (423.00)							\$ (423.00)
WAS Tank FRP to PV-HDPE Underground Pipe-24"-Burl	-7	EA					\$ 2,184.03	\$ (4,368.06)							\$ (4,368.06)
Digester Tanks to Waste Gas Flare-9"-Burl	-1	EA					\$ 831.25	\$ (5,818.75)							\$ (5,818.75)
Digester Tanks to Waste Gas Flare-9"-Burl	-1	EA					\$ 1,245.00	\$ (1,245.00)							\$ (1,245.00)
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHMVA Rates.															
OTHER															
STIS - small tools, consumables, safety equip. (\$5 per Direct Manhour, plus 8.75% sales tax)															
Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975		MHR													
TAX: (9.75% of Material, Equipment, Other)															
BOND (2% of total)															
SUBTOTALS						\$ -		\$ 5,144.96		\$ -		\$ -		\$ -	\$ 5,144.96
MARKUP %						15.00%		15.00%		15.00%		15.00%		15.00%	\$ 771.74
BOND															\$5,916.70
SUBTOTALS WITH MARKUPS APPLIED															\$5,916.70
TOTAL															\$5,917.00

Request for Information

Project Name: Franklin WRF Modifications & Expansion Project		
Owner's Project No.: 2017-0264	CDM Smith Project No.: 14915-96594-WRF	
Contractor: KIEWIT Water Facilities South Co.	RFI No.: 426	
	Date: 01/26/2021	
Subject: Rubber Expansion Joint Tube Material		
Spec Section: 15120	Drawing:	Detail: n/a

QUESTION:	
Comment #1 from submittal D-15120-010-A addresses the issue of incompatibility between EPDM and digested gas: "The Digester Gas exiting the digester will be air and biogas, which consists mainly of gaseous methane and carbon dioxide. Several sources indicate that EPDM is incompatible with methane. To achieve compatibility with the biogas and be protected from the elements, CDM Smith recommends the use of Viton (FKM) for this application." Regarding expansion joints for other substances than digested gas, Is Butyl an acceptable material for the expansion joint tubes containing water, digested sludge, polymer solution and neat polymer? If not, what material should be used for each substance? (see schedule attached for expansion joints)	
Please Respond by This Date: 02/01/2021	
Submitted by Contractor: Abdul Albashitie	Date: 01/26/2021
Received by (CDM Smith):	Date:

RESPONSE:	
Please use the following rubber selections for the following substances: - Viton for polymer solution and neat polymer, per Section 11246 - Nitrile for digested sludge, per Section 11315 - Viton or Nitrile for water, per Section 11211	
By: Ryan Keefe, Laurel Schaich	Date: 1/28/2021
Distribution: Contractor, Owner, File, Field, RFI Notebook	



Cost of expansion joints according to RFI426

Franklin WRF – Expansion joint Cost Breakdown

Building/Equipment	Size/s	Quantity	M-DWG	Substance	Expansion Joint Material According to RFI 426	Exp Joint Cost	316SS Rods/Rings	Ext Cost	Total Cost
SPB/Plant Water Booster Pumps-Suction	8	2	M-54	Water	Nitrile	\$432.48	\$745.88	\$1,178.36	\$2,356.72
Digester Building/Digester Recirculation Pumps-Discharge	4	2	M-77	Digested Sludge	Nitrile	\$301.24	\$396.17	\$697.41	\$1,394.82
Digester Building/Digester Recirculation Pumps-Suction	8	2	M-77	Digested Sludge	Nitrile	\$432.48	\$745.88	\$1,178.36	\$2,356.72
Digester Building/Digester Withdrawal Pumps	10	4	M-77	Digested Sludge	Nitrile	\$599.67	\$801.81	\$1,401.48	\$5,605.92
SPB/Pre-Dewatering Polymer Solution Feed Pumps-Suction	2.5	3	M-54	Polymer Solution	Viton	\$460.81	\$338.20	\$799.01	\$2,397.03
SPB/Pre-Dewatering Polymer Solution Feed Pumps-Discharge	2	3	M-54	Polymer Solution	Viton	\$511.17	\$312.61	\$823.78	\$2,471.34
SPB/Pre-Dewatering Neat Polymer Mixing Pumps-Suction	2.5	2	M-54	Neat Polymer	Viton	\$460.81	\$338.20	\$799.01	\$1,598.02
SPB/Pre-Dewatering Neat Polymer Mixing Pumps-Discharge	2	2	M-54	Neat Polymer	Viton	\$511.17	\$312.61	\$823.78	\$1,647.56
SPB/Post-Dewatering Polymer Solution Feed Pumps-Suction	2.5	2	M-54	Polymer Solution	Viton	\$460.81	\$338.20	\$799.01	\$1,598.02
SPB/Post-Dewatering Polymer Solution Feed Pumps-Discharge	2	2	M-54	Polymer Solution	Viton	\$511.17	\$312.61	\$823.78	\$1,647.56
SPB/Post-Dewatering Neat Polymer Mixing Pumps-Suction	2.5	2	M-54	Neat Polymer	Viton	\$460.81	\$338.20	\$799.01	\$1,598.02
SPB/Post-Dewatering Neat Polymer Mixing Pumps-Discharge	2	2	M-54	Neat Polymer	Viton	\$511.17	\$312.61	\$823.78	\$1,647.56
WAS Tank FRP to PWHDP Underground Pipe	24	2	C-23	Digested Gas	Viton	\$3,132.19	\$2,270.09	\$5,402.28	\$10,804.56
Digester Tanks to Waste Gas Flare	6	7	M-84	Digested Gas	Viton	\$690.73	\$605.58	\$1,296.31	\$9,074.17
Digester Tanks to Waste Gas Flare	8	1	M-84	Digested Gas	Viton	\$853.00	\$702.01	\$1,555.01	\$1,555.01
Totals								Sub Total	\$47,753.03

These expansion joints were ordered from IMS, see page 5

Cost of 3" expansion joints according to RF1426

From: Jones, Jared
Sent: Friday, May 7, 2021 12:34 PM
To: 'Abdul Albashitie' <abdul.albashitie@kiewit.com>; May, Linda <Linda.May@coreandmain.com>
Cc: Michael Pachulio <Michael.Pachulio@kiewit.com>
Subject: RE: Request for Quote-Expansion Joint

Abdul,

Your cost for the attached is \$711.78/ea. The current lead time on these are 7-8 weeks. Let me know if you would like to release.

Thanks,

Jared Jones, Assoc. DBIA
SE Region Treatment Plant Group
Sales Representative
Mobile 205-572-8976
jared.jones@coreandmain.com



This message is for intended addressee(s) only and may contain confidential, proprietary or privileged information, exempt from disclosure, and subject to terms at: <http://emailterms.coreandmain.com>.

From: Abdul Albashitie [<mailto:abdul.albashitie@kiewit.com>]
Sent: Friday, May 7, 2021 10:18 AM
To: Jones, Jared <jared.jones@coreandmain.com>; May, Linda <Linda.May@coreandmain.com>
Cc: Michael Pachulio <Michael.Pachulio@kiewit.com>
Subject: Request for Quote-Expansion Joint

CAUTION: External

Jared, Linda,

Please send a quote for 18 Ea. 3" Viton Expansion joints, specs shown below.

Specification section 15120.2.15.D.1

D. Equipment Flexible Connectors

1. The flexible connectors shall be expansion/vibration joints of the single arch type of butyl rubber construction with carcass of high grade woven cotton or suitable synthetic fiber and individual solid steel ring reinforcement. Soft rubber fillers shall be integrally cured into the arches to provide a smooth flow path to prevent settling of material into the arch. Joints shall be constructed to pipeline size and to meet working pressures and corrosive conditions

ATTACHMENT A-2

JOB NUMBER

MATERIAL CONTRACT NUMBER

103925

103925-MC-004

Credit for expansion joints according to spec 15120 (Butyl)

Description	QTY	UOM	Price	Total
EXPANSION BELLOW SSTL 4" FxF SHT M-79	4	EA	\$ 641.25	\$ 2,565.00
EXPANSION JOINT 2" FxF	6	EA	\$ 516.25	\$ 3,097.50
EXPANSION JOINT 3" FxF	10	EA	\$ 550.00	\$ 5,500.00
EXPANSION JOINT 4" FxF	21	EA	\$ 641.25	\$ 13,466.25
EXPANSION JOINT 6" FxF	11	EA	\$ 831.25	\$ 9,143.75
EXPANSION JOINT 8" FxF	2	EA	\$ 1,245.00	\$ 2,490.00
EXPANSION JOINT 12" FxF	1	EA	\$ 2,021.00	\$ 2,021.00
EXPANSION JOINT 14" FxF	1	EA	\$ 2,127.50	\$ 2,127.50
EXPANSION JOINT 16" FxF	1	EA	\$ 3,155.00	\$ 3,155.00
EXPANSION JOINT 18" FxF	2	EA	\$ 3,486.25	\$ 6,972.50
EXPANSION JOINT 20" FxF	1	EA	\$ 3,938.75	\$ 3,938.75
RESTRAINT ROD ASSY 10" W/RODS,NUTS & FLG LUGS	2	EA	\$ 347.19	\$ 694.38
RESTRAINT ROD ASSY 14" W/RODS,NUTS & FLG LUGS	1	EA	\$ 488.84	\$ 488.84
RESTRAINT ROD ASSY 20" W/RODS, NUTS & FLG LUGS	5	EA	\$ 549.95	\$ 2,749.75
RESTRAINT ROD ASSY 30" W/RODS,NUTS & FLG LUGS	2	EA	\$ 672.16	\$ 1,344.32
RESTRAINT ROD ASSY 4" W/RODS, NUTS & FLG LUGS	25	EA	\$ 174.98	\$ 4,374.50
RESTRAINT ROD ASSY 6" W/RODS,NUTS & FLG LUGS	9	EA	\$ 191.65	\$ 1,724.85
RESTRAINT ROD ASSY 8" W/RODS,NUTS & FLG LUGS	17	EA	\$ 226.37	\$ 3,848.29
			Total	\$69,702.18

Credit for 10" and 24" expansion joints according to spec 15120
(Butyl)

[EXTERNAL] RE: Request for Quote



Jones, Jared <Jared.Jones@coreandmain.com>

To  AbdulAlbashitie;  May, Linda

 This message is part of a tracked conversation. [Click here](#) to find all related messages or to open the original flagged message.

Below are your updated prices for the Butyl Expansion Joints only.

1 – GR1101 FA 10" Single Arch Expansion Joint (Butyl) – \$726.51/ea

1 – GR1101 FA 24" Single Arch Expansion Joint (Butyl) – \$2,184.03/ea

Thanks,

Jared Jones, Assoc. DBIA

SE Region Treatment Plant Group

Sales Representative

Mobile 205-572-8976

jared.jones@coreandmain.com



[EXTERNAL] RE: Material Release

 **Mark Lauderdale** <MarkL@imspipe.com>
To  Abdul Albashitie;  Marc Simmons

Credit for returning expansion joints that were ordered according to spec 15120 (Butyl)

 You replied to this message on 9/23/2021 8:56 AM.

 2019-5041-100 Franklin WRF 3 Inch Expansion Joints Quote Summary 9-23-2021.xlsx 17 KB	 2019-5041-100-1 Franklin WRF 2 Inch & 2.5 Inch (Credit) Quote Summary.xlsx 18 KB
--	---

Abdul,

Please see attached updated 3" EJ quote. Note, they will not take back the metal hardware for the 2" & 2 1/2" joints. Only the rubber EJ's for credit.

Let me know if you want me to proceed with ordering. Should take a few weeks to make and ship.

Thank you,

Mark Lauderdale
Vice President

Industrial and Municipal Supply, Inc.
2207 Ga Hwy. 103
West Point, GA 31833

C: 706-518-6001
Email: markl@imspipe.com
Website: <http://www.imspipe.com>



INDUSTRIAL AND MUNICIPAL SUPPLY
P.O BOX 573
WEST POINT, GA 31833
Phone: (706) 643-4214 ***** Fax (706) 643-5515

Quote Summary

Quote #:	2019-5041-100-1										
Quote Name:	Franklin WRF 3" Expansion Joints-1										
Location:	FRANKLIN, TN										
Mark #	Seq #	Quantity	Unit	Size	Material	Length	Joint	Fitting	Description	Unit Sell	Total Sell
HEADING: 01											
DESCRIPTION: CREDIT ON 2" & 2 1/2" PROCO EXPANSION JOINTS											
01-1	1	9	EA	2	RUBBER		FLANGE	EXPANSION JOINT	PROCO STYLE FA-231 2.5 X 6 F231/NP FILLED NIT EJ	\$211.50	\$1,903.50
01-2	2	9	EA	2 1/2	RUBBER		FLANGE	EXPANSION JOINT	PROCO STYLE FA-231 2 X 6 F231/NP FILLED NIT EJ	\$205.20	\$1,846.80
End of Quote Summary										Total	\$3,750.30

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: September 22, 2021

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 67

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: EQ Pumps

CITY PROJECT NO.: 2017-0264

REFERENCE: (See Below)

DESCRIPTION: Furnish and install 1" air vacuum relief valves, APCO Series 140 o/e, on EQ pump volutes. Discharges to be routed independently to the EQ wet well above water level elevation. Install a tee with a threaded cap on each discharge for flushing/cleanout.

CDM SMITH:

By:

Date:

CONTRACTOR:

By:

Date:

City of Franklin:

By:

Date:



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

January 25, 2022

To: Mr. Dan Harris

CCA-CDM-00069.01

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: CCA 067 – EQ Pumps Air/Vacuum Relief Valves and Vents

Dear Mr. Harris,

Attached you will find Kiewit's cost proposal for **CCA 067 – EQ Pumps Air/Vacuum Relief Valves and Vents** in the amount of **Thirty-Three Thousand Four Hundred Eighty-Five Dollars (\$33,485.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



CCA NO.: 067 - EQ Pumps Air/Vacuum Relief Valves and Vents

PREPARED BY: Galileo Rivera-Tobar

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Credit for Items Included in CCA 053						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Labor and Material Handling						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Foreman	(1.00)	EA	11.00	(11.00)	\$ 62.31	\$ (685.41)		\$ -		\$ -		\$ -		\$ -	\$ (685.41)
Laborer(s)	(2.00)	EA	10.00	(20.00)	\$ 36.42	\$ (728.40)		\$ -		\$ -		\$ -		\$ -	\$ (728.40)
Pipefitter	(1.00)	EA	10.00	(10.00)	\$ 66.96	\$ (669.60)		\$ -		\$ -		\$ -		\$ -	\$ (669.60)
Survey - As Buils	(1.00)	EA	1.00	(1.00)	\$ 53.28	\$ (53.28)		\$ -		\$ -		\$ -		\$ -	\$ (53.28)
Spotter/Laborer	(1.00)	EA	1.00	(1.00)	\$ 36.42	\$ (36.42)		\$ -		\$ -		\$ -		\$ -	\$ (36.42)
Material						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
2" Stainless Steel .Threaded Pipe Nipples Type 316	(2.00)	EA				\$ -	\$ 22.44	\$ (44.88)		\$ -		\$ -		\$ -	\$ (44.88)
2" CPVC Plain End - Schedule 80	(40.00)	LF				\$ -	\$ 4.36	\$ (174.40)		\$ -		\$ -		\$ -	\$ (174.40)
2" CPVC Tee - Schedule 80	(6.00)	EA				\$ -	\$ 7.85	\$ (47.10)		\$ -		\$ -		\$ -	\$ (47.10)
2" CPVC Cap - Schedule 80	(6.00)	EA				\$ -	\$ 11.13	\$ (66.78)		\$ -		\$ -		\$ -	\$ (66.78)
2" CPVC Male Adapter - Schedule 80	(6.00)	EA				\$ -	\$ 7.56	\$ (45.36)		\$ -		\$ -		\$ -	\$ (45.36)
1 Case of Gray Cement #724 (not included below)	(1.00)	EA				\$ -	\$ -	\$ -		\$ -		\$ -		\$ -	\$ -
1 Quart Primer - #P-70 Clear (not included below)	(1.00)	EA				\$ -	\$ -	\$ -		\$ -		\$ -		\$ -	\$ -
LinkSeal #1-S-300-S with SS Hardware	(24.00)	EA				\$ -	\$ 6.06	\$ (145.44)		\$ -		\$ -		\$ -	\$ (145.44)
2" CPVC Ball Valve with O-Rings - Schedule 80	(2.00)	EA				\$ -	\$ 117.17	\$ (234.34)		\$ -		\$ -		\$ -	\$ (234.34)
12 Gauge with Slotted Holes SS Uni-Strut - 1 5/8" - Type 316	(10.00)	LF				\$ -	\$ 10.32	\$ (103.20)		\$ -		\$ -		\$ -	\$ (103.20)
Stainless Steel Pipe Clamps for 2"	(4.00)	EA				\$ -	\$ 8.33	\$ (33.32)		\$ -		\$ -		\$ -	\$ (33.32)
3/8" Stainless Steel Type 316 Anchor with Nut & Washer	(8.00)	EA				\$ -	\$ 3.27	\$ (26.16)		\$ -		\$ -		\$ -	\$ (26.16)
2 1/2" Hole Saw for Hard Metal - for 2.375"	(1.00)	EA				\$ -	\$ 142.86	\$ (142.86)		\$ -		\$ -		\$ -	\$ (142.86)
Arbor (Shank Size 1/2")	(2.00)	EA				\$ -	\$ 18.29	\$ (36.58)		\$ -		\$ -		\$ -	\$ (36.58)
Pilot Drill (Diameter 3/8")	(2.00)	EA				\$ -	\$ 11.71	\$ (23.42)		\$ -		\$ -		\$ -	\$ (23.42)
Pipe and Conduit Thread Taps	(2.00)	EA				\$ -	\$ 414.05	\$ (828.10)		\$ -		\$ -		\$ -	\$ (828.10)
Equipment						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Foreman Truck - Ford F-250	(11.00)	HR				\$ -		\$ -	\$ 30.28	\$ (333.08)		\$ -		\$ -	\$ (333.08)
Forklift	(1.00)	HR				\$ -		\$ -	\$ 60.00	\$ (60.00)		\$ -		\$ -	\$ (60.00)
Subcontractor K&H Concrete Cutting						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Core Drill Hole 4" x 20" = \$32.00 + \$ 48.00 (\$200 Minimum)	(2.00)	EA				\$ -		\$ -		\$ -	\$ 100.00	\$ (200.00)		\$ -	\$ (200.00)
Install ARV at Headworks in accordance with CCA 067						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Labor Cost						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
ARV/Vent Piping Install (EQ Pump Discharge & Suction ARVs)	261	LF	0.80	209		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Pipefitter (Foreman)	1	EA	42.00	42	\$ 72.38	\$ 3,039.96		\$ -		\$ -		\$ -		\$ -	\$ 3,039.96
Pipefitter	4	EA	42.00	168	\$ 70.15	\$ 11,785.20		\$ -		\$ -		\$ -		\$ -	\$ 11,785.20
Scaffolding Erection and Dismantling						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Pipefitter (Foreman)	1	EA	28.20	28	\$ 72.38	\$ 2,041.12		\$ -		\$ -		\$ -		\$ -	\$ 2,041.12
Pipefitter	4	EA	28.20	113	\$ 70.15	\$ 7,912.92		\$ -		\$ -		\$ -		\$ -	\$ 7,912.92
Install Link Seals						\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Pipefitter (Foreman)	1	EA	6.00	6	\$ 72.38	\$ 434.28		\$ -		\$ -		\$ -		\$ -	\$ 434.28
Pipefitter	2	EA	6.00	12	\$ 70.15	\$ 841.80		\$ -		\$ -		\$ -		\$ -	\$ 841.80



CCA NO.: 067 - EQ Pumps Air/Vacuum Relief Valves and Vents

PREPARED BY: Galileo Rivera-Tobar

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Material Cost															
1" APCO Style 140 Air/Vacuum valve	2	EA				-	\$ 685.00	\$ 1,370.00		-		\$ -		\$ -	\$ 1,370.00
Strut-Mount Metal Routing Clamp 304 Stainless Steel, 1-5/16"ID, 5/64" Thick	50	EA				-	\$ 5.54	\$ 277.00		-		\$ -		\$ -	\$ 277.00
3/8" x 7" Stainless Steel Wedge Anchor w/Shipping	100	EA				-	\$ 7.58	\$ 758.00		-		\$ -		\$ -	\$ 758.00
3/8"-16 x 1-1/8" x 1/2" 316 Stainless Steel Plain Finish Hex Coupling Nut	100	EA				-	\$ 1.71	\$ 171.00		-		\$ -		\$ -	\$ 171.00
3/8"-16 316 Stainless Steel Finished Hex Nut	200	EA				-	\$ 0.09	\$ 18.00		-		\$ -		\$ -	\$ 18.00
3/8" 316 Stainless Steel Small OD Flat Washer	200	EA				-	\$ 0.05	\$ 10.00		-		\$ -		\$ -	\$ 10.00
1" Standard Duty Zinc Plated Clevis Hanger	10	EA				-	\$ 4.24	\$ 42.40		-		\$ -		\$ -	\$ 42.40
304 Stainless Steel Threaded Pipe Fitting Low-Pressure, Tee Connector, 1 NPT Female	2	EA				-	\$ 22.82	\$ 45.64		-		\$ -		\$ -	\$ 45.64
316 Stainless Steel Threaded Pipe Fitting Low-Pressure, Plug with External Hex Drive, 1 NPT	2	EA				-	\$ 11.52	\$ 23.04		-		\$ -		\$ -	\$ 23.04
Standard-Wall 304/304L SS Pipe Nipple Threaded on Both Ends, 1 NPT, 3" Long	2	EA				-	\$ 9.25	\$ 18.50		-		\$ -		\$ -	\$ 18.50
2"x4" LINKSEAL #1-S-300-S WITH STAINLESS STEEL HARDWARE	48	EA				-	\$ 6.14	\$ 294.72		-		\$ -		\$ -	\$ 294.72
1"x3" LINKSEAL #1-S-300-S WITH STAINLESS STEEL HARDWARE	16	EA				-	\$ 6.14	\$ 98.24		-		\$ -		\$ -	\$ 98.24
1" 90 DEGREE BEND SCHEDULE 80 CPVC	50	EA				-	\$ 2.77	\$ 138.50		-		\$ -		\$ -	\$ 138.50
2" 90 DEGREE BEND SCHEDULE 80 CPVC	30	EA				-	\$ 10.37	\$ 311.10		-		\$ -		\$ -	\$ 311.10
2" x 1" BUSHING SCHEDULE 80 CPVC	5	EA				-	\$ 9.26	\$ 46.30		-		\$ -		\$ -	\$ 46.30
1" PIPE SCHEDULE 80 CPVC	320	FT				-	\$ 2.40	\$ 768.00		-		\$ -		\$ -	\$ 768.00
Estimate for Shipping and Handling for Material Supplied by IMS	1	LS				-	\$ 150.00	\$ 150.00		-		\$ -		\$ -	\$ 150.00
Subcontractor Cost															
8 EA Core Holes - True-Line	1	LS				-	\$ -	\$ -		-		\$ 1,300.00		\$ 1,300.00	\$ 1,300.00
Equipment Cost															
Genie Z-45/25 BI-ENERGY	12	Hrs				-	\$ -	\$ -	\$ 21.63	\$ 259.56		\$ -		\$ -	\$ 259.56
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.															
OTHER															
STS - small tools, consumables, safety equip, (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)	326	MHR				-	\$ -	\$ -		-		\$ -		\$ -	\$ -
TAX: (9.75% of Material Equipment, Other)															
SUBTOTALS															
MARKUP %															
SUBTOTALS WITH MARKUPS APPLIED															
BOND															
TOTAL															

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2021 Breakdown of Craft Wage Burden Rates

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Wage Type	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 40.00	\$ 60.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 24.00	\$ 36.00
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 3.07	\$ 4.60	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.15	\$ 3.22	\$ 1.84	\$ 2.76
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.61	\$ 2.42	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.13	\$ 1.69	\$ 0.97	\$ 1.45
Additional Wages	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence	\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 60.15	\$ 82.49	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 42.26	\$ 57.89	\$ 37.79	\$ 51.19

Wage Type	Pipefitter (Foreman)		Pipefitter		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 4.22	\$ 5.69	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07	\$ 2.15	\$ 3.22	\$ 3.05	\$ 4.12	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 2.22	\$ 2.99	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14	\$ 1.13	\$ 1.69	\$ 1.60	\$ 2.16	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14
Additional Wages	\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 72.38	\$ 93.91	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29	\$ 42.26	\$ 57.89	\$ 55.34	\$ 70.97	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29

Wage Type	Survey		Electrician	
	Straight	OT	Straight	OT
Labor - Base Wages	\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 2.53	\$ 3.80	\$ 2.95	\$ 3.95
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.33	\$ 1.99	\$ 1.55	\$ 2.07
Additional Wages	\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 47.84	\$ 66.27	\$ 53.97	\$ 68.46

Galileo.RiveraTobar

From: Steven.Davis1
Sent: Friday, October 29, 2021 11:07 AM
To: Galileo.RiveraTobar
Subject: FW: 2838 Re: APCO 140 Air Vac Valve

FYI – for the Headworks EQ Pump ARV's and vent line change proposal...



Steve Davis
Project Manager

Kiewit Water Facilities South
4800 North Point Parkway, Suite 100, Alpharetta, GA 30022
678-794-2121 cell
kiewit.com

From: William.McMillen <William.McMillen@kiewit.com>
Sent: Friday, October 29, 2021 10:59 AM
To: Steven.Davis1 <Steven.Davis1@kiewit.com>
Cc: Austin.Tamson <Austin.Tamson@kiewit.com>
Subject: FW: 2838 Re: APCO 140 Air Vac Valve

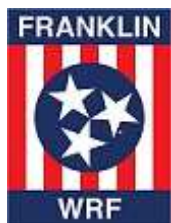
Steve,

See below for price on the (2) Air Vac's for the EQ Pump's at headworks. Let me know if you have any questions.



Andy McMillen
Project Engineer

KIEWIT WATER FACILITIES SOUTH CO.
Franklin WRF Modifications and Expansion Project
135 Claude Yates Dr., Franklin, TN 37064
(615) 477-2969 cell
William.McMillen@Kiewit.com



From: Danielle Miners <dminers@eco-tech.net>
Sent: Friday, October 29, 2021 10:46 AM
To: William.McMillen <William.McMillen@kiewit.com>

Cc: Heather Bame <hbame@eco-tech.net>

Subject: [EXTERNAL] 2838 Re: APCO 140 Air Vac Valve

Hi Andy,

Here's the quote for the valves requested:

AIS Compliant

Qty. 2	1" APCO Style 140 Air/Vacuum valve, 1" NPT threaded Inlet x 1" NPT outlet, Ductile Iron body, NBR seat,
316SS Float	
	& Internal trim, 12 mils Fusion Bonded Epoxy coated and lined
	\$685.00/ea.

Shipping is included.

We're checking on lead times and will get back to you.

Danielle A Miners

Eco-Tech, Inc

156 Hickory Springs Industrial Dr

Canton, GA 30115

Office: 678-880-1214

dminers@eco-tech.net

From: Heather Bame <hbame@eco-tech.net>

Sent: Friday, October 29, 2021 9:52 AM

To: Chip Ruth <cruth@eco-tech.net>

Cc: Danielle Miners <dminers@eco-tech.net>

Subject: FW: APCO 140 Air Vac Valve

Heather Bame

Eco-Tech, Inc.
156 Hickory Springs Industrial Drive
Canton, GA 30115
678-880-1223

From: William.McMillen <William.McMillen@kiewit.com>

Sent: Friday, October 29, 2021 9:26 AM

To: Heather Bame <hbame@eco-tech.net>

Subject: APCO 140 Air Vac Valve

Heather,

I am in need of pricing and lead time for (2) 1" APCO Series 140 Air Vacuum Valves. Can you please provide this for me?

Thank you,



Andy McMillen

Project Engineer

KIEWIT WATER FACILITIES SOUTH CO.

Franklin WRF Modifications and Expansion Project

135 Claude Yates Dr., Franklin, TN 37064

(615) 477-2969 cell

William.McMillen@Kiewit.com





PURCHASE ORDER
PO Number: 4502536865



4502536865

Bill To Address					
1044-Kiewit Infrastructure South Co., PO Box 452500, Omaha, Nebraska, United States, 68145-2500					
Email ID / Fax Number KBS.Invoices.AP@Kiewit.com					
Supplier Details					
Supplier Name and Address:	10000176 :: McMaster-Carr Supply Co, 600 N County Line Rd, Elmhurst, Illinois, United States, 60126-2034				
Dispatch Mode:	cXML/EDI				
Project/Cost Center:	103925 : Franklin WRF Modifications and Expansion_Project				
Order Details					
Order Number	4502536865	Cancellation Date			
Issue Date		Currency	USD		
Order Contact	AUSTIN.TAMSON@KIEWIT.COM	Order Contact Name	Austin Tamson		
Order Status	Sending In progress	Order Type	New Order		
Payment Terms	2% 10 days, Net 30				
Incoterms					
Delivery Point		Code			
Material Items					
Line No.	Item Number	Supplier Item Number	Item	Quantity	UOM
1		3115T44	Srrt-Mount Metal Routing Clamp 304 Stainless Steel, 1-5/16" ID, 5/64" Thick	50.00	Each
	Unit Price (USD)	Total (USD)	Need By Date	Tax Amount (USD)	Line Type
	5.54	277.00	10/1/2021	0.00	Material
Ship To Address			Ship To Location	Deliver To	Requester Details (Name/Email/Phone)
135 Claude Yates Drive, Franklin, Tennessee, United States, 37064			103925-103925-135 Claude Yates Drive	Austin Tamson	Austin Tamson / AUSTIN.TAMSON@KIEWIT.COM /
Manufacturer Name		Manufacturer Part Number	Manufacturer Model Number		

unlisted

3115T44

Account Code Details

Sr No.	WBS Element	Work Order	Plant-Sloc	Unit Price	Quantity(Value)
1	103925.2808 - (P)CCA?? Headworks ARV (PM)		0641-0007 - Franklin WRF Modifications and Expansion	5.54	50.00
Total By Amount					
				277.00	

Additional Info

Legal Terms and Conditions

Purchaser may be a federal contractor, and Seller may be a federal subcontractor. If seller is a federal subcontractor, then unless exempted, the Equal Opportunity clauses as set forth in 41 CFR §60-1.4(a), 41 CFR §60-1.4(b), 41 CFR §60-250.5(a) 41 CFR §60-300.5(a), and 41 CFR §60-741.5(a), as well as the specifications set forth in 41 CFR §60-4.3(a) and the provisions of 41 CFR §61-250.10, 41 CFR §61-300.10, and 29 CFR Part 471 , Appendix A to Subpart A and, if applicable, requirements of Form FHWA-1273, are incorporated by reference and shall be binding on Seller.

Except for breaches of confidentiality and vendor's third party indemnity obligations, neither party (or its affiliates, employees, contractors or suppliers, when acting in such capacity with respect to this purchase order) for any indirect, incidental, consequential, special or punitive damages, for loss of profits or revenue or loss of time, opportunity or value of data, whether in an action in contract, tort (including negligence), product liability, strict liability, statute, law, equity or otherwise.

Seller's quotation shall be referenced solely for purposes of price, quantity and delivery date. All other terms and conditions included in Seller's quotation or any other communication are hereby rejected. Purchaser's acceptance hereunder is expressly conditioned upon and limited to application of previously negotiated and mutually agreed terms. Seller will be deemed to have accepted the Purchase Order when it (i) sends Purchaser notice of acceptance in writing, (ii) starts to perform any services in accordance with the terms of the Purchase Order, and/or (iii) delivers any or all of the goods or materials covered by the Purchase Order, whichever occurs first. Purchaser may withdraw the Purchase Order at any time before it is accepted by Seller. No contract will exist except as herein provided.

Seller shall comply with Contractor's Vendor Code of Conduct which can be accessed at https://kiewit.com/files/751610389671/Kiewit_Vendor_Code_of_ConductEN2020.pdf

If no incoterm is listed above, all equipment, materials, components, documents and other deliverables furnished under this Agreement shall be delivered D.D.P. (Incoterms 2020) to the Project Site, or such other location as Contractor may direct in writing.



Fastenal Company
P.O Box 1286
WINONA, MN 55987-1286

Packing Slip

Date	Reference No.	Page
1/14/22	TNFRA68279	1

Final Due Date: NET30 2/12/2022

Cust. No. TNFRA1172
Cust. P.O. Austin - Updated RFQ

Job No.

The store serving you is
96B Beasley Drive

FRANKLIN, TN 37064
Phone #: (615)599-9972
Fax #: (615)599-5609

Sold To

KIEWIT INFRASTRUCTURE SOUTH 1044 EDI
PO BOX 452500
OMAHA, NE 68145-2500

Ship To

KIEWIT INFRASTRUCTURE SOUTH 1044 EDI
135 Clyde Yates Drive
FRANKLIN, TN 37064

This Order and Document are subject to the "Terms of Purchase" posted on www.fastenal.com.

Line No.	Quantity Ordered	Quantity Shipped	Quantity Backorder	Description	Control No.	Part No.	Price / Each	Amount
1	100	100	0	3/8"x7"SSWedgeAnchor	frtn9109	99496076	6.6300	663.00 N
				3/8" x 7" Stainless Steel Wedge-All [REG] Wedge Anchor				
2	1	1	0	Freight Non-Contract	123410938	0122222	95.0000	95.00 N
				Anchors w/shipping Unit Cost			7.58	758.00

Received By

Comments

Returns must be submitted within 30 days and are subject to a 20% restocking fee plus handling charges. Custom orders are non-returnable and cannot be cancelled once placed. Contact:

If you re-package or re-sell this product, you are required to maintain integrity of Country of Origin to the consumer of this product.

Reasonable collection and attorneys fees will be assessed to all accounts placed for collection
No materials accepted for return without our permission.

X indicates part is a hazardous material

* indicates part was sold at a promotional or special discount price

Tax Exemption

This packing slip may
may be subject to
tax depending on
your status.

Subtotal	758.00
Shipping & Handling	
State Tax	
County Tax	
City Tax	
TOTAL USD	

All discrepancies must be reported within 10 days.

32745



KIEWIT INFRASTRUCTURE SOUTH 1044 EDI
135 Clyde Yates Drive
FRANKLIN, TN 37064
ATTN: Steve Weaver

Phone:
Fax:

Account #: FRTN1172
Quote #: 69101
Job #:

Due Date:
Expiration Date: 11/4/2021
PO #: Austin Tamson 10/4 RFQ

<u>Line No.</u>	<u>Part #</u>	<u>Customer Part #</u>	<u>Description</u>	<u>Quantity</u>	<u>Price/EA</u>	<u>Extended Price</u>
1	2140560		3/8x2-3/4SS Wedge Anchor	100	\$1.0600	\$106.00
	3/8" x 2-3/4" 304 Stainless Steel Power Stud Wedge Expansion Anchor					
2	77944		316 S/S COUPL 3/8-16 3/8"-16 x 1-1/8" x 1/2" 316 Stainless Steel Plain Finish Hex Coupling Nut	100	\$1.7100	\$171.00
3	77712		3/8"-16 316 S/S FHN 3/8"-16 316 Stainless Steel Finished Hex Nut	120	\$0.0900	\$10.80
4	77712		3/8"-16 316 S/S FHN 3/8"-16 316 Stainless Steel Finished Hex Nut	80	\$0.0900	\$7.20
5	78017		S/S T316 FW 3/8x7/8 3/8" 316 Stainless Steel Small OD Flat Washer	195	\$0.0500	\$9.75
6	78017		S/S T316 FW 3/8x7/8 3/8" 316 Stainless Steel Small OD Flat Washer	5	\$0.0500	\$0.25
7	46779		1 STD CLEVIS HNGR Z 1" Standard Duty Zinc Plated Clevis Hanger	10	\$4.2400	\$42.40

USD Subtotal: \$347.40
Shipping & Handling: \$0.00

City Tax: \$0.00
County Tax: \$9.56
State Tax: \$24.31

USD Total: \$381.27

Comments:

Returns must be submitted within 30 days and are subject to a 20% restocking fee plus handling charges. Custom orders are non-returnable and cannot be cancelled once placed.

KIEWIT INFRASTRUCTURE SOUTH 1044 EDI
135 Clyde Yates Drive
FRANKLIN, TN 37064
ATTN: Steve Weaver

Phone:
Fax:

Account #: FRTN1172
Quote #: 69101
Job #:

Due Date:
Expiration Date: 11/4/2021
PO #: Austin Tamson 10/4 RFQ

<u>Line No.</u>	<u>Part #</u>	<u>Customer Part #</u>	<u>Description</u>	<u>Quantity</u>	<u>Price/EA</u>	<u>Extended Price</u>
-----------------	---------------	------------------------	--------------------	-----------------	-----------------	-----------------------

Thank you,

FASTENAL
96B Beasley Drive
FRANKLIN, TN 37064
Phone: (615)599-9972
Fax: (615)599-5609
E-mail: TNFRA@stores.fastenal.com



*Shipping & Handling charges are subject to change.



PURCHASE ORDER
PO Number: 4502527776

4502527776

Bill To Address		1044-Kiewit Infrastructure South Co., PO Box 452500, Omaha, Nebraska, United States, 68145-2500	
Email ID / Fax Number		KBS.Invoices.AP@Kiewit.com	

Supplier Details				Summary	Amount (USD)
Supplier Name and Address:	10000176 :: McMaster-Carr Supply Co. 600 N County Line Rd, Elmhurst, Illinois, United States, 60126-2034			Item Total	87.18
Dispatch Mode:	cXML/EDI			Tax	0.00
Project/Cost Center:	103925 : Franklin WRF Modifications and Expansion_Project			Total Value	87.18

Order Details				Cancellation Date	
Order Number	4502527776			Currency	USD
Issue Date				Order Contact Name	Austin Tamson
Order Contact	AUSTIN.TAMSON@KIEWIT.COM			Order Type	New Order
Order Status	Sending In progress				
Payment Terms	2% 10 days, Net 30				

Incoterms					
Delivery Point			Code		
Material Items					
Line No.	Item Number	Supplier Item Number	Item	Quantity	UOM
1		4464K53	304 Stainless Steel Threaded Pipe Fitting Low-Pressure, Tee Connector, 1 NPT Female	2.00	Each
	Unit Price (USD)	Total (USD)	Need By Date	Tax Amount (USD)	Line Type
	22.82	45.64	9/30/2021	0.00	Material
	Ship To Address	Ship To Location		Deliver To	Requester Details (Name/Email/Phone)
	135 Claude Yates Drive, Franklin, Tennessee, United States, 37064		103925-103925-135 Claude Yates Drive		Austin Tamson / AUSTIN.TAMSON@KIEWIT.COM /

Manufacturer Name		Manufacturer Part Number	Manufacturer Model Number		
unlisted		4464K53			
Account Code Details					
Sr No.	WBS Element	Work Order	Plant-Sloc	Unit Price	Quantity(Value)
1	103925.1555 - 70 - Above Ground Pipe MH STS		0641-0007 - Franklin WRF Modifications and Expansion	22.82	2.00
	Total By Amount				
	45.64				
Additional Info					

Page 88 of 100

Line No.	Item Number	Supplier Item Number	Item	Quantity	UOM
2		4452K146	316 Stainless Steel Threaded Pipe Fitting Low-Pressure, Plug with External Hex Drive, 1 NPT	2.00	Each
Unit Price (USD)		Total (USD)	Need By Date	Tax Amount (USD)	Line Type
11.52		23.04	9/30/2021	0.00	Material
Ship To Address		Ship To Location		Deliver To	Requester Details (Name/Email/Phone)
135 Claude Yates Drive, Franklin, Tennessee, United States, 37064		103925-103925-135 Claude Yates Drive		Austin Tamson	Austin Tamson / AUSTIN.TAMSON@KIEWIT.COM /
Manufacturer Name		Manufacturer Part Number	Manufacturer Model Number		
unlisted		4452K146			
Account Code Details					
Sr No.	WBS Element	Work Order	Plant-Sloc	Unit Price	Quantity(Value)
1	103925.1555 - 70 - Above Ground Pipe MH STS		0641-0007 - Franklin WRF Modifications and Expansion	11.52	2.00
Total By Amount					
23.04					
Additional Info					

Line No.	Item Number	Supplier Item Number	Item	Quantity	UOM	
3		4830K225	Standard-Wall 304/304L SS Pipe Nipple Threaded on Both Ends, 1 NPT, 3" Long	2.00	Each	
	Unit Price (USD)	Total (USD)	Need By Date	Tax Amount (USD)	Line Type	
	9.25	18.50	9/30/2021	0.00	Material	
	Ship To Address		Ship To Location	Deliver To	Requester Details (Name/Email/Phone)	
	135 Claude Yates Drive, Franklin, Tennessee, United States, 37064		103925-103925-135 Claude Yates Drive	Austin Tamson	Austin Tamson / AUSTIN.TAMSON@KIEWIT.COM /	
	Manufacturer Name		Manufacturer Part Number	Manufacturer Model Number		
	unlisted		4830K225			
	Account Code Details					
	Sr. No.	WBS Element	Work Order	Plant-Sloc	Unit Price	Quantity(Value)
	1	103925.1555 - 70 - Above Ground Pipe MH STS		0641-0007 - Franklin WRF Modifications and Expansion	9.25	2.00
Total By Amount						

Page 2 of 2

Additional Info

Legal Terms and Conditions

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Except for breaches of confidentiality and vendor's third party indemnity obligations, neither party (or its affiliates, employees, contractors or suppliers, when acting in such capacity with respect to this purchase order) will be liable to the other (or its affiliates, employees, contractors or suppliers, when acting in such capacity with respect to this purchase order) for any indirect, incidental, consequential, special or punitive damages, for loss of profits or revenue or loss of time, opportunity or value of data, whether in an action in contract, tort (including negligence), product liability, strict liability, statute, law, equity or otherwise.

Seller's quotation shall be referenced solely for purposes of price, quantity and delivery date. All other terms and conditions included in Seller's quotation or any other communication are hereby rejected. Purchaser's acceptance hereunder is expressly conditioned upon and limited to application of previously negotiated and mutually agreed terms. Seller will be deemed to have accepted the Purchase Order when it (i) sends Purchaser notice of acceptance in writing, (ii) starts to perform any services in accordance with the terms of the Purchase Order, and/or (iii) delivers any or all of the goods or materials covered by the Purchase Order, whichever occurs first. Purchaser may withdraw the Purchase Order at any time before it is accepted by Seller. No contract will exist except as herein provided.

Seller shall comply with Contractor's Vendor Code of Conduct which can be accessed at https://kiewit.com/files/751610389671/Kiewit_Vendor_Code_of_ConductEN.2020.pdf

If no incoterm is listed above, all equipment, materials, components, documents and other deliverables furnished under this Agreement shall be delivered D.D.P. (Incoterms 2020) to the Project Site, or such other location as Contractor may direct in writing.



INDUSTRIAL AND MUNICIPAL SUPPLY

P.O. BOX 573
WEST POINT, GA 31833
Phone: (706) 643-4214 ***** Fax (706) 643-5515

Quote Summary

Quote #: 2019-5041-121

Quote Name: FRANKLIN WATER RECLAMATION FACILITY-121 LINK SEAL

Location: FRANKLIN, TN

Mark #	Seq #	Quantity	Unit	Size	Material	Length	Joint	Fitting	Description	Unit Sell	Total Sell
			HEADING: 01								
			DESCRIPTION: 2" PVC PIPE THRU 4" CORE OPENING								
01-1	1	48	EA		RUBBER		LINKSEAL	LNK	LINKSEAL #1/2-S-300-S WITH STAINLESS STEEL HARDWARE	\$6.14	\$294.72
			End of Quote Summary STOCK 2-3 DAY SHIPPING FREIGHT COST WILL BE ADDED TO INVOICE								
										Total	\$294.72



INDUSTRIAL AND MUNICIPAL SUPPLY

P.O. BOX 573
WEST POINT, GA 31833
Phone: (706) 643-4214 ***** Fax (706) 643-5515

Quote Summary

Quote #: 2019-5041-121-1

Quote Name: FRANKLIN WATER RECLAMATION FACILITY-121 LINK SEAL-1

Location: FRANKLIN, TN

Mark #	Seq #	Quantity	Unit	Size	Material	Length	Joint	Fitting	Description	Unit Sell	Total Sell
			HEADING: 01								
			DESCRIPTION: 1" PVC PIPE THRU 3" CORE OPENING								
01-1	1	16	EA		RUBBER		LINKSEAL	LINK	LINKSEAL #1/2-S-300-S WITH STAINLESS STEEL HARDWARE	\$6.14	\$98.24
01-2	2	1	EA				DELIVERY	FREIGHT	CHARGE UPS GROUND TRACKING 1Z7765150352145209 PRE-PAID & ADD TO INVOICE	\$0.00	\$0.00
End of Quote Summary										Total	\$98.24



INDUSTRIAL AND MUNICIPAL SUPPLY

P.O. BOX 573
WEST POINT, GA 31833
Phone: (706) 643-4214 ***** Fax (706) 643-5515

Quote Summary

Quote #: 2019-5041-124

Quote Name: FRANKLIN WATER RECLAMATION FACILITY-124 CPVC FITTINGS

Location: FRANKLIN, TN

Mark #	Seq #	Quantity	Unit	Size	Material	Length	Joint	Fitting	Description	Unit Sell	Total Sell
			HEADING: 01								
			DESCRIPTION: CPVC FITTINGS								
01-2	2	50	EA	1"	CPVC		SxS	90 BEND	9806010 SCHEDULE 80 CPVC	\$2.77	\$138.50
01-3	3	30	EA	2"	CPVC		SxS	90 BEND	9806020 SCHEDULE 80 CPVC	\$10.37	\$311.10
01-4	4	5	EA	2" x 1"	CPVC		SxS	BUSHING	9837249 SCHEDULE 80 CPVC	\$9.26	\$46.30
			End of Quote Summary								
									FREIGHT PRE-PAID & ADD TO INVOICE	Total	\$495.90



INDUSTRIAL AND MUNICIPAL SUPPLY

P.O. BOX 573
WEST POINT, GA 31833
Phone: (706) 643-4214 ***** Fax (706) 643-5515

Quote Summary

Quote #: 2019-S041-127

Quote Name: FRANKLIN WATER RECLAMATION FACILITY-127 CPVC Pipe

Location: FRANKLIN, TN

Mark #	Seq #	Quantity	Unit	Size	Material	Length	Joint	Fitting	Description	Unit Sell	Total Sell
			HEADING: 01								
			DESCRIPTION: CPVC PIPE								
01-1	1	320	FT	1"	CPVC	20'-0"	PLAIN END	PIPE	SCHEDULE 80 CPVC	\$2.40	\$ 768.00
End of Quote Summary										Total	\$ 768.00

QUOTE

TRUE-LINE CC - NASHVILLE

274 HERMITAGE AVE
NASHVILLE, TN 37210

(615) 255-2673 (615) 255-9685 Fax

OPERATOR

- 0

QUOTES

CUSTOMER INFORMATION	
Kiewit Infrastructure South C.	Cust #
105 Continental Place	105416
Ste 150	
BRENTWOOD, TN 37207	
(312) 636-7569	Fax:
Ordered By:	
Salesman:	

JOB INFORMATION	
Job Date: 12/14/21 (Tuesday)	
Arrival: 7:00AM	
Estimated Hours: 8.00	
PO #:	
Job Request #:	
Order Entered: 12/14/21 09:00am	By: ROBERT
Salesman:	
Tax Status:	

JOB SITE INFORMATION	
WWTP	
135 Claude Yates	
Franklin, TN	
Area: WILLIAMSON	Map Code:
Jobsite: None	Foreman: Austin
General Contractor:	
Owner:	
Needed At Site	
Distance: 0	Elevation: 0
ECP:	

Details			
Quantity	Description	Unit	Price
Minimum Charge: \$0 Stand By Charge: \$0 /hr Travel Charge: \$0 /hr Core drill the following out of customers supplied lift during the same mobilization: 4 - 4" x 20" deep wall holes 4 - 3" x 20" deep wall holes Price for all eight holes, \$1,300.00 Price is for regular weekday working hours.			

Rental Rate Blue Book®

November 3, 2020

Genie Z-45/25 BI-ENERGY

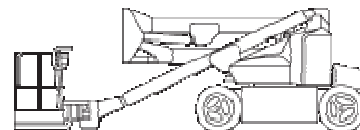
Electric Self-Propelled Articulating Aerial Lifts

Size Class:

41 - 50 ft

Weight:

15350 lbs



Configuration for Z-45/25 BI-ENERGY

Maximum Platform Capacity
Voltage

500.0 lbs
48.0 V

Maximum Platform Height

546.0 in

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$2,425.00	USD \$680.00	USD \$170.00	USD \$26.00	USD \$6.89	USD \$20.67
Adjustments						
Region (Franklin, Tennessee: 107%)	USD \$169.75	USD \$47.60	USD \$11.90	USD \$1.82		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$2,594.75	USD \$727.60	USD \$181.90	USD \$27.82	USD \$6.89	USD \$21.63

Non-Active Use Rates

Hourly

Standby Rate

USD \$8.40

Idling Rate

USD \$14.74

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	46%	USD \$1,115.50/mo
Overhaul (ownership)	43%	USD \$1,042.75/mo
CFC (ownership)	4%	USD \$97.00/mo
Indirect (ownership)	7%	USD \$169.75/mo

Fuel cost data is not available for these rates.

Revised Date: 2nd half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 10, 2022

To: Mr. Dan Harris CP-KIEWIT-00209.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: CP-209 – BNR 3 Additional Cleanup from BNR 2 Flow

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for BNR 3 Additional Cleanup from BNR 2 Flow in the amount of **Four Thousand Four Hundred Thirty-Two Dollars (\$4,432.00)**.

This proposal is for labor and ST&S associated with cleanup caused by the overflow of BNR 2 into BNR 3 on January 10th, 2022.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

STUD	PREPARED BY: Michael Pachulic
------	-------------------------------

BNR 3 Additional Cleanup from BNR 2 Flow.xlsx

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2021 Breakdown of Craft Wage Burden Rates

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Wage Type	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 40.00	\$ 60.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 24.00	\$ 36.00
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 3.07	\$ 4.60	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.15	\$ 3.22	\$ 1.84	\$ 2.76
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.61	\$ 2.42	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.13	\$ 1.69	\$ 0.97	\$ 1.45
Additional Wages	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence	\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 60.15	\$ 82.49	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 42.26	\$ 57.89	\$ 37.79	\$ 51.19

Wage Type	Pipefitter (Foreman)		Pipefitter		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 4.22	\$ 5.69	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07	\$ 2.15	\$ 3.22	\$ 3.05	\$ 4.12	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 2.22	\$ 2.99	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14	\$ 1.13	\$ 1.69	\$ 1.60	\$ 2.16	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14
Additional Wages	\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 72.38	\$ 93.91	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29	\$ 42.26	\$ 57.89	\$ 55.34	\$ 70.97	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29

Wage Type	Survey		Electrician	
	Straight	OT	Straight	OT
Labor - Base Wages	\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 2.53	\$ 3.80	\$ 2.95	\$ 3.95
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.33	\$ 1.99	\$ 1.55	\$ 2.07
Additional Wages	\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 47.84	\$ 66.27	\$ 53.97	\$ 68.46







CONSTRUCTION CHANGE AUTHORIZATION

TO:	Mr. Steve Davis Project Manager Kiewit Water Facilities South 4405 International Blvd., NW, Suite C-101 Norcross, Georgia 30093 (770) 940-8044	FROM:	CDM Smith 210 25 th Ave. N. Suite 1102 Nashville, TN 37203 (615) 320-3161
DATE:	February 10, 2022		
PROJECT:	City of Franklin, Tennessee Franklin WRF Modifications & Expansion Project		
CCA NUMBER:	61.1	CDM SMITH PROJ. NO.:	14915-231666
SUBJECT:	Equalization Pump and Valve Controls	CITY PROJECT NO.:	2017-0264
REFERENCE:	Section 13305		

DESCRIPTION:

CCA 61 is modified with the *italicized* text below.

Delete 13305.3.02.C.3 through C.6 and replace with the following:

3. *During normal operating conditions when flows are less than 33 MGD and water level elevation in the EQ Tank is lower than El. 695.00, , PV-410 default position shall be 25% open to allow water from 4" vents in the Headworks EQ Wet Well to drain to the EQ Tank by gravity. If EQ pumps are off, disabled or otherwise out of service during these conditions and PV-410 is closed or less than 25% open, an alarm shall sound on SCADA prompting operator intervention to open the valve. When plant influent rises above 33 MGD but not above 39 MGD and the level in the equalization tank (LIT-420) is below a preset maximum level (default: 659.00), flow into the equalization tank shall be by gravity. Valve PV-170 shall be called to open. Equalization low flow valve PV-410 shall modulate to meet flow setpoint equal to plant influent flow rate minus 33 MGD.*
 - a. Note: The 33 MGD setpoint shall be adjustable to be lower, but not higher, than 33 MGD by an operator with elevated privileges. In the event that an alternate setpoint is chosen, the 39 MGD setpoint shall be automatically calculated as $N+6$ MGD.
4. When plant influent rises above 39 MGD, flow into the equalization tank shall be by the equalization pumps.
 - a. In automatic mode, pumps P-410-1 and/or P-410-2 shall be called to start and their speed controlled in order to meet a flow setpoint equal to the plant influent flow rate minus 33 MGD. The estimated maximum flow rate of both pumps together is 27 MGD, and the estimated minimum flow rate of one pump is 6 MGD.
 - b. Pumps shall operate in a Lead/Lag fashion:

- 3) Minimum and maximum pump speeds are defined by the pump and VFD providers during field testing and shall be coordinated with the Contractor.
 - 4) If both pumps are running, they shall be run at the same speed.
 - c. Once a pump is running, valve PV-410 shall be called to close.
 - d. If the level in the equalization wetwell reaches the low limit (LIT-405, LSL-405), then the equalization pumps shall be stopped.
 - e. If the level in the equalization wetwell reaches the high limit (LIT-405, LSH-405), then the Lead equalization pump shall be started, and shall ramp to meet the flow setpoint as previously described.
 - f. If the level in the equalization tank reaches the high limit (LIT-420, LSH-420), then the equalization pumps shall be stopped.
5. When plant influent rises above 33 MGD but not above 39 MGD and the level in the equalization tank (LIT-420) is above a preset maximum level (default: 659.00), flow into the equalization tank shall be by the equalization pumps. The pumps shall then operate to meet the flow setpoint as previously described. It is to be expected that the pump will undergo multiple start cycles in this scenario.
 6. When the plant influent falls below 39 MGD and remains so through a preset time delay (default: 120 seconds) and the equalization tank level is below a preset maximum level (default: 659.00) (LIT-420, LSL-420), then the equalization pumps shall be stopped, and the equalization low flow valve PV-410 shall be called to open to modulate to meet flow setpoint equal to plant influent flow rate minus 33 MGD.
 7. Return of influent water from equalization tank to the plant shall be a flow control loop, with FIT-440 providing the process variable and FCV-440 as the final control element. The setpoint shall be provided in either Auto or Manual mode.
 - a. In either mode, equalization tank return shall be initiated by a manual operator command.
 - b. In Auto mode, the flow rate setpoint shall be calculated as 33 MGD minus the current plant influent flow rate.
 - c. In Manual mode, the operator shall enter a flow rate setpoint from the HMI.
 - d. The maximum allowable flow rate (in Auto or Manual) shall be 15.0 MGD.
 - e. If the level in the equalization tank has reached the low limit (LIT-420, LSL-420), then the flow control setpoint shall be reset to zero, and FCV-440 called to close.

CDM SMITH:

By: _____

Date: _____


8/10/22

CONTRACTOR:

By: _____

Date: _____


8/10/22

City of Franklin:

By: Ben I. Horder
Date: 08/11/2022



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 30, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203
CCA-KIEWIT-00099.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for CCA 61.1 EQ Pump and Valve Controls

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for modifications to the control strategy for the EQ Pumps and Control Valves in accordance with **CCA 061.1 – Equalization Pump and Valve Controls** in the amount of **Two Thousand Three Hundred Thirty-One Dollars (\$2,331.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

PREPARED BY: Steve Davis

CONSTRUCTION CHANGE AUTHORIZATION

TO:	Mr. Steve Davis Project Manager Kiewit Water Facilities South 4405 International Blvd., NW, Suite C-101 Norcross, Georgia 30093 (770) 940-8044	FROM:	CDM Smith 210 25 th Ave. N. Suite 1102 Nashville, TN 37203 (615) 320-3161
DATE:	February 10, 2022		
PROJECT:	City of Franklin, Tennessee Franklin WRF Modifications & Expansion Project		
CCA NUMBER:	61.1	CDM SMITH PROJ. NO.:	14915-231666
SUBJECT:	Equalization Pump and Valve Controls	CITY PROJECT NO.:	2017-0264
REFERENCE:	Section 13305		

DESCRIPTION:

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Delete 13305.3.02.C.3 through C.6 and replace with the following:

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 - a. Note: The 33 MGD setpoint shall be adjustable to be lower, but not higher, than 33 MGD by an operator with elevated privileges. In the event that an alternate setpoint is chosen, the 39 MGD setpoint shall be automatically calculated as N+6 MGD.
4. When plant influent rises above 39 MGD, flow into the equalization tank shall be by the equalization pumps.
 - a. In automatic mode, pumps P-410-1 and/or P-410-2 shall be called to start and their speed controlled in order to meet a flow setpoint equal to the plant influent flow rate minus 33 MGD. The estimated maximum flow rate of both pumps together is 27 MGD, and the estimated minimum flow rate of one pump is 6 MGD.
 - b. Pumps shall operate in a Lead/Lag fashion:

- 1) Which pump is Lead, No. 1 or No. 2, may be selected by the operator, or may be set to alternate each time both pumps are stopped.
- 2) The Lag pump shall be started when the Lead pump reaches its maximum speed and remains there through a preset time delay (default: 30 seconds). The Lag pump shall be stopped when the pumps reach minimum speed and remain there through a preset time delay (default: 30 seconds).

- 3) Minimum and maximum pump speeds are defined by the pump and VFD providers during field testing and shall be coordinated with the Contractor.
 - 4) If both pumps are running, they shall be run at the same speed.
 - c. Once a pump is running, valve PV-410 shall be called to close.
 - d. If the level in the equalization wetwell reaches the low limit (LIT-405, LSL-405), then the equalization pumps shall be stopped.
 - e. If the level in the equalization wetwell reaches the high limit (LIT-405, LSH-405), then the Lead equalization pump shall be started, and shall ramp to meet the flow setpoint as previously described.
 - f. If the level in the equalization tank reaches the high limit (LIT-420, LSH-420), then the equalization pumps shall be stopped.
5. When plant influent rises above 33 MGD but not above 39 MGD and the level in the equalization tank (LIT-420) is above a preset maximum level (default: 659.00), flow into the equalization tank shall be by the equalization pumps. The pumps shall then operate to meet the flow setpoint as previously described. It is to be expected that the pump will undergo multiple start cycles in this scenario.
 6. When the plant influent falls below 39 MGD and remains so through a preset time delay (default: 120 seconds) and the equalization tank level is below a preset maximum level (default: 659.00) (LIT-420, LSL-420), then the equalization pumps shall be stopped, and the equalization low flow valve PV-410 shall be called to open to modulate to meet flow setpoint equal to plant influent flow rate minus 33 MGD.
 7. Return of influent water from equalization tank to the plant shall be a flow control loop, with FIT-440 providing the process variable and FCV-440 as the final control element. The setpoint shall be provided in either Auto or Manual mode.
 - a. In either mode, equalization tank return shall be initiated by a manual operator command.
 - b. In Auto mode, the flow rate setpoint shall be calculated as 33 MGD minus the current plant influent flow rate.
 - c. In Manual mode, the operator shall enter a flow rate setpoint from the HMI.
 - d. The maximum allowable flow rate (in Auto or Manual) shall be 15.0 MGD.
 - e. If the level in the equalization tank has reached the low limit (LIT-420, LSL-420), then the flow control setpoint shall be reset to zero, and FCV-440 called to close.

CDM SMITH:

CONTRACTOR:

By: _____

By: _____

Date: _____

Date: _____

City of Franklin:

By: _____

Date: _____



CONTROL INSTRUMENTS, INC.

NATIONWIDE SYSTEM INTEGRATION
Providing solutions since 1962



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PHONE: 404/351-1085 • FAX: 404/794-5784 • EMAIL: admin@c2iinc.com

FLORIDA OPERATIONS OFFICE:

23 S. DILLINGHAM AVENUE, STE. A
KISSIMMEE, FL 34741
PHONE: 404/351-1085

FIELD OFFICES: Georgia
Florida
Tennessee

29 March, 2022

Kiewit Infrastructure South Co.
4405 International Blvd, NW
Suite C-101
Norcross, GA 30093
Attn: Steve Davis

PROJECT: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT
OWNER: CITY OF FRANKLIN, TN
ENGINEER: CDM SMITH, INC.
CONTRACT: 103925-SC-004
KIEWIT JOB NO.: 103925
C2i JOB NO: 09181015

Reference: CCA #61.1, EQ Pump and Valve

Dear Steve:

In response to the above-referenced construction change order, we propose one (1) day of engineering/programming, or a cost of \$1,875.00, to include onsite and travel expenses.

If you have any questions, please let us know.

Sincerely,

Mark G. Healey
CONTROL INSTRUMENTS, INC./C2i
MGH/jw

cc: Jonathon Johnson / Sue Adams – C2i

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2022 Breakdown of Craft Wage Burden Rates

Wage Type	Burden %	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 44.00	\$ 66.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 24.00	\$ 36.00
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 3.50	\$ 5.25	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.39	\$ 3.58	\$ 1.91	\$ 2.87
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 2.61	\$ 3.92	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.78	\$ 2.67	\$ 1.43	\$ 2.14
Additional Wages		\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence		\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 65.25	\$ 90.30	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 44.81	\$ 61.90	\$ 37.98	\$ 51.64

Wage Type	Burden %	Pipefitter (Foreman)		Pipefitter/Welder		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 4.38	\$ 5.91	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.28	\$ 2.23	\$ 3.34	\$ 3.16	\$ 4.28	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.23
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 3.27	\$ 4.41	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.19	\$ 1.66	\$ 2.49	\$ 2.36	\$ 3.19	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.15
Additional Wages		\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 11.71	\$ 11.71	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence		\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 73.25	\$ 95.21	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.82	\$ 42.53	\$ 58.48	\$ 55.87	\$ 71.82	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.12

Wage Type	Burden %	Survey		Electrician	
		Straight	OT	Straight	OT
Labor - Base Wages		\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 2.63	\$ 3.94	\$ 3.06	\$ 4.10
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 1.96	\$ 2.94	\$ 2.29	\$ 3.06
Additional Wages		\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence		\$ 13.92	\$ 13.92	\$ 8.35	\$ 8.35
Total		\$ 53.80	\$ 72.59	\$ 54.48	\$ 69.25



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

April 7, 2022

To: Mr. Dan Harris CP-KIEWIT-00212.00
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: REVISED Change Proposal for Additional Heat Trace Power

Dear Mr. Harris,

Following approval of the heat trace submittals in specification section 15257, Wayne J. Griffin Electric, Inc. has reviewed the heat trace requirements as well as the contract documents for power for the heat trace and determined that the contract documents do not provide for power to all locations where heat tracing is required. This proposal has been revised from the initial submittal.

Attached you will find Kiewit's Change Proposal for **Additional Heat Trace Power** in the amount of **One Hundred Forty Thousand Eighty-Six Dollars (\$140,086.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

Cc: File
Michelle Hatcher



CP: Additional Heat Trace Power (REVISED)

PREPARED BY: Steve Davis

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Wayne J Griffin - Additional Heat Trace Power	1.00	LS			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STS - small tools, consumables, safety equip. (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)																	
		MHR			\$ -	\$ -									\$ 5.00	\$ -	\$ -
TAX: (9.75% of Material, Equipment, Other)					\$ -	\$ -											\$ -
SUBTOTALS						\$ -											\$ 133,415.07
MARKUP %						15.00%											\$ 6,670.75
SUBTOTALS WITH MARKUPS APPLIED																	\$ 140,085.82
BOND																	
TOTAL																	\$ 140,086.00



WAYNE J.
GRIFFIN ELECTRIC
INC.

April 4, 2022

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp, Franklin, TN
Proposal #94, Supersedes Proposal(s) #86

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is for installation of raceways, wiring, and 30amp GFCI breakers required to connect to additional heat tracing as found in the Trinova Heat Trace Submittal Drawings. The materials within this proposal are circuits that are needed above and beyond what was shown within the electrical drawings for the project. Complete installation of heat tracing tape, tap boxes, thermostats, and any other miscellaneous items for the heat tape are provided and installed by others. Excavation for underground conduit installation for this work by others.

Material	\$	63,526.16
Labor		51,898.28
Overhead & Profit		17,313.67
Subtotal	\$	132,738.11
Bond		676.96
Total	\$	133,415.07

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at nyoung@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Nicholas A. Young
Project Manager

NAY/hat

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0094, Additional HeatTrace Power
Date: 4/1/2022
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is for installation of raceways, wiring, and 30ma GFCI breakers required to connect to additional heat tracing as found in the Trinova Heat Trace Submittal Drawings. The materials within this proposal are circuits that are needed above and beyond what was shown within the electrical drawings for the project. Complete installation of heat tracing tape, tap boxes, thermostats, and any other miscellaneous items for the heat tape are provided & installed by others. Excavation for underground conduit installation for this work by others.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	15.160
Cleanup	0.00	0.0000	HRS	0.000	0.000	15.160
Tools	0.00	0.0000	HRS	0.000	0.000	18.190
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	15.160
Supervision	0.00	0.0000	HRS	0.000	0.000	30.310
Project Controls	0.00	0.0000	HRS	0.000	0.000	30.310
8" X 8" X 6" 316SS NEMA 4X BOX	20.00	405.1100		8,102.200	1.000	20.000
HEAT SHRINK WIRE MARKER	393.00	0.2500		98.250	0.025	9.825
30A 30MA 1-POLE GFCI BREAKER	28.00	302.8000		8,478.400	0.100	2.800
3/4" PVC SCHEDULE 80	2,661.00	0.6000	FT	1,596.600	0.020	53.220
3/4" ALUMINUM CONDUIT	1,250.00	5.6426	FT	7,053.250	0.055	68.750
3/4" ALUMINUM 90D ELBOW	113.00	17.2250	EA	1,946.430	0.300	33.900
3/4" PVC FEMALE ADAPTER	112.00	0.5548	EA	62.140	0.060	6.720
3/4 CONDUIT BODY GASKET	98.00	4.5000	EA	441.000	0.020	1.960
3/4" RIGID THREADED "LB" CONDULET (ALUM)	48.00	15.8479	EA	760.700	0.600	28.800
3/4" RIGID THREADED "T" CONDULET (ALUM)	50.00	20.1950	EA	1,009.750	0.200	10.000
3/4" DIE CAST CONDULET COVER	98.00	5.0900	EA	498.820	0.040	3.881
3/4" MYERS HUBS ALUMINUM	42.00	11.1700	EA	469.140	0.120	5.040
3/4" - 1/2" REDUCING BUSHING	25.00	1.1436	EA	28.590	0.170	4.250
3/4" LIQUID TIGHT CONDUIT UL	270.00	2.5920	FT	699.840	0.050	13.500
3/4" LIQUID TITE 90 DEGREE ALUMINUM CONNECTOR	43.00	15.0100	EA	645.430	0.160	6.880
3/4" LIQUID TITE STRAIGHT ALUMINUM CONNECTOR	121.00	17.5200	EA	2,119.920	0.180	21.780
#10 XHHW COPPER WIRE	19,039.00	0.7090	FT	13,498.650	0.008	152.312
WIRENUTS 76B RED (KEG 5M-20 BAGS/250 EA.)	171.00	0.1723	EA	29.460	0.040	6.840
#10 HOLE INSULATED RING CRIMP LUG 12-10	234.00	1.4837	EA	347.190	0.100	23.400
1/4" BEAM CLAMP (SS)	30.00	15.3097	EA	459.290	0.100	3.000
1/4 x 2 1/4" WEDGE ANCHOR (SS)	183.00	2.1057	EA	385.340	0.200	36.600
3/8 x 3 3/4" WEDGE ANCHOR (SS)	14.00	5.0500	EA	70.700	0.220	3.080
1/4 X 1 1/4" FENDER WASHER (SS)	286.00	0.2262	EA	64.690	0.001	0.343
3/8 X 1 1/4" FENDER WASHER (SS)	14.00	0.1486	EA	2.080	0.190	2.660
1/4-20 x 1" MACHINE SCREWS (SS)	124.00	0.5101	EA	63.250	0.070	8.680
1/4-20 HEX NUTS (SS)	102.00	0.1855	EA	18.920	0.024	2.448
CABLE TIE 8"	314.00	0.0854	EA	26.820	0.000	0.000
3/4" RIGID 1 HOLE STRAP ALUMINUM	74.00	1.5100	EA	111.740	0.040	2.960
3/4" RIGID STRUT CLAMP (702 SERIES)	235.00	2.6546	EA	623.830	0.030	7.050
1 5/8 X 1 5/8 12 GAUGE SOLID 10' STRUT (SS)	218.00	34.4220	FT	7,504.000	0.123	26.705
4 HOLE 90 STRUT ANGLE BRKT 316 STAINLESS STL	23.00	12.2500	EA	281.750	0.200	4.600
1/2" MALE UNION ALUMINUM	10.00	20.9900	EA	209.900	0.600	6.000
3/4 EYS EXP-PROOF CONDUIT SEAL-OFF FEMALE	12.00	24.7642	EA	297.170	0.600	7.200
CHICO-A3 9OZ SEALING	2.00	27.4000	EA	54.800	0.240	0.480
CHICO X FIBER 8 OZ	1.00	46.1200	EA	46.120	0.096	0.096
1/2' x 21" EXP-PROOF FLEXIBLE COUPLING	10.00	370.8200	EA	3,708.200	0.450	4.500
3/4" GUAT CONDUIT BOX WITH COVER ALUMINUM	20.00	85.5900	EA	1,711.800	0.800	16.000



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0094, Additional HeatTrace Power
Date: 4/1/2022
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 2

Totals	63,526.16	730.55
Tax	0.00	
Materials with Tax	63,526.16	

Summary

Itemized Breakdown Total		63,526.16
Elect. Journeyman	(730.5500 hrs @ \$71.04 / hr)	51,898.27
		51,898.27
Overhead & Profit	(\$115,424.44 @ 15.00%)	17,313.67
		17,313.67
Bond	(\$132,738.11 @ 0.51%)	676.96
		676.96
		17,990.63
Total		\$133,415.07

**Kiewit**

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 2, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00218.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for Refurbishment of Reclaimed Pump Control Valves No. 01 and No. 02

Dear Mr. Harris,

Kiewit is submitting a change proposal for the refurbishment of the Reclaimed Pump Control Valves No. 01 and No. 02. Please see Southern Sales Company's quotation dated April 19, 2022, for further details on scope of refurbishment. In addition, this proposal includes re-wiring the existing valve that is being rebuilt for Pump #2 at the Reclaimed Water Pump Station. This proposal is for new wire, flex, and terminations. If the conduit is not re-usable, then replacing the conduit will be an additional cost.

Attached you will find Kiewit's change proposal for **the Refurbishment of Reclaimed Pump Control Valves No. 01 and No. 02** in the amount of **Twenty-Eight Thousand One Hundred Ninety-Eight Dollars (\$28,198.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

PREPARED BY: Steve Davis

000-CostProposal-FranklinWRF-TEMPLATE



2937 Kraft Drive
Nashville, TN 37204
Office: (615) 254-0066
Fax #: (615) 254-0791
www.southernsalesinc.com
www.tencarva.com



Quotation

To: Thad Selby
Kiewit

Date: 4-19-22
Project: Franklin WRF Expansion
Owner: City of Franklin
Engineer: CDM-Smith
Quote No: 14651BF

Under the terms and conditions herein stated, we are pleased to quote the following:

Cla-Val Reclaim Pump Control Valves

1. Southern Sales will provide parts and labor to rebuild Reclaim Pump Control Valve #1, an existing 12" Cla-Val model 60-19BY, as follows:
 - Supply and replace pilot system including tubing, solenoids, limit switch, and 3-way valves.
 - Supply and replace main valve diaphragm, disk, and o-rings.
 - 3-man crew and safety equipment for confined space entry.
 - Crane truck for component removal/installation.
 - Termination of wires for solenoids and limit switch. Installation assumes clean and reliable power will be provided by others PRIOR to mobilization.
 - Functional testing of valve after installation is complete.
 - The above scope of services assumes valves are in similar condition as Valve #5 which was previously refurbished.
2. Southern Sales will provide parts and labor to rebuild Reclaim Pump Control Valve #2, an existing 12" Cla-Val model 60-19BY, as follows:
 - Supply and replace X105 limit switch
 - 3-man crew and safety equipment for confined space entry.
 - Termination of wires for limit switch. Installation assumes clean and reliable power will be provided to the switch by others PRIOR to mobilization.
 - Functional testing of valve after installation is complete.

Total Price\$24,900.00

General Notes:

1. Taxes not included.
2. Lead time for parts is 4-6 weeks ARO
3. Payment terms are net 30 after completion.
4. Installation does NOT include: dewatering of valve pit, pulling new wire or conduit, installation of new flange hardware and any items of equipment or services not specifically outlined in the above.
5. Please direct all inquiries regarding this proposal to Brent Fulghum at the phone numbers shown below.

Sincerely yours,

SOUTHERN SALES COMPANY

A division of Tencarva Machinery Company

Brent Fulghum

bfulghum@southernsalesinc.com

(615) 727-6204 direct

(615) 483-9537 cell

(615) 254-0791 fax

SOUTHERN SALES COMPANY

A division of Tencarva Machinery Company

TERMS AND CONDITIONS

Date: January 12, 2017

1. **ACCEPTANCE.** This contingent proposal is submitted by Southern Sales Company as Seller, to Buyer subject to the terms and conditions hereinbefore and hereinafter set forth, and is contingent on Seller's final approval of additional factors such as Buyer's credit. This proposal may only be accepted on the exact terms set forth herein, and no additional terms or modifications shall be accepted. This proposal shall become an agreement binding on Buyer and Seller when signed by Buyer and then later approved in writing by Seller, and shall become the entire and sole agreement of the parties pertaining to the subject matter of the agreement, mutually withdrawing, canceling, or otherwise waiving, terminating, and excluding any and all oral, written, express, or implied representations, guarantees, warranties, agreements, or understandings not set forth in full herein, or in the general provisions or specifications made a part of this agreement. All of Seller's obligations are subject to Buyer's continued credit acceptability by Seller through the time of shipment. Each individual signing this document warrants that he or she has proper authority to do so.
2. **PRICES.** Prices quoted in this proposal are firm for a period of **15 days** from the date hereof, provided (a) Seller has not revoked the price or proposal, (b) a Buyer's signature below constituting an acceptable order is received by Seller within **15 days** from date of proposal, (c) anytime after **15 days** of Seller's approval, Buyer agrees to accept delivery of any or all of the equipment on a "when-ready" basis, and (d) Buyer agrees to make payment for all equipment listed herein on terms and conditions set forth herein for all partial and/or complete shipments. Otherwise, prices may be revised to reflect Seller's selling prices in effect on the date of shipment. If shipment is, for any reason, deferred beyond **12 months** from the date of Buyer's acceptance, the prices set forth herein are subject to change to conform to Seller's prices prevailing on the date of shipment but not to exceed an escalation of **2%** per month from the expiration of the aforesaid period to the date of shipment.
3. **ITEMS INCLUDED.** This proposal includes only those items specified herein and does not include installation, field erection, accessory or related materials such as controls, piping, printed matter, etc., nor any other item not specifically listed herein.
4. **SUPERVISION AND SERVICE.** If Buyer desires field service for checking the installation and/or instruction in operation of the equipment in excess of that set forth in this proposal, Buyer agrees to pay a **per diem rate of \$1,000.00** including travel time.
5. **DELIVERY.** Buyer shall pay delivery costs "**FOB POINT OF SHIPMENT.**" All claims for damage, delay and/or shortage arising from such shipment shall be made by Buyer directly solely against the Carrier. Buyer agrees that shipment schedules and/or delivery dates set forth in this proposal represent nothing more than Seller's best estimate of time required to ship after receipt of acceptable order and final approval data. No liability, direct or indirect, is assumed by Seller for failure to ship as scheduled. Buyer grants Seller the right to make partial shipments and Buyer agrees to pay promptly according to the terms of this agreement for all material or equipment shipped. Buyer shall notify Seller of any nonconformity within **15 days** after receipt of the equipment or within **15 days** after the nonconformity could have been reasonably discovered, whichever date is earlier.
6. **CANCELLATION, SUSPENSION OR DELAY.** Orders resulting from this proposal may be canceled, suspended or delayed at any time prior to shipment - but only upon Buyer's prior payment to Seller of Seller's reasonable charges for cancellation, suspension or delay, which charges shall include expenses already incurred, costs incurred by Seller to cancel, suspend or delay, and Seller's anticipated profit.
7. **BACKCHARGES.** Buyer agrees that Seller will not owe backcharges for labor, materials or other costs incurred by Buyer or others in adjustment, modification, service or repair of material or equipment furnished unless such backcharges previously have been authorized in writing by Seller.
8. **TAXES.** All applicable taxes or other Government charges upon the production, sale, shipment, installation and/or use of equipment covered by this proposal shall be added to the total price specified in this proposal and shall be paid by Buyer.
9. **TERMS OF PAYMENT.** Credit is subject to acceptance by Seller and subject to Buyer's continued credit acceptability by Seller through the time of shipment. Buyer agrees to pay on terms of "**NET 30 DAYS FROM DATE OF SHIPMENT**" of each item. Buyer also agrees to pay interest on past due accounts at the rate of one and one-half percent per month (both pre-judgment and post judgment), plus all costs of collection, including reasonable attorney fees.
10. **WARRANTY.** In cases where Seller is the manufacturer of new equipment, such equipment is warranted by Seller to be free from defects in material and workmanship under normal use and service for a period of one year from date of shipment. In the event of such a defect in material or workmanship within one year of shipment, Seller may (at Seller's option) repair or replace any part(s) provided that such parts are, upon request, returned to the point specified by Seller, transportation prepaid by Buyer. This warranty does not cover parts damaged by decomposition from chemical action or damaged by wear caused by abrasive materials; nor does it cover damage resulting from misuse, accident, or neglect, or from improper operation, maintenance, installation, modification, or adjustment. Nor does this warranty cover parts repaired by entities other than Seller without written approval from Seller.

In cases where Seller is not the manufacturer or where the equipment is not new, Buyer agrees that Seller is not liable for any warranty whatsoever, and Buyer's sole recourse for defects in material or workmanship shall be under the terms of the manufacturer's written warranty, if any.

No warranties have been made by Seller in reference to this equipment unless expressly included in this written agreement.

THESE WARRANTIES ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SELLER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR OF FITNESS FOR A PARTICULAR PURPOSE.

11. TITLE. Title to this equipment passes to buyer at the time of shipment, but pursuant to the Uniform Commercial Code, Buyer agrees (should Seller request it) to promptly execute security agreements and financing statements granting to Seller a security interest in the contract amount of this agreement in either (1) all of the equipment covered by this agreement, or (2) Buyer's entire inventory, equipment, accounts receivable and their proceeds, plus after-acquired additions and substitutions.

12. COMPLIANCE WITH LAWS. Buyer shall be solely responsible for securing any necessary permits under (and for compliance with) all safety, health and sanitation laws, ordinances and regulations in connection with the installation and operation of the equipment. Buyer agrees to provide Seller, upon request, evidence of the securing of any permits and of compliance with any such laws, ordinances and regulations, although Seller may rely exclusively on Buyer's representations, hereby made, that it shall secure such permits and comply with such laws, ordinances and regulations.

13. INDEMNIFICATION. It is understood that Seller has relied upon data furnished by and on behalf of Buyer with respect to the safety aspects of the installation and use of the equipment and that it is Buyer's responsibility to assure that the equipment will, when installed and put to use, be in compliance with safety requirements fixed by law and otherwise legally adequate to safeguard against injuries or damage to persons or property. Buyer hereby agrees to defend, indemnify and hold harmless Seller, its agents and employees, against any and all losses, costs, damages, claims, liabilities or expenses, including but not limited to, reasonable attorney's fees arising out of or resulting from any injury or damage to any person or property caused by inadequacy of safety features, devices or characteristics in the equipment or in the installation, use or operation of same, except claims for repair or replacement of defective parts as provided herein.

14. DISCLAIMER OF CONSEQUENTIAL DAMAGES, LIQUIDATED DAMAGES OR PENALTIES. BUYER AGREES THAT SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES. CONSEQUENTIAL DAMAGES FOR THE PURPOSES OF THIS AGREEMENT SHALL INCLUDE BUT NOT BE LIMITED TO, LOSS OF USE, INCOME OR PROFIT, OR LOSS OF OR DAMAGE TO PROPERTY (INCLUDING, BUT WITHOUT LIMITATION, PRODUCTS MANUFACTURED, PROCESSED OR TRANSPORTED BY THE USE OF THE EQUIPMENT) OCCASIONED BY OR ARISING OUT OF THE OPERATION, USE, INSTALLATION, REPAIR OR REPLACEMENT OF THE EQUIPMENT. SELLER SHALL NOT BE LIABLE FOR ANY PENALTY OR LIQUIDATED DAMAGES BASED UPON OR RELATING TO FAILURE OR INABILITY TO SHIP WITHIN A SPECIFIED TIME.

15. COMPLETE AGREEMENT. The complete agreement between SOUTHERN SALES COMPANY and the Purchaser is contained herein and is not subject to modifications except in a writing signed by an authorized officer of each party.

PURCHASER'S NAME: _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE _____ TITLE _____ DATE _____

PURCHASER'S TAXPAYER IDENTIFICATION NUMBER: _____

PURCHASER IS A: CORPORATION _____ PARTNERSHIP _____ PROPRIETORSHIP _____

ACCEPTED BY SOUTHERN SALES COMPANY _____ ON (DATE): _____

SIGNATURE OF SOUTHERN SALES COMPANY REPRESENTATIVE: _____



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

April 26, 2022

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp., Franklin, TN
Proposal #97

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is to re-wire the existing valve that is being rebuilt for Pump #2 at the Reclaimed Water Pump Station. This proposal is for new wire, flex, and terminations. If the conduit is not re-usable, then replacing the conduit will be an additional cost.

Material	\$	185.36
Labor		329.61
Overhead & Profit		77.25
Subtotal	\$	592.22
Bond		3.02
Total	\$	595.24

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-6188 or nyoung@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Nicholas A. Young
Project Manager

NAY/kab

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Brian Harlow, Project Controls Specialist, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
 (508) 429-8830 FAX (508) 429-9251

CCN#: P-0097, RWPS CLA/VAL Repair for Pump 5
Date: 4/25/2022
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is to re-wire the existing valve that is being rebuilt for Pump 2 at the Reclaimed Water Pump Station. This proposal is for new wire, flex and terminations. If the conduit is not re-usable, then replacing the conduit will be an additional cost.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	0.100
Cleanup	0.00	0.0000	HRS	0.000	0.000	0.100
Tools	0.00	0.0000	HRS	0.000	0.000	0.120
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	0.100
Supervision	0.00	0.0000	HRS	0.000	0.000	0.190
Project Controls	0.00	0.0000	HRS	0.000	0.000	0.190
HEAT SHRINK LABELS	10.00	0.3300	EA	3.300	0.060	0.600
3/4" LIQUID TIGHT CONDUIT UL	6.00	3.0800	FT	18.480	0.050	0.300
3/4" LIQUID TIGHT STEEL STRAIGHT I.T. INSULATED CONN	4.00	6.3025	EA	25.210	0.180	0.720
#14 XHHW COPPER WIRE	300.00	0.3651	FT	109.530	0.006	1.800
#12 XHHW COPPER WIRE	60.00	0.4807	FT	28.840	0.007	0.420
Totals				185.36		4.64
Tax				0.00		
Materials with Tax				185.36		

Summary

Itemized Breakdown Total			185.36
Elect. Journeyman	(4.6400 hrs @ \$71.04 / hr)	329.63	
			329.63
Overhead & Profit	(\$514.97 @ 15.00%)	77.25	
		77.25	
Bond	(\$592.22 @ 0.51%)	3.02	
		3.02	
			80.27
Total			\$595.24



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 10, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00219.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Revised Change Proposal for RFI 254 – SPB Concrete Floor Coatings Room C-100

Dear Mr. Harris,

I have attached Kiewit's change proposal for **RFI 254 - SPB Concrete Floor Coatings**. This proposal includes changing the concrete coatings from concrete sealant to an epoxy coating for room C-100 in accordance with the response to RFI 254 in the amount of **Four Thousand Six Hundred Fifty-One Dollars (\$4,651.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



RFI #254 Epoxy Floor Coating in SPB Room C-100 (2nd REVISION)

PREPARED BY: Steve Davis

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Epoxy Floor Coating in SPB Room C-100															
Surface preparation and coating of floors in SPB Room C-100	1.00	LS									5,090.00	5,090.00			5,090.00
Credit for surface preparation and concrete sealant Room C-100 Odor Control Chemical Metering Area	(475.00)	SF									1.39	(660.25)			(660.25)
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.															
OTHER															
STS - small tools, consumables, safety equip, (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)															
		MHR												5.00	
TAX: (9.75% of Material, Equipment, Other)															
SUBTOTALS															4,429.75
MARKUP %						15%		15%		15%		5%		15%	221.49
SUBTOTALS WITH MARKUPS APPLIED															
BOND															4,651.24
TOTAL															
															4,651.00

Commercial Painting, Inc.

350 Herron Drive, Nashville, TN. 37210
Tel.: 615.242.8212 / www.cpinash.com

Franklin WRF Revised 5-10-2022
Cost Breakdown for Floors

Item 23: SPB

- 09902: Epoxy Floor Coating \$5,090.00
 - Revised epoxy C-100 ONLY
 - Tnemec 218, 61, 61, 61

*P & P Bond not included. Add 1.25%

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: March 28, 2022

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 66.1 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: Plant Water Booster Pumps **CITY PROJECT NO.:** 2017-0264

REFERENCE: Specification Section 13305

DESCRIPTION:

CCA 66 is modified with the *italicized* text below.

Modify Paragraph 13305-3.03-N.4 to read as follows:

5. Automatic Controls. With all local and VFD controls in Auto or Remote:
 - a. The Operator selects a duty and standby pump. Operator shall be able to set automatic alternation of pumps to occur at a selected time in a 24-hour day. *Upon alternation, SCADA will automatically close the isolation valve associated with the duty pump, then shut off the duty pump. The pump shuts off approximately 30 seconds (+/- 15 seconds, Operator adjustable) after the valve is called to close. Once the isolation valve associated with the duty pump is confirmed closed, SCADA shall automatically start the standby pump and then open its associated discharge valve.*
 - b. Speed of the pump is controlled by a pressure setpoint of 95 psi.
 - c. When the pressure drops below the setpoint of 95 psi (Operator adjustable, PIT-6515), the SCADA automatically starts the duty pump and then opens its associated discharge valves. The valves are called to open approximately 30 seconds (+/- 15 seconds, Operator adjustable) after the pump is called to start. If the valve fails to open within a preset time after being commanded, a Valve Fault alarm shall occur and that pump will be taken out of service. Once the isolation valve associated with the duty pump is confirmed closed, SCADA shall automatically start the standby pump and then open its associated discharge valve.
 - d. If the pressure downstream (PIT-6515) rises above a preset point (approximately 105 psi, Operator adjustable), or if the speed of the pump drops below a certain preset speed (50% speed, Operator adjustable), the SCADA automatically closes its associated discharge valve then shuts off the duty pump. The pump shuts off

approximately 30 seconds (+/- 15 seconds, Operator adjustable) after the valve is called to close. If the valve fails to close within a preset time after being commanded, a Valve Fault alarm shall occur and that pump will be taken out of service. The standby pump shall then be ~~activated~~ *reassigned* as the duty pump. *Once the isolation valve associated with the duty pump is confirmed closed, the current standby pump shall be reassigned as the new duty pump, and SCADA shall automatically start the new duty pump and then open its associated discharge valve.*

- e. Low suction pressure (PIT-6500) generates an alarm.
- f. Low discharge pressure of approximately 75 psi (Operator adjustable, PIT-6515) generates an alarm. If the low discharge pressure condition persists, then the Operator can elect to switch to the polymer dilution water supply via manual valves at the Polymer System Water Panel. The Operator may also elect to shut down other processes (dewatering, etc.) that depend on plant water for flushing and other uses.

CDM SMITH:

By: _____

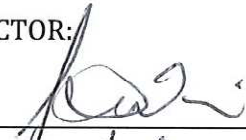
Date: _____


8/10/22

CONTRACTOR:

By: _____

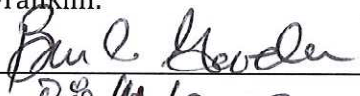
Date: _____


8/10/22

City of Franklin:

By: _____

Date: _____


08/10/2022



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 30, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CCA-KIEWIT-00100.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for CCA 66.1 Plant Water Booster Pump Controls

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for modifications to the control strategy for the Plant Water Booster Pumps in accordance with **CCA 066.1 – Plant Water Booster Pump Controls** in the amount of **Two Thousand Three Hundred Thirty-One Dollars (\$2,331.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: March 28, 2022

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 66.1 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: Plant Water Booster Pumps **CITY PROJECT NO.:** 2017-0264

REFERENCE: Specification Section 13305

DESCRIPTION:

CCA 66 is modified with the *italicized* text below.

Modify Paragraph 13305-3.03-N.4 to read as follows:

5. Automatic Controls. With all local and VFD controls in Auto or Remote:
 - a. The Operator selects a duty and standby pump. Operator shall be able to set automatic alternation of pumps to occur at a selected time in a 24-hour day. *Upon alternation, SCADA will automatically close the isolation valve associated with the duty pump, then shut off the duty pump. The pump shuts off approximately 30 seconds (+/- 15 seconds, Operator adjustable) after the valve is called to close. Once the isolation valve associated with the duty pump is confirmed closed, SCADA shall automatically start the standby pump and then open its associated discharge valve.*
 - b. Speed of the pump is controlled by a pressure setpoint of 95 psi.
 - c. When the pressure drops below the setpoint of 95 psi (Operator adjustable, PIT-6515), the SCADA automatically starts the duty pump and then opens its associated discharge valves. The valves are called to open approximately 30 seconds (+/- 15 seconds, Operator adjustable) after the pump is called to start. If the valve fails to open within a preset time after being commanded, a Valve Fault alarm shall occur and that pump will be taken out of service. Once the isolation valve associated with the duty pump is confirmed closed, SCADA shall automatically start the standby pump and then open its associated discharge valve.
 - d. If the pressure downstream (PIT-6515) rises above a preset point (approximately 105 psi, Operator adjustable), or if the speed of the pump drops below a certain preset speed (50% speed, Operator adjustable), the SCADA automatically closes its associated discharge valve then shuts off the duty pump. The pump shuts off

approximately 30 seconds (+/- 15 seconds, Operator adjustable) after the valve is called to close. If the valve fails to close within a preset time after being commanded, a Valve Fault alarm shall occur and that pump will be taken out of service. The standby pump shall then be ~~activated~~ *reassigned* as the duty pump. *Once the isolation valve associated with the duty pump is confirmed closed, the current standby pump shall be reassigned as the new duty pump, and SCADA shall automatically start the new duty pump and then open its associated discharge valve.*

- e. Low suction pressure (PIT-6500) generates an alarm.
- f. Low discharge pressure of approximately 75 psi (Operator adjustable, PIT-6515) generates an alarm. If the low discharge pressure condition persists, then the Operator can elect to switch to the polymer dilution water supply via manual valves at the Polymer System Water Panel. The Operator may also elect to shut down other processes (dewatering, etc.) that depend on plant water for flushing and other uses.

CDM SMITH:

CONTRACTOR:

By: _____

By: _____

Date: _____

Date: _____

City of Franklin:

By: _____

Date: _____



CONTROL INSTRUMENTS, INC.

NATIONWIDE SYSTEM INTEGRATION

Providing solutions since 1962



5253 OAKDALE ROAD • SMYRNA, GEORGIA 30082
MAILING ADDRESS: 4480H SOUTH COBB DRIVE • PMB 301 • SMYRNA, GA 30080-6984
PHONE: 404/351-1085 • FAX: 404/794-5784 • EMAIL: admin@c2iinc.com

FLORIDA OPERATIONS OFFICE:

23 S. DILLINGHAM AVENUE, STE. A
KISSIMMEE, FL 34741
PHONE: 404/351-1085

FIELD OFFICES: Georgia
Florida
Tennessee

29 March, 2022

Kiewit Infrastructure South Co.
4405 International Blvd, NW
Suite C-101
Norcross, GA 30093
Attn: Steve Davis

PROJECT: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT
OWNER: CITY OF FRANKLIN, TN
ENGINEER: CDM SMITH, INC.
CONTRACT: 103925-SC-004
KIEWIT JOB NO.: 103925
C2i JOB NO: 09181015

Reference: CCA #66.1 Plant Booster Pump

Dear Steve:

In response to the above-referenced construction change order, we propose one (1) day of engineering/programming, or a cost of \$1,875.00, to include onsite and travel expenses.

If you have any questions, please let us know.

Sincerely,

Mark G. Healey
CONTROL INSTRUMENTS, INC./C2i
MGH/jw

cc: Jonathon Johnson / Sue Adams – C2i

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2022 Breakdown of Craft Wage Burden Rates

Wage Type	Burden %	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 44.00	\$ 66.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 24.00	\$ 36.00
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 3.50	\$ 5.25	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.39	\$ 3.58	\$ 1.91	\$ 2.87
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 2.61	\$ 3.92	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.78	\$ 2.67	\$ 1.43	\$ 2.14
Additional Wages		\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence		\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 65.25	\$ 90.30	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 44.81	\$ 61.90	\$ 37.98	\$ 51.64

Wage Type	Burden %	Pipefitter (Foreman)		Pipefitter/Welder		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 4.38	\$ 5.91	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.28	\$ 2.23	\$ 3.34	\$ 3.16	\$ 4.28	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.23
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 3.27	\$ 4.41	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.19	\$ 1.66	\$ 2.49	\$ 2.36	\$ 3.19	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.15
Additional Wages		\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 11.71	\$ 11.71	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence		\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 73.25	\$ 95.21	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.82	\$ 42.53	\$ 58.48	\$ 55.87	\$ 71.82	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.12

Wage Type	Burden %	Survey		Electrician	
		Straight	OT	Straight	OT
Labor - Base Wages		\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 2.63	\$ 3.94	\$ 3.06	\$ 4.10
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 1.96	\$ 2.94	\$ 2.29	\$ 3.06
Additional Wages		\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence		\$ 13.92	\$ 13.92	\$ 8.35	\$ 8.35
Total		\$ 53.80	\$ 72.59	\$ 54.48	\$ 69.25

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: February 17, 2022

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA 70
NUMBER:

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: Concrete Paving

CITY PROJECT NO.: 2017-0264

REFERENCE: C-28

DESCRIPTION: Furnish and install concrete paving as detailed on the attached.

CDM SMITH:

By: 
Date: 8/10/22

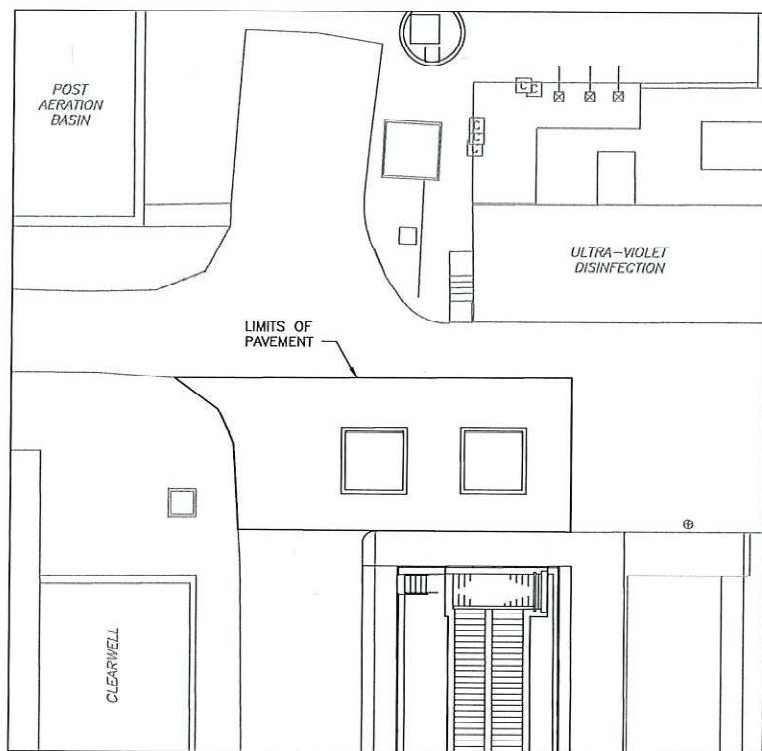
CONTRACTOR:

By: [Signature]
Date: 8/10/22

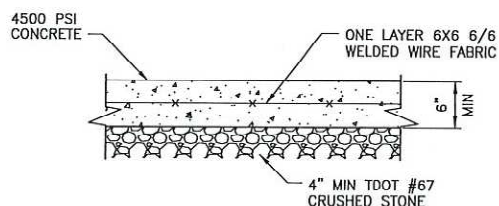
City of Franklin:

By: Bruce L. Groden
Date: 08/11/2022

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PLAN
NTS



DETAIL

1'-0" = 1'-0"



NOTES:

1. ALL EXPANSION, CONSTRUCTION, SAWED LONGITUDINAL DUMMY, OR TRANSVERSE JOINTS FOR CONCRETE ROADWORK NOT NOTED IN PLANS. A JOINT SPACING PLAN FOR ALL CONCRETE ROADWORK (NEW OR REPLACEMENT) SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO POURING CONCRETE. PLAN SHALL PROVIDE PROPOSED LOCATIONS OF EXPANSION, CONSTRUCTION, SAWED LONGITUDINAL DUMMY, AND TRANSVERSE JOINTS.
2. CONTRACTION JOINT SPACING :
 - a. 6" CONCRETE: STD 15 FT OC / MAX 18' OC
3. LOCATE EXPANSION OR CONSTRUCTION JOINT AT THE FOLLOWING LOCATIONS: BETWEEN PAVEMENTS OF DIFFERING CROSS-SECTION
 - a. ALONG LINEAR NON-ROADWAY PAVEMENT WITH MAX SPACING OF 3X MAX CONTRACTION JOINT SPACING
 - b. AT 200 LF MAXIMUM ALONG CONTINUOUS ROADWAY WITH NO INTERSECTIONS
4. ISOLATION JOINTS (1/2" PREMOLDED JOINT FILLER W/ 1/2" SILICONE SEALANT) SHALL BE PLACED BETWEEN PAVEMENT AND:
 - a. BUILDINGS
 - b. STRUCTURES
 - c. ISOLATION PADS FOR MANHOLES, VALVES, INLETS, AND HYDRANTS

**CDM
Smith**

DATE FEB 2022

SHEET NO.

LOCATION

ADDENDUM
NO.

FIGURE
NO.

SK-4



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

April 25, 2022

To: Mr. Dan Harris

CCA-KIEWIT-00101.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RE. CCA 070 – Concrete Paving at New UV Facility

Dear Mr. Harris,

Attached you will find Kiewit's cost proposal for **CCA 070 – Concrete Paving at New UV Facility in the amount of Fifteen Thousand Thirty Nine Dollars (\$15,039.00).**

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,



Steve Davis
Project Manager

cc: File
Michelle Hatcher

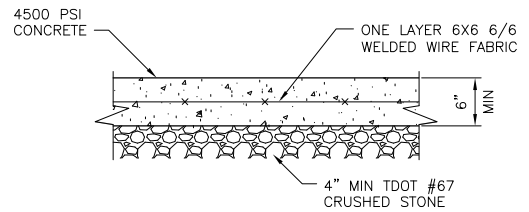
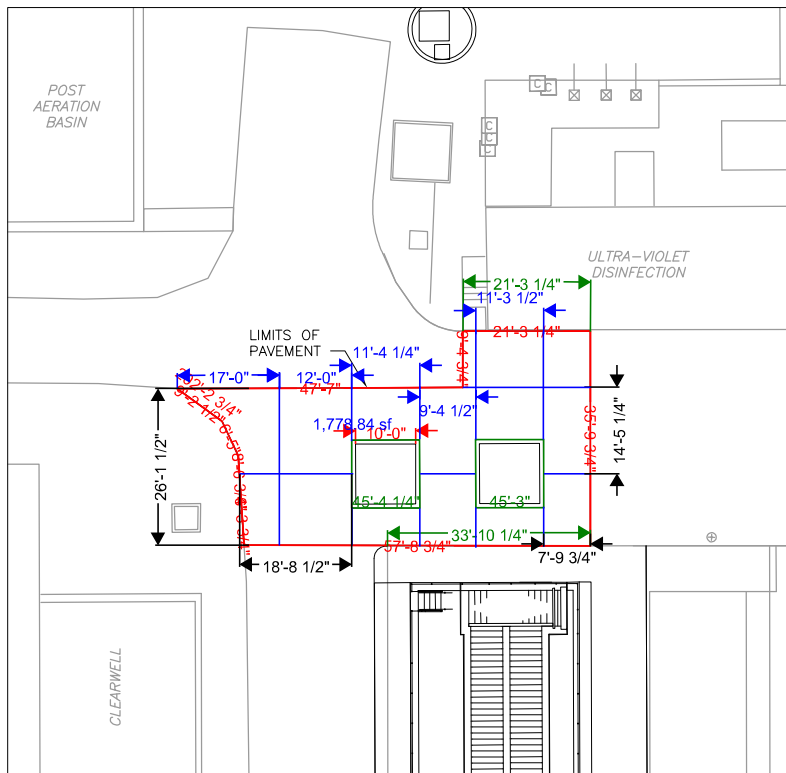


CCA No., 070 Concrete Paving Adjacent to UV Influent/Effluent Boxes

PREPARED BY: Kian Lawlor

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Concrete Paving																	
Asphalt Paving (Deduct)	(198.00)													\$15.00	(\$2,970.00)		(\$2,970.00)
E/S Forms																	
Foreman	101.00	SF	0.32	32.3													
Foreman	1.00	EA	8.08	8.1	\$65.25	\$526.89											\$526.89
Carpenter	2.00	EA	8.08	16.2	\$55.87	\$902.86											\$902.86
Laborer	1.00	EA	8.08	8.1	\$37.97	\$306.80											\$306.80
Lumber5 (2x6s)	1.00	LS							\$266.89	\$266.89							\$266.89
Set Expansion Board around Structures/Sidewalk																	
Foreman	77.50	SF	0.23	17.8													
Foreman	1.00	EA	4.45	4.5	\$65.25	\$290.36											\$290.36
Carpenter	2.00	EA	4.45	8.9	\$55.87	\$497.24											\$497.24
Laborer	1.00	EA	4.45	4.5	\$37.97	\$168.97											\$168.97
Snap Caps	1.00	LS							\$58.50	\$58.50							\$58.50
Expansion Board	1.00	LS							\$185.05	\$185.05							\$185.05
Caulk Concrete Joint	1.00	LS											\$725.00	\$725.00			\$725.00
Place Wire Mesh																	
Foreman	1,779.00	SF	0.02	35.6													
Foreman	1.00	EA	8.90	8.9	\$65.25	\$580.73											\$580.73
Carpenter	2.00	EA	8.90	17.8	\$55.87	\$994.49											\$994.49
Laborer	1.00	EA	8.90	8.9	\$37.97	\$337.93											\$337.93
Wire Mesh	1.00	LS							\$815.94	\$815.94							\$815.94
Place Finish Cure																	
Foreman	32.94	CY	1.08	35.6													
Foreman	1.00	EA	5.93	5.9	\$65.25	\$387.15											\$387.15
Carpenter	2.00	EA	5.93	11.9	\$55.87	\$662.99											\$662.99
Laborer	3.00	EA	5.93	17.8	\$37.97	\$675.87											\$675.87
4500 PSI Concrete	32.94	CY							\$145.50	\$4,792.77							\$4,792.77
*Concrete Environmentl Fee (4 Loads)	4.00	EA							\$12.00	\$48.00							\$48.00
Material Handling/Offloading																	
	2.00	HR	1.00	2.0	\$48.02	\$96.04						\$60.00	\$120.00				\$216.04
Sawed Contraction Joints (1/4in w X 1 1/2in d)	161.00	LF												\$1,900.00	\$1,900.00		\$1,900.00
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
OTHER																	
STS - small tools, consumables, safety equip. (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)	121	MHR														\$5.00	\$606.53
TAX: (9.75% of Material, Equipment, Other)																	
SUBTOTALS					121	\$ 6,428.31	\$ -	\$ 6,167.15	\$ 131.70	\$ (345.00)	\$ 665.66	\$13,047.82	\$59.14	\$ 70.84			
MARKUP %						15.00%	15.00%	15.00%	15.00%	5.00%	15.00%	\$ 1,991.67					
SUBTOTALS WITH MARKUPS APPLIED						\$7,392.56		\$7,092.22	\$151.46	-\$362.25	\$765.51	\$15,039.50					
BOND																	
TOTAL																	
\$15,039.00																	

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DETAIL

1'-0" = 1'-0"



NOTES:

- ALL EXPANSION, CONSTRUCTION, SAWED LONGITUDINAL DUMMY, OR TRANSVERSE JOINTS FOR CONCRETE ROADWORK NOT NOTED IN PLANS. A JOINT SPACING PLAN FOR ALL CONCRETE ROADWORK (NEW OR REPLACEMENT) SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO POURING CONCRETE. PLAN SHALL PROVIDE PROPOSED LOCATIONS OF EXPANSION, CONSTRUCTION, SAWED LONGITUDINAL DUMMY, AND TRANSVERSE JOINTS.
- CONTRACTION JOINT SPACING :
 - 6" CONCRETE: STD 15 FT OC / MAX 18' OC
- LOCATE EXPANSION OR CONSTRUCTION JOINT AT THE FOLLOWING LOCATIONS: BETWEEN PAVEMENTS OF DIFFERING CROSS-SECTION
 - ALONG LINEAR NON-ROADWAY PAVEMENT WITH MAX SPACING OF 3X MAX CONTRACTION JOINT SPACING
 - AT 200 LF MAXIMUM ALONG CONTINUOUS ROADWAY WITH NO INTERSECTIONS
- ISOLATION JOINTS (1/2" PREMOLDED JOINT FILLER W/ 1/2" SILICONE SEALANT) SHALL BE PLACED BETWEEN PAVEMENT AND:
 - BUILDINGS
 - STRUCTURES
 - ISOLATION PADS FOR MANHOLES, VALVES, INLETS, AND HYDRANTS

**CDM
Smith**

DATE FEB 2022

SHEET NO. —

LOCATION —

ADDENDUM NO. —

FIGURE NO. SK-4

ATTACHMENT A
SCOPE OF WORK

Job Number: 103925
Subcontract No. 103925-SC-001

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Subcontractor: Sessions Paving Co.
Subcontract No.: 103925-SC-001
Contract ID Number: SXXXXX-XXX
Subcontract Date: November 21, 2018

Schedule of Values

Mill and Overlay	12,565.00	sy	\$	15.00	\$	188,475.00
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1.0 General Description of the "Work": *Furnish all labor, materials, equipment and incidentals required to complete site paving at the City of Franklin WRF Modifications & Expansion Project in accordance with the Contract Documents and as specified herein.*

- .1 FURNISH and INSTALL SECTIONS: [02500 - Pavement complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00, Division 1 General Requirements and 02200 - Earthwork, 02221 – Trenching, Backfilling and Compaction

2.0 Including But Not Limited to:

- .1 The unit prices are firm for the duration of the Project including escalation.
- .2 BOND(s): Payment and Performance Bonds are NOT required for this Subcontract.
- .3 Subcontractor will provide 0% of the Subcontractor's total contract dollar value in DBE participation.
- .4 All applicable taxes are included in Subcontractor's pricing.
- .5 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-5 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
- .6 Regular working hours are defined as Monday through Friday, excluding holidays, between the hours of 7:00 AM and 6:00 PM, for a maximum of 55 hours per work week. Requests by Subcontractor to work other than regular working hours shall be submitted to Contractor not less than 48 hours prior to any proposed weekend work or scheduled extended work weeks. Requests for occasional unscheduled overtime on weekdays shall be submitted to the Contractor for review and approval with not less than 72 hours' notice. Working hours shall comply with the Davis-Bacon Act. There shall be no additional charge to Contractor for Subcontractor requested overtime.

Attachment A Scope of Work

Schedule of Values

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	E2 - 4,500 psi (after March 1st, 2020) subject to 3% discount as stated in Item 2.8 below	3,250	CY	\$ 127.50	\$ 414,375.00
	Total Contract Price (without tax)				\$ 414,375.00

1.0 General Description of the "Work": Seller shall provide all supervision, labor, material, tools and equipment to furnish and deliver all cast-in-place concrete material in accordance with the Contract Documents, and the following,

- .1 **FURNISH SECTIONS:** Specification Section 03300 – Cast-In-Place Concrete and Section 03600 – Grout.

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00, Division 1 General Requirements and other any applicable sections.

- .2 Quantities are approximate and may increase or decrease at Contractor's option. Seller shall be paid for actual quantities received and installed. Seller shall furnish all required certifications and submittals as defined in the specifications at no additional cost to Contractor.
- .3 Contractor shall not pay for material delivered on site that does not meet requirements stated in Specification Section 03300 – Cast-In-Place Concrete and Section 03600 – Grout.

2.0 Including But Not Limited to:

- .1 The unit prices in the Schedule of Values are firm through February 28, 2021, and shall increase \$9.00 per cubic yard annually thereafter. Quantities may increase or decrease at Contractor's option. Seller shall be paid only for actual quantities received and verified by Contractor.
- .2 **BOND(s):** Not Required
- .3 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
- .4 Material is not exempt from sales or use taxes.
- .5 Seller shall attend and participate in Contractor's daily and/or weekly scheduling and coordination meetings as determined by the Contractor.
- .6 Seller shall submit a quality plan to Contractor prior to start of Work.
- .7 Seller shall provide all required material certifications or tests prior to or upon delivery of materials to site.
- .8 Contractor shall receive a ~~2%~~ ^{\$3.00} discount on all proper invoices paid within 10 days after Contractor's receipt.

3.0 Exclusions:

- .1 None.

4.0 Schedule of Work:

- .1 Seller shall attend schedule meetings prior to major pours.
- .2 Seller shall provide material to meet the project schedule and production demands. Seller shall provide multiple crews for material to be delivered timely to different areas of the Project, at no additional cost to Contractor.

- .3 Seller shall arrive onsite at the time scheduled and agreed upon by Contractor and Seller. If Seller arrives more than 60 minutes after its scheduled arrival time, Contractor may charge Seller its actual documented cost per hour for downtime of its crews until Seller arrives.

5.0 Unit Prices, Options and Allowances: The following items shall be provided by Seller as necessary, and will require a written fully executed change order.

Chilled Water per yard	\$3.00
E2 - With 1.5 LB Fibers - 4,500 psi, per cy (before March 1, 2021)	\$133.50
E3 - 4,500 psi, per cy (before March 1, 2021)	\$131.50
E3 - With 1.5 LB Fibers - 4,500 psi, per cy (before March 1, 2021)	\$137.50
Holidays and Sundays	TBD
Environmental Fee, per load	\$12.00
Excess unloading over 60 minutes charged per hour	\$90.00
High Range Water Reducer, add/cy	\$7.50
Ice, per lb	\$0.40
Late Delivery, After 5:00 PM, per load	\$75.00
Mid-Range Water Reducer, add/cy	\$5.00
Non-Chloride Accelerator, per dose	\$5.50
Reinforcing Fiber, add/cy	\$7.00
Retarding Admixture, per dose	\$3.50
Saturday Delivery, per load	\$50.00
Small Load Charge 2 yards or less	\$200.00
Small Load Charge 2.25 - 3.75 yards	\$100.00
Winter Service (Dec 1 - Feb 28), add /CY (Includes hot water)	\$4.00

6.0 Deliverables: In addition to any other provisions of this Contract, it is required that Seller make timely submission of the following to Contractor:

- .1 Furnish shop drawings and submittals for approval within 28 days of the Effective Date of Contract in strict accordance with specification section 01300. Submittals shall be submitted timely to allow thirty (30) calendar days for Contractor and Owner review and not delay prosecution of the Work. Material shall not be ordered or shipped until the shop drawings have been approved. No material shall be ordered or shop work started if shop drawings are marked "APPROVED AS NOTED - CONFIRM", "APPROVED AS NOTED - RESUBMIT" or "NOT APPROVED".

Kian.Lawlor

From: David Kerr <DKerr@nswaterproofing.com>
Sent: Friday, April 1, 2022 12:57 PM
To: Kian.Lawlor
Cc: Jared.Carr
Subject: [EXTERNAL] RE: Franklin WRF - Additional Joint Sealant

Hey Kian,

Just a little increase. Please use \$725.00 for the caulking based on 155'

Thanks!

David V. Kerr

N&S Waterproofing

4061 Powell Avenue
Nashville, TN 37204
615-298-1402 (Office)
615-298-1403 (Fax)
615-818-1978 (Mobile)

From: Kian.Lawlor <Kian.Lawlor@kiewit.com>
Sent: Friday, April 1, 2022 11:39 AM
To: David Kerr <DKerr@nswaterproofing.com>
Cc: Jared.Carr <Jared.Carr@kiewit.com>
Subject: RE: Franklin WRF - Additional Joint Sealant

David,

We're looking at 155LF of concrete joint caulking now. How does this effect the pricing? Work is scheduled to be complete in May.

Thank you,
Kian



Kian Lawlor
Field Engineer

Kiewit Infrastructure Co.
135 Claude Yates Drive
Franklin, TN 37067
C: 208-589-5962
kian.lawlor@kiewit.com

Please consider the environment before printing this e-mail.

From: David Kerr <DKerr@nswaterproofing.com>
Sent: Tuesday, March 22, 2022 2:43 PM
To: Kian.Lawlor <Kian.Lawlor@kiewit.com>
Cc: Jared.Carr <Jared.Carr@kiewit.com>
Subject: [EXTERNAL] RE: Franklin WRF - Additional Joint Sealant

Kian.Lawlor

From: Justin Day <jday@penhall.com>
Sent: Tuesday, April 5, 2022 11:08 AM
To: Kian.Lawlor
Subject: [EXTERNAL] RE: Franklin WRF Concrete Conduction Joint Cutting

Going off of this picture my rough estimate would be in the \$1800-\$2000 range.

Justin Day
Sales Representative



404.295.4217

jday@penhall.com

www.penhall.com

644 Mainstream Drive, Nashville, TN, 37228

We're Hiring at careers.penhall.com



From: Kian.Lawlor <Kian.Lawlor@kiewit.com>
Sent: Monday, April 4, 2022 10:35 AM
To: Justin Day <jday@penhall.com>
Subject: RE: Franklin WRF Concrete Conduction Joint Cutting

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Justin,

I am still playing with the layout and added an extra cut to make it look better.

The total QTY is now 161LF. Yes, the work is to be performed outside. I am getting 13 cuts of varying length (seen in blue). The concrete structures in the middle of the new pavement are what is driving the layout. I have the horizontal cuts OC with the middle of the boxes, and the vertical cuts up to the corners of the structure where we have expansion board.

Let me know if you need any additional information,
Kian



Nashville
840 Fesslers Parkway
Nashville TN 37210
Tel : (615)256-9890
Fax: (615)256-9948

Page 1 of 1
04/13/2022 12:19

Quotation

Bill-To-Party : 119957 KIEWIT CORPORATION 1000 KIEWIT PLAZA OMAHA NE 68131		Information Quotation Number 21042549 Quotation Created Date 04/13/2022 Customer Number 119957			
Ship-To-Party : 5330737 KIEWIT WWTP 135 CLAUDE YATES DRIVE FRANKLIN TN 37064		Inside Salesman Ryan Whitefield Outside Salesman Dave Brown QUOTE VALID FOR 5 DAY/S Expires 04/18/2022			
Notes from the Customer:					
Item	Material	Quantity	Price Per	Unit	Amount
10	MET-6 6 6/6 SHEET 8' X 20' 6 6 6/6 WIRE MAT	12 EA	98.55 \$	1 EA	1,182.60
20	WRM-SNAP CAP SNAP CAP 1/2IN X 10FT	160 FT	0.45 \$	1 FT	72.00
30	RUS-1/2 X 36 1/2 X 36 X 10' EXPANSION JOINT	6 EA	37.01 \$	1 EA	222.06
40	LUM-2 X 6 X 12 #2 2" X 6" X 12' PINE LUMBER	13 EA	20.53 \$	1 EA	266.89
Items total:					1,743.55
Sales Coupon:					0.00
Total Amount:					\$ 1,743.55

Signature _____ Date _____

Rental Rate Blue Book®

June 3, 2020

Xtreme XRM1245 (disc. 2008)

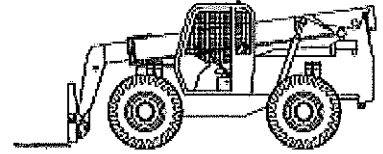
Telescoping Boom Rough Terrain Lift Trucks

Size Class:

5.0 MTons & Over

Weight:

32930 lbs



Configuration for XRM1245 (disc. 2008)

Base Capacity	12000.0 lbs	Horsepower	122.0
Maximum Lift Height	536.0 in	Maximum Reach	364.0 in
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$7,075.00	USD \$1,980.00	USD \$495.00	USD \$74.00	USD \$40.28	USD \$80.48
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2008: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$7,075.00	USD \$1,980.00	USD \$495.00	USD \$74.00	USD \$40.28	USD \$80.48

USE \$60/HR

Do not have XTREME - Hourly

1055 on Equipment Watch

USD \$16.88

USD \$50.69

Non-Active Use Rates

Standby Rate

Idling Rate

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	29%	USD \$2,051.75/mo
Overhaul (ownership)	57%	USD \$4,032.75/mo
CFC (ownership)	6%	USD \$424.50/mo
Indirect (ownership)	7%	USD \$495.25/mo
Fuel (operating) @ USD 3.07	26%	USD \$10.49/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)



Parkview Towers
210 25th Avenue North, Suite 1102
Nashville, Tennessee 37203
tel: 615-771-2466
fax: 615-778-9733

March 1, 2022

Mr. Steve Davis
Kiewit Infrastructure South Co.
4405 International Blvd NW, Suite C-101
Norcross, GA 30093

Subject: Franklin WRF Expansion Project
Request for Proposal (RFP) No. 17

Dear Mr. Davis;

Please provide a credit proposal to reconfigure the site perimeter fencing as shown on the attached markup of Sh. C-2. Feel free to contact me with any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'D. Harris', with a stylized flourish at the end.

Daniel A. Harris, PMP, CCM, LEED GA
Senior Project Manager
CDM Smith

cc: Michelle Hatcher, City of Franklin
Brian Goodwin, City of Franklin
File 231666.05.02.10







Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

June 15, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

RFP-CDM-00011.01

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for RFP No. 17 – Site Perimeter Fencing

Dear Mr. Harris

Attached you will find Kiewit's change proposal for RFP No. 17 – Site Perimeter Fencing which deducts approximately 1,836 LF of fencing and adds a 24ft double swing gate which results in a credit in the amount of Forty-Four Thousand Three Hundred Twenty-One Dollars (\$44,321.00).

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager



RFP No. 017 Site Perimeter Fencing

PREPARED BY: Steve Davis

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Deduct approximately 1,836 LF of perimeter fencing and add 24ft double swing gate	(1,00)	LS									\$22,210.76	(\$22,210.76)			(\$22,210.76)
Credit for 1,836 LF of fence material previously purchased for project	(1,00)	LS									\$20,000.00	(\$20,000.00)			(\$20,000.00)
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.															
OTHER															
STS - small tools, consumables, safety equip. (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)		MHR											\$5.00		
TAX: (9.75% of Material, Equipment, Other)															\$
SUBTOTALS												(\$42,210.76)			(\$42,210.76)
MARKUP %						15.00%						15.00%			(\$42,110.54)
SUBTOTALS WITH MARKUPS APPLIED												(\$44,321.30)			(\$44,321.30)
BOND															
TOTAL															(\$44,321.00)



MEMPHIS FENCE COMPANY

1380 NORTH WILLETT ST. – MEMPHIS, TN 38108
PHONE: (901) 278-9710 FAX: (901) 278-9995

Attn: Steve Davis

June 15, 2022

RE: Franklin WRF
RFP No. 17

Memphis Fence Company proposes to furnish all labor, material and supervision necessary to complete the following scope of work:

- 1.) 1,836 LF Deduct site perimeter fence
- 2.) 1 Each 24ft double swing gate to match fence style and specs
Price:.....\$(22,210.76)
- 3.) 1 Each Credit for 1,836LF of fence material previously purchased for project.
Price:.....\$(20,000.00)

NOTES:

- Memphis Fence will not dig or drive post within 24in of located public utilities.
- Memphis Fence will not locate any private utilities or be responsible to any damage to unmarked private utilities.
- Should any core drilling be required there will be an additional cost of \$75 per hole and \$400 mobilization. *Concrete Memphis Fence Company pours will not match existing concrete.*

EXCLUSIONS: CLEARING, GRUBBING, MOWING, FENCE STAIN, ANY GRADING, DIRT WORK, GROUNDING, ANY ELECTRICAL WORK, CONDUIT PATHWAYS, GATE CONTROLS, GATE AUTOMATION, BOLLARDS, TRAFFIC CONTROL PLANS, TRAFFIC CONTROLS, PERMITS FOR WORK OR ANY OTHER ITEM NOT SPECIFICALLY LISTED.

Thanks again for the opportunity to quote you. Please call if there are any questions or if I may assist you in any way.

Submitted by:

Dan Turbeville
President
dan@memphisfence.com
Cell: (901) 292-6636



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 20, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00214.01

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: HRSG Access Platform Modifications

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for providing modifications for the HRSG Access Platform west of the Digester Building due to conflicts with piping and other supports in the CHP area in the amount of **Ten Thousand Nine Hundred and Forty-Two Dollars (\$10,942.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



PCO NO.: RH 551

PREPARED BY: Drew Sabor

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
HRSG Access Platform Modifications																	
Labor Cost																	
Foreman Time - All Tasks																	
	1.00	EA	20	20	\$ 65.25	\$ 1,305.00											\$ 1,305.00
Drill New Holes for Stairs																	
	4.00	EA	1.08	4	\$ 55.87	\$ 241.36											\$ 241.36
Carpenter																	
	1.00	EA		4.3	\$ 55.87	\$ 241.36											\$ 241.36
Drill New Holes for Ladder																	
	4.00	EA	1.08	4	\$ 55.87	\$ 241.36											\$ 241.36
Carpenter																	
	1.00	EA		4.3	\$ 55.87	\$ 241.36											\$ 241.36
Drill New Holes for Handrail																	
	24.00	EA	0.65	16	\$ 55.87	\$ 867.55											\$ 867.55
Carpenter																	
	1.00	EA		15.5	\$ 55.87	\$ 867.55											\$ 867.55
SOG - Firegrade (New Concrete Slab for Stair Landing) (4'x4'x12")																	
	25.00	SF	0.02	1	\$ 18.99	\$ 18.99											\$ 18.99
Laborer																	
	1	EA		0.5	\$ 37.98	\$ 18.99											\$ 18.99
Install Expansion Board (New Concrete Slab for Stair Landing)																	
	4.00	SF	0.03	0	\$ 6.70	\$ 6.70											\$ 6.70
Carpenter																	
	1	EA		0.1	\$ 55.87	\$ 6.70											\$ 6.70
Install Rebar (New Concrete Slab for Stair Landing)																	
	0.10	Ton	24.95	2	\$ 92.92	\$ 92.92											\$ 92.92
Iron Worker																	
	2	EA		1.7	\$ 55.87	\$ 92.92											\$ 92.92
Operator - Forklift																	
	1	EA		0.5	\$ 48.02	\$ 24.01											\$ 24.01
SOG - E/S forms (New Concrete Slab for Stair Landing) (4'x4'x12")																	
	12.00	SF	0.32	4	\$ 55.87	\$ 86.89											\$ 86.89
Carpenter																	
	2	EA		1.6	\$ 37.98	\$ 59.07											\$ 59.07
Laborer																	
	1	EA		0.5	\$ 48.02	\$ 24.01											\$ 24.01
Operator - Forklift																	
	1	EA		0.5	\$ 48.02	\$ 24.01											\$ 24.01
P/F/C (New Concrete Slab for Stair Landing) (4'x4'x12")																	
	1	CY	1.08	0.8	\$ 21.12	\$ 21.12											\$ 21.12
Carpenter																	
	1	EA		0.4	\$ 55.87	\$ 21.12											\$ 21.12
Laborer																	
	1	EA		0.2	\$ 37.98	\$ 7.18											\$ 7.18
Operator - Forklift																	
	1	EA		0.5	\$ 48.02	\$ 24.01											\$ 24.01
1/2" Carbon Steel Welds																	
	8.00	EA	0.80	6.4	\$ 456.48	\$ 456.48											\$ 456.48
Welder																	
	1.00	EA		6.4	\$ 70.97	\$ 456.48											\$ 456.48
1/2" Carbon Steel Pipe																	
	4.00	LF	0.80	3	\$ 228.24	\$ 228.24											\$ 228.24
Pipefitter																	
	1.00	EA		3.2	\$ 70.97	\$ 228.24											\$ 228.24
Install Handrail (Modifications w/ New Location)																	
	12	LF	0.89	10.6	\$ 230.99	\$ 230.99											\$ 230.99
Foreman																	
	1.00	EA		3.5	\$ 65.25	\$ 230.99											\$ 230.99
Carpenter																	
	2.00	EA		7.1	\$ 55.87	\$ 395.56											\$ 395.56
Ladder Modifications (2 Cuts, 2 Welds)																	
	2.00	EA	3.00	6	\$ 70.97	\$ 425.82											\$ 425.82
Welder																	
	1.00	EA		6	\$ 70.97	\$ 425.82											\$ 425.82
Material Cost																	

PREPARED BY: Drew Selsor

\$10,942.00

Quotation

Bill-To-Party : 119957 KIEWIT CORPORATION 1000 KIEWIT PLAZA OMAHA NE 68131		Information Quotation Number 21016245 Quotation Created Date 01/31/2022 Customer Number 119957					
Ship-To-Party : 5330737 KIEWIT WWTP 135 CLAUDE YATES DRIVE FRANKLIN TN 37064		Inside Salesman Ryan Whitefield Outside Salesman Dave Brown QUOTE VALID FOR 5 DAY/S Expires 02/05/2022					
Notes from the Customer:							
Item	Material	Quantity		Price Per		Unit	Amount
10	REB-5 #5 5/8 IN X 20 FT REBAR GRADE 60	40	EA	16.26	\$	1 EA	650.40
20	EXPANSION JOINT 1/2"X4'X8' CORK EXPANSION JOINT	4	EA	103.99	\$	1 EA	415.96
Items total:							1,066.36
Sales Coupon:							0.00
Total Amount:							\$ 1,066.36

Signature _____ Date _____

Attachment A Scope of Work

Schedule of Values

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	E2 - 4,500 psi (after March 1st, 2020) subject to 3% discount as stated in Item 2.8 below	3,250	CY	\$ 127.50	\$ 414,375.00
	Total Contract Price (without tax)				\$ 414,375.00

1.0 General Description of the "Work": Seller shall provide all supervision, labor, material, tools and equipment to furnish and deliver all cast-in-place concrete material in accordance with the Contract Documents, and the following,

- .1 FURNISH SECTIONS: Specification Section 03300 – Cast-In-Place Concrete and Section 03600 – Grout.

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00, Division 1 General Requirements and other any applicable sections.

- .2 Quantities are approximate and may increase or decrease at Contractor's option. Seller shall be paid for actual quantities received and installed. Seller shall furnish all required certifications and submittals as defined in the specifications at no additional cost to Contractor.
- .3 Contractor shall not pay for material delivered on site that does not meet requirements stated in Specification Section 03300 – Cast-In-Place Concrete and Section 03600 – Grout.

2.0 Including But Not Limited to:

- .1 The unit prices in the Schedule of Values are firm through February 28, 2021, and shall increase \$9.00 per cubic yard annually thereafter. Quantities may increase or decrease at Contractor's option. Seller shall be paid only for actual quantities received and verified by Contractor.
- .2 BOND(s): Not Required
- .3 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
- .4 Material is not exempt from sales or use taxes.
- .5 Seller shall attend and participate in Contractor's daily and/or weekly scheduling and coordination meetings as determined by the Contractor.
- .6 Seller shall submit a quality plan to Contractor prior to start of Work.
- .7 Seller shall provide all required material certifications or tests prior to or upon delivery of materials to site.
- .8 Contractor shall receive a ~~3%~~ ^{\$3.00} discount on all proper invoices paid within 10 days after Contractor's receipt.

CDH

3.0 Exclusions:

- .1 None.

4.0 Schedule of Work:

- .1 Seller shall attend schedule meetings prior to major pours.
- .2 Seller shall provide material to meet the project schedule and production demands. Seller shall provide multiple crews for material to be delivered timely to different areas of the Project, at no additional cost to Contractor.

- .3 Seller shall arrive onsite at the time scheduled and agreed upon by Contractor and Seller. If Seller arrives more than 60 minutes after its scheduled arrival time, Contractor may charge Seller its actual documented cost per hour for downtime of its crews until Seller arrives.

5.0 Unit Prices, Options and Allowances: The following items shall be provided by Seller as necessary, and will require a written fully executed change order.

Chilled Water per yard	\$3.00
E2 - With 1.5 LB Fibers - 4,500 psi, per cy (before March 1, 2021)	\$133.50
E3 - 4,500 psi, per cy (before March 1, 2021)	\$131.50
E3 - With 1.5 LB Fibers - 4,500 psi, per cy (before March 1, 2021)	\$137.50
Holidays and Sundays	TBD
Environmental Fee, per load	\$12.00
Excess unloading over 60 minutes charged per hour	\$90.00
High Range Water Reducer, add/cy	\$7.50
Ice, per lb	\$0.40
Late Delivery, After 5:00 PM, per load	\$75.00
Mid-Range Water Reducer, add/cy	\$5.00
Non-Chloride Accelerator, per dose	\$5.50
Reinforcing Fiber, add/cy	\$7.00
Retarding Admixture, per dose	\$3.50
Saturday Delivery, per load	\$50.00
Small Load Charge 2 yards or less	\$200.00
Small Load Charge 2.25 - 3.75 yards	\$100.00
Winter Service (Dec 1 - Feb 28), add /CY (Includes hot water)	\$4.00

6.0 Deliverables: In addition to any other provisions of this Contract, it is required that Seller make timely submission of the following to Contractor:

- .1 Furnish shop drawings and submittals for approval within 28 days of the Effective Date of Contract in strict accordance with specification section 01300. Submittals shall be submitted timely to allow thirty (30) calendar days for Contractor and Owner review and not delay prosecution of the Work. Material shall not be ordered or shipped until the shop drawings have been approved. No material shall be ordered or shop work started if shop drawings are marked "APPROVED AS NOTED - CONFIRM", "APPROVED AS NOTED - RESUBMIT" or "NOT APPROVED".

HME, INC.

HAAS METAL ENGINEERING

2828 NW Button Road
Topeka, KS 66618
Phone: 785-235-1524



Change Order Request

Owner: Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

Project: 18.097 / FRANKLIN WRF
135 CLAUDE YATES DR.
FRANKLIN, TN 37064

COR# 53: HRSG Platform Change

\$3,720.00

Re-detailing for relocating the ships ladder to the west side of the platform and moving the ladder to where the ships ladder was located.

Modifications to Peak to Peak handrail and gates included in this updated pricing.

(2) Replacement ladder brackets are included in this updated pricing.

1: HRSG Platform Change

TOTAL, THIS CHANGE ORDER REQUEST

\$3,720.00

*This PCO impacts schedule duration, schedule impact to be mutually agreed upon between Contractor and HME prior to approval of any change order.
This PCO pricing is valid 14 calendars days from date of submittal.
This PCO excludes any items not specifically mentioned.
If this PCO is not approved prior to HME's execution of this scope of work interest shall be charged at 18% per annum until payment is made for change.
HME is not responsible or liable for any delays or damages for changes in the scope of work due to this PCO.*

Approved By: Kiewit Infrastructure South Co.

Submitted By: HME, Inc.

Signed: _____

Signed: _____

Date: _____

Date: _____

Secretary

(Affix corp. seal)

Title

(Consent must be executed by an officer of the Surety or by a duly authorized Attorney-in-Fact. If executed by the latter, a properly notarized power of attorney from the Surety showing such authority must be attached hereto.)

[Home](#) > [Pipe Fittings](#) > [Carbon Steel Fittings & Flanges](#) > [Carbon Steel Weld Fittings & Flanges](#) > [Carbon Steel Weld Elbows](#)



1/2 in. Weld Standard Long Radius Carbon Steel 90 Degree Elbow

Part #GW9D | Item #99810

\$8.64 EACH

(Pricing is for 1/2 in)

[View All Sizes](#)

Packaging Info:
Quantity Per Each: 1

How to get it:



Pick Up Not Available
0 in Marietta, GA ▼



Shipping Available

Available for immediate shipment

All Sizes

Sizes		Price	Qty	Actions
10 In Part #GW910	To see availability for this product, Create an Account. Already a customer? Login			\$300.75 /EACH
12 In Part #GW912	To see availability for this product, Create an Account. Already a customer? Login			\$441.06 /EACH
14 In Part #GW914	To see availability for this product, Create an Account. Already a customer? Login			\$339.16 /EACH



NA SALES
489 KELL FARM DRIVE
CAPE GIRARDEAU, MO 63701-9028
573-334-7786
Fax 573-334-7788

Quotation

EXPIRATION DATE	QUOTE NUMBER
04/16/2022	S202879129
NA SALES 489 KELL FARM DRIVE CAPE GIRARDEAU, MO 63701-9028 573-334-7786 Fax 573-334-7788	PAGE NO.
	1 of 1

QUOTE TO:

SHIP TO:

KIEWIT POWER CONSTR#104378
PO BOX 452500
OMAHA, NE 68145-2500

KIEWIT POWER CONSTRUCTORS #104378
FRANKLIN WRF MOD & EXP PROJ
135 CLAUDE YATES DRIVE
FRANKLIN, TN 37064-2085

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER		SALESPERSON	
64402	1000321188			NATIONAL ACCOUNTS	
GIVEN BY		SHIP VIA	TERMS	DATE	FREIGHT EXEMPT
		SEE SHIPPING INS	1% 10th Net 30th	03/17/2022	Yes
ORDER QTY	ITEM NUMBER / DESCRIPTION			UNIT PRICE	EXT PRICE
220ea	SHIPPING INSTRUCTIONS DATA SHEET TO FOLLOW AND WILL REQUIRE KIEWIT'S REVIEW/APPROVAL, TO MAKE SURE IT MEETS THEIR AIS COMPLIANT REQUIREMENT. FACTORY STOCK IN ILLINOIS, SUBJECT TO PRIOR SALE. WOULD QUALIFY FOR FREE STANDARD GROUND CO-LOAD FLATBED SHIPPING TO THE JOBSITE. PRICING IS VALID TILL 3/25/22 THANKS!			2048.000/c	4505.60
	B22SH-240SS6 BLINE1 B22SH-240SS6 1-5/8 CHNL ***** 220 FEET TOTAL *****				

Thank you for your order! Your satisfaction is our number one goal!

Please visit our website at www.capeelectric.com

Any questions call STEVE SANFORD at or e-mail @
steve.sanford@capeelectric.com

All Prices are subject to change without notice!

Taxes are not included

For terms and conditions see www.capeelectric.com

Subtotal	4505.60
S&H Charges	0.00
Amount Due	4505.60

Rental Rate Blue Book®

June 3, 2020

Xtreme XRM1245 (disc. 2008)

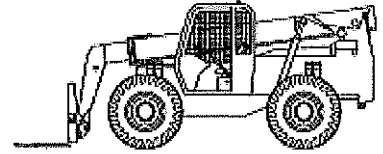
Telescoping Boom Rough Terrain Lift Trucks

Size Class:

5.0 MTons & Over

Weight:

32930 lbs


Configuration for XRM1245 (disc. 2008)

Base Capacity	12000.0 lbs	Horsepower	122.0
Maximum Lift Height	536.0 in	Maximum Reach	364.0 in
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$7,075.00	USD \$1,980.00	USD \$495.00	USD \$74.00	USD \$40.28	USD \$80.48
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2008: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$7,075.00	USD \$1,980.00	USD \$495.00	USD \$74.00	USD \$40.28	USD \$80.48

USE \$60/HR

Do not have XTREME - Hourly

1055 on Equipment Watch

USD \$16.88

USD \$50.69

Non-Active Use Rates

Standby Rate

Idling Rate

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	29%	USD \$2,051.75/mo
Overhaul (ownership)	57%	USD \$4,032.75/mo
CFC (ownership)	6%	USD \$424.50/mo
Indirect (ownership)	7%	USD \$495.25/mo
Fuel (operating) @ USD 3.07	26%	USD \$10.49/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 17, 2022

To: Mr. Dan Harris

CP-KIEWIT-00221.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFI533 – BSOC Chemical Line Additional Piping

Dear Mr. Harris,

Attached you will find Kiewit's revised proposal for **RFI533 – BSOC Chemical Line Additional Piping** in the amount of **Thirteen Thousand Eight Hundred Fourteen Dollars (\$13,814.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

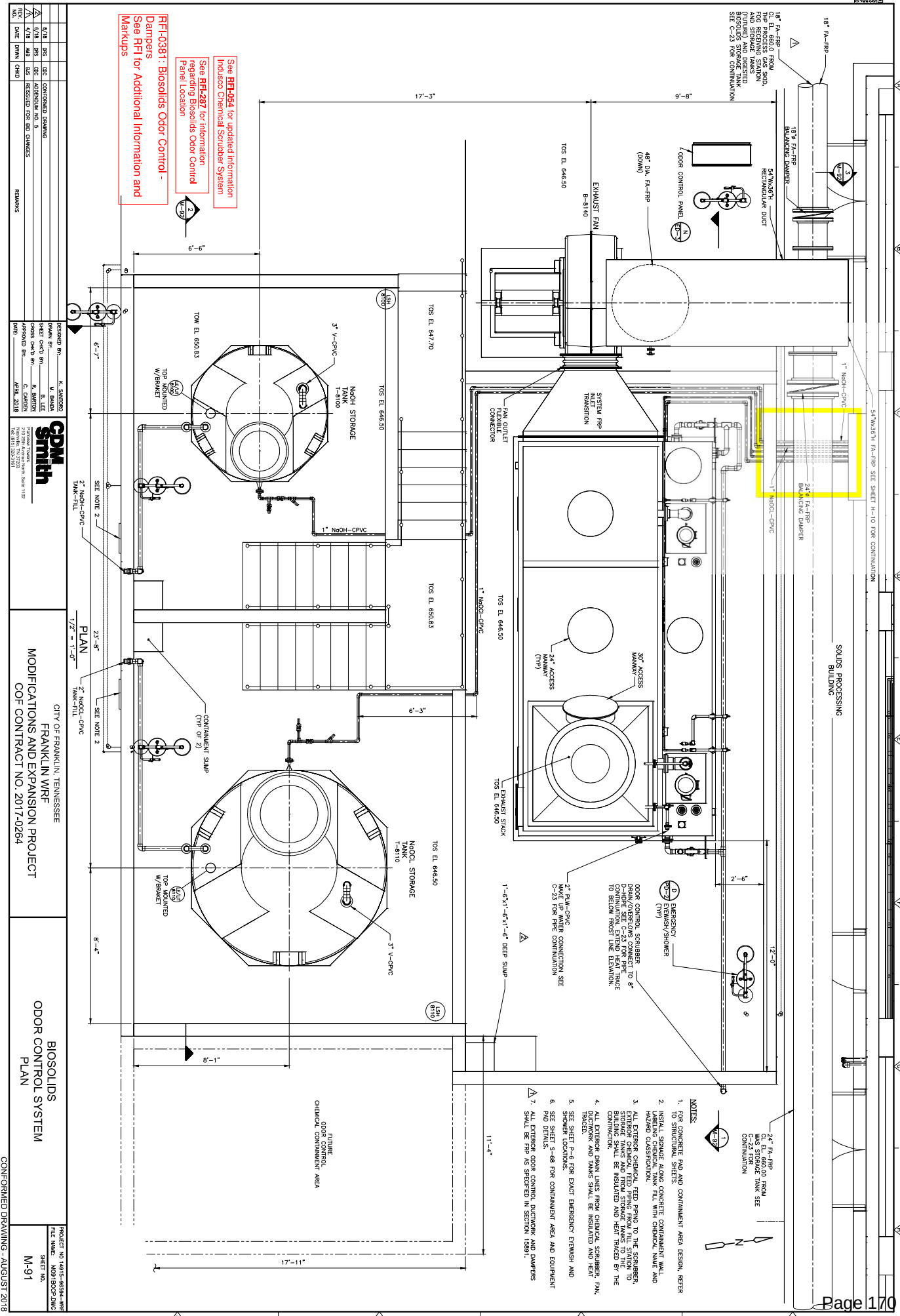
cc: File
Michelle Hatcher

Request for Information

Project Name: Franklin WRF Modifications & Expansion Project		
Owner's Project No.: 2017-0264	CDM Smith Project No.: 14915-96594-WRF	
Contractor: Kiewit Infrastructure South Co.	RFI No.:533	
	Date: 12/9/2021	
Subject: BSOC Chemical Line Additional Piping		
Spec Section: 15064	Drawing: M-91	Detail: N/A

QUESTION:	
Drawing Sheet M-91 shows the 1" CPVC NaOH and NaOCl lines from Biosolids Odor Control Area running across the walkway from the containment area into the Solids Process Building (see attached). This routing of the pipe does not allow for adequate clearance or use of the walkway it crosses without the lines either running overhead or underground. If the lines were to remain overhead this could create a potential problem of air getting trapped and the chemical metering pumps losing their suction from the storage tank. Please advise whether these lines should be re-routed overhead or buried under the walkway. Kiewit feels the optimal routing should be underground. Please advise if you concur. Rerouting these lines underground or making provisions for them to run overhead would be an extra cost to the contract.	
Please Respond by This Date:	
Submitted by Contractor: Emily Bonner, Kiewit	Date: 12/9/2021
Received by (CDM Smith):	Date:

RESPONSE:	
The engineer is in agreement with Contractor's suggestion to route this piping underground below the walkway.	
By: Dan Harris	Date: 1/12/2022
Distribution: Contractor, Owner, File, Field, RFI Notebook	



DESIGNED BY: K. SMITHOR	CHECKED BY: B. LEE
DRAWN BY: B. LEE	APPROVED BY: B. LEE
DATE: APRIL 2018	DATE: APRIL 2018
PROJECT: CITY OF FRANKLIN, TENNESSEE	PROJECT: CITY OF FRANKLIN, TENNESSEE
MODIFICATIONS AND EXPANSION PROJECT	MODIFICATIONS AND EXPANSION PROJECT
COP CONTRACT NO. 2017-0264	COP CONTRACT NO. 2017-0264
ODOR CONTROL SYSTEM	ODOR CONTROL SYSTEM
PLAN	PLAN
PROJECT NO. 14915-86594-04	PROJECT NO. 14915-86594-04
SHEET NO. M-91	SHEET NO. M-91



RFI 533 - BSOC Chemical Line Additional Piping

PREPARED BY: Michael Paduella

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR Unit Cost	DIRECT LABOR Total Cost	INDIRECT LABOR Unit Cost	INDIRECT LABOR Total Cost	MATERIAL Unit Cost	MATERIAL Total Cost	CONST. EQUIPMENT Unit Cost	CONST. EQUIPMENT Total Cost	SUBCONTRACT Unit Cost	SUBCONTRACT Total Cost	OTHER Unit Cost	OTHER Total Cost	TOTAL AMOUNT
RFI 533 - BSOC Chemical Line Additional Piping																	
Demo Sea Existing 1" NaOCl-PVC Lines	75.00	LF	0.10	7.5	\$ 70.97	\$ 532.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 532.28
Demo Existing Sidewalk	32.00	SF	0.50	16.0	\$ 35.87	\$ 893.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 893.92
Install Sea Dual Contained 1" NaOCl-PVC Carrier Pipes	75.00	LF	0.50	37.5	\$ 70.97	\$ 2,661.38	\$ -	\$ -	\$ 12.96	\$ 972.29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,633.67
Install Sea Dual Contained 3" NaOCl-PVC Containment Pipes	35.00	LF	1.25	43.8	\$ 70.97	\$ 3,104.94	\$ -	\$ -	\$ 78.08	\$ 2,732.88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,837.82
Install New Sidewalk R/F/P/C	3.55	YD3	2.00	7.1	\$ 58.48	\$ 415.21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 415.21
New Sidewalk Concrete Material Costs	0.59	YD3				\$ -	\$ -	\$ -	\$ 145.50	\$ 85.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 85.85
STS - small tools, consumables, safety equip. (\$5 per Direct Manhour, plus 9.75% sales tax. Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)	111.85	MHR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.00	\$ 559.25	\$ 559.25
TAX (9.75% of total)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND (2% of total)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SUBTOTALS						\$ 7,607.72		\$ 13,607		\$ 3,791.02		\$ -		\$ -		\$ 5,000	\$ 12,012.57
MARKUP %																	
SUBTOTALS WITH MARKUPS APPLIED						\$8,748.97		\$ 13,607		\$4,359.67		\$ 13,607		\$ 5,000		\$7,053.44	\$13,814.38
BOND																	
TOTAL																	\$13,814.00

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2022 Breakdown of Craft Wage Burden Rates

Wage Type	Burden %	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 44.00	\$ 66.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 24.00	\$ 36.00
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 3.50	\$ 5.25	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.39	\$ 3.58	\$ 1.91	\$ 2.87
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 2.61	\$ 3.92	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.78	\$ 2.67	\$ 1.43	\$ 2.14
Additional Wages		\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence		\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 65.25	\$ 90.30	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 44.81	\$ 61.90	\$ 37.98	\$ 51.64

Wage Type	Burden %	Pipefitter (Foreman)		Pipefitter/Welder		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 4.38	\$ 5.91	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.28	\$ 2.23	\$ 3.34	\$ 3.16	\$ 4.28	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.23
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 3.27	\$ 4.41	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.19	\$ 1.66	\$ 2.49	\$ 2.36	\$ 3.19	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.15
Additional Wages		\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 11.71	\$ 11.71	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence		\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 73.25	\$ 95.21	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.82	\$ 42.53	\$ 58.48	\$ 55.87	\$ 71.82	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.12

Wage Type	Burden %	Survey		Electrician	
		Straight	OT	Straight	OT
Labor - Base Wages		\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 2.63	\$ 3.94	\$ 3.06	\$ 4.10
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 1.96	\$ 2.94	\$ 2.29	\$ 3.06
Additional Wages		\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence		\$ 13.92	\$ 13.92	\$ 8.35	\$ 8.35
Total		\$ 53.80	\$ 72.59	\$ 54.48	\$ 69.25

Attachment A Scope of Work

Schedule of Values

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	E2 - 4,500 psi (after March 1st, 2020) subject to 3% discount as stated in Item 2.8 below	3,250	CY	\$ 127.50	\$ 414,375.00
	Total Contract Price (without tax)				\$ 414,375.00

1.0 General Description of the "Work": Seller shall provide all supervision, labor, material, tools and equipment to furnish and deliver all cast-in-place concrete material in accordance with the Contract Documents, and the following,

- .1 **FURNISH SECTIONS:** Specification Section 03300 – Cast-In-Place Concrete and Section 03600 – Grout.

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00, Division 1 General Requirements and other any applicable sections.

- .2 Quantities are approximate and may increase or decrease at Contractor's option. Seller shall be paid for actual quantities received and installed. Seller shall furnish all required certifications and submittals as defined in the specifications at no additional cost to Contractor.
- .3 Contractor shall not pay for material delivered on site that does not meet requirements stated in Specification Section 03300 – Cast-In-Place Concrete and Section 03600 – Grout.

2.0 Including But Not Limited to:

- .1 The unit prices in the Schedule of Values are firm through February 28, 2021, and shall increase \$9.00 per cubic yard annually thereafter. Quantities may increase or decrease at Contractor's option. Seller shall be paid only for actual quantities received and verified by Contractor.
- .2 BOND(s): Not Required
- .3 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
- .4 Material is not exempt from sales or use taxes.
- .5 Seller shall attend and participate in Contractor's daily and/or weekly scheduling and coordination meetings as determined by the Contractor.
- .6 Seller shall submit a quality plan to Contractor prior to start of Work.
- .7 Seller shall provide all required material certifications or tests prior to or upon delivery of materials to site.
- .8 Contractor shall receive a ~~2%~~ ^{\$3.00} discount on all proper invoices paid within 10 days after Contractor's receipt.

3.0 Exclusions:

- .1 None.

4.0 Schedule of Work:

- .1 Seller shall attend schedule meetings prior to major pours.
- .2 Seller shall provide material to meet the project schedule and production demands. Seller shall provide multiple crews for material to be delivered timely to different areas of the Project, at no additional cost to Contractor.

- .3 Seller shall arrive onsite at the time scheduled and agreed upon by Contractor and Seller. If Seller arrives more than 60 minutes after its scheduled arrival time, Contractor may charge Seller its actual documented cost per hour for downtime of its crews until Seller arrives.

5.0 Unit Prices, Options and Allowances: The following items shall be provided by Seller as necessary, and will require a written fully executed change order.

Chilled Water per yard	\$3.00
E2 - With 1.5 LB Fibers - 4,500 psi, per cy (before March 1, 2021)	\$133.50
E3 - 4,500 psi, per cy (before March 1, 2021)	\$131.50
E3 - With 1.5 LB Fibers - 4,500 psi, per cy (before March 1, 2021)	\$137.50
Holidays and Sundays	TBD
Environmental Fee, per load	\$12.00
Excess unloading over 60 minutes charged per hour	\$90.00
High Range Water Reducer, add/cy	\$7.50
Ice, per lb	\$0.40
Late Delivery, After 5:00 PM, per load	\$75.00
Mid-Range Water Reducer, add/cy	\$5.00
Non-Chloride Accelerator, per dose	\$5.50
Reinforcing Fiber, add/cy	\$7.00
Retarding Admixture, per dose	\$3.50
Saturday Delivery, per load	\$50.00
Small Load Charge 2 yards or less	\$200.00
Small Load Charge 2.25 - 3.75 yards	\$100.00
Winter Service (Dec 1 - Feb 28), add /CY (includes hot water)	\$4.00

6.0 Deliverables: In addition to any other provisions of this Contract, it is required that Seller make timely submission of the following to Contractor:

- .1 Furnish shop drawings and submittals for approval within 28 days of the Effective Date of Contract in strict accordance with specification section 01300. Submittals shall be submitted timely to allow thirty (30) calendar days for Contractor and Owner review and not delay prosecution of the Work. Material shall not be ordered or shipped until the shop drawings have been approved. No material shall be ordered or shop work started if shop drawings are marked "APPROVED AS NOTED - CONFIRM", "APPROVED AS NOTED - RESUBMIT" or "NOT APPROVED".



INDUSTRIAL AND MUNICIPAL SUPPLY

P.O. BOX 573
WEST POINT, GA 31833
Phone: (706) 643-4214 ***** Fax: (706) 643-5515

Quote Summary

Quote #: 5041-152-1-1
Quote Name: c/o: Franklin WRF Dbl. Containment-1-1
Location: FRANKLIN, TN

Mark #	Seq #	Quantity	Unit	Size	Material	Length	Joint	Fitting	Description	Unit Sell	Total Sell	
HEADING: 01												
DESCRIPTION: DOUBLE CONTAINMENT CPVC												
01-1	1	40	LF	3"	CPVC	20'-0"	PLAIN END	PIPE	SCHEDULE 80	\$ 12.80	\$ 512.00	Freight Distribution
01-2	2	100	LF	1"	CPVC	20'-0"	PLAIN END	PIPE	SCHEDULE 80	\$ 2.90	\$ 290.00	1,266.05
01-4	4	15	EA	1"	CPVC		SXS	COUPLING	9629010 SCHEDULE 80 CPVC	\$ 4.10	\$ 61.50	717.10
01-5	5	10	EA	3"	CPVC		SXS	90 BEND	SPEARS 806030C SCHEDULE 80 CPVC	\$ 31.70	\$ 317.00	152.07
01-6	6	10	EA	1"	CPVC		SXS	90 BEND	SPEARS 806010C SCHEDULE 80 CPVC	\$ 4.17	\$ 41.70	783.86
01-8	8	1	EA				ESTIMATED	FREIGHT	COST TO DELIVER MATERIALS TO JOBSITE	\$ 1,800.00	\$ 1,800.00	103.11
End of Quote Summary										Total	\$ 3,022.20	3,022.20



404-346-7000
404-349-9091 (fax)
atl.sales@mcmaster.com

Order Confirmation

Ship to
Kiewit Infrastructure South Co
C/O City of Franklin
Wastewater Treatment Plant
135 Claude Yates Dr
Franklin TN 37064

Purchase Order
4502644248

Order Date
2/10/22

Ordered By
Emily Bonner

McMaster-Carr Number
4200283

Attention Wrf Modifications And EXPANSION-135
Emily Bonner

Line	Product	Ordered	Delivers	Price	Total
1	6826K58 CPVC Pipe Fitting for Hot Water, Cap, 3 Socket-Connect Female	12 each	Feb 11	51.79 each	621.48
				Merchandise	621.48
				Tax	60.59
				Total	\$682.07

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 16, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00222.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: H2S Removal Tank Heat Tracing and Insulation

Dear Mr. Harris,

Attached you will find Kiewit's proposal for the additional heat tracing and insulation for the H2S Removal Tank in the amount of **Twenty-One Thousand, Nine Hundred Fifty Dollars (\$21,950.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



H2S Removal Tank Heat Tracing and Insulation

PREPARED BY: Michael Pachulio

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
H2S Removal Tank Heat Tracing and Insulation																	
Install Heat Tracing at H2S Tank	1.00	LS				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Heat Trace Craft Support w/ 41-50ft Genie Manlift	81.00	LF	0.30	24.3	\$ 54.48	\$ 1,323.86	\$ -	\$ -	\$ -	\$ -	\$ 21.63	\$ 525.61	\$ 1,877.44	\$ 1,877.44		\$ -	\$ 1,877.44
Install Insulation at H2S Tank	1.00	LS				\$ -		\$ -		\$ -		\$ -	\$ 16,800.00	\$ 16,800.00		\$ -	\$ 16,800.00
																	\$ -
STIS - small tools, consumables, safety equip, (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)	24.30	MHR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -		\$ -	\$ 5.00	\$ 121.50	\$ 121.50
TAX: (9.75% of Material, Equipment, Other)						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
BOND (2% of total)						\$ 1,323.86		\$ -		\$ -		\$ 576.86		\$ 18,677.44		\$ 133.35	\$ 20,711.51
SUBTOTALS						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	1,238.98
MARKUP %																	
SUBTOTALS WITH MARKUPS APPLIED						\$1,522.44						\$663.38		\$19,611.31		\$153.35	\$21,950.49
BOND																	
TOTAL																	\$21,950.00

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2022 Breakdown of Craft Wage Burden Rates

Wage Type	Burden %	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 44.00	\$ 66.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 24.00	\$ 36.00
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 3.50	\$ 5.25	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.39	\$ 3.58	\$ 1.91	\$ 2.87
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 2.61	\$ 3.92	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.78	\$ 2.67	\$ 1.43	\$ 2.14
Additional Wages		\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence		\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 65.25	\$ 90.30	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 44.81	\$ 61.90	\$ 37.98	\$ 51.64

Wage Type	Burden %	Pipefitter (Foreman)		Pipefitter/Welder		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 4.38	\$ 5.91	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.28	\$ 2.23	\$ 3.34	\$ 3.16	\$ 4.28	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.23
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 3.27	\$ 4.41	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.19	\$ 1.66	\$ 2.49	\$ 2.36	\$ 3.19	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.15
Additional Wages		\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 11.71	\$ 11.71	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence		\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 73.25	\$ 95.21	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.82	\$ 42.53	\$ 58.48	\$ 55.87	\$ 71.82	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.12

Wage Type	Burden %	Survey		Electrician	
		Straight	OT	Straight	OT
Labor - Base Wages		\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 2.63	\$ 3.94	\$ 3.06	\$ 4.10
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 1.96	\$ 2.94	\$ 2.29	\$ 3.06
Additional Wages		\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence		\$ 13.92	\$ 13.92	\$ 8.35	\$ 8.35
Total		\$ 53.80	\$ 72.59	\$ 54.48	\$ 69.25

WARREN INSULATION

2096 Nashville Hwy Columbia, TN 38401
(615)351-0166



May 12,2022

Kiewit Water Facilities

Subject: Franklin Water Treatment Plant
Hydrogen Sulfide Removal System Tank

- Quote includes 2" Fiberglass Tank Wrap Insulation
- Quote includes .016 Aluminum Weatherproof Jacket
- Quote does not include domed top
- Quote includes endcap at top weld of tank
- Quote includes bottom domed end
- Quote includes lift
- Quote does not include heat trace
- Quote includes all material, labor & supervision

Total Quote ----- \$ 16,800.00

Lance Warren

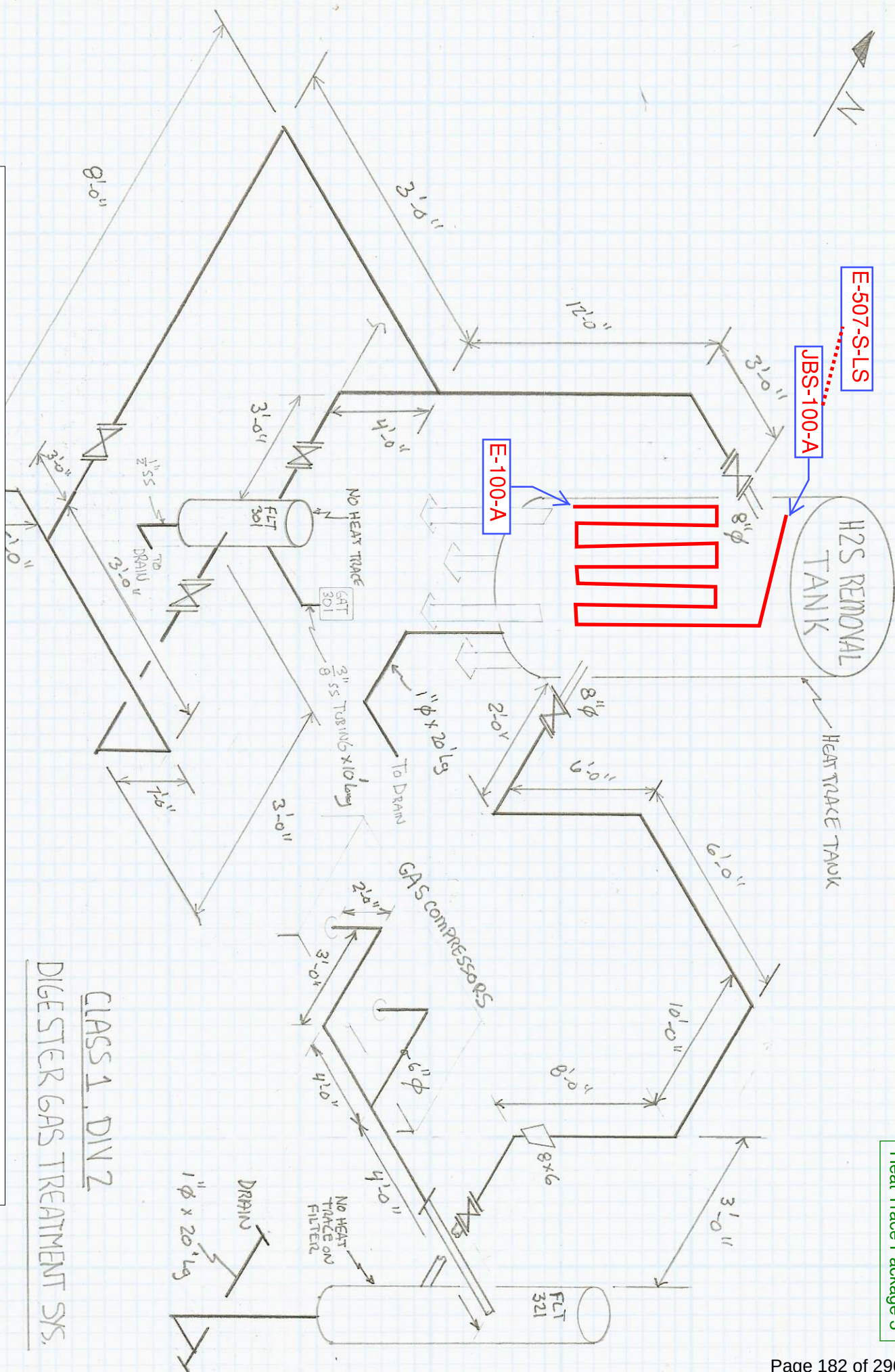
Warren Insulation, LLC



H2S Tank Material Cost

81.00	81.00	0.00 EA	10BTV1-CT nVent : 516277-000	EA 1.0000	11.4600	928.26
			nVent Self-Regulating Heating Cable - BTV 120 Volt 10 W/ft at 50°F/10°C, CT-Jacket			
1.00	1.00	0.00 EA	JBS-100-A nVent : 085947-000	EA 1.0000	149.3400	149.34
			nVent Connections, Splices and Terminations Power Connection Kit with Junction Box for One Heating Cable to 8 AWG			
1.00	1.00	0.00 EA	E507S-LS nVent : 625725-000	EA 1.0000	606.7900	606.79
			nVent Thermostats Line Sensing (25 to 325°F)			
1.00	1.00	0.00 EA	E-100-A nVent : 046567-000	EA 1.0000	49.5600	49.56
			nVent Connections, Splices and Terminations High Profile End Seal Kit			
1.00	1.00	0.00 EA	AT-180 nVent : 158139-000	EA 1.0000	86.8600	86.86
1.00	1.00	0.00 EA	UMB nVent : 263757-000	EA 1.0000	56.6300	56.63
			nVent Pipe Straps and Mounting Brackets Universal Mounting Bracket			

Total: \$1877.44



Rental Rate Blue Book®

November 3, 2020

Genie Z-45/25 BI-ENERGY

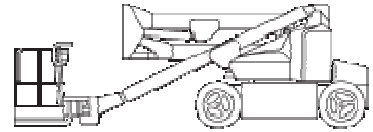
Electric Self-Propelled Articulating Aerial Lifts

Size Class:

41 - 50 ft

Weight:

15350 lbs



Configuration for Z-45/25 BI-ENERGY

Maximum Platform Capacity **500.0 lbs**
Voltage **48.0 V**

Maximum Platform Height **546.0 in**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$2,425.00	USD \$680.00	USD \$170.00	USD \$26.00	USD \$6.89	USD \$20.67
Adjustments						
Region (Franklin, Tennessee: 107%)	USD \$169.75	USD \$47.60	USD \$11.90	USD \$1.82		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$2,594.75	USD \$727.60	USD \$181.90	USD \$27.82	USD \$6.89	USD \$21.63

Non-Active Use Rates

Hourly

Standby Rate

USD \$8.40

Idling Rate

USD \$14.74

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	46%	USD \$1,115.50/mo
Overhaul (ownership)	43%	USD \$1,042.75/mo
CFC (ownership)	4%	USD \$97.00/mo
Indirect (ownership)	7%	USD \$169.75/mo

Fuel cost data is not available for these rates.

Revised Date: 2nd half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 11, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00220.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for Concrete Sealant in SPB Room C-01

Dear Mr. Harris,

As requested, Kiewit is submitting a change proposal for application of concrete sealant in the Solids Processing Building Room C-01 in the amount of **Seven Thousand Nine Hundred Eighty Dollars (\$7,980.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

PREPARED BY: Steve Davis

[illegible]

Steven.Davis1

Subject: RE: [EXTERNAL] RE: Franklin WRF - Additional SF

From: c.hawkins.com@comcast.net <c.hawkins.com@comcast.net>
Sent: Tuesday, May 10, 2022 3:02 PM
To: Bristyl.Baker <Bristyl.Baker@kiewit.com>
Cc: c.hawkins.com@comcast.net; Regina Crouch <jrcrouch@comcast.net>
Subject: [EXTERNAL] RE: Franklin WRF - Additional SF

Bristyl,

Thank You & **Please See Below.**

Thank You,
Chuck Hawkins
Service Resource, Inc.
615-516-5879

From: Bristyl.Baker <Bristyl.Baker@kiewit.com>
Sent: Saturday, May 7, 2022 9:28 AM
To: c.hawkins.com@comcast.net
Subject: Franklin WRF - Additional SF

Hey Chuck,

We had a few changes in scope and additional areas requested to be sealed by the client as we have been moving through the buildings.

I was hoping you could get me a quote for the item below so I can issue you a change order.

Cake Bin and Sludge Area C-01: 4,000 SF @ \$1.90 SF = \$7,600. **Which includes all of the specified, cleaning, sealing and hole repairs as we have been performing.**
THANK YOU!!

Thanks!



Bristyl Baker
Field Engineer

Kiewit Infrastructure South Co.
Franklin WRF Modifications and Expansion Project

135 Claude Yates Drive
Franklin, TN 37067
C: 563-343-3219





Kiewit

CP 135

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

January 27, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00217.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Denitrification Influent Piping – Proposed Reroute

Dear Mr. Harris,

Due to differing conditions pertaining to the 54" Influent Piping to the Denitrification Filters, Kiewit proposes utilizing a 36"x24" saddle tap adjacent to the existing flow meter to reroute the 24" influent line to the Denitrification Filter Clearwell.

Attached you will find Kiewit's proposal for this additional work for a credit in the amount of **One Thousand, Two Hundred Ninety-Four Dollars (\$1,294.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

MUDWELL



MUNICIPALITY: CITY OF FRANKLIN, TN.	LOCATION: FRANKLIN, TN.
PROJECT : FRANKLIN WRF MOD & EXPANSION PROJECT	DATE: 07-11-2020
ENGINEER : CDM SMITH	DRAWN BY: GCS
CONTRACTOR: KIEWIT INFRASTRUCTURE SOUTH CO.	
REV: R3 CONTRACTOR MARK UP	

CONTRACTOR'S APPROVAL SIGNATURE :

DATE : _____

DATE: 07-11-2020



This illustrative line drawing is provided at the request of and for the convenience of the owner, contractor, engineer, designer, or installer. It is intended as an aid in determining a bill of materials to create an accurate order. It is not meant to be and shall not be considered a design of the installation, and it is not intended to be used as a basis for a design. It is not intended to be used as a basis for methods of installation or construction. Responsibility for the accuracy of dimensions and practicality of installation or design is the responsibility of the engineer, designer, or installer. The contractor releases Caré & Main, from liability for any claims that arise out of inaccuracy of plans, specifications, and submitted materials.

This illustrative line drawing and its content must be approved, signed, and returned to Caré & Main for the release of the materials from Caré & Main. It is understood the layout may be modified in the field and that varying field conditions may result in a different installation than indicated on this illustrative line drawing. This is not the responsibility of Caré & Main. The contractor certifies that the contractor or the contractor has reviewed the illustrative line drawing and approves the content, form, and practicality of the drawing.



Denitrification Influent Piping - Proposed Reroute

PREPARED BY: Michael Pachuillo

[illegible]

ROW	QTY	SIZE	DESCRIPTION	Invoiced Qty	Invoiced Price	Total
17800			CONSTRUCT 24" FILTER BYPASS (C-18,M-34)			
17820	1	54"	DI C153 MJ SOLID SLEEVE, CL W/O SEAL COAT (IF REQ'D)	1	\$ 11,586.84	\$ 11,586.84
17830	1	54"	DI C153 MJ TEE, CL W/O SEAL COAT	1	\$ 40,738.56	\$ 40,738.56
17840	5	54"	EBAA 1100 MEGALUG ACC SET	5	\$ 6,010.92	\$ 30,054.60
17850	1	54X24"	DI HP LOK X TR-FLEX REDUCER, CL W/O SEAL COAT	1	\$ 15,320.27	\$ 15,320.27
17860	1	24"X19'-00"	DIP SPOOL PC 250 TR-FLEX PE X TR-FLEX PE, CL W/O SEAL COAT	1	\$ 2,094.79	\$ 2,094.79
17870	1	24"	DI TR-FLEX 90 BEND, CL W/O SEAL COAT	1	\$ 3,661.55	\$ 3,661.55
17880	1	24"X10'-00"	DIP SPL PC 250 TR-FLEX PE X BOLT LOK PE, CL W/O SEAL COAT	1	\$ 1,390.45	\$ 1,390.45
17940	1	24"X02'-00"	DIP SPL PC 250 TR-FLEX PE X BOLT LOK PE, CL W/O SEAL COAT	1	\$ 1,625.23	\$ 1,625.23
	2	24"	Megalugs	2	\$ 616.00	\$ 1,232.00

Subtotals	Qty	Unit Price	Total Cost
54" Tee	1	\$ 40,738.56	\$ 40,738.56
54" Pipe	14.25	\$ 3,997.31	\$ 56,961.71
24" Pipe	37.00	\$ 270.38	\$ 10,004.02

Michael.Pachuilo

From: Jones, Jared <Jared.Jones@coreandmain.com>
Sent: Friday, March 4, 2022 10:27 AM
To: Michael.Pachuilo
Subject: [EXTERNAL] Franklin WRF - Material Return

Michael,

The vendor on the 54" MJ Sleeve and MJ Restraints said they'll offer a 35% re-stock, but that's the lowest they can go. That's about a \$21k credit for that material. I can also keep looking for a home for the 54" MJ Tee. Let me know if you have any questions.

Thanks,
Jared Jones, Assoc. DBIA
SE Region Treatment Plant Group
Regional Sales Manager
Mobile 205-572-8976
jared.jones@coreandmain.com



This message is for intended addressee(s) only and may contain confidential, proprietary or privileged information, exempt from disclosure, and subject to terms at: <http://emailterms.coreandmain.com>.

Michael.Pachuilo

From: Michael.Pachuilo
Sent: Thursday, January 27, 2022 2:55 PM
To: Brad.Coutu
Subject: Fwd: 36"x24" MJ Tee or Saddle Tap
Attachments: FTSC-3870-24-U100.pdf

Get [Outlook for iOS](#)

From: Jones, Jared <Jared.Jones@coreandmain.com>
Sent: Thursday, January 27, 2022 2:47:19 PM
To: Michael.Pachuilo <Michael.Pachuilo@kiewit.com>
Subject: [EXTERNAL] RE: 36"x24" MJ Tee or Saddle Tap

Your cost for the attached AIS 36x24" FTSC Tapping Saddle is \$7,050.00. The lead time to ship is 2-3 weeks. Let me know if you want to proceed to order.

Thanks,
Jared Jones, Assoc. DBIA
SE Region Treatment Plant Group
Regional Sales Manager
Mobile 205-572-8976
jared.jones@coreandmain.com



This message is for intended addressee(s) only and may contain confidential, proprietary or privileged information, exempt from disclosure, and subject to terms at: <http://emailterms.coreandmain.com>.

From: Michael.Pachuilo <Michael.Pachuilo@kiewit.com>
Sent: Tuesday, January 25, 2022 7:44 AM
To: Jones, Jared <Jared.Jones@coreandmain.com>
Subject: 36"x24" MJ Tee or Saddle Tap
Importance: High

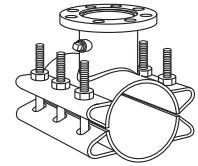
CAUTION: External

Jared,

Just following up on this. Did you have any luck sourcing the MJ Tee?

SUBMITTAL INFORMATION

Steel Tapping Sleeve - (FTSC-xxxx-x-U100 style)



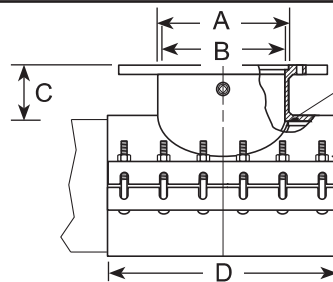
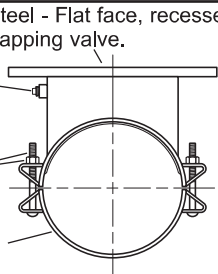
STEEL TAPPING SLEEVE (EPOXY COATED) - 30" TO 48"

Flange - ASTM A36 Carbon Steel - Flat face, recessed per MSS SP-60 for standard tapping valve.

3/4-14 No-Lead Brass Test Plug

Bolts and Nuts - Type 304 stainless steel

Finish - Fusion-bonded epoxy



Gasket - NBR (Buna-N) per ASTM D2000

Body - Heavy welded steel with a recessed groove or retaining rings to retain the gasket.

NOM. PIPE SIZE	SLEEVE O.D. RANGE (IN.)	By	FLANGE SIZE CODE*	NOMINAL DIMENSIONS - INCHES				No. OF BOLTS	SLEEVE NUMBER*	✓ SUBMITTED ITEM(S)
				A	B	C	D			
30"	29.78-30.48**		4	5-3/64	4-1/8"	5-3/16"	12	6	FTSC-3048-x-U100	
			6	7-3/64	6-1/4"	5-3/16"	12	6		
			8	9-3/64	8-1/4"	5-3/16"	16	8		
			10	11-3/64	10-1/4"	5-3/16"	20	10	FTSC-3118-x-U100	
			12	13-3/64	12-1/4"	5-3/16"	24	12		
			14	15-5/16	13-1/2"	6-1/4"	28	14		
			16	17-5/16	15-1/2"	6-1/4"	32	16	FTSC-3222-x-U100	
			18	19-17/32	17-1/2"	6-1/4"	36	18		
			20	21-17/32	19-1/2"	6-1/4"	40	20		
			24	25-17/32	23-1/2"	6-1/4"	48	24		
36"	35.50-36.20**		30	31-1/64	29-9/16"	6-1/4"	60	30		
			4	5-3/64	4-1/8"	5-3/16"	12	6	FTSC-3620-x-U100	
			6	7-3/64	6-1/4"	5-3/16"	12	6		
			8	9-3/64	8-1/4"	5-3/16"	16	8		
			10	11-3/64	10-1/4"	5-3/16"	20	10	FTSC-3830-x-U100	
			12	13-3/64	12-1/4"	5-3/16"	24	12		
			14	15-5/16	13-1/2"	6-1/4"	28	14		
			16	17-5/16	15-1/2"	6-1/4"	32	16	FTSC-3870-x-U100	
			18	19-17/32	17-1/2"	6-1/4"	36	18		
			20	21-17/32	19-1/2"	6-1/4"	40	20		
42"	41.70-42.40		24	25-17/32	23-1/2"	6-1/4"	48	24	FTSC-3940-x-U100	
			30	31-1/64	29-9/16"	6-1/4"	60	30		
			36	37-1/64"	35-9/16"	6-1/4"	72	36		
			4	5-3/64	4-1/8"	5-3/16"	12	6	FTSC-4240-x-U100	
			6	7-3/64	6-1/4"	5-3/16"	12	6		
			8	9-3/64	8-1/4"	5-3/16"	16	8		
			10	11-3/64	10-1/4"	5-3/16"	20	10	FTSC-4310-x-U100	
			12	13-3/64	12-1/4"	5-3/16"	24	12		
			14	15-5/16	13-1/2"	6-1/4"	28	14		
			16	17-5/16	15-1/2"	6-1/4"	32	16	FTSC-4380-x-U100	
48"	43.10-43.80		18	19-17/32	17-1/2"	6-1/4"	36	18		
			20	21-17/32	19-1/2"	6-1/4"	40	20	FTSC-4460-x-U100	
			24	25-17/32	23-1/2"	6-1/4"	48	24		
			30	31-1/64	29-9/16"	6-1/4"	60	30	FTSC-4530-x-U100	
			36	37-1/64"	35-9/16"	6-1/4"	72	36		
			4	5-3/64	4-1/8"	5-3/16"	12	6	FTSC-4570-x-U100	
			6	7-3/64	6-1/4"	5-3/16"	12	6		
			8	9-3/64	8-1/4"	5-3/16"	16	8		
			10	11-3/64	10-1/4"	5-3/16"	20	10	FTSC-5090-x-U100	
			12	13-3/64	12-1/4"	5-3/16"	24	12		
48"	50.20-50.90		14	15-5/16	13-1/2"	6-1/4"	28	14	FTSC-5160-x-U100	
			16	17-5/16	15-1/2"	6-1/4"	32	16		
			18	19-17/32	17-1/2"	6-1/4"	36	18		
			20	21-17/32	19-1/2"	6-1/4"	40	20	FTSC-5230-x-U100	
			24	25-17/32	23-1/2"	6-1/4"	48	24		
			30	31-1/64	29-9/16"	6-1/4"	60	30		
			36	37-1/64"	35-9/16"	6-1/4"	72	36		
			4	5-3/64	4-1/8"	5-3/16"	12	6		
			6	7-3/64	6-1/4"	5-3/16"	12	6		
			8	9-3/64	8-1/4"	5-3/16"	16	8		

*To Order: Add flange size code to the sleeve number. Example: A 12" flange on 36" cast iron pipe would be FTSC-3870-12-U100. For alloy nuts and bolts option, add "-AH" to the catalog number. Example: FTSC-3620-12-AH-U100.

**Not available as size-on-size

Note: A 1" undersize cutter is required for flanges 14" and larger. Oversize outlets are available by special request.

FEATURES

- Heavy welded steel meeting ASTM A36 36,000 psi minimum yield
- Ring style gasket is NBR (Buna-N) per ASTM D2000
- Certified to ANSI/NSF Standard 61
- Bolts and nuts are type 304 stainless steel per ASTM A193 & A194
- Finish: fusion-bonded epoxy-coating

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current. Our standard warranty applies.



The Ford Meter Box Company, Inc.
P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443
Phone: 260-563-3171 / Fax: 800-826-3487
Overseas Fax: 260-563-0167
www.fordmeterbox.com

11/08/19

Submitted By:



INTERNATIONAL FLOW, INC.

Contracts & Billing: 221 N. County Line Road. Mustang, OK 73064
800-221-3332 • 5446 Poplar Grove Road, McEwen, TN 37101
Nashville, TN • Anchorage, AK • Houston, TX • Mustang, OK • Dover, DE
Contractors # VA A-2705-139792 • CA. A502406 • NV A0033534 • AZ A087440 •
AK A110069 - TX – 801755107 • DE - 2011121746 • LA– Heavy 57589 • FL CUC1225096

Hottap.com

February 15, 2022

REVISED PROPOSAL

CUSTOMER NAME:	Kiewit
ATTN:	Michael Pachuiilo
CELL #:	913-403-6344
EMAIL:	michael.pachuiilo@Kiewit.com
LOCATION:	Franklin, TN

1 – Set Up / Mobilization to site **\$300.00**

ITEM 1 – 24” Hot Tap DIP Water Main

1 – 24” Hot Tap on 36” DIP Water Main (100 PSI or Less)

Through Contractor supplied and preinstalled tapping sleeve and valve.

1 – Testing of tapping equipment

(MJ or Flange Connection, confirm at time of order)

\$3,450.00 Each

Total \$3,450.00

Project Total \$3,750.00

Price includes Prevailing Wage Rates

- * Price based on Quantities listed above. Any changes may result in price change.
- * If Hot Tap is on PVC pipeline please provide DR# at time of order. When Tapping
- * Though PVC can be a good product and many successful projects are performed on PVC, International Flow cannot assume responsibility for the integrity of the existing PVC pipe. Depending on how it was laid, the chemical make up or other unknown causes PVC has seen expensive failures when tapped.

International Flow will take all precautions necessary to cut this pipe and perform work as required, but International Flow will not be responsible if the pipe fails. The owner of the pipeline must assume full responsibility and bear the costs of damages in a pipe failure.

- * Standby not caused by IFT will incur a charge of \$145/HR per technician.

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* IFT makes the best professional effort to remove the whole coupon but there is the possibility, especially on concrete lined pipe to not retrieve the whole coupon.

Customer to Provide:

- * All Excavating, Shoring, ladders, and Traffic Control
 - * Confirmation of pipe Type & Pressure prior to ordering
 - * Access to pipe prior to our arrival
 - * Lifting equipment with operator and rigging of Tapping Machine as required
 - * Support labor to move, mount & dismount, load / unload and help bolt-up all equipment and materials.
 - * Design and install all thrust restrainers necessary.
 - * Maintain a “workable and dry environment”
 - * Arrange and pay for all permits, licenses, and inspection fees.
 - * All environmental protection required.
 - * Make necessary trade and union arrangements. Our technicians are unaffiliated.
 - * Installation of Tapping Sleeve and Full Port Valve with Test prior to our arrival
 - * **Confined Space** – Contractor to supply all safety equipment and additional personnel needed during the entire duration of job.
- “All wet stamp engineering required to be provided by customer”**

TERMS:

Net (30) thirty days – **No retention with held** – 1 % interest, per month will be assessed on invoices over (30) thirty days. OAC

IFT is non-signatory to union trades. Please make arrangements with unions to allow our work to be performed if necessary.

IFT does not include bonds in its bid

IFT does not sign contracts after work is complete

IFT does not accept retention withholding

Prices are based on IFT standard insurance - any additional or modified insurance needs, OCIP requirements, 30 day notification of cancellation are priced per request.

If a subcontract or PO with Terms and Conditions is required, this information needs to be sent to IFT at time of job notification along with any COI requirements. IFT will require written approval of IFT insurance from contractor. IFT will not be held liable for any job delay due to paperwork sent at the last minute. All contract and COI issues MUST be negotiated and signed prior to any materials being ordered or mobilization schedules made.

Please note: Any and all additional insurance costs over and above IFT’S normal insurance cost – as well as any and all cost(s) for additional training requirements – will be billed on a cost plus 15% basis.

DURATION AND DELIVERY:

- A.** Our price is based upon expeditious completion of the work once we are required to report to the jobsite.

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B. Please allow approximately 3 to 4 weeks notice for delivery from acceptance of this proposal and receipt of mutually acceptable purchase order and/or contract, subject to prior commitments.

C. IFT fitting are estimated at 2 to 3 week delivery from receipt of Mutually Accepted PO or Subcontract and pipe OD.

D. No materials will be ordered or schedules made until all paperwork is 100% complete

* This bid is conditional; IFT does not hold contractors license in all 50 states. If work is to be performed in a state where IFT is unlicensed, the customer will supply required licenses and permits and agrees to accept this proposal as “rental of equipment” and “operators of said machinery”, not as a contract or subcontract for construction.

* **Price based on simple form contracts-** Additional Admin Fees will apply for additional paperwork processing.

*** ACCEPTANCE:**

If our contract is acceptable, please sign below as indicated and return (1) one signed copy to our office. The above prices are based upon acceptance within **(30) days**. Please send any Insurance requirements at time of order.

Thank you,

Tommy Berry
Nashville, TN office Manager
615-507-4884

Company: _____ **PO #** _____

BY: _____ **DATE:** _____
Authorized Representative

Print Name / Title: _____

Job Address: _____

Site Contact Name / Cell # _____

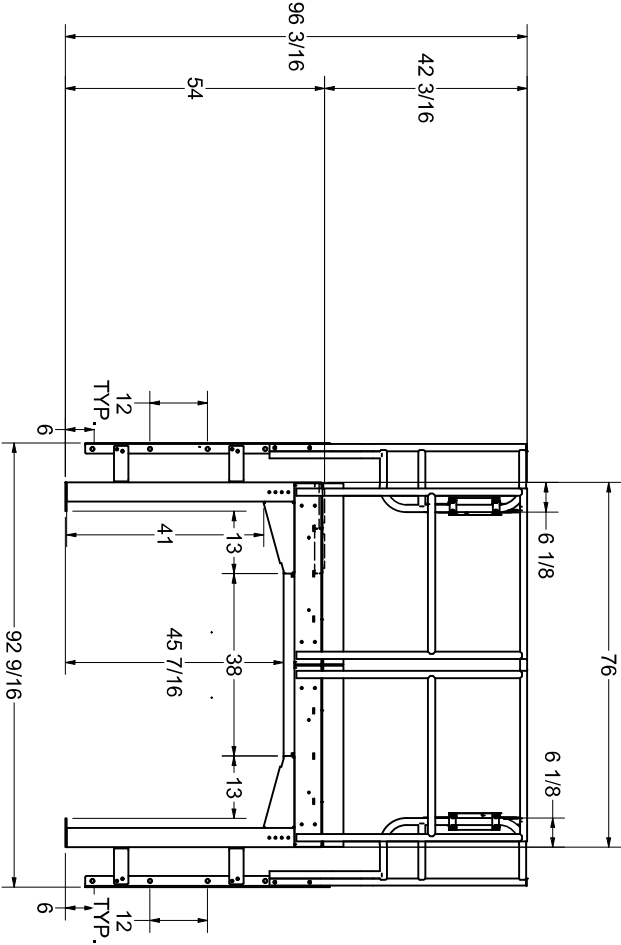
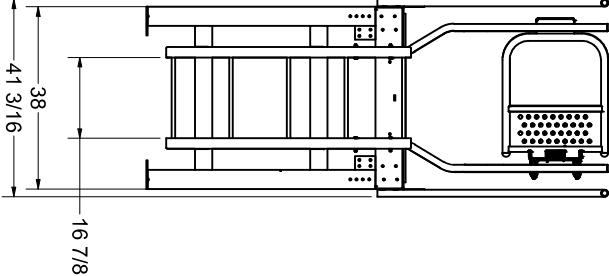
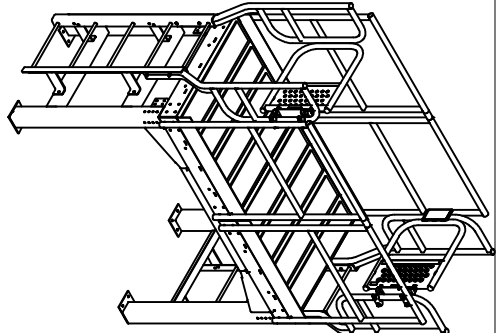
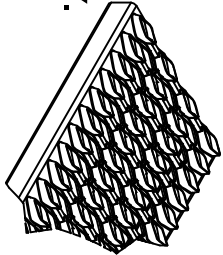
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CUSTOMER APPROVAL

APPROVED	BY	DATE	APPROVAL TYPE
NOT APPROVED			☐ THIS ORDER ONLY ☐ ALL ORDERS

NOTE: SPECIAL PURPOSE UNIT. FOR INTENDED USE ONLY.

1/4" UNAGRIP TREAD DETAIL



DRAWN		 Division of Material Control, Inc. 130 Seiter Road, Cornwall, Michigan 48622 U.S.A.
DAM	4/27/2022	
CHECKED		
APPROVED	4/27/2022	
PART		
67083 - APP		SM 6 STEP 2 PLATFORMS 2 FLS
THIS PART IS PROPERTY OF COTTERMAN® COMPANY, AND MAY NOT BE USED IN WHOLE OR PART WITHOUT WRITTEN PERMISSION.		
Drawing is computer generated, and print might not be to scale		
SIZE	DWG NO	
C	67083 - APP.dwg	
DIMENSIONS IN INCHES UNLESS NOTED		
SHEET 1 OF 1		REV



130 Seltzer Road
P.O Box 168
Croswell, Michigan
48422-0168
Phone: 810-679-4400
Fax: 810-679-4510

Div. of Material Control, Inc.
Manufacturers of Heavy-Duty Industrial and Commercial Ladders
Website: <http://www.cotterman.com> Email: info@cotterman.com

Quote

Quote Number: 67083TW

Prepared For:

Phone:

Fax:

Email:

Company Name: KIEWIT INFRASTR SOUTH CO - 18651

Bill To: ATTN: ACCOUNTS PAYABLE
P O BOX 452500 1044-102106
OMAHA, NE 68145-2500
US

Prepared By: TIM WINKLER

On: 04/25/2022

Quote Valid Until: 05/25/2022

RFQ:

Lead Time: 45 Work Days

Customer Code: O

Shipping To: TO BE DETERMINED
Ship City, State Zip

Line	Quantity	Item Item Description	FOB	List Price	Discount	Net Price	Ext Total
1	1.00	*MISC 67083 6SM	MI	\$6,291.00	0.00%	\$6,291.00	\$6,291.00

Item Notes

2 - 6 STEP TOWERS
2 - PLATFORMS
4 - GUARDRAILS
2 - M5W LADDERS
2 - SG GATES

Lead times are business days and determined based on business levels at time of order and may differ between time of quotation and placement of order .
Unless otherwise requested, entire order will ship at the longest lead time.

A Sales Tax Exemption Certificate for the delivery destination state must be provided with your purchase order, or sales tax will be added.

Terms: Net 30 Days (Upon Approval)

Tax Not Included
Freight Not Included

List Total:\$6,291.00

Net Total:\$6,291.00

We thank you for your interest in our products.

If you have any further questions regarding this quote please contact TIM WINKLER

at (810)-679-4400 Extension: 2805 or tim@cotterman.com

Please reference the quote and revision number at the top of this document in all correspondence.

Total:\$6,291.00



Kiewit

CP 142

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

September 9, 2021

To: Mr. Dan Harris

CP-KIEWIT-00178.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal – Diamond Plate Covers for Future Pipe Penetrations in SPB Floor

Dear Mr. Harris,

Attached you will find Kiewit's **Change Proposal for Installing Diamond Plate Covers for Future Pipe Penetrations in the SPB Floor** in the amount of **Eight Thousand Six Hundred Sixty-Six Dollars (\$8,666.00)**.

In consideration of the project receiving a favorable response from the Tennessee Department of Revenue regarding the broadening of the sales and use tax exemption, Kiewit has not included sales and use taxes on permanent materials provided within this cost proposal that are not covered by the current Industrial Machinery Sales and Use Tax Exemption Certificate. Should the project not receive a favorable ruling, sales and use taxes may need to be revisited for this cost proposal.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



CP: Diamond Plate Covers for Future Pipe Penetrations in SPB Floor

PREPARED BY: Galileo Rivera-Tobar

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Cover Future Openings and Pipe Penetrations						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Carpenter (Building)	2	EA	10.00	20	\$ 37.79	\$ 755.80		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 755.80
Foreman	1	EA	10.00	10	\$ 60.15	\$ 601.50		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 601.50
Welder	1	EA	10.00	10	\$ 70.15	\$ 701.50		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 701.50
Scan Floors for Potential Rebar/Conduit	1	EA	4.00	4	\$ 60.15	\$ 240.60		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 240.60
Material cost						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
316SS Checkered Plates	1.00	LS				\$ -		\$ -	\$ 4,995.00	\$ 4,995.00		\$ -		\$ -		\$ -	\$ 4,995.00
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
OTHER						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
STS - small tools, consumables, safety equip. (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 * 1.0975)	44	MHR				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 5.00
TAX: (9.75% of Material, Equipment, Other)																	\$ 21.45
SUBTOTALS				44		\$ 2,299.40		\$ -		\$ 4,995.00		\$ -		\$ -		\$ -	\$ 7,535.85
MARKUP %						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	\$ 1,130.38
SUBTOTALS WITH MARKUPS APPLIED						\$ 2,644.31		\$ 15.00%		\$ 5,744.25		\$ 15.00%		\$ 277.67		\$ 277.67	\$ 8,666.23
BOND																	
TOTAL																	\$ 8,666.00

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2021 Breakdown of Craft Wage Burden Rates

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Wage Type	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 40.00	\$ 60.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 24.00	\$ 36.00
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 3.07	\$ 4.60	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.15	\$ 3.22	\$ 1.84	\$ 2.76
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.61	\$ 2.42	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.13	\$ 1.69	\$ 0.97	\$ 1.45
Additional Wages	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence	\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 60.15	\$ 82.49	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 42.26	\$ 57.89	\$ 37.79	\$ 51.19

Wage Type	Pipefitter (Foreman)		Pipefitter		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 4.22	\$ 5.69	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07	\$ 2.15	\$ 3.22	\$ 3.05	\$ 4.12	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 2.22	\$ 2.99	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14	\$ 1.13	\$ 1.69	\$ 1.60	\$ 2.16	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14
Additional Wages	\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 72.38	\$ 93.91	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29	\$ 42.26	\$ 57.89	\$ 55.34	\$ 70.97	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29

Wage Type	Survey		Electrician	
	Straight	OT	Straight	OT
Labor - Base Wages	\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 2.53	\$ 3.80	\$ 2.95	\$ 3.95
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.33	\$ 1.99	\$ 1.55	\$ 2.07
Additional Wages	\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 47.84	\$ 66.27	\$ 53.97	\$ 68.46

Owner: Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

Project: 18.097 / FRANKLIN WRF
135 CLAUDE YATES DR.
FRANKLIN, TN 37064

COR# 40: ADDED CHECKERD PLATE

Adding (5) 316SS checkered plates per list from Jake Fuerbringer on 8/6/21. Stiffener angles figured under plates.

Adding (11) 316SS checkered plate for pipe caps for Jakes list.

Anchors ~~not~~ provided by HME

~~\$4,463.00~~

\$4,995.00

1: ADDED CHECKERD PLATE

TOTAL, THIS CHANGE ORDER REQUEST

~~\$4,463.00~~

\$4,995.00

This PCO impacts schedule duration, schedule impact to be mutually agreed upon between Contractor and HME prior to approval of any change order.
This PCO pricing is valid 14 calendars days from date of submittal.
This PCO excludes any items not specifically mentioned.
If this PCO is not approved prior to HME's execution of this scope of work interest shall be charged at 18% per annum until payment is made for change.
HME is not responsible or liable for any delays or damages for changes in the scope of work due to this PCO.

Approved By: Kiewit Infrastructure South Co.

Signed: _____

Date: _____

Submitted By: HME, Inc.

Signed: _____

Date: _____



Kiewit

CP 120

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 1, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203
CP-KIEWIT-00190.02

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Cost Proposal for RFI-314 Digesters Tank Mixing System – Piping Clarifications

Dear Mr. Harris,

Attached you will find Kiewit's cost proposal for changes in RFI-314 ADT Mixing System – Piping Clarifications in the amount of **Forty-One Thousand Seven Hundred Fifty-Seven Dollars (\$41,757.00)**

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

Cc: File
Michelle Hatcher

RFI-314 Digesters Tank Mixing System - Piping Modifications

PREPARED BY: Steve Davis															
DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
RF-314 Digesters Tank Mixing System - Piping Clarification															
Costs															
Material															
Ductile Iron pipe-Core and Main															
14"DI C110 FLG 90 BEND, T1/P-401 (14160)	3.0	EA					\$ 2,463.06	\$ 7,389.18						\$ 7,389.18	
14"DI C110 FLG BASE 90 BEND, T1/P-401 (14161)	3.0	EA					\$ 3,665.27	\$ 10,995.81						\$ 10,995.81	
14" x 4'-10 3/4"-DIP SPOOL, CL53 FLG X FLG, T1/P-401 (14120)	1.0	EA					\$ 1,523.52	\$ 1,523.52						\$ 1,523.52	
14" x 15'-4"-DIP SPOOL, CL53 FLG X FLG, T1/P-401 (14130)	1.0	EA					\$ 2,273.15	\$ 2,273.15						\$ 2,273.15	
14" x 08'-9 3/8"-DIP SPOOL, CL53 FLG X FLG, T1/P-401 (14131)	1.0	EA					\$ 1,606.63	\$ 1,606.63						\$ 1,606.63	
14" x 6'-8 3/4"-DIP SPOOL, CL53 FLG X FLG (14140)	1.0	EA					\$ 1,575.52	\$ 1,575.52						\$ 1,575.52	
14" x 8'-10 5/8"-DIP SPOOL, CL53 FLG X FLG (14151)	1.0	EA					\$ 1,268.00	\$ 1,268.00						\$ 1,268.00	
14" x 8'-1 9/16" DIP SPOOL, CL53 FLG X FLG (14150)	1.0	EA					\$ 1,393.93	\$ 1,393.93						\$ 1,393.93	
14" x 8'-7 1/16" DIP SPOOL, CL53 FLG X FLG (14150)	1.0	EA					\$ 1,575.52	\$ 1,575.52						\$ 1,575.52	
Field Fabricated Base 90D Bend Pipe Supports	3.0	EA					\$ 1,278.00	\$ 3,834.00						\$ 3,834.00	
Labor for Fabrication of Base 90D Bend Pipe Support	3.0	EA					\$ 55.34	\$ 1,328.16						\$ 1,328.16	
Shop Fabricated Pipe Supports (7/PS 1118)	3.0	EA					\$ 4,066.67	\$ 12,200.01						\$ 12,200.01	
Credits															
Material															
Ductile Iron pipe & expansion joints-Core and Main															
14" x 1'-6" DIP SPOOL, CL53 FLG X FLG, T1/P-401 (14120)	-1.0	EA					\$ 892.50	\$ (892.50)						\$ (892.50)	
14" x 1'-6" DIP SPOOL, CL53 FLG X FLG, T1/P-401 (14130)	-2.0	EA					\$ 2,273.15	\$ (4,546.30)						\$ (4,546.30)	
14" x 4'-FT DIP SPOOL, CL53 FLG X FLG (14140)	-2.0	EA					\$ 1,130.54	\$ (2,261.08)						\$ (2,261.08)	
14" x 9'-FT DIP SPOOL, CL53 FLG X FLG (14150)	-2.0	EA					\$ 1,606.63	\$ (3,213.26)						\$ (3,213.26)	
14" Expansion Joints (no credit given for expansion joints=returnable)							\$ -	\$ -						\$ -	
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.															
OTHER															
S/S - small tools, consumables, safety equip, (\$5 per Direct Manhour, plus 9.75% sales tax: Formula = Total Direct Labor Manhour Subtotal * \$5.00 + 1.0975)		MHR			24.00									\$ 120.00 \$ 120.00	
TAX: (9.75% of Material, Equipment, Other)															
														\$ 11.70 \$ 11.70	
BOND (2% of total)															
														\$ -	
SUBTOTALS															
MARKUP %							\$ 1,328.16	\$ 34,852.13	\$ -	\$ -	\$ -	\$ 120.00	\$ 120.00	\$ 5,445.04 \$ 36,311.99	
							15.00%	15.00%	15.00%	5.00%	15.00%	15.00%	15.00%		
SUBTOTALS WITH MARKUPS APPLIED \$41,757.03															
BOND \$41,757.00															
TOTAL \$41,757.00															

Attachment A-1

PROJECT NAME: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT

ROW	QTY	SIZE	DESCRIPTION	UNIT	TOTAL	EXT WEIGHT	AREA
13930							
13940							
13950	2	04"X01'-00"	DI WALL PIPE FLG (TFS) X WC X FLG (TFS), T1/P-401	\$ 281.96	\$ 563.92	88.00	DI INTERIOR
13960							
13970							
13970			8"-14" PUMP DISCH TO NOZZLES (M-83)				
13990	3	10X8"	DI C110 FLG CONCENTRIC REDUCER, T1/P-401	\$ 710.28	\$ 2,130.84	380.94	DI INTERIOR
14010	3	10"X04'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401 w/1-1/2" TAP	\$ 808.33	\$ 2,424.99	738.00	DI INTERIOR
14030	3	10"X02'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401 w/1-1/2" TAP	\$ 690.24	\$ 2,070.72	474.00	DI INTERIOR
14050	3	14X10"	DI C110 FLG TEE, T1/P-401 w/1" TAP	\$ 3,973.37	\$ 11,920.11	1,200.00	DI INTERIOR
14060	2	14"X03'-06"	DIP SPOOL C153 FLG X PE, T1/P-401	\$ 711.20	\$ 1,422.40	514.00	DI INTERIOR
14120	2	14"X01'-06"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 892.50	\$ 1,785.00	480.00	DI INTERIOR
14130	2	14"X16'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 2,273.15	\$ 4,546.30	2,452.00	DI INTERIOR
14140	2	14"X04'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 1,130.54	\$ 2,261.08	820.00	DI INTERIOR
14150	2	14"X09'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 1,606.63	\$ 3,213.26	1,500.00	DI INTERIOR
14160	4	14"	DI C110 FLG 90 BEND, T1/P-401	\$ 2,280.61	\$ 9,122.44	1,160.00	DI INTERIOR
14170	4	14"	DI C110 FLG 45 BEND, T1/P-401	\$ 1,292.05	\$ 5,168.20	880.00	DI INTERIOR
14180	2	14"X11'-00"	DIP SPOOL C153 FLG X PE, T1/P-401	\$ 1,425.33	\$ 2,850.66	1,634.00	DI INTERIOR
14190	2	14"	DI C153 MJ 90 BEND, P-401	\$ 1,089.42	\$ 2,178.84	404.10	DI UNDERGROUND
14200	2	14"X02'-00"	DIP SPOOL C153 FLG X PE, T1/P-401	\$ 568.37	\$ 1,136.74	410.00	DI INTERIOR
14210	2	14"X01'-00"	DI WALL PIPE FLG (TFS) X WC X FLG (TFS), T1/P-401	\$ 1,034.89	\$ 2,069.78	436.00	DI INTERIOR
14220	2	14X8"	DI C110 FLG TEE, T1/P-401	\$ 3,137.92	\$ 6,275.84	780.00	DI INTERIOR
14230	2	14X12"	DI C110 FLG CONCENTRIC REDUCER, T1/P-401	\$ 2,017.22	\$ 4,034.44	443.12	DI INTERIOR
14240	2	12"X15'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 1,511.09	\$ 3,022.18	1,858.00	DI INTERIOR
14250	2	12"	DI C110 FLG TEE, T1/P-401	\$ 1,808.81	\$ 3,617.62	770.00	DI INTERIOR
14260	4	12X8"	DI C110 FLG CONCENTRIC REDUCER, T1/P-401	\$ 914.13	\$ 3,656.52	661.36	DI INTERIOR
14270	4	08"X13'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 835.13	\$ 3,340.52	1,976.00	DI INTERIOR
14330							
14340							
14340			8" SIG (M-85)				
14350	2	08"X19'-06"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 1,135.83	\$ 2,271.66	1,430.00	DI INTERIOR
14360	2	08"X14'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 881.39	\$ 1,762.78	1,056.00	DI INTERIOR
14380							
14390							
14390			6" DS (M-83)				
14400	2	05"X17'-06"	DIP SPOOL C153 FLG X PE, T1/P-401	\$ 703.35	\$ 1,406.70	872.00	DI INTERIOR
14410	2	05"	DI C110 FLG 11 1/4 BEND, T1/P-401	\$ 362.13	\$ 724.26	110.00	DI INTERIOR
14420	2	05"X01'-06"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 206.96	\$ 413.92	136.00	DI INTERIOR
14430	2	05"X01'-00"	DI WALL PIPE FLG (TFS) X WC X FLG (TFS), T1/P-401	\$ 349.87	\$ 699.74	122.00	DI INTERIOR
14440	2	05"	DI C110 FLG X MJ ADAPTER, T1/P-401	\$ 342.08	\$ 684.16	---	DI UNDERGROUND
14460	2	05"	EBAA 1100 MEGALUG ACC SET	\$ 38.41	\$ 76.82	36.00	DI UNDERGROUND
14470							
14480			6" WALL PIPE & PLUG VALVE (M-83)				
14490	2	05"X01'-00"	DIP SPOOL C153 FLG X PE, T1/P-401	\$ 110.78	\$ 221.56	80.00	DI INTERIOR
14500	2	05"X01'-00"	DI WALL PIPE FLG (TFS) X WC X FLG (TFS), T1/P-401	\$ 349.87	\$ 699.74	122.00	DI INTERIOR
14510	2	05"X01'-00"	DIP SPOOL C153 FLG X FLG, T1/P-401	\$ 189.00	\$ 378.00	112.00	DI INTERIOR



SOUTHEAST REGION TREATMENT PLANT DIVISION

- ALABAMA - FLORIDA - GEORGIA - KENTUCKY - NORTH CAROLINA - SOUTH CAROLINA - TENNESSEE -

6525 US HWY 301 NORTH
TAMPA, FL. 33610
OFFICE: 813.621.1971
FAX: 813.621.3280

Owner City of Franklin, Tennessee
Contractor Kiewit Water Facilities South
Ref RFI 314

SEQ	Qty	Description	Unit Price	Total Price
10		<u>ALL ITEMS QUOTED ARE AIS COMPLIANT</u>		
20				
30				
40				
50		<u>Before RFI 314</u>		
60	-3 14" * 6'DIP SPOOL CL53 FLG X PE, T1/P-401		\$ 1,109.29	\$ (3,327.87)
70	0 14" * 10"FLG ECC RED C110 P401/T1		\$ 3,562.92	\$ -
80	-3 14" * 4'DIP SPOOL CL53 FLG X FLG, T1/P-401 w/1-1/2" TAP		\$ 1,123.68	\$ (3,371.04)
90	-3 14" * 2'DIP SPOOL CL53 FLG X FLG, T1/P-401 w/1-1/2" TAP		\$ 568.37	\$ (1,705.11)
100	-2 14" * 1'-6"DIP SPOOL CL53 FLG X FLG, T1/P-401		\$ 520.76	\$ (1,041.52)
110	-2 14" - 4'DIP SPOOL CL53 FLG X FLG, T1/P-401		\$ 1,123.70	\$ (2,247.40)
120	-4 14"DI C110 FLG 90 BEND, T1/P-401		\$ 2,463.06	\$ (9,852.24)
130	0 14"DI C110 FLG BASE 90 BEND, T1/P-401		\$ 3,665.27	\$ -
140				
150		<u>After RFI 314</u>		
160	3 14" * 4'-9"DIP SPOOL CL53 FLG X PE, T1/P-401		\$ 1,280.13	\$ 3,840.39
170	3 14" * 10"FLG ECC RED C110 P401/T1		\$ 3,562.92	\$ 10,688.76
180	3 14" * 4'-8"DIP SPOOL CL53 FLG X FLG, T1/P-401 w/1-1/2" TAP		\$ 1,268.00	\$ 3,804.00
190	3 14" * 2'-2.5"DIP SPOOL CL53 FLG X FLG, T1/P-401 w/1-1/2" TAP		\$ 847.83	\$ 2,543.49
200	1 14" * 4'-10.25"DIP SPOOL CL53 FLG X FLG, T1/P-401		\$ 1,523.93	\$ 1,523.93
210	2 14" * 6'-10.25"DIP SPOOL CL53 FLG X FLG, T1/P-401		\$ 1,575.52	\$ 3,151.04
220	7 14"DI C110 FLG 90 BEND, T1/P-401		\$ 2,463.06	\$ 17,241.42
230	3 14"DI C110 FLG BASE 90 BEND, T1/P-401		\$ 3,665.27	\$ 10,995.81
240				
250		<u>TOTAL CHANGE</u>		\$ 32,243.66
260				
270				
280				



Kiewit Infrastructure South Co.
135 Claude Yates Drive
Franklin, Tennessee 37064
ATTN: Abdul Albashitie

Subject: (3) Detail 7/PS11.8 Supports

Mr. Albashitie,

SAC submits the following proposal in the following amounts:

\$12,200.00 for HDG Supports

~~\$19,450.00 for 316 SST Supports~~

This proposal is in response to the request for additional supports initially received on October 04, 2021.

Scope

(3) Detail 7/PS11.8 Supports

Notes

- All material is AIS compliant
- Includes changes to Engineering Drawings
- Includes anchors and all other hardware necessary for installation
- Includes freight to the jobsite
- Excludes any local, state, or federal taxes
- Pricing valid for 30 days from date of proposal

If Kiewit Infrastructure approves of the above proposal and would like SAC Incorporated to proceed with this scope of work, please provide written authorization to proceed.

Please contact me if additional information is required.

Thanks,

Hannah Griffin
Project Management Coordinator
hgriffin@sacincorporated.com
802-448-5471

X	229 #
Y	1723 #
Z	0 #

PROCESS CWF

PS11.8

X	55 #
Y	413 #
Z	0 #

PROCESS OS

316 SST

X	207 #
Y	1554 #
Z	0 #

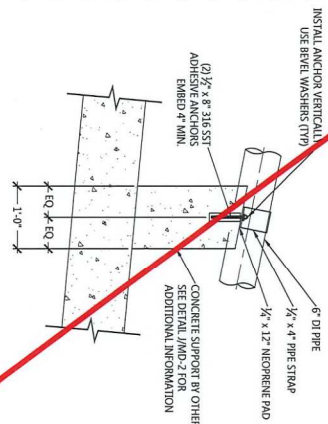
PROCESS DNS

316 SST

X	0 #
Y	3108 #
Z	0 #

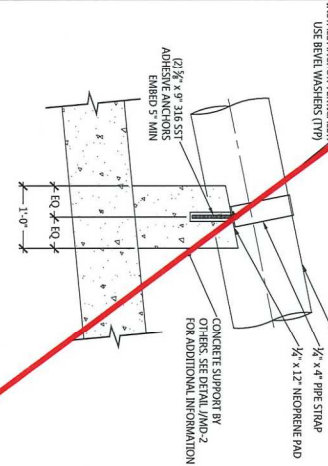
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316 SST



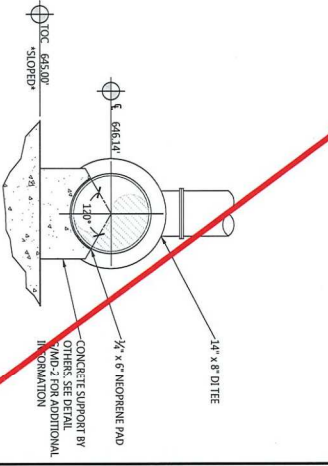
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QTY: 2



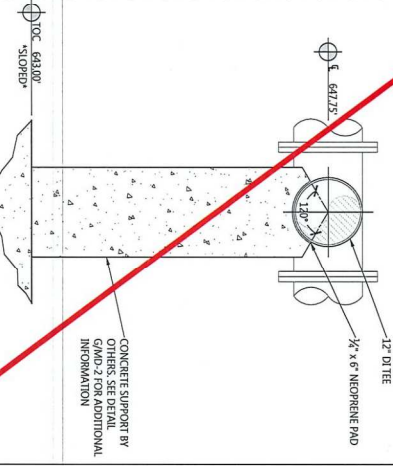
3 CONSTRUCTION DETAIL

QTY: 4



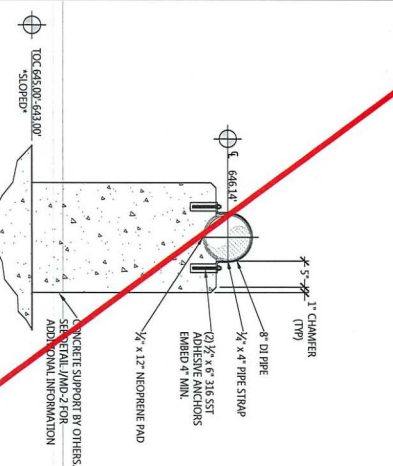
1 CONSTRUCTION DETAIL

QTY: 2



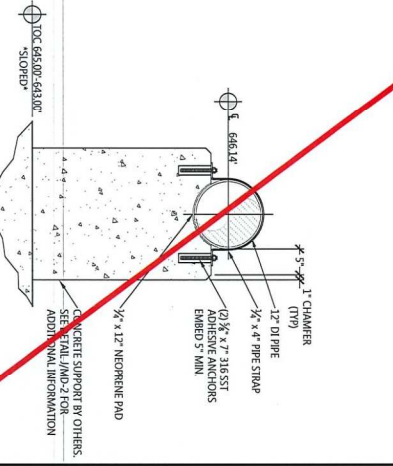
6 CONSTRUCTION DETAIL

QTY: 2



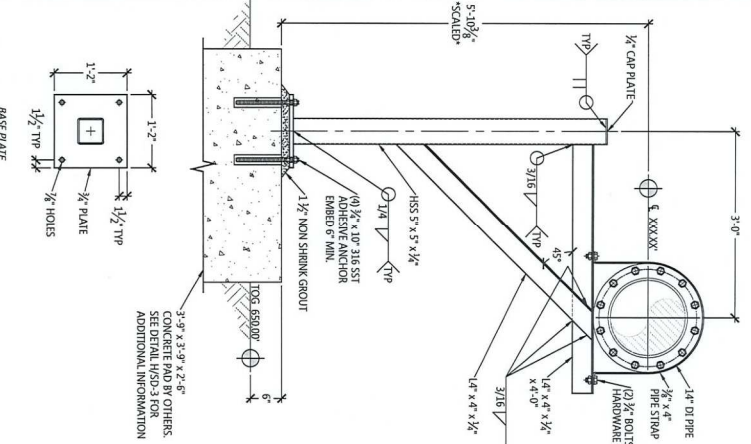
4 CONSTRUCTION DETAIL

QTY: 4



2 CONSTRUCTION DETAIL

QTY: 2



7 CONSTRUCTION DETAIL

QTY: 3

MARK	DATE	DESCRIPTION
1	02/15/21	FRP REVIEW COMMENTS
2	04/27/21	REVIEW: SUB # D-15140-009-B

INCORPORATED
135 Talcott Road
Williamstown, VT 05495
Phone (802) 448-5700
Fax (802) 419-3030

CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT

DESIGNED BY:	B.L.L.
DRAWN BY:	L.M./J.O.L.M.
CHECKED BY:	S.M.Z.
SCALE:	AS SHOWN
DATE:	NOV. 16, 2021
DRAWING NO.	PS11.8
FILE:	1710A.PS11.8 - PS11.9

HME, INC.

HAAS METAL ENGINEERING

2828 NW Button Road
Topeka, KS 66618
Phone: 785-235-1524



Change Order Request

Owner: Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

Project: 18.097 / FRANKLIN WRF
135 CLAUDE YATES DR.
FRANKLIN, TN 37064

COR# 48: ADDED MATERIAL

\$3,834.00

ADDING MATERIAL FOR (3) PIPE SUPPORTS. MATERIAL TO BE PROVIDED IN STOCK LENGTHS AND FILED CUT AND FABRICATED. MATERIAL TO BE GALVANIZED. LEAD TIME ON MATERIAL TO BE APROX. 4-5 WEEKS. MATERIAL IS AS FOLLOWS.

30LF HSS 4"x4"x1/4"
10LF C12x20.7
6ea 10"x10"x1/2" Baseplates with holes

PRICE ALSO INCLUDES THE 5/8" SS EPOXY ANCHORS.

1: ADDED MATERIAL

TOTAL, THIS CHANGE ORDER REQUEST

\$3,834.00

Detail 5 / PS11.7 (material ordered and shipped loose from HME)

This PCO impacts schedule duration, schedule impact to be mutually agreed upon between Contractor and HME prior to approval of any change order.

This PCO pricing is valid 14 calendars days from date of submittal.

This PCO excludes any items not specifically mentioned.

If this PCO is not approved prior to HME's execution of this scope of work interest shall be charged at 18% per annum until payment is made for change.

HME is not responsible or liable for any delays or damages for changes in the scope of work due to this PCO.

Approved By: Kiewit Infrastructure South Co.

Submitted By: HME, Inc.

Signed: _____

Signed: _____

Date: _____

Date: _____



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 9, 2022

To: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CP-KIEWIT-00208.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for RFI 530 – BNR Diffuser Piping Conflicts

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for the response to RFI 530 – BNR Diffuser Piping in the amount of **Two Thousand Seven Hundred Eighty-Three Dollars (\$2,783.00)**.

This proposal is for modifying the 8" stainless steel diffuser piping in both BNR Zones #1 and #2 as detailed per RFI530.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

Cc: File
Michelle Hatcher

STUD	PREPARED BY: Michael Pachulic
------	-------------------------------

RFI-530 BNR Diffuser Piping Change Proposal.xls

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2021 Breakdown of Craft Wage Burden Rates

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Wage Type	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 40.00	\$ 60.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 24.00	\$ 36.00
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 3.07	\$ 4.60	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.52	\$ 3.67	\$ 2.15	\$ 3.22	\$ 2.15	\$ 3.22	\$ 1.84	\$ 2.76
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.61	\$ 2.42	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.32	\$ 1.93	\$ 1.13	\$ 1.69	\$ 1.13	\$ 1.69	\$ 0.97	\$ 1.45
Additional Wages	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ 2.85	\$ 2.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence	\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 60.15	\$ 82.49	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 47.67	\$ 64.43	\$ 42.26	\$ 57.89	\$ 42.26	\$ 57.89	\$ 37.79	\$ 51.19

Wage Type	Pipefitter (Foreman)		Pipefitter		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages	\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 4.22	\$ 5.69	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07	\$ 2.15	\$ 3.22	\$ 3.05	\$ 4.12	\$ 4.06	\$ 5.46	\$ 3.05	\$ 4.07
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 2.22	\$ 2.99	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14	\$ 1.13	\$ 1.69	\$ 1.60	\$ 2.16	\$ 2.13	\$ 2.87	\$ 1.60	\$ 2.14
Additional Wages	\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 72.38	\$ 93.91	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29	\$ 42.26	\$ 57.89	\$ 55.34	\$ 70.97	\$ 70.15	\$ 90.56	\$ 55.34	\$ 70.29

Wage Type	Survey		Electrician	
	Straight	OT	Straight	OT
Labor - Base Wages	\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden	\$ 0.24	\$ 0.24	\$ 0.24	\$ 0.24
Tax Burden	\$ 2.53	\$ 3.80	\$ 2.95	\$ 3.95
Retirement Burden	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.66
Health Burden	\$ 1.73	\$ 1.73	\$ 1.73	\$ 1.73
Insurance Burden	\$ 1.33	\$ 1.99	\$ 1.55	\$ 2.07
Additional Wages	\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total	\$ 47.84	\$ 66.27	\$ 53.97	\$ 68.46

Request for Information

Project Name: Franklin WRF Modifications & Expansion Project		
Owner's Project No.: 2017-0264	CDM Smith Project No.: 14915-96594-WRF	
Contractor: Kiewit Infrastructure South Co.	RFI No.: 530	
	Date: Monday, December 06, 2021	
Subject: Zone 1 and 2 Diffuser Pipe		
Spec Section: 11383	Drawing: M-22	Detail:

QUESTION:	
In BNR3 after cleaning of the basin the existing sump pit has been found to be in conflict with the diffuser pipe and supports. Kiewit has the following questions: 1. In Zone 1 will Kiewit be able to cut and remove a section of pipe from piece 2152-22 and add it to piece 2152-24 so that the simple supports will fall short of the sump? 2. In Zone 2 the sump piping is differing from contract DWG and Kiewit would like to know if 1/8-1/4 of an inch clearance between the SST diffuser pipe and the ductile iron discharge pipe is adequate spacing? If not, please state the required clearance necessary. If the above question concerns an interpretation of the Contract Documents, the Contractor's interpretation is: Please advise Kiewit on how to proceed. Please note changes to the design of the support and piping will affect project cost and schedule.	
Please Respond by This Date: Tuesday Dec. 28, 2021	
Submitted by Contractor: Austin Tamson, Kiewit	Date: 12/07/21
Received by (CDM Smith):	Date:

RESPONSE:	
1. Contractor's proposal is acceptable. 2. Provide min. 3" clearance between ex. DI discharge piping and new stainless piping. Details to be reviewed/finalized with CDM Smith onsite staff.	
By: Brian Karmasin	Date: 12/08/2021
Distribution: Contractor, Owner, File, Field, RFI Notebook	

[EXTERNAL] RE: BNR 3 Conflict (19-2152)

KL

Kevin LaPean <klapean@aquariustechnologies.com>

To

Austin,Tamson

Cc

William,McMillen; Mitchell,Hickey

PDF

Aquarius BNR3 conflict.pdf

2 MB

Tue 12/7/2021 11:23AM

↩ Reply

↶ Reply All

→ Forward

⋮

Austin,

Both of the changes proposed in BNR 3 are acceptable.

Please provide a marked-up drawing with the final dimensions so that we can incorporate these changes into the as-built drawings.



Kevin J. LaPean, P.E.
Director of Engineering

262-284-0112 Direct
414-807-3443 Cell

From: Austin.Tamson <Austin.Tamson@kiewit.com>
Sent: Tuesday, December 7, 2021 11:00 AM
To: Kevin LaPean <klapean@aquariustechnologies.com>
Cc: William.McMillen <William.McMillen@kiewit.com>; Mitchell.Hickey <Mitchell.Hickey@kiewit.com>
Subject: BNR 3 Conflict

Kevin,

We have discovered a conflict in our BNR 3 Diffuser pipe. If you see what is attached you will see that our Zone 1 and 2 piping are in conflict with the existing sump. We have proposed a solution and are wondering if this will be acceptable to go forward with. Please let me know if you have any questions or need clarification on anything.

Thank you,



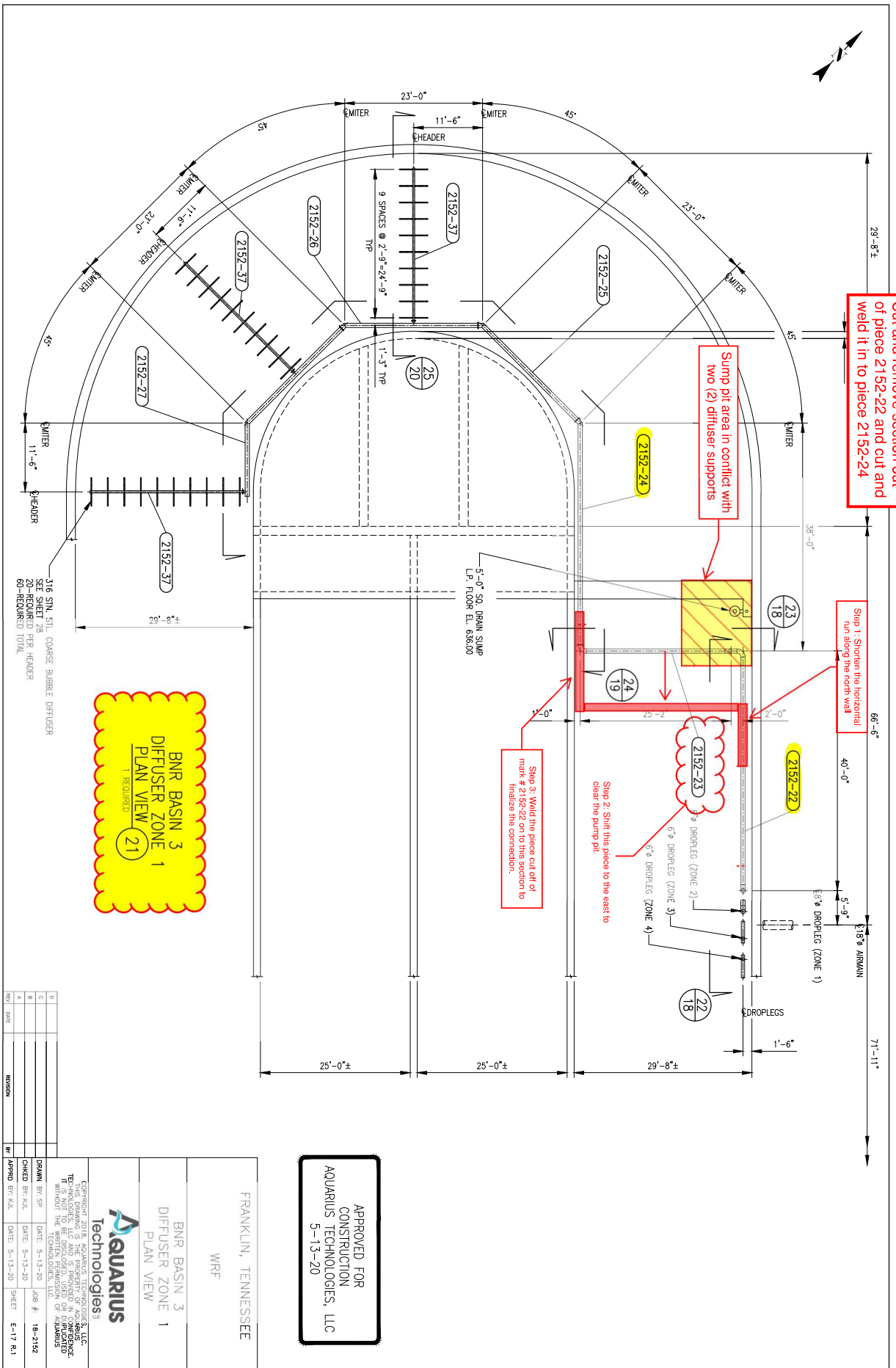
Austin Tamson
Field Engineer

Kiewit Water Facilities South
Franklin WRF Project
135 Claude Yates Drive, Franklin, TN 37064

Step 1: Shorten the horizontal

Step 2: Shift this piece to the east to clear the pump pit.

step 3. weld the piece cut on or mark # 2152-22 on to this section to finalize the connection.



APPROVED FOR
CONSTRUCTION
AQUARIUS TECHNOLOGIES, LLC
5-13-20

FRANKLIN, TENNESSEE

WRF

BNR BASIN 3
DIFFUSER ZONE 1
PLAN VIEW

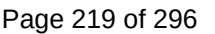


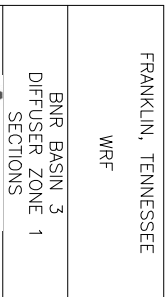
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TECHNOLOGIES, LLC.	
DRAWN BY: SP	DATE: 5-13-20
CHKED BY: KJL	DATE: 5-13-20
JOB #: 18-2152	

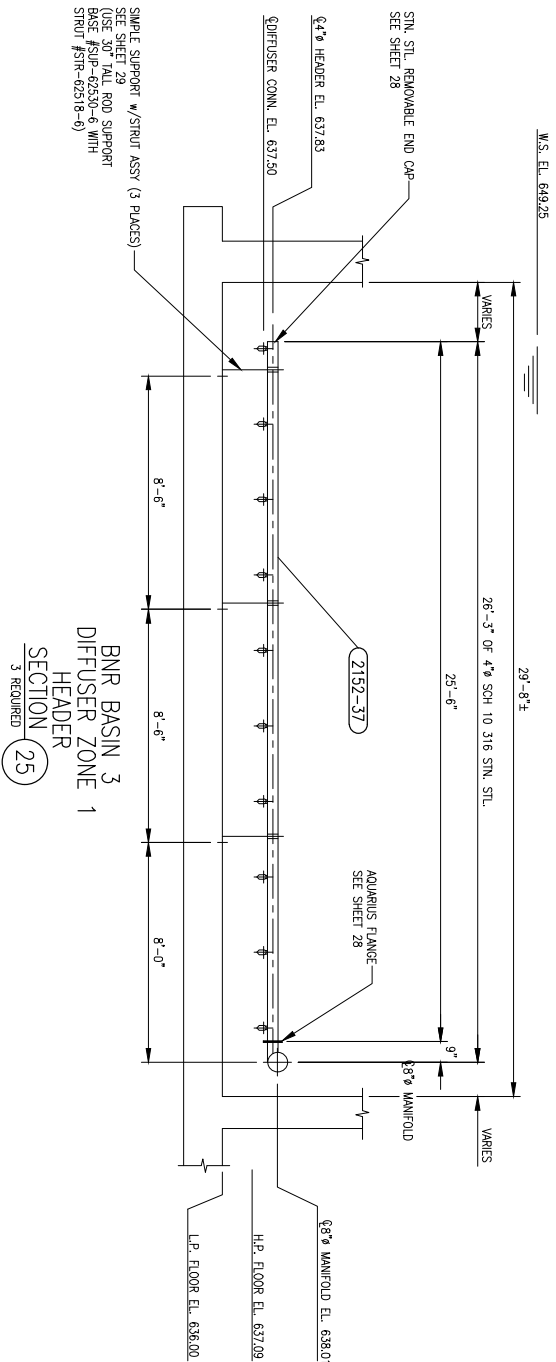
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5-13-20





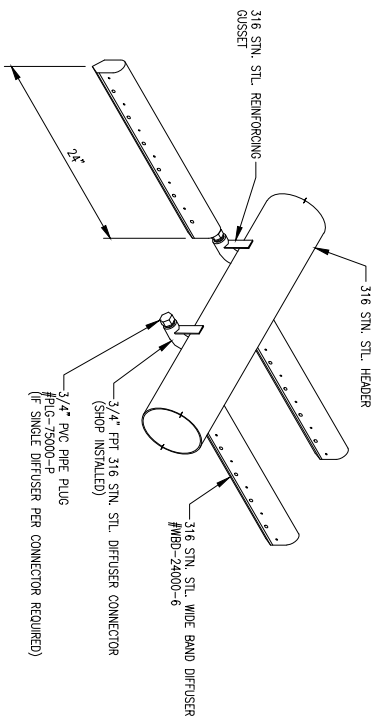
Question #1 Reference DWG



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5-13-20

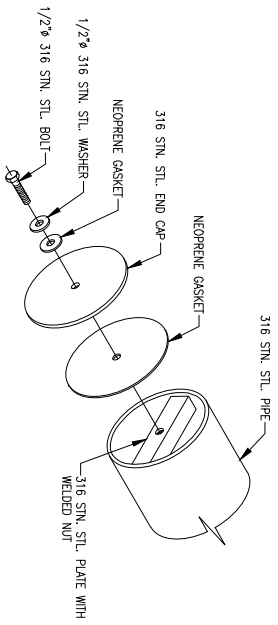
FRANKLIN, TENNESSEE			
WRF			
BNR BASIN 3			
DIFFUSER ZONE 1			
SECTIONS			
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DESIGNED BY: SP	DATE: 5-13-20	JOB #:	18-2142
CHECKED BY: KAL	DATE: 5-13-20	SHEET:	E-20 R.1
REV	DATE	REVISION	
1			
2			
3			
4			
5			

Question #1 Reference DWG



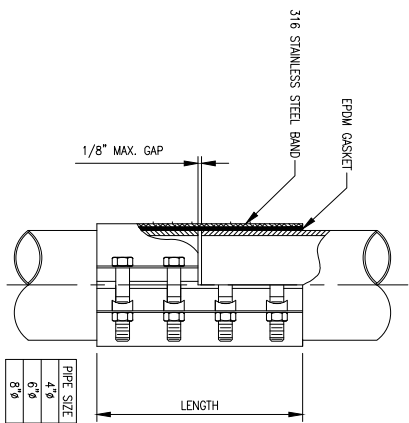
316 STN. STL. COARSE BUBBLE DIFFUSER

- Installation Procedure:
1. Apply thread dressing such as NEVER-SEIZ or equal to threads of diffuser before installation.
 2. Install diffusers on connectors and tighten so that "v" shaped deflector is facing down.
 3. After installation, the diffusers must be leveled $\pm 1/8"$ to a horizontal plane. To level, loosen flanges and rotate the header pipe.
 4. For a single diffuser per connector, install $3/4"$ pvc pipe.



STN. STL. REMOVABLE END CAP

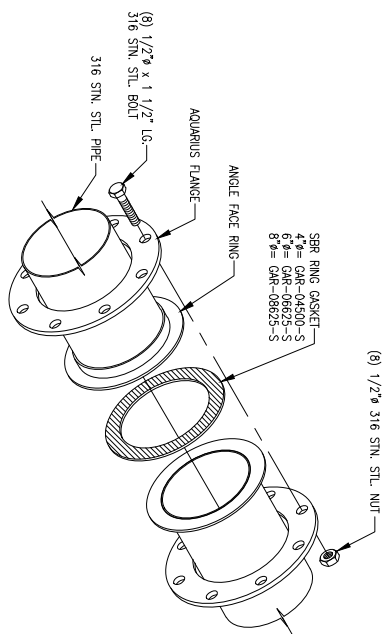
ALL COMPONENTS ARE SHOP INSTALLED



CLAMP COUPLING

Refer to installation instructions included with each clamp

PIPE SIZE	316 S.S. PART#	LENGTH
4"	CSD-04500-6	8"
6"	CSD-06625-6	8"
8"	CSD-08625-6	12"



AQUARIUS FLANGE

REV	DATE	REVISION
1		
2		
3		
4		
5		

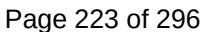
DESIGNED BY: SP	DATE: 5-13-20	CHECKED BY: KAL	DATE: 5-13-20	APPROVED BY: KAL	DATE: 5-13-20
FRANKLIN, TENNESSEE			WRF		
DETAILS			SHEET E-28 R.1		

APPROVED FOR
CONSTRUCTION
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5-13-20



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Page 223 of 296

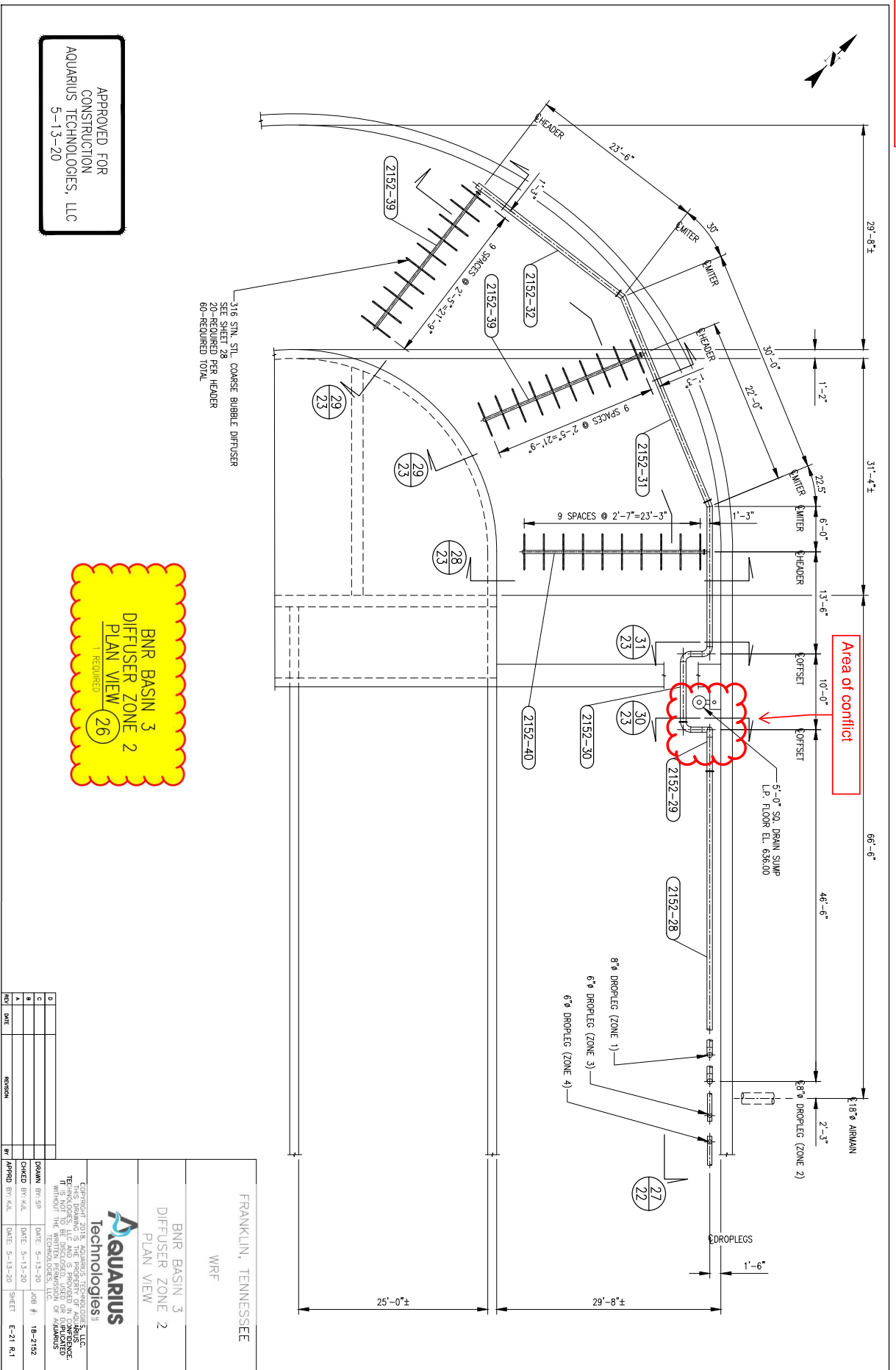


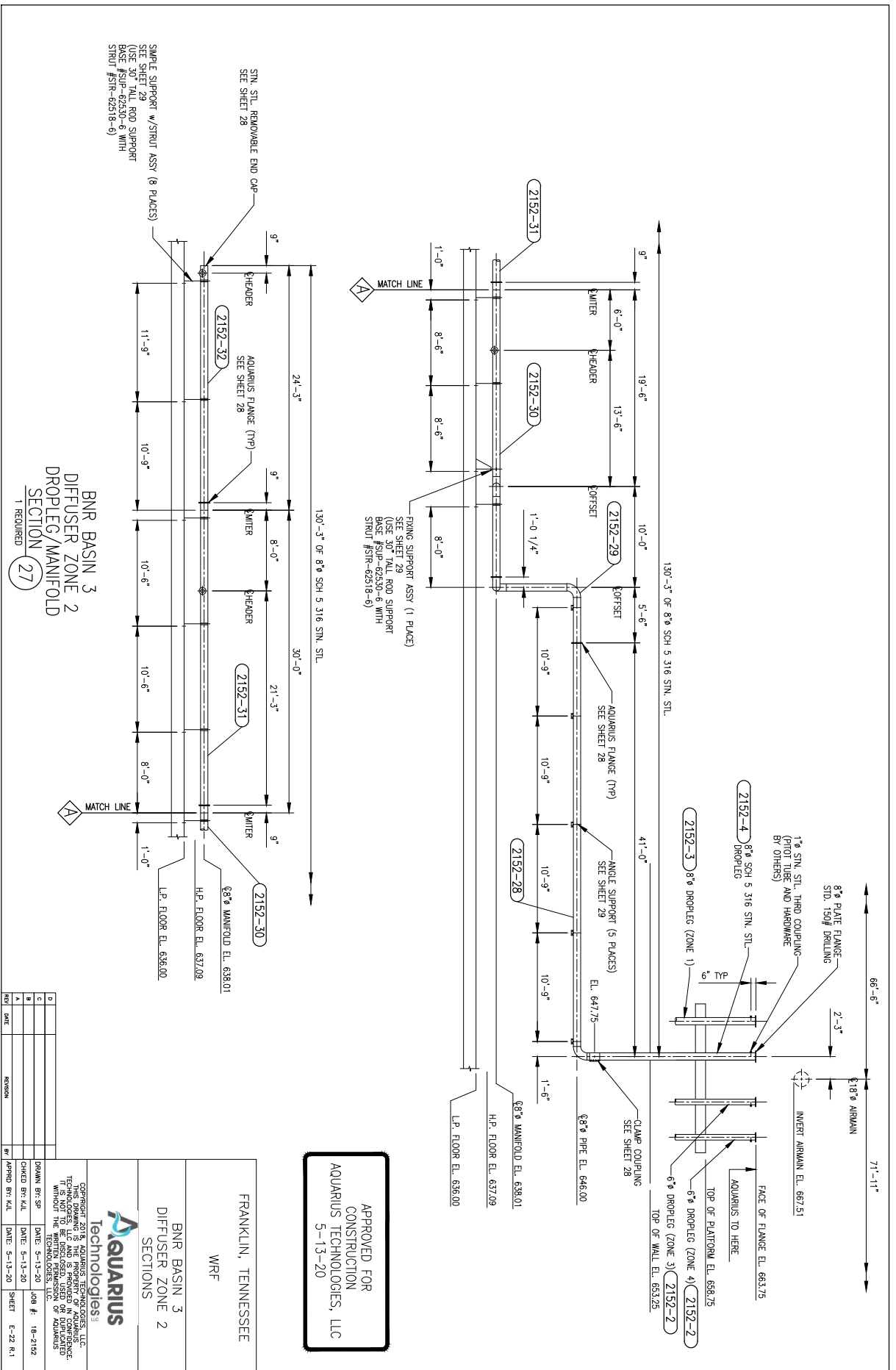
Question #2

Zone 2

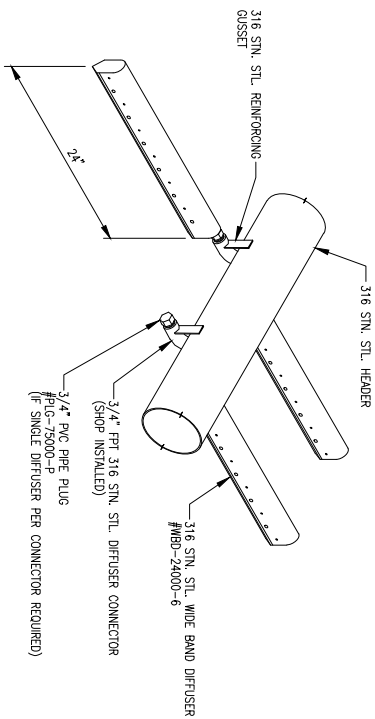
Sump Discharge

Zone 2 pipe will be right up against the sump discharge pipe. Will this be okay or do we need to have adequate spacing between separate pipes



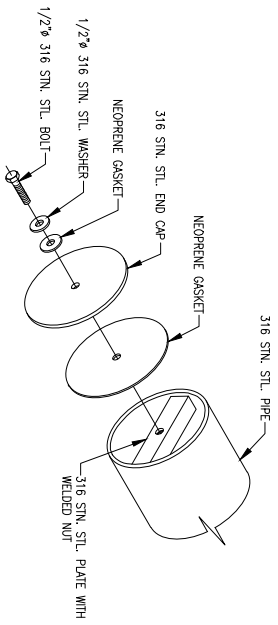


Question #2 Reference DWG



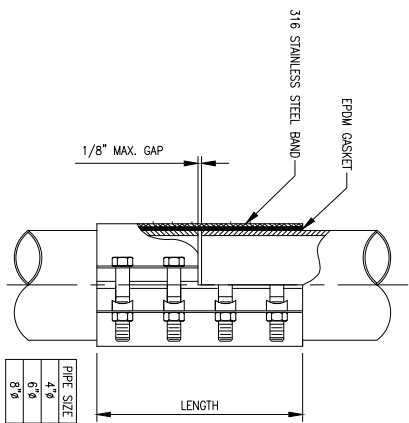
316 STN. STL. COARSE BUBBLE DIFFUSER

- Installation Procedure:
1. Apply thread dressing such as NEVER-SEIZ or equal to threads of diffuser before installation.
 2. Install diffusers on connectors and tighten so that "v" shaped deflector is facing down.
 3. After installation, the diffusers must be leveled $\pm 1/8"$ to a horizontal plane. To level, loosen flanges and rotate the header pipe.
 4. For a single diffuser per connector, install $3/4"$ pvc pipe.



STN. STL. REMOVABLE END CAP

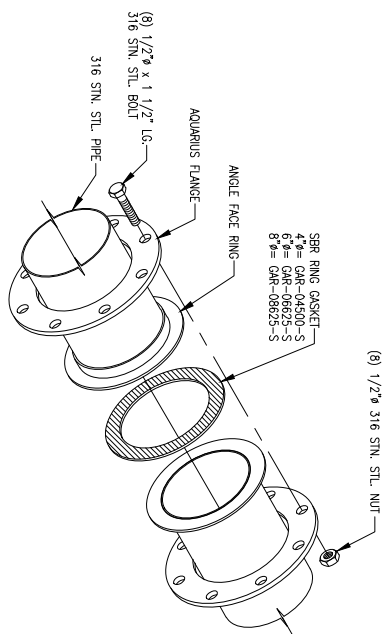
ALL COMPONENTS ARE SHOP INSTALLED



CLAMP COUPLING

Refer to installation instructions included with each clamp

PIPE SIZE	316 S.S. PART#	LENGTH
4"	CSD-04500-6	8"
6"	CSD-06625-6	8"
8"	CSD-08625-6	12"



AQUARIUS FLANGE

3					
2					
1					
REV	DATE	REVISION	BY	APPROD BY	KAL

FRANKLIN, TENNESSEE

WRF

DETAILS

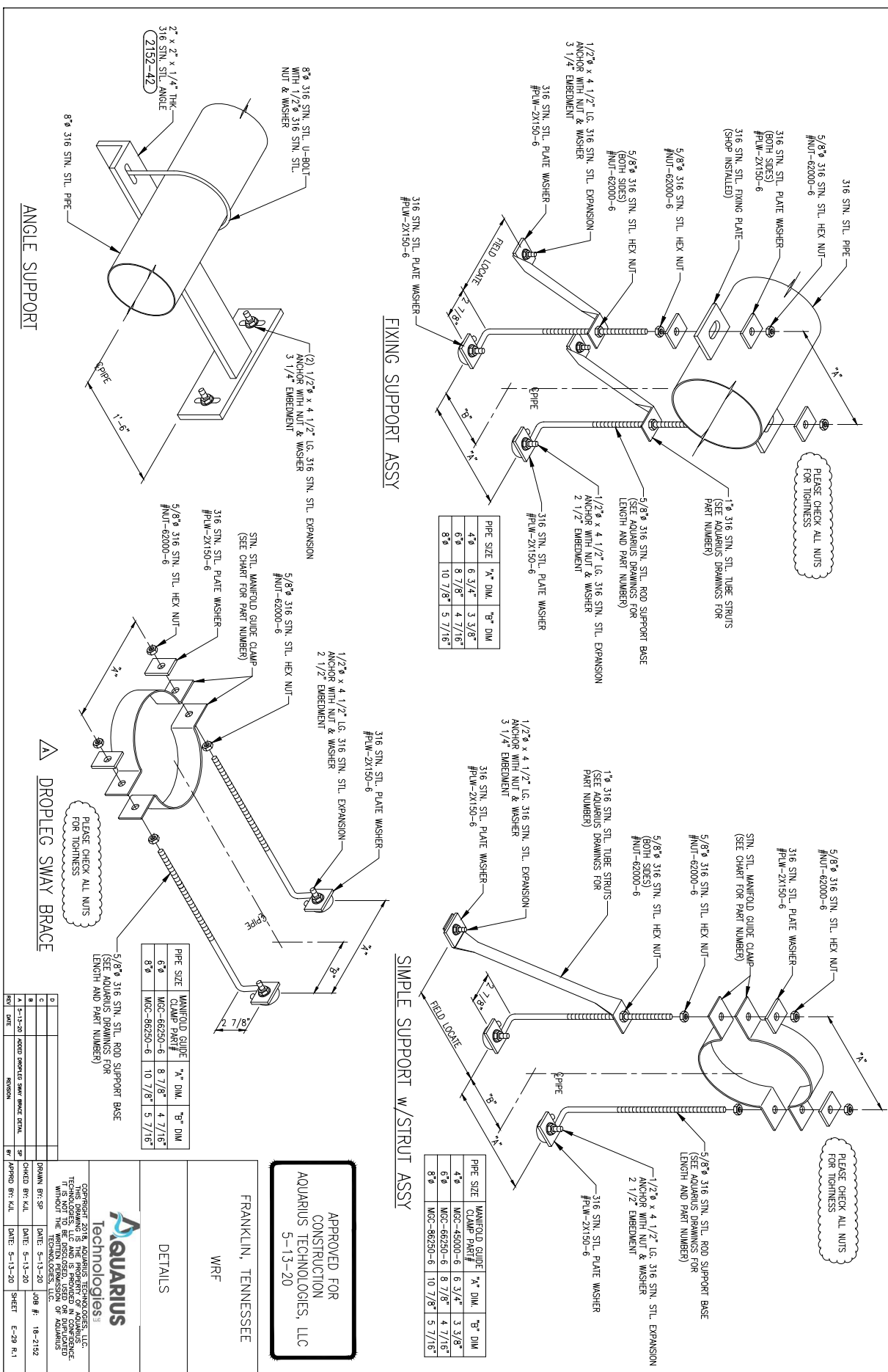
AQUARIUS Technologies

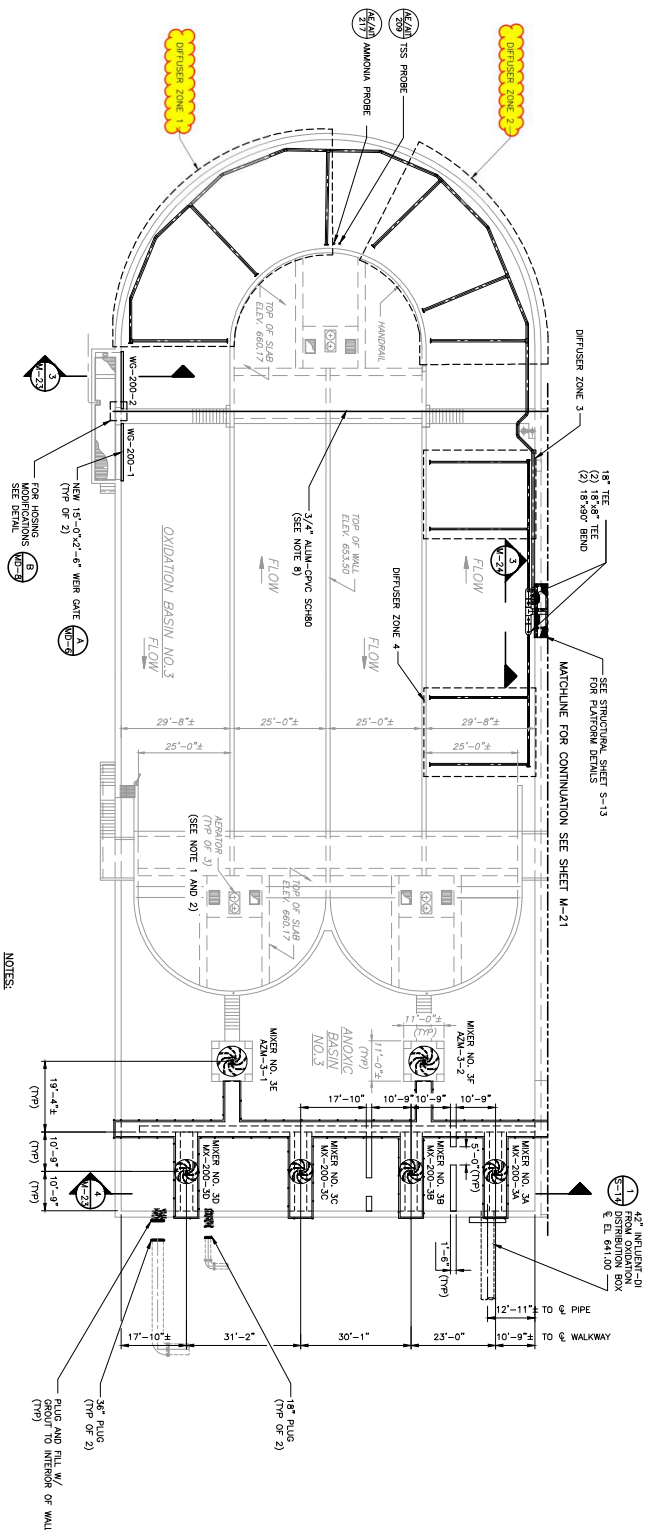
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DRAWN BY: SP	DATE: 5-13-20	JOB #:	18-2152
CHECKED BY: KAL	DATE: 5-13-20	SHEET:	E-28 R.1

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CONSTRUCTION
AQUARIUS TECHNOLOGIES, LLC
5-13-20

Page 229 of 296





PLAN
1/8" = 1'-0"

- NOTES:
1. SHOTS (3 TOTAL) FOR MECHANICAL SURFACE AERATION IN BASIN NO. 3 SHALL BE MODIFIED BY MANUFACTURER (WESTEC) TO PROVIDE AERATION CAPABILITY OF 1.4 AERATION CAPABILITY PER 1000 GPM OF FLOW. PROVIDE SHOP DRAWING SUBMITTAL OF PROPOSED MODIFICATIONS.
 2. CONTRACTOR SHALL SURVEY THE FOLLOWING LOCATIONS AT EACH EXISTING AND PROPOSED LOCATION OF THE AERATION SYSTEM. MODIFICATIONS DEVOTED IN NOTE 1: TOP OF CONCRETE AT AERATOR AND TOP OF EXISTING GEARBOX MOUNTING PLATE.
 3. REFER TO SPECIFICATION SECTION 11.3.3 REGARDING DIFFUSER ZONES.
 4. DIFFUSER FLOOR AND WALL PILING SUPPORT TO BE PROVIDED BY CONTRACTOR. SEE SECTION 11.3.4 AND SECTION 11.3.5 FOR ADDITIONAL DETAILS AND REQUIREMENTS.
 5. PIPE SUPPORTS/FRAMING INDICATED ON THE DRAWINGS ARE SHOWN ONLY TO CONVEY THE INTENT OF THE DESIGN FOR A PARTICULAR LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PIPE SUPPORTS AND FRAMING INCLUDING THOSE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STRUCTURAL SUPPORTS AND FRAMING INCLUDING THOSE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STRUCTURAL SUPPORTS AND FRAMING INCLUDING THOSE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STRUCTURAL SUPPORTS AND FRAMING INCLUDING THOSE SHOWN.
 6. SUGGESTED ALUM PILING LAYOUT. CONTRACTOR IS RESPONSIBLE FOR ALUM PILING LAYOUT, MONITORING, AND PROVIDING PROTECTIVE COVERS AND FRAMING FOR THE PILING LAYOUT. CONTRACTOR SHALL SUBMIT PLAN FOR ENGINEER FOR APPROVAL.
 7. ALL PVC PIPE, CPVC PIPE, AND HOISING ABOVE GROUND AND INSIDE THE CHEMICAL JUNCTION BOX SHALL BE HEAT TRACED AND INSULATED PER SECTION 15.4.6.
 8. PVC AND CPVC PILING TO BE COATED PER DIVISION 9 SPECIFICATIONS.

NO.	DATE	DRWN	CHKD	CONFORMED DRAWING	REMARKS	DESIGNED BY: B. KAMATH	CHECKED BY: B. KAMATH	APPROVED BY: T. KAY	DATE: APRIL 2018	PROJECT NO. 2017-0264	CITY OF FRANKLIN, TENNESSEE	FRANKLIN WRF	MODIFICATIONS AND EXPANSION PROJECT	COP CONTRACT NO. 2017-0264	BNR BASIN NO. 3 MODIFICATIONS	PLAN	PROJECT NO. 2017-0264	FILE NAME: M022ABPL.dwg	SHEET NO. M-22
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Kiewit

CP 139

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 25, 2022

To: Mr. Dan Harris CP-KIEWIT-000225.00
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal for BNR 1 and 2 DO Probes and Fiber Optic Terminations and Testing (PLC 1 to Admin Network Cabinet)

Dear Mr. Harris,

Kiewit is submitting the attached change proposal for additional work performed by Control Instruments, Inc. (C2i). C2i performed troubleshooting, repairs, and cleaning and calibrations for the DO probes at BNR Basin No. 1 and No. 2 and terminations and testing for additional fiber optic cable from PLC 1 to the Administration Building Network Cabinet in the amount of **Eight Thousand One Hundred Twenty-One Dollars (\$8,121.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

DATE: May 25, 2022

PREPARED BY: Steve Davis

000-CostProposal-FranklinWRF-TEMPLATE



NATIONWIDE SYSTEM INTEGRATION

Providing solutions since 1962



5253 OAKDALE ROAD • SMYRNA, GEORGIA 30082
MAILING ADDRESS: 4480H SOUTH COBB DRIVE • PMB 301 • SMYRNA, GA 30080-6984
PHONE: 404/351-1085 • FAX: 404/794-5784 • EMAIL: admin@c2iinc.com

FLORIDA OPERATIONS OFFICE:

23 S. DILLINGHAM AVENUE, STE. A
KISSIMMEE, FL 34741
PHONE: 404/351-1085

FIELD OFFICES: Georgia
Florida
Tennessee

22 March, 2022

Kiewit Infrastructure South Co.
4405 International Blvd, NW
Suite C-101
Norcross, GA 30093

Attn: Thaddeus Selby

PROJECT: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT
OWNER: CITY OF FRANKLIN, TN
ENGINEER: CDM SMITH, INC.
CONTRACT: 103925-SC-004
C2i JOB NO: 09181015

Reference: Time-and-Material Directed Work

Dear Thad:

C2i has performed multiple Time & Material (T&M) work per your direction.

As agreed, engineering work performed by Jonathon Johnson is billed at \$175/hr. Field service work performed by Cliff Wills is billed at \$150/hr.

Field service reports from both Jonathon Johnson and Cliff Wills are attached; however, a summary of work is listed below:

Field Service:	Labor- 48 hours @ \$150/Hr.	\$7,200.00
	Materials – 774.00 x 1.15%	<u>534.00</u>
	Total	\$7,734.00

C2i has attached an invoice in the amount of \$7,734.00.

If you have any questions, please let us know.

Sincerely,

Mark G. Healey
CONTROL INSTRUMENTS, INC./C2i
MGH/jw

cc: Jonathon Johnson/Cliff Wills/Wes Wood/Sue Adams/Karron Sikes – C2i



NATIONWIDE SYSTEM INTEGRATION

Nationwide
System
Integration

5253 OAKDALE ROAD • SMYRNA, GEORGIA 30082
MAILING ADDRESS: P.O. BOX 93643 • ATLANTA, GEORGIA 30377
PHONE: 404/351-1085 • FAX: 404/794-5784 • EMAIL: admin@c2iinc.com

Field Service Report

Name: Clifton Wills		Dates: 3/1-3/25	
Company Visited:		Project: Franklin WTP	Job #: 1015
Contact Name: Jonathon		Tel No.: 423-827-9170	
Warranty: No	Startup: Yes	Other: NA	Date Req.: Same as onsite dates.
Reason for Visit: T&M EXSITING INSTRUMENTS.			

Service Performed: Clifton Wills Performed services on behalf of Kewitt for the City of Franklin. Cleaned and Calibrated Basln 1 DO probe. 6/19-Changed Basin 1 DO sensors tip and recalibrated. Total 4hrs. 3/23-24-Trouble shot Basin 2 DO meter. Contacted Aquamatrix for help setting up meter. I had to install a power supply to loop pwr sensor after cutting pwr and splicing in DC Pwr supply wired up existing meter and calibrated. 16hrs. 5/21-troubleshot basin 2 DO meter not reading correctly. Found pwr wire from transmitter to sensor to be pulled from terminal. Temp repaired due to terminal being broke and transmitter needing sent off for repair. 4HRS. TOTAL time 24Hrs
--

Service Performed by: Clifton Wills	Date:
--	--------------

Project Delays:

Potential Issues:



NATIONWIDE SYSTEM INTEGRATION

Nationwide
System
Integration

5253 OAKDALE ROAD • SMYRNA, GEORGIA 30082
MAILING ADDRESS: P.O. BOX 93643 • ATLANTA, GEORGIA 30377
PHONE: 404/351-1085 • FAX: 404/794-5784 • EMAIL: admin@c2ilinc.com

Field Service Report

Name: Clifton Wills		Dates: 6/3,12/16-172021	
Company Visited:		Project: Franklin WTP	Job #:1015
Contact Name: Jonathon		Tel No.: 423-827-9170	
Warranty: No	Startup: Yes	Other: NA	Date Req.: Same as onsite dates.
Reason for Visit: T&M FIBER TERMINATIONS AND TESTING			

Service Performed: Clifton Wills
Additional Fiber terminations and testing outside of original scope. Terminated and tested 24 fiber terminations from/to PLC1 to Admin Network cabinet. Total time 8 hours. EST material cost \$464.00
Terminated Four remote Cambi panels to main Cambi panel and tested fiber. 16hrs EST material cost \$310.00
TOTAL time 24hrs Total material cost \$774.00

Service Performed by: Clifton Wills	Date:
-------------------------------------	-------

Project Delays:

Potential Issues:

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: May 11, 2022

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 71 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: Wash Hose Stations **CITY PROJECT NO.:** 2017-0264

REFERENCE: M-77

DESCRIPTION:

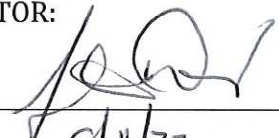
Provide wash hose stations in the Digester Building Pump Gallery (A-105) as shown on the attached markup to Sh. M-77.

CDM SMITH:

By: 

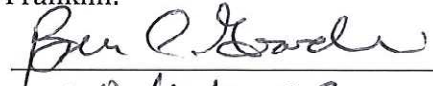
Date: 8/10/22

CONTRACTOR:

By: 

Date: 8/11/22

City of Franklin:

By: 

Date: 08/11/2022

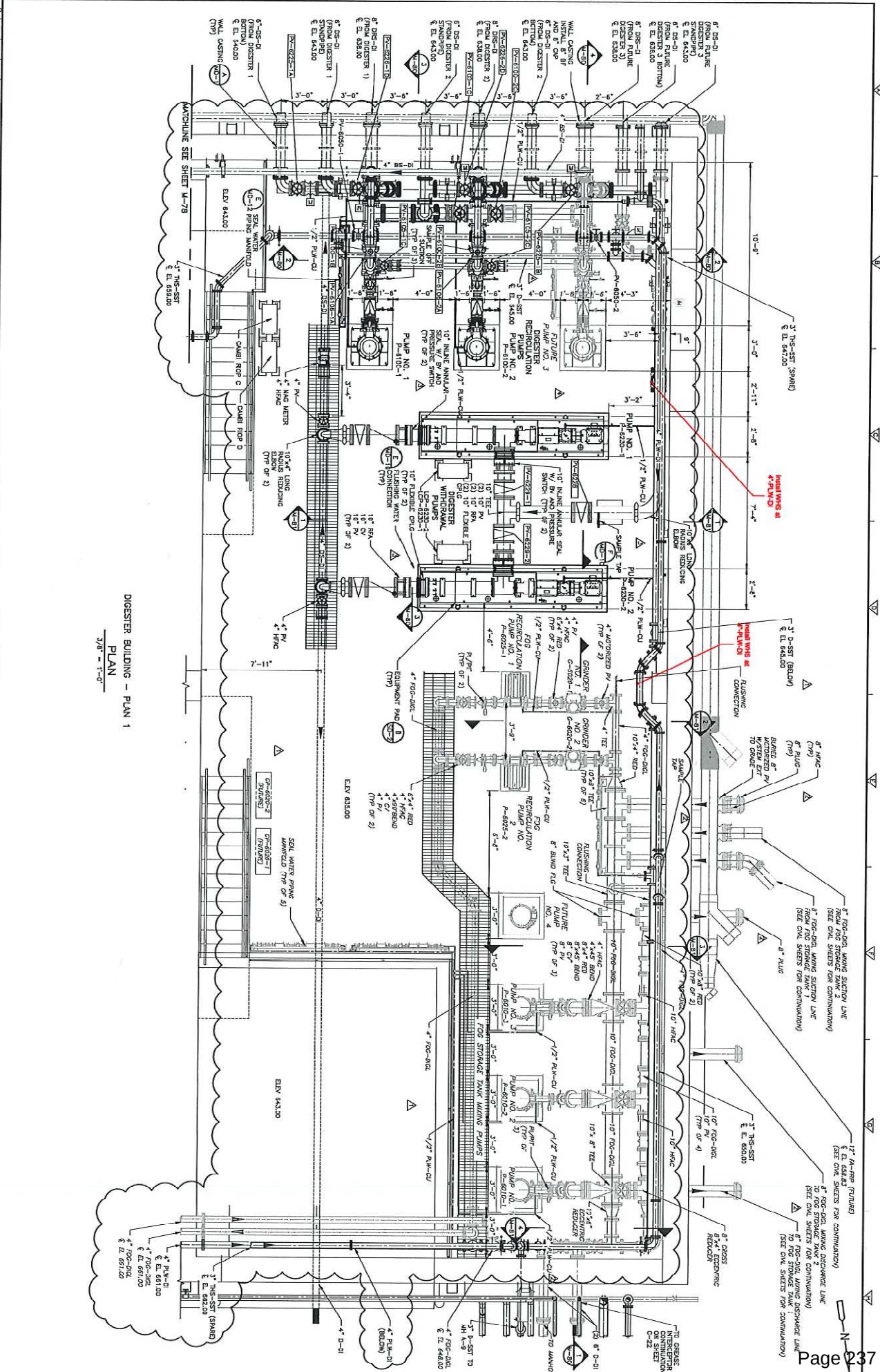
NO.	DATE	BY	CHKD	DESCRIPTION
1	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
2	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
3	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
4	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
5	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
6	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
7	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
8	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
9	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION
10	08/28/20	LM	LM	ISSUED FOR CONSTRUCTION

CDM Smith
Franklin WRF
Franklin, TN 37068
Phone: 615.555.1100
Fax: 615.555.1101

CITY OF FRANKLIN, TENNESSEE
FRANKLIN WRF
MODIFICATIONS AND EXPANSION PROJECT
COP CONTRACT NO. 2017-0264

DIGESTER BUILDING
ENLARGED PLAN 1

CONFORMED DRAWING - AUGUST 2021





Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

June 14, 2022

To: Mr. Dan Harris

CP-KIEWIT-00227.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: CCA71 - Wash Hose Stations in Digester Building

Dear Mr. Harris,

Attached you will find Kiewit's proposal for CCA71 - Wash Hose Stations in Digester Building in the amount of **Eleven Thousand, One Hundred Sixty-Three Dollars (\$11,163.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

CONSTRUCTION CHANGE AUTHORIZATION

TO:	Mr. Steve Davis Project Manager Kiewit Water Facilities South 4405 International Blvd., NW, Suite C-101 Norcross, Georgia 30093 (770) 940-8044	FROM:	CDM Smith 210 25 th Ave. N. Suite 1102 Nashville, TN 37203 (615) 320-3161
DATE:	May 11, 2022		
PROJECT:	City of Franklin, Tennessee Franklin WRF Modifications & Expansion Project		
CCA NUMBER:	71	CDM SMITH PROJ. NO.:	14915-231666
SUBJECT:	Wash Hose Stations	CITY PROJECT NO.:	2017-0264
REFERENCE:	M-77		

DESCRIPTION:

Provide wash hose stations in the Digester Building Pump Gallery (A-105) as shown on the attached markup to Sh. M-77.

CDM SMITH:

CONTRACTOR:

By: _____

By: _____

Date: _____

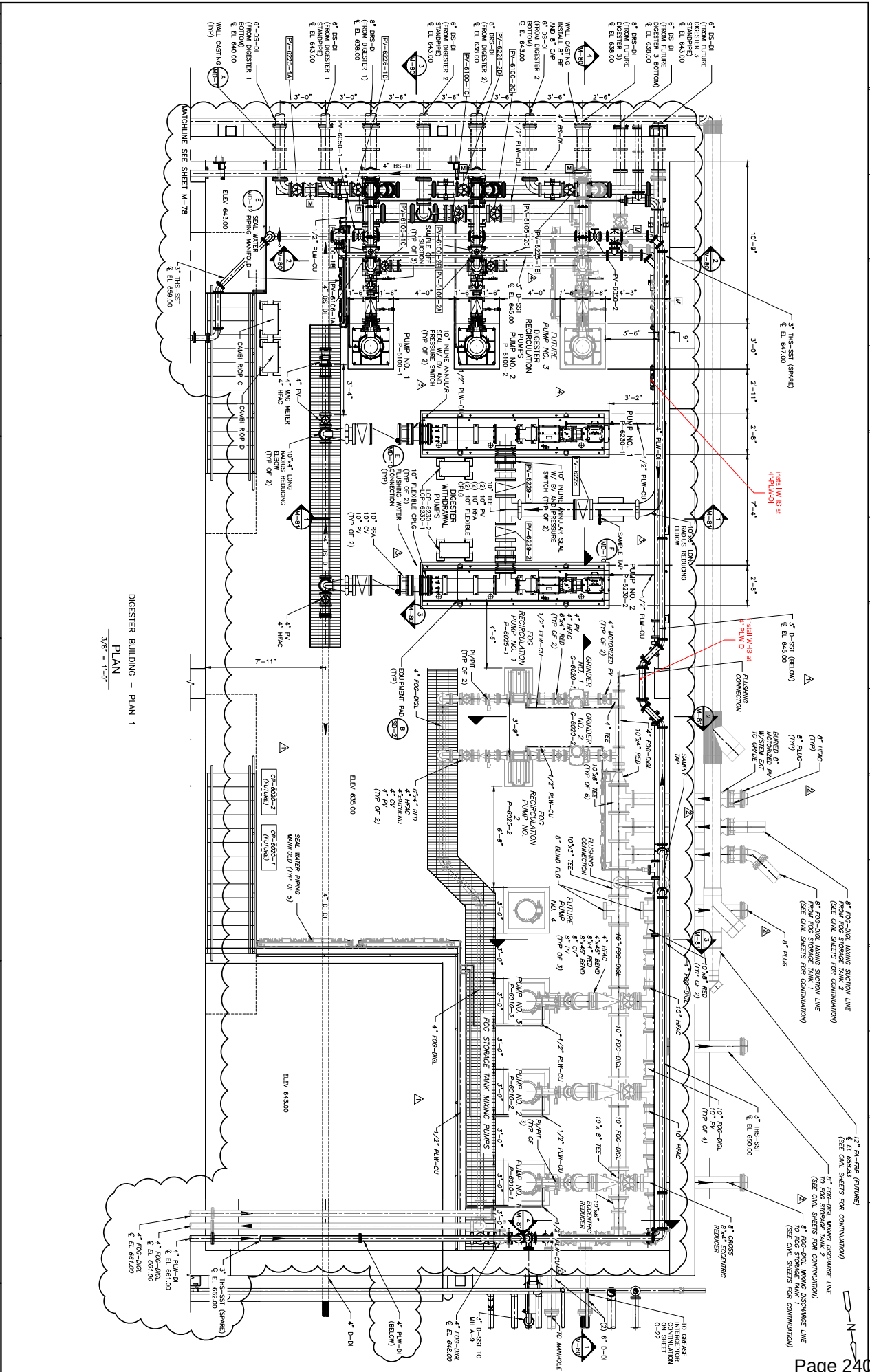
Date: _____

City of Franklin:

By: _____

Date: _____

NO.	DATE	BY	CHK	DESCRIPTION	REVISIONS
1	08/28/20	LB	OS	CONSTRUCTION CHANGE AUTHORIZATION (CC-A)	
2	08/28/20	LB	OS	CONSTRUCTION CHANGE AUTHORIZATION (CC-A)	
3	08/28/20	LB	OS	CONSTRUCTION CHANGE AUTHORIZATION (CC-A)	
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100	08/28/20	LB	OS	CONSTRUCTION CHANGE AUTHORIZATION (CC-A)	





CCA71 - DB Wash Hose Stations

PREPARED BY: Michael Pachillo

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
CCA71 - DB Wash Hose Stations																	
Install 2ea 1-1/2"x4" Tapping Saddles	2.00	EA	0.50	1.0	\$ 70.97	\$ 70.97	\$ -	\$ -	\$ 166.61	\$ 333.22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 404.19
Install 30ft of 1-1/2" Copper Pipe and Supports	30.00	LF	2.00	60.0	\$ 70.97	\$ 4,258.20	\$ -	\$ -	\$ 29.49	\$ 884.61	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,142.81
Install 2ea Vacuum Breakers	2.00	EA	1.00	2.0	\$ 70.97	\$ 141.94	\$ -	\$ -	\$ 393.92	\$ 787.84	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 929.78
Install 2ea Hose Racks	2.00	EA	2.00	4.0	\$ 70.97	\$ 283.88	\$ -	\$ -	\$ 622.78	\$ 1,245.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,529.44
Install 2ea 1-1/2" Hoses with accessories	2.00	EA	2.00	4.0	\$ 70.97	\$ 283.88	\$ -	\$ -	\$ 513.61	\$ 1,027.22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,311.10
						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STS - small tools, consumables, safety equip, (\$5 per Direct Manhour, plus 8.75% sales tax; Formula = Total Direct Labor Manhour Subtotal * \$5.00 + 1.0975)		MHR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.00	\$ 355.00	\$ 355.00
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TAX: (8.75% of Material, Equipment, Other)																	
																\$34.61	\$ 34.61
BOND (2% of total)																	
						\$ 5,038.87		\$ -		\$ 4,278.45		\$ -		\$ -		\$ 389.61	\$ 9,706.93
SUBTOTALS																	
MARKUP %						\$ 15.00%		\$ 15.00%		\$ 15.00%		\$ 15.00%		\$ 5.00%		\$ 15.00%	\$ 1,456.04
SUBTOTALS WITH MARKUPS APPLIED																	
						\$5,794.70				\$4,920.22						\$448.05	\$11,162.97
BOND																	
TOTAL																	
																	\$11,163.00

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Kiewit Infrastructure South Co
Hourly Rates (Confidential)
2022 Breakdown of Craft Wage Burden Rates

Wage Type	Burden %	Foreman		Dozer		Loader/Roller		Forklift/Crane		Excavator		Pipelayer		Laborer	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 44.00	\$ 66.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 28.00	\$ 42.00	\$ 30.00	\$ 45.00	\$ 24.00	\$ 36.00
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 3.50	\$ 5.25	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.61	\$ 3.81	\$ 2.23	\$ 3.34	\$ 2.39	\$ 3.58	\$ 1.91	\$ 2.87
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 2.61	\$ 3.92	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.95	\$ 2.84	\$ 1.66	\$ 2.49	\$ 1.78	\$ 2.67	\$ 1.43	\$ 2.14
Additional Wages		\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ 2.82	\$ 2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subsistence		\$ 12.84	\$ 12.84	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 65.25	\$ 90.30	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 48.02	\$ 65.11	\$ 42.53	\$ 58.48	\$ 44.81	\$ 61.90	\$ 37.98	\$ 51.64

Wage Type	Burden %	Pipefitter (Foreman)		Pipefitter/Welder		Millwright		Carpenter (Building)		Carpenter (Heavy)		Iron Worker (Building)		Iron Worker (Heavy)	
		Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT	Straight	OT
Labor - Base Wages		\$ 38.55	\$ 57.83	\$ 36.55	\$ 54.83	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 28.00	\$ 42.00	\$ 36.55	\$ 54.83	\$ 26.77	\$ 40.16
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 4.38	\$ 5.91	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.28	\$ 2.23	\$ 3.34	\$ 3.16	\$ 4.28	\$ 4.22	\$ 5.67	\$ 3.16	\$ 4.23
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 3.27	\$ 4.41	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.19	\$ 1.66	\$ 2.49	\$ 2.36	\$ 3.19	\$ 3.15	\$ 4.23	\$ 2.36	\$ 3.15
Additional Wages		\$ 16.42	\$ 16.42	\$ 16.42	\$ 16.42	\$ 11.71	\$ 11.71	\$ -	\$ -	\$ 11.71	\$ 11.71	\$ 16.42	\$ 16.42	\$ 12.94	\$ 12.94
Subsistence		\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35	\$ 8.35
Total		\$ 73.25	\$ 95.21	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.82	\$ 42.53	\$ 58.48	\$ 55.87	\$ 71.82	\$ 70.97	\$ 91.79	\$ 55.87	\$ 71.12

Wage Type	Burden %	Survey		Electrician	
		Straight	OT	Straight	OT
Labor - Base Wages		\$ 33.00	\$ 49.50	\$ 25.94	\$ 38.91
PTO Burden		\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18
Tax Burden	7.96%	\$ 2.63	\$ 3.94	\$ 3.06	\$ 4.10
Retirement Burden		\$ 0.48	\$ 0.48	\$ 0.48	\$ 0.48
Health Burden		\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.63
Insurance Burden	5.94%	\$ 1.96	\$ 2.94	\$ 2.29	\$ 3.06
Additional Wages		\$ -	\$ -	\$ 12.55	\$ 12.55
Subsistence		\$ 13.92	\$ 13.92	\$ 8.35	\$ 8.35
Total		\$ 53.80	\$ 72.59	\$ 54.48	\$ 69.25

HEADING 25
CCA71 DB Hose Wash Stations
HOSE BIBB STATION

SHEET M-31 & M-39, M-40				Back Calculated				
				Unit Price	Total	Subtotal Category	Subtotal	Unit Price
30 LF	1 1/2"	COPPER	20'-0"	\$ 14.34	\$ 430.20	Pipe	\$ 884.62	\$ 29.49
10 EA	1 1/2"	COPPER	PLAIN END	\$ 8.10	\$ 81.00	Pipe		
2 EA	1 1/2"	COPPER	C&MIP	\$ 9.63	\$ 19.26	Pipe		
2 EA	1 1/2"	BRONZE	ADAPTER	\$ 50.23	\$ 100.46	Pipe		
2 EA	1 1/2"	BRONZE	0'-10"	\$ 11.53	\$ 23.06	Pipe		
2 EA	1 1/2"	BRONZE	0'-2"	\$ 45.36	\$ 90.72	Pipe		
2 EA	1 1/2"	BRONZE	THREAD	\$ 18.27	\$ 36.54	Pipe		
2 EA	1 1/2"	BRONZE	THREAD	\$ 45.36	\$ 90.72	Pipe		
2 EA	1 1/2"	BRONZE	UNION	\$ 18.27	\$ 36.54	Pipe		
2 EA	1 1/2"	BRONZE	HOSE THREAD ADAPTER	\$ 453.59	\$ 907.18	Hose	\$ 1,027.23	\$ 513.61
2 EA	1 1/2"	RUBBER	50'-0"	\$ 550.00	\$ 1,100.00	Hose Rack	\$ 1,245.56	\$ 622.78
2 EA	1 1/2"	STN'L STEEL	REINFORCED	\$ 347.88	\$ 695.77	Vacuum Breaker	\$ 787.84	\$ 393.92
2 EA	1 1/2"	BRONZE	WALL MOUNTED	\$ 147.14	\$ 294.28	Saddle Tap	\$ 333.22	\$ 166.61
2 EA	1 1/2"	BRONZE	HOSE RACK					
2 EA	1 1/2"	BRONZE	VACUUM BREAKER					
2 EA	1-1/2"x4"	Ductile	THREAD	\$ 147.14	\$ 294.28	Saddle Tap	\$ 333.22	\$ 166.61
Tapping Saddle - 1CM Style 404								



File #: 21-03508

DATE: August 26, 2022
TO: Capital Investment Committee
FROM: Eric Stuckey, City Administrator
Michelle Hatcher, Director of Water Management

SUBJECT:

Consideration Of COF Contract No. 2022-0217, With C&T Engineering For Water Reclamation Facility Liquids Equipment Maintenance Services.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning a maintenance contract with C&T Engineering for services at the Water Reclamation Facility (WRF).

BACKGROUND/STAFF COMMENTS:

As the processes of the newly expanded WRF is brought online and the City provides the approval for partial substantial, the contract documents indicates the City will begin ownership of the equipment (beginning the one-year warranty period), and maintenance of the equipment.

The Maintenance Technician position at the WRF is the person who typically handles maintenance required for this equipment. Approximately 10-months ago, the employee who was in this position changed positions and the Department has had the position advertised since then, with no apparent applicants to fill it.

At this point, the Water Management Department has advertised the maintenance technician for over 6-months with no applicants and needs to move forward, and operation of the plant continues. The Department has requested this contract to help bridge this gap, in addition to having the assistance of using this information for creation of our asset management database and scheduling of tasks.

The WMD will be ordering the consumables (grease, oil, etc.), as budgeted normally in the operating budget, while the consultant performs the necessary work for maintenance.

FINANCIAL IMPACT:

The contract is for a not-to-exceed amount of thirty-one thousand two hundred dollars and 00/100 (\$31,200.00), and may be extended (with authorization), if the Maintenance Technician position still has not been filled.

RECOMMENDATION:

Staff recommends that COF Contract No. 2022-0217 be recommended to the Board of Mayor and Aldermen for approval.

**CITY OF FRANKLIN, TENNESSEE
PROFESSIONAL SERVICES AGREEMENT
COF Contract No. 2022-0217**

THIS PROFESSIONAL SERVICES AGREEMENT ("Agreement") is by and between the City of Franklin, Tennessee, hereinafter referenced as City, and **C&T ENGINEERING** hereinafter referenced as Consultant, who mutually agree as follows:

DECLARATIONS. City desires to retain Consultant to provide engineering, related technical, and other services in connection with City's project hereinafter referenced as Project. The Project is described as follows:

WATER RECLAMATION FACILITY LIQUIDS EQUIPMENT MAINTENANCE

1. SCOPE OF SERVICES. Consultant shall provide engineering, and related technical services for the Project in accordance with the Scope of Services ("Services") as found in Attachment A, which shall be considered as an integral part hereof.
2. Consultant shall submit as a part of Attachment A an individual Fee Schedule and a Completion Schedule for the Project based on the detailed Scope of Services.
3. In event of a conflict between this Agreement and the attached document(s), this Agreement shall supersede conflicting terms and conditions.
4. Consultant shall be paid on a monthly basis for work performed, based on the Fee Schedule as contained in Attachment A, in the Lump Sum Amount of **Thirty-one thousand, Two hundred and No/100 Dollars (\$31,200.00)**.

The Board of Mayor and Aldermen Approved this Agreement on the ____ Day of _____ 20 ____.

TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

ARTICLE 1. SERVICES. Consultant will:

- 1.1 Act for City in a professional manner, using that degree of care and skill ordinarily exercised by and consistent with standards of competent consultants using the standards in the industry:
- 1.2 Consider all reports to be confidential and distribute copies of the same only to those persons specifically designated by the City.
- 1.3 Perform all services under the general direction of a senior professional employee, licensed and/or registered in the State of Tennessee, when appropriate.
- 1.4 Designate, in writing, the sole Project representative to coordinate with City the Services to be provided, including all contact information.
- 1.5 Unless provided for in the Project Scope of Services (Attachment A), Consultant shall perform all Services with his own forces (employees). Should sub-consultants be proposed to be used in the Project, a listing of said sub-consultants with Services to be performed shall be provided. After approval of this Agreement, no substitute for sub-consultants shall be allowed unless approved by City.
- 1.6 Retain pertinent records relating to the services performed for a period of seven (7) years following the completion of the work; during this period the records shall be available for review by City at all reasonable times.

ARTICLE 2. CITY'S RESPONSIBILITIES. City, or its authorized representative, will:

- 2.1 Provide Consultant with all information regarding the Project, which is available to, or reasonably obtainable by, the City.
- 2.2 Furnish right-of-entry onto the Project site for Consultant's necessary field studies and surveys. Consultant will endeavor to restore the site to its original condition and shall remain solely liable for all damages, costs and expenses, including reasonable attorneys' fees, for failure to make such restoration.
- 2.3 Designate, in writing, the sole Project representative to coordinate with and direct the Consultant, including all contact information.
- 2.4 Guarantee to Consultant that it has the legal capacity to enter into this contract and that sufficient monies are available to fund Consultant's compensation.

ARTICLE 3. GENERAL CONDITIONS.

- 3.1 Consultant, by the performance of services covered hereunder, does not in any way assume, abridge or abrogate any of those duties, responsibilities or authorities customarily vested in other professionals or agencies participating in the Project.
- 3.2 Consultant shall be responsible for the acts or omissions of any party involved in concurrent or subsequent phases of the Project acting upon written instruction issued by the Consultant.
- 3.3 Neither City nor Consultant may assign or transfer its duties or interest in this Agreement without written consent of the other party.
- 3.4 **ALLOCATION OF RISK AND LIABILITY; GENERAL.** Considering the potential liabilities that may exist during the performance of the services of this Agreement, the relative benefits and risks of the Project, and the Consultant's fee for the services rendered, and in consideration of the promises contained in this Agreement, the City and the Consultant agree to allocate and limit such liabilities in accordance with this Article.

- 3.5 INDEMNIFICATION. Consultant agrees to indemnify and hold City harmless from and against legal liability for all judgments, losses, damages, and expenses to the extent such judgments, losses, damages, or expenses are caused by Consultant's negligent act, error or omission in the performance of the services of this Agreement. In the event judgments, losses, damages, or expenses are caused by the joint or concurrent negligence of Consultant and City, they shall be borne by each party in proportion to its own negligence.
- 3.5.1 SURVIVAL. The terms and conditions of this paragraph shall survive completion of this services agreement.
- 3.6 LIMITATIONS OF RESPONSIBILITY. Consultant shall not be responsible for (a) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project unless specifically undertaken in Attachment A, Scope of Services ; (b) the failure of any contractor, subcontractor, Consultant, or other Project participant, not under contract to Consultant, to fulfill contractual responsibilities to City or to comply with federal, state, or local laws, regulations, and codes; or (c) procuring permits, certificates, and licenses required for any construction unless such procurement responsibilities are specifically assigned to Consultant in Attachment A, Scope of Services.

ARTICLE 4. TERMINATION BY THE CITY. The City may terminate this Agreement in accordance with the following terms and conditions:

- 4.1 Termination for Convenience. The City may, when in the interests of the City, terminate performance under this Agreement with the Consultant, in whole or in part, for the convenience of the City. The City shall give written notice of such termination to the Consultant specifying when termination becomes effective. The Consultant shall incur no further obligations in connection with the work so terminated, other than warranties and guarantees for completed work and installed equipment, and the Consultant shall stop work when such termination becomes effective. The Consultant shall also terminate outstanding orders and subcontracts for the affected work. The Consultant shall settle the liabilities and claims arising out of the termination of subcontracts and orders. The City may direct the Consultant to assign the Consultant's right, title and interest under termination orders or subcontracts to the City or its designee. The Consultant shall transfer title and deliver to the City such completed or partially completed work and materials, equipment, parts, fixtures, information and Contract rights as the Consultant has in its possession or control. When terminated for convenience, the Consultant shall be compensated as follows:
- (1) The Consultant shall submit a termination claim to the City specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by the City. If the Consultant fails to file a termination claim within one (1) year from the effective date of termination, the City shall pay the Consultant the amount the City deems the Consultant is due.
 - (2) The City and the Consultant may agree to the compensation, if any, due to the Consultant hereunder.
 - (3) Absent agreement to the amount due to the Consultant, the City shall pay the Consultant the following amounts:
 - (a) Contract costs for labor, materials, equipment and other services accepted under this Agreement;

- (b) Reasonable costs incurred in preparing to perform and in performing the terminated portion of the work, and in terminating the Consultant's performance, plus a fair and reasonable allowance for direct job site overhead and earned profit thereon (such profit shall not include anticipated profit or consequential damages); provided however, that if it reasonably appears that the Consultant would have not profited or would have sustained a loss if the entire Agreement would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;

The total sum to be paid the Consultant under this Section shall not exceed the total Agreement Price, as properly adjusted, reduced by the amount of payments otherwise made, and shall in no event include duplication of payment.

- 4.2 Termination for Cause. If the Consultant does not perform the work, or any part thereof, in a timely manner, supply adequate labor, supervisory personnel or proper equipment or materials, or if it fails to timely discharge its obligations for labor, equipment and materials, or proceeds to disobey applicable law, or otherwise commits a violation of a material provision of this Agreement, then the City, in addition to any other rights it may have against the Consultant or others, may terminate the performance of the Consultant, in whole or in part at the City's sole option, and assume possession of the Project Plans and materials and may complete the work.

In such case, the Consultant shall not be paid further until the work is complete. After Completion has been achieved, if any portion of the Contract Price, as it may be modified hereunder, remains after the cost to the City of completing the work, including all costs and expenses of every nature incurred, has been deducted by the City, such remainder shall belong to the Consultant. Otherwise, the Consultant shall pay and make whole the City for such cost. This obligation for payment shall survive the termination of the Agreement.

In the event the employment of the Consultant is terminated by the City for cause pursuant to this Section and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience under this Section and the provisions of Section 4.1 shall apply.

- 4.3 Termination for Non-Appropriation. The City may also terminate this Agreement, in whole or in part, for non-appropriation of sufficient funds to complete or partially complete the Project, regardless of the source of such funds, and such termination shall be on the terms of Section 4.1.
- 4.4 The City's rights under this Section shall be in addition to those contained elsewhere herein or provided by law.

ARTICLE 5. SCOPE OF SERVICES. Consultant shall provide the Services as described in Attachment A, Scope of Services.

5.1 By mutual agreement, this Agreement and scope can be amended by the parties. The scope and fee for any additional tasks or services under such amendment shall be mutually negotiated and agreed to in writing prior to beginning such additional tasks or services.

5.2 ENVIRONMENTAL RESPONSIBILITY.

Where drilling/sampling services are involved, the samples obtained from the Project site are the property of the City. Should any of these samples be recognized by the Consultant to be contaminated, the City shall remove them from the Consultant's custody and transport them to a disposal site, all in accordance with applicable government statutes, ordinances, and regulations. For all other samples, the Consultant shall retain them for a sixty (60)-day period following the submission of the drilling/sampling report unless the City directs otherwise; thereafter, the Consultant shall discard the samples in accordance with all federal, state and local laws.

ARTICLE 6. SCHEDULE.

6.1 TIME OF THE ESSENCE. The parties agree that time is of the essence with respect to the parties' performance of all provisions of the Agreement.

6.2 Before executing this Agreement, the Consultant shall have prepared and submitted for approval to the City a Completion Schedule for the Project with milestones for the various stages (tasks) of the Services as outlined in the Scope of Services. The Consultant shall submit and obtain the City's approval for any proposed changes to the logic, durations, sequences, or timing of tasks as approved in the Completion Schedule.

6.3 FORCE MAJEURE. Neither party will be liable to the other for any delay or failure to perform any of the services or obligations set forth in this Agreement due to causes beyond its reasonable control, and performance times will be considered extended for a period of time equivalent to the time lost because of such delay plus a reasonable period of time to allow the parties to recommence performance of their respective obligations hereunder. Should a circumstance of force majeure last more than ninety (90) days, either party may by written notice to the other terminate this Agreement. The term "force majeure" as used herein shall mean the following: acts of God; strikes, lockouts or other industrial disturbances; acts of public enemies; orders or restraints of any kind of the government of the United States or of the State or any of their departments, agencies or officials, or any civil or military authority; insurrections, riots, landslides, earthquakes, fires, storms, tornadoes, droughts, floods, explosions, breakage or accident to machinery, transmission pipes or canals; or any other cause or event not reasonably within the control of either party.

6.4 Should City request changes in the scope, extent, or character of the Project, the fee and the time of performance of Consultant's Services as indicated in Attachment A shall be adjusted equitably.

ARTICLE 7. USE OF DOCUMENTS, DATA.

7.1 All Documents, including, but not limited to, reports, drawings, specifications, and computer software prepared by Consultant pursuant to this Agreement are instruments of service in respect to the Project. The City shall retain an ownership and property interest therein whether or not the Project is completed.

- 7.1.1 USE OF DATA SYSTEMS: The City maintains all rights to data systems and data (including derivative or hidden data such as metadata) created and used by Consultant through information supplied to the consultant by the City.
- 7.1.2 DISCLOSURE OF DOCUMENTS/DATA. City may be required to disclose documents or data under state or federal law. City shall notify Consultant if a request for data or documents has been made and shall give Consultant a reasonable opportunity under the circumstances to respond to the request by redacting proprietary or other confidential information. Consultant waives any right to confidentiality of any document, e-mail or file it fails to clearly mark on each page as confidential or proprietary. In exchange, Consultant agrees to indemnify, defend, and hold harmless City for any claims by third parties relating thereto or arising out of (i) the City's failure to disclose such documents or information required to be disclosed by law, or (ii) the City's release of documents as a result of City's reliance upon Consultant representation that materials supplied by Consultant (in full or redacted form) do not contain trade secrets or proprietary information, provided that the City impleads Consultant and Consultant assumes control over that claim.
- 7.2 By execution of this Agreement, Consultant and his sub-consultant(s) grant the City a royalty-free, perpetual, irrevocable, and assignable license to use any and all intellectual property interest Consultant or his sub-consultant(s) possess to any drawings, details, specifications, documents, and other information created before each of their first involvement with the Project and subsequently incorporated into the Project's documents. City-furnished data that may be relied upon by Consultant is limited to the printed copies that are delivered to the Consultant pursuant to Article 2 of this Agreement. Any copyrighted electronic files furnished by City shall be used by Consultant only for the Project as described herein. City's posting or publication of such documents created by Consultant for City shall constitute fair use and shall not constitute an infringement of Consultant's copyright, if any.
- 7.3 Documents that may be relied upon by City are limited to the printed copies (also known as hard copies) that are signed or sealed by the Consultant. Files in electronic media format of text, data, graphics, or of other types that are furnished by Consultant to City are only for convenience of City, unless the delivery of the Project in electronic media format has been dictated in Attachment A, Scope of Services. Any conclusion or information obtained or derived from electronic files provided for convenience will be at the user's sole risk.
- 7.4 Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within sixty (60) days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files. Unless stated otherwise herein, Consultant shall not be responsible to maintain documents stored in electronic media format after acceptance by City.
- 7.5 When transferring documents in electronic media format, Consultant makes no representations as to long term compatibility, usability, or readability, of documents resulting from the use of software application packages, operating systems, or computer hardware differing from that as required of, and used by, Consultant at the beginning of this Project.

- 7.6 City may make and retain copies of Documents for information and reference in connection with use on the Project by the City, or his authorized representative. Such Documents are not intended or represented to be suitable for reuse by City or others on extensions of the Project or on any other project. Any such reuse or modifications without written verification or adaptation by Consultant, as appropriate for the specific purpose intended, will be at City's sole risk and without liability or legal exposure to the Consultant or to Consultant's sub-consultants.
- 7.7 If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- 7.8 Any verification or adaptation of the Documents for extensions of the Project or for any other project will entitle Consultant to further compensation at rates to be agreed upon by City and Consultant.

ARTICLE 8. INSURANCE.

- 8.1 During the performance of the Services under this Agreement, Consultant shall maintain the following minimum insurance:
- a) General Liability Insurance with a combined single limit of \$1,000,000 per occurrence and \$2,000,000 annual aggregate.
 - b) Automobile Liability Insurance with a combined single limit of \$1,000,000 for each person and \$1,000,000 for each accident.
 - c) Workers' Compensation Insurance Coverage A in accordance with statutory requirements and Coverage B, Employer's Liability Insurance, with a limit of \$500,000 for each occurrence.
 - d) Professional Liability Insurance with a limit of \$1,000,000 annual aggregate.
- 8.2 Consultant shall add the City an additional insured on all policies unless otherwise prohibited.
- 8.3 Consultant shall, upon execution of this Agreement, furnish City certificates of insurance, which shall include a provision that such insurance shall not be canceled without at least thirty (30) days' written notice to City.
- 8.4 No insurance, of whatever kind or type is to be considered as in any way limiting other parties' responsibility for damages resulting from their activities in the execution of the Project. City agrees to include, or cause to be included, in the Project's construction contract, such requirements for insurance coverage and performance bonds by the Project's construction contractor as City deems adequate to indemnify City, Consultant, and other concerned parties against claims for damages and to insure compliance of work performance and materials with Project requirements.

ARTICLE 9. PAYMENT.

- 9.1 City will pay Consultant for services and expenses in accordance with the Fee Schedule proposal submitted for the Project as part of the Scope of Services. Consultant's invoices will be presented at the completion of the work or monthly and will be payable upon receipt. Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. City shall give prompt written notice of any disputed amount and shall pay the remaining amount.
- 9.2 Consultant shall be paid in full for all services under this Agreement, including City authorized overruns of the Project budget or unforeseen need for Consultant's services exceeding the original Scope of SerAECOMvices.
- 9.3 TRAVEL; EXPENSES

City shall reimburse reasonable expenses, including travel and meals, when specified in the Scope of Services, but only in accordance with the City's Travel and Expense Policy and Procedures Manual. The maximum amount will be applied as of the date of travel and as listed in the per diem reimbursement rates on the "CONUS" website developed by the United States General Services Administration, located at www.gsa.gov [click on 'per diem rates' under the 'etools' category].

ARTICLE 10. MISCELLANEOUS PROVISIONS

- 10.1 **EQUAL EMPLOYMENT OPPORTUNITY.** In connection with this Agreement and the Project, City and Consultant shall not discriminate against any employee or applicant for employment because of race, color, sex, national origin, disability or marital status. City and Consultant will take affirmative action to ensure that the contractor used for the Project does not discriminate against any employee and employees are treated during employment without regard to their race, age, religion, color, gender, national origin, disability or marital status. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- 10.1.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.2 **TITLE VI – CIVIL RIGHTS ACT OF 1964.** City and Consultant shall comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), 49 C.F.R., Part 21, and related statutes and regulations.
- 10.2.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.3 **NO THIRD PARTY RIGHTS CREATED.** City and Consultant each binds itself and its successors, executors, administrators, permitted assigns, legal representatives and, in the case of a partnership, its partners, to the other party to this Agreement and to their successors, executors, administrators, permitted assigns, legal representatives and partners of such other party in respect to all provisions of this Agreement. The Services provided for in this Agreement are for the sole use and benefit of City and Consultant. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than City and Consultant.
- 10.4 **WARRANTIES/LIMITATION OF LIABILITY/WAIVER.** City reserves all rights afforded to local governments under law for all general and implied warranties. City does not waive any rights it may have to all remedies provided by law and therefore any attempt by Consultant to limit its liability shall be void and unenforceable.

ARTICLE 11. EXTENT OF AGREEMENT:

- 11.1 **APPLICABLE LAW/CHOICE OF FORUM AND VENUE.** This Agreement is made under and will be construed in accordance with the laws of the State of Tennessee without giving effect to that state's choice of law rules. The parties' choice of forum and venue shall be exclusively in the courts of Williamson County, Tennessee. Any provision of this Agreement held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force.
- 11.2 **ENTIRE AGREEMENT.** This Agreement, including these terms and conditions, represent the entire Agreement between City and Consultant for this Project and supersedes all

prior negotiations, representations or agreements, written or oral. This Agreement may be amended only by written instrument signed by City and Consultant.

ARTICLE 12. DISPUTE RESOLUTION, BREACH.

- 12.1 If a dispute should arise relating to the performance of or payment for the Services under this Agreement, the aggrieved party shall notify the other party of the dispute within a reasonable time after such dispute arises. During the pendency of any dispute, the parties shall continue diligently to fulfill their respective obligations hereunder. No arbitration or mediation shall be required as a condition precedent to filing any legal claim arising out of or relating to this Agreement. No arbitration or mediation shall be binding.
- 12.2 BREACH. Upon deliberate breach of the Agreement by either party, the non-breaching party shall be entitled to terminate the Agreement with notice, with all of the remedies it would have in the event of termination and may also have such other remedies as it may be entitled to in law or in equity.

ARTICLE 13. SURVIVAL.

The provisions contained in this Professional Services Agreement shall survive the completion of or any termination of the Agreement, contract or other document to which it may accompany or incorporate by reference or which subsequently may be modified, unless expressly excepted from this Article upon consent of both parties.

CITY OF FRANKLIN, TENNESSEE:

By: _____
Dr. Ken Moore
Mayor
Date: _____

HAZEN AND SAWYER:

By: _____
Print: _____
Title: _____
Date: _____

Attest:

Eric S. Stuckey
City Administrator
Date: _____

Approved as to form:

Shauna R. Billingsley, City Attorney

1113 Murfreesboro Rd
Suite. 106-102
Franklin, TN 3706



8/3/2022

Ms. Michelle Hatcher, P.E.
Director
Water Management Department
City of Franklin

Re: WRF Liquids Equipment Maintenance

Dear Michelle,

We are pleased to submit this proposal to provide limited equipment maintenance assistance services to the City of Franklin. Under the assignment, C&T will provide a technician to provide routine maintenance to several pieces of equipment that is in use at the WRF liquids and existing solids facility. C&T will provide the equipment needed to perform the maintenance.

The maintenance will consist of greasing motors, pumps, bearings, gear boxes, actuators, valves, shafts, seals, and slide gates. In addition, changing the oil in gear boxes, changing filters in air handler units, exercising valves, inspect and clean augers, and inspect and clean rakes. The City of Franklin will provide the oils, greases, and filters that are required for each piece of equipment.

The maintenance will be performed on a frequency attached as Exhibit-A. C&T will utilize an I-Pad to capture and document the maintenance records for each piece of equipment serviced. The maintenance sheets will be provided to the City electronically on a weekly basis and available at any time on Project Wise.

C&T proposes to perform this task as requested by the City on a 5-day Monday-Friday schedule at 30-manhours each week at our maintenance hourly rate of \$65/HR for a total of 16-weeks for a not-to-exceed fee of **\$31,200**. We will bill only for actual time spent on the project and expenses will be billed at cost.

Thank you for the opportunity to provide this proposal to assist the City of Franklin Water Management.

Sincerely,

Thomas E. Lamb

Tom Lamb
President
C&T Engineering and Inspection

EXHIBIT-A		
LOCATION	TASK	FREQUENCY
HEADWORKS ODOR CONTROL	GREASE BLOWER MOTOR BEARING	THREE TIMES A WEEK
HEADWORKS ODOR CONTROL	GREASE RECIRCULATION PUMP BEARING	THREE TIMES A WEEK
HEADWORKS ODOR CONTROL	EXERCISE 23-ODOR CONTROL VALVES	MONTHLY
HEADWORKS ODOR CONTROL	CHANGE GEAR BOX OIL	MANUFACTURER HOURS
HEADWORKS ELECTRICAL ROOM	CHANGE AIR HANDLER FILTER	MANUFACTURER HOURS
HEADWORKS COMPACTOR ROOM	GREASE MOTOR BEARINGS COMPACTOR #1 & #2	THREE TIMES A WEEK
HEADWORKS COMPACTOR ROOM	GREASE GEAR BOX BEARINGS COMPACTOR #1 & #2	THREE TIMES A WEEK
HEADWORKS COMPACTOR ROOM	CHANGE GEAR BOX OIL	MANUFACTURER HOURS
HEADWORKS COMPACTOR ROOM	EXERCISE TWO KNIFE GATE VALVES	MONTHLY
HEADWORKS COMPACTOR ROOM	INSPECT & CLEAN COMPACTOR AUGERS #1 & #2	MONTHLY
HEADWORKS COMPACTOR ROOM	CHANGE COMPACTOR #1 & #2 GEAR BOX OIL	MANUFACTURER HOURS
HEADWORKS GRIT CLASSIFIER ROOM	GREASE GRIT CLASSIFIER GEAR BOX BEARING #1, #3 & #4	DAILY
HEADWORKS GRIT CLASSIFIER ROOM	INSPECT & CLEAN GRIT CLASSIFIER AUGERS #1, #3 & #4	MONTHLY
HEADWORKS GRIT CLASSIFIER ROOM	EXERCISE VORTEX #1, #3 & #4 ACTUATORS	MONTHLY
HEADWORKS GRIT CLASSIFIER ROOM	EXERCISE VORTEX #1, #3 & #4 KNIFE GATE VALVES	MONTHLY
HEADWORKS GRIT CLASSIFIER ROOM	EXERCISE 4-6" INCH GATE VALVES (2-POTABLE, 2-NON-POTABLE)	MONTHLY
HEADWORKS PUMP GALLERY	GREASE MOTOR BEARINGS EQ PUMP #1 & #2	THREE TIMES A WEEK
HEADWORKS PUMP GALLERY	EXERCISE 24" INCH PLUG VALVE EQ INFLUENT	MONTHLY
HEADWORKS PUMP GALLERY	EXERCISE 36" INCH PLUG VALVE EQ EFFLUENT	MONTHLY
HEADWORKS PUMP GALLERY	CLEAN SEAL WATER PANEL FILTER	MONTHLY
HEADWORKS UPPER LEVEL	GREASE 3-ENVIRODYNE VORTEX VERTICAL SHAFT MIXERS	DAILY
HEADWORKS UPPER LEVEL	CHANGE GEAR BOX OIL	1000 HOURS
HEADWORKS UPPER LEVEL	GREASE 12-SLIDEGATE ACTUATORS	MONTHLY
HEADWORKS UPPER LEVEL	GREASE THREE TELESCOPING VALVES	MONTHLY
HEADWORKS UPPER LEVEL	GREASE THREE BAR SCREENS (MOTORS, GEAR BOXES, BEARING SHAFTS)	DAILY
HEADWORKS UPPER LEVEL	CLEAN BAR SCREEN #1, #3, #4 RAKES	WEEKLY
EQ TANK ODOR CONTROL	GREASE BLOWER MOTOR BEARING	THREE TIMES A WEEK
EQ TANK ODOR CONTROL	GREASE RECIRCULATION PUMP BEARING	THREE TIMES A WEEK
EQ TANK ODOR CONTROL	EXERCISE ODOR CONTROL VALVES	MONTHLY
EQ TANK ODOR CONTROL	CHANGE GEAR BOX OIL	MANUFACTURER HOURS
EQ LOW FLOW VALVE VAULT	GREASE VALVE ACTUATORS	WEEKLY
EQ LOW FLOW VALVE VAULT	EXERCISE 14" INCH PLUG VALVE	MONTHLY
EQ EFFLUENT VALVE VAULT	GREASE VALVE ACTUATORS	MONTHLY
EQ EFFLUENT VALVE VAULT	EXERCISE 20" INCH PLUG VALVE	WEEKLY
BNR'S #1, #2 & #3	GREASE 9-MOTORS AND 9-GEAR BOXES SURFACE AERATION MIXERS	DAILY
BNR'S #1, #2 & #3	CHANGE OIL IN GEAR BOXES	2500 HOURS
BNR'S #1, #2 & #3	GREASE 18-FERMENTATION ZONE MIXERS	DAILY
BNR'S #1, #2 & #3	CHANGE OIL IN GEAR BOXES	MANUFACTURER HOURS
BNR SPLITTER BOX	GREASE 4-SLIDEGATE ACTUATORS	WEEKLY
LOCATION	TASK	FREQUENCY
MULTISTAGE CENTRIFUGAL BLOWERS	GREASE BLOWER MOTOR BEARINGS	DAILY
MULTISTAGE CENTRIFUGAL BLOWERS	GREASE FLEXIBLE COUPLINGS	DAILY
MULTISTAGE CENTRIFUGAL BLOWERS	GREASE LABRYNTH SEAL	DAILY
MULTISTAGE CENTRIFUGAL BLOWERS	VISUAL INSPECTION OF ALUMINUM IMPELLERS	MONTHLY
ALUM BUILDING	GREASE 5-ALUM INJECTION PUMPS	WEEKLY
ALUM BUILDING	CHANGE AIR HANDLER FILTER	
RETURN SLUDGE BUILDING	GREASE SCUM MOTOR/PUMP #1, #2	DAILY
RETURN SLUDGE BUILDING	GREASE RAS MOTOR/PUMP #7, #8, #9, #10, #11	DAILY
RETURN SLUDGE BUILDING	GREASE WAS MOTOR/PUMP #5, #6	DAILY
RAS-WAS PUMP STATION	GREASE SCUM MOTOR/PUMP #3, #4	DAILY
RAS-WAS PUMP STATION	GREASE RAS MOTOR/PUMP #12, #13, #14	DAILY
RAS-WAS PUMP STATION	GREASE WAS MOTOR/PUMP #7, #8	DAILY
CLARIFIERS #5, #6, #7, #8, #9, #10	GREASE RAKE DRIVE MOTORS/GEAR BOXES	DAILY
RECLAIMED BOOSTER PUMP STATION	GREASE BOOSTER PUMP #1, #2, #3, #4, #5	DAILY
RECLAIMED BOOSTER PUMP STATION	CHANGE GEAR BOX OIL	MANUFACTURER HOURS
INFLUENT PUMP STATION	GREASE MOTOR BEARINGS PUMPS #1, #2, #3, #4, #5, #6	DAILY
DENITE FILTER COMPLEX BLOWERS	GREASE POSITIVE DISPLACEMENT BLOWER MOTOR BEARINGS	THREE TIMES A WEEK
SLUDGE CONTROL BUILDING	GREASE BLOWER MOTOR BEARINGS BLOWER ROOM	DAILY
SLUDGE CONTROL BUILDING	GREASE BELT FILTER PRESS BEARINGS	THREE TIMES A WEEK
BLOWER BUILDING #2	GREASE DAF RECYCLE PUMPS	THREE TIMES A WEEK
DAF TANKS	GREASE GEAR BOX BEARINGS COMPACTOR #1 & #2	THREE TIMES A WEEK
UV (New)	GREASE 4-SLIDEGATE ACTUATORS	WEEKLY

EXCLUSIONS

- New Solids Processing Building, Digester Building, THP, CHP and Biosolids Odor Control excluded from this proposal.
- Existing Denite Filter Gallery appurtenances excluded from this proposal.
- Existing ABW Sand Filter excluded from this proposal.
- EQ Tank Jet Mixing Pumps excluded from this proposal.
- Existing Reclaimed Force Main Valves excluded from this proposal.

1113 Murfreesboro Rd
Suite. 106-102
Franklin, TN 3706



615.567.3306
www.ct-eng.net

8/3/2022

Ms. Michelle Hatcher, P.E.
Director
Water Management Department
City of Franklin

Re: **WRF Liquids Equipment Maintenance**

Dear Michelle,

We are pleased to submit this proposal to provide limited equipment maintenance assistance services to the City of Franklin. Under the assignment, C&T will provide a technician to provide routine maintenance to several pieces of equipment that is in use at the WRF liquids and existing solids facility. C&T will provide the equipment needed to perform the maintenance.

The maintenance will consist of greasing motors, pumps, bearings, gear boxes, actuators, valves, shafts, seals, and slide gates. In addition, changing the oil in gear boxes, changing filters in air handler units, exercising valves, inspect and clean augers, and inspect and clean rakes. The City of Franklin will provide the oils, greases, and filters that are required for each piece of equipment.

The maintenance will be performed on a frequency attached as Exhibit-A. C&T will utilize an I-Pad to capture and document the maintenance records for each piece of equipment serviced. The maintenance sheets will be provided to the City electronically on a weekly basis and available at any time on Project Wise.

C&T proposes to perform this task as requested by the City on a 5-day Monday-Friday schedule at 30-manhours each week at our maintenance hourly rate of \$65/HR for a total of 16-weeks for a not-to-exceed fee of **\$31,200**. We will bill only for actual time spent on the project and expenses will be billed at cost.

Thank you for the opportunity to provide this proposal to assist the City of Franklin Water Management.

Sincerely,

Thomas E. Lamb

Tom Lamb
President
C&T Engineering and Inspection

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HEADWORKS ODOR CONTROL	CHANGE GEAR BOX OIL	MANUFACTURER HOURS
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HEADWORKS COMPACTOR ROOM	EXERCISE TWO KNIFE GATE VALVES	MONTHLY
HEADWORKS COMPACTOR ROOM	INSPECT & CLEAN COMPACTOR AUGERS #1 & #2	MONTHLY
HEADWORKS COMPACTOR ROOM	CHANGE COMPACTOR #1 & #2 GEAR BOX OIL	MANUFACTURER HOURS
HEADWORKS GRIT CLASSIFIER ROOM	GREASE GRIT CLASSIFIER GEAR BOX BEARING #1, #3 & #4	DAILY
HEADWORKS GRIT CLASSIFIER ROOM	INSPECT & CLEAN GRIT CLASSIFIER AUGERS #1, #3 & #4	MONTHLY
HEADWORKS GRIT CLASSIFIER ROOM	EXERCISE VORTEX #1, #3 & #4 ACTUATORS	MONTHLY
HEADWORKS GRIT CLASSIFIER ROOM	EXERCISE VORTEX #1, #3 & #4 KNIFE GATE VALVES	MONTHLY
HEADWORKS GRIT CLASSIFIER ROOM	EXERCISE 4-6" INCH GATE VALVES (2-POTABLE, 2-NON-POTABLE)	MONTHLY
HEADWORKS PUMP GALLERY	GREASE MOTOR BEARINGS EQ PUMP #1 & #2	THREE TIMES A WEEK
HEADWORKS PUMP GALLERY	EXERCISE 24" INCH PLUG VALVE EQ INFLUENT	MONTHLY
HEADWORKS PUMP GALLERY	EXERCISE 36" INCH PLUG VALVE EQ EFFLUENT	MONTHLY
HEADWORKS PUMP GALLERY	CLEAN SEAL WATER PANEL FILTER	MONTHLY
HEADWORKS UPPER LEVEL	GREASE 3-ENVIRODYNE VORTEX VERTICAL SHAFT MIXERS	DAILY
HEADWORKS UPPER LEVEL	CHANGE GEAR BOX OIL	1000 HOURS
HEADWORKS UPPER LEVEL	GREASE 12-SLIDEGATE ACTUATORS	MONTHLY
HEADWORKS UPPER LEVEL	GREASE THREE TELESCOPING VALVES	MONTHLY
HEADWORKS UPPER LEVEL	GREASE THREE BAR SCREENS (MOTORS, GEAR BOXES, BEARING SHAFTS)	DAILY
HEADWORKS UPPER LEVEL	CLEAN BAR SCREEN #1, #3, #4 RAKES	WEEKLY
EQ TANK ODOR CONTROL	GREASE BLOWER MOTOR BEARING	THREE TIMES A WEEK
EQ TANK ODOR CONTROL	GREASE RECIRCULATION PUMP BEARING	THREE TIMES A WEEK
EQ TANK ODOR CONTROL	EXERCISE ODOR CONTROL VALVES	MONTHLY
EQ TANK ODOR CONTROL	CHANGE GEAR BOX OIL	MANUFACTURER HOURS
EQ LOW FLOW VALVE VAULT	GREASE VALVE ACTUATORS	WEEKLY
EQ LOW FLOW VALVE VAULT	EXERCISE 14" INCH PLUG VALVE	MONTHLY
EQ EFFLUENT VALVE VAULT	GREASE VALVE ACTUATORS	MONTHLY
EQ EFFLUENT VALVE VAULT	EXERCISE 20" INCH PLUG VALVE	WEEKLY
BNR'S #1, #2 & #3	GREASE 9-MOTORS AND 9-GEAR BOXES SURFACE AERATION MIXERS	DAILY
BNR'S #1, #2 & #3	CHANGE OIL IN GEAR BOXES	2500 HOURS
BNR'S #1, #2 & #3	GREASE 18-FERMENTATION ZONE MIXERS	DAILY
BNR'S #1, #2 & #3	CHANGE OIL IN GEAR BOXES	MANUFACTURER HOURS
BNR SPLITTER BOX	GREASE 4-SLIDEGATE ACTUATORS	WEEKLY
LOCATION	TASK	FREQUENCY
MULTISTAGE CENTRIFUGAL BLOWERS	GREASE BLOWER MOTOR BEARINGS	DAILY
MULTISTAGE CENTRIFUGAL BLOWERS	GREASE FLEXIBLE COUPLINGS	DAILY
MULTISTAGE CENTRIFUGAL BLOWERS	GREASE LABRYNTH SEAL	DAILY
MULTISTAGE CENTRIFUGAL BLOWERS	VISUAL INSPECTION OF ALUMINUM IMPELLERS	MONTHLY
ALUM BUILDING	GREASE 5-ALUM INJECTION PUMPS	WEEKLY
ALUM BUILDING	CHANGE AIR HANDLER FILTER	
RETURN SLUDGE BUILDING	GREASE SCUM MOTOR/PUMP #1, #2	DAILY
RETURN SLUDGE BUILDING	GREASE RAS MOTOR/PUMP #7, #8, #9, #10, #11	DAILY
RETURN SLUDGE BUILDING	GREASE WAS MOTOR/PUMP #5, #6	DAILY
RAS-WAS PUMP STATION	GREASE SCUM MOTOR/PUMP #3, #4	DAILY
RAS-WAS PUMP STATION	GREASE RAS MOTOR/PUMP #12, #13, #14	DAILY
RAS-WAS PUMP STATION	GREASE WAS MOTOR/PUMP #7, #8	DAILY
CLARIFIERS #5, #6, #7, #8, #9, #10	GREASE RAKE DRIVE MOTORS/GEAR BOXES	DAILY
RECLAIMED BOOSTER PUMP STATION	GREASE BOOSTER PUMP #1, #2, #3, #4, #5	DAILY
RECLAIMED BOOSTER PUMP STATION	CHANGE GEAR BOX OIL	MANUFACTURER HOURS
INFLUENT PUMP STATION	GREASE MOTOR BEARINGS PUMPS #1, #2, #3, #4, #5, #6	DAILY
DENITE FILTER COMPLEX BLOWERS	GREASE POSITIVE DISPLACEMENT BLOWER MOTOR BEARINGS	THREE TIMES A WEEK
SLUDGE CONTROL BUILDING	GREASE BLOWER MOTOR BEARINGS BLOWER ROOM	DAILY
SLUDGE CONTROL BUILDING	GREASE BELT FILTER PRESS BEARINGS	THREE TIMES A WEEK
BLOWER BUILDING #2	GREASE DAF RECYCLE PUMPS	THREE TIMES A WEEK
DAF TANKS	GREASE GEAR BOX BEARINGS COMPACTOR #1 & #2	THREE TIMES A WEEK
UV (New)	GREASE 4-SLIDEGATE ACTUATORS	WEEKLY

EXCLUSIONS

- New Solids Processing Building, Digester Building, THP, CHP and Biosolids Odor Control excluded from this proposal.
- Existing Denite Filter Gallery appurtenances excluded from this proposal.
- Existing ABW Sand Filter excluded from this proposal.
- EQ Tank Jet Mixing Pumps excluded from this proposal.
- Existing Reclaimed Force Main Valves excluded from this proposal.



File #: 21-03566

DATE: September 7, 2022
TO: Capital Investment Committee
FROM: Michelle Hatcher, Director of Water Management
SUBJECT:

Consideration Of COF Contract No. 2022-0237, A Joint-Funding Agreement Between The U.S. Geological Survey Lower Mississippi-Gulf Water Science Center And The City Of Franklin.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning a contract with USGS and the City of Franklin for flow investigation services in the Harpeth River.

BACKGROUND/STAFF COMMENTS:

As part of the Aquatic Resources Alteration Permit for the Water Treatment Plant, the withdrawal rate from the Harpeth River is based upon readings from the in-stream gauges operated and maintained by the USGS . This gauge measures river volume and dissolved oxygen content and allows the WTP to base the water withdrawal off real-time flow data.

For the Water Reclamation Facility, the monthly operational reports (MORs) include data produced from this gauge when staff collect samples for instream monitoring.

FINANCIAL IMPACT:

The total cost of this annual contract is \$46,075 and is renewed annually. This item is included in the FY23 operating budget for the WTP and WRF (431-82599-52213 and 421-82599-52103).

RECOMMENDATION:

Staff recommends that COF Contract No. 2022-0237 with the United States Geological Survey be recommended for approval by the Board of Mayor and Aldermen.



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Lower Mississippi-Gulf Water Science Center
640 Grassmere Park, Suite 100
Nashville, TN 37211

September 7, 2022

Michelle Hatcher
Director of Water Management
City of Franklin
Public Works Building 124 Lumbar Drive
Franklin, TN 37064

Dear Ms. Hatcher:

This is a standard joint-funding agreement between City of Franklin and U.S. Geological Survey for the operation of two stream gages and two continuous water quality monitoring sites, during the period October 1, 2022 through September 30, 2023 in the amount of \$46,075 from your agency. U.S. Geological Survey contributions for this agreement are \$18,675 for a combined total of \$64,750. Please sign and return one fully-executed original to My-Chae' J. May, Budget Analyst at **3535 S. Sherwood Forest Blvd. Suite 120, Baton Rouge, LA 70816**.

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **October 1, 2022**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact Drew Westerman by phone number (501) 228-3643 or email dawester@usgs.gov to make alternative arrangements.

This is a fixed cost agreement to be billed **quarterly** via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact My-Chae May at phone number (225) 298-5481 or email gs-w-lmg_agreements@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

Rodney R. Knight
Director, LMG Water Science Center

Enclosure
23MLJFATNDA069 (2)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000494
Agreement #: 23MLJFATNDA069
Project #: ML009Z5
TIN #: 62-6000290

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2022, by the U.S. GEOLOGICAL SURVEY, Lower Mississippi-Gulf Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the City of Franklin party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation the operation of two stream gages and two continuous water quality monitoring sites, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$18,675 by the party of the first part during the period
October 1, 2022 to September 30, 2023
- (b) \$46,075 by the party of the second part during the period
October 1, 2022 to September 30, 2023
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$15,810

Description of the USGS regional/national program: Federal Priority Streamgages Program funding for 03432400 Harpeth River below Franklin, TN gage.

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>).

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR

Customer #: 6000000494
Agreement #: 23MLJFATNDA069
Project #: ML009Z5
TIN #: 62-6000290

Water Resource Investigations

9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Drew Westerman
Data Chief, AR/TN
Address: 401 Hardin Road
Little Rock, AR 72211
Telephone: (501) 228-3643
Fax: (501) 228-3601
Email: dawester@usgs.gov

Customer Technical Point of Contact

Name: Michelle Hatcher
Director of Water Management
Address: Public Works Building 124 Lumbar Drive
Franklin, TN 37064
Telephone: (615) 794-4554
Fax:
Email: michelle.hatcher@franklintn.gov

USGS Billing Point of Contact

Name: My-Chae May
Budget Analyst
Address: 3535 South Sherwood Forest Blvd.
Baton Rouge, LA 70816
Telephone: (225) 298-5481
Fax:
Email: gs-w-lmg_agreements@usgs.gov

Customer Billing Point of Contact

Name: Michelle Hatcher
Director of Water Management
Address: Public Works Building 124 Lumbar Drive
Franklin, TN 37064
Telephone: (615) 794-4554
Fax:
Email: michelle.hatcher@franklintn.gov

U.S. Geological Survey
United States
Department of Interior

City of Franklin

Signature

By  Date: September 7, 2022
Name: Rodney R. Knight
Title: Director, LMG Water Science Center

Signatures

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

AD: SDW



File #: 21-03591

DATE: September 13, 2022

TO: Capital Investment Committee

FROM: Michelle Hatcher, Director of Water Management
Brian Goodwin, Asst. Director of Water Management
Patricia McNeese, Utilities Engineer

SUBJECT:

Consideration Of DRAFT COF Contract No. 2022-0246, With Hethcoat & Davis For The Meadows Pump Station Engineering Report In The Amount Of \$32,226.00

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning COF Contract No. 2022-0246, The Meadows Pump Station Engineering Report with Hethcoat & Davis in the amount of \$32,226.00.

BACKGROUND/STAFF COMMENTS:

In the last fiscal year the City of Franklin Water Management Department had three existing pump stations within the collection system evaluated as part of the annual budget operations, one of which station was the Meadows. The evaluation determined that the station is past its prime and the pumps are operating below their design capacity, with a recommendation to have a further preliminary engineering report prepared to determine if the station could be rehabilitated or needed to be replaced. This contract is for the preliminary engineering report to be performed and will consider if the WMD can replace some existing components and reuse of some equipment; replace the entire station with suction lift type pumps; replace the entire station with submersible type pumps; or relocate existing station to an adjacent site.

FINANCIAL IMPACT:

The cost of this item is \$32,226.00 and will be funded from the sewer collections operating fund (431-82560-52212).

RECOMMENDATION:

Staff recommends that COF Contract No. 2022-0246, The Meadows Pump Station Engineering Report with Hethcoat & Davis, be recommended for approval by the Board of Mayor and Aldermen.

**CITY OF FRANKLIN, TENNESSEE
PROFESSIONAL SERVICES AGREEMENT
COF Contract No. 2022-0246**

THIS PROFESSIONAL SERVICES AGREEMENT ("Agreement") is by and between the City of Franklin, Tennessee, hereinafter referenced as City, and **HETHCOAT & DAVIS** hereinafter referenced as Consultant, who mutually agree as follows:

DECLARATIONS. City desires to retain Consultant to provide engineering, related technical, and other services in connection with City's project hereinafter referenced as Project. The Project is described as follows:

THE MEADOWS PUMP STATION ENGINEERING REPORT

1. SCOPE OF SERVICES. Consultant shall provide survey, engineering, and related technical services for the Project in accordance with the Scope of Services ("Services") as found in Attachment A, which shall be considered as an integral part hereof.
2. Consultant shall submit as a part of Attachment A an individual Fee Schedule and a Completion Schedule for the Project based on the detailed Scope of Services.
3. In event of a conflict between this Agreement and the attached document(s), this Agreement shall supersede conflicting terms and conditions.
4. Consultant shall be paid on a monthly basis for work performed, based on the Fee Schedule as contained in Attachment A, in the Lump Sum Amount of **Thirty Two Thousand Two Hundred Twenty Six and No/100 Dollars (\$32,226)**.

The Board of Mayor and Aldermen Approved this Agreement on the ____ Day of _____ 20 ____.

TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

ARTICLE 1. SERVICES. Consultant will:

- 1.1 Act for City in a professional manner, using that degree of care and skill ordinarily exercised by and consistent with standards of competent consultants using the standards in the industry:
- 1.2 Consider all reports to be confidential and distribute copies of the same only to those persons specifically designated by the City.
- 1.3 Perform all services under the general direction of a senior professional employee, licensed and/or registered in the State of Tennessee, when appropriate.
- 1.4 Designate, in writing, the sole Project representative to coordinate with City the Services to be provided, including all contact information.
- 1.5 Unless provided for in the Project Scope of Services (Attachment A), Consultant shall perform all Services with his own forces (employees). Should sub-consultants be proposed to be used in the Project, a listing of said sub-consultants with Services to be performed shall be provided. After approval of this Agreement, no substitute for sub-consultants shall be allowed unless approved by City.
- 1.6 Retain pertinent records relating to the services performed for a period of seven (7) years following the completion of the work; during this period the records shall be available for review by City at all reasonable times.

ARTICLE 2. CITY'S RESPONSIBILITIES. City, or its authorized representative, will:

- 2.1 Provide Consultant with all information regarding the Project, which is available to, or reasonably obtainable by, the City.
- 2.2 Furnish right-of-entry onto the Project site for Consultant's necessary field studies and surveys. Consultant will endeavor to restore the site to its original condition and shall remain solely liable for all damages, costs and expenses, including reasonable attorneys' fees, for failure to make such restoration.
- 2.3 Designate, in writing, the sole Project representative to coordinate with and direct the Consultant, including all contact information.
- 2.4 Guarantee to Consultant that it has the legal capacity to enter into this contract and that sufficient monies are available to fund Consultant's compensation.

ARTICLE 3. GENERAL CONDITIONS.

- 3.1 Consultant, by the performance of services covered hereunder, does not in any way assume, abridge or abrogate any of those duties, responsibilities or authorities customarily vested in other professionals or agencies participating in the Project.
- 3.2 Consultant shall be responsible for the acts or omissions of any party involved in concurrent or subsequent phases of the Project acting upon written instruction issued by the Consultant.
- 3.3 Neither City nor Consultant may assign or transfer its duties or interest in this Agreement without written consent of the other party.
- 3.4 **ALLOCATION OF RISK AND LIABILITY; GENERAL.** Considering the potential liabilities that may exist during the performance of the services of this Agreement, the relative benefits and risks of the Project, and the Consultant's fee for the services rendered, and in consideration of the promises contained in this Agreement, the City and the Consultant agree to allocate and limit such liabilities in accordance with this Article.

- 3.5 INDEMNIFICATION. Consultant agrees to indemnify and hold City harmless from and against legal liability for all judgments, losses, damages, and expenses to the extent such judgments, losses, damages, or expenses are caused by Consultant's negligent act, error or omission in the performance of the services of this Agreement. In the event judgments, losses, damages, or expenses are caused by the joint or concurrent negligence of Consultant and City, they shall be borne by each party in proportion to its own negligence.
- 3.5.1 SURVIVAL. The terms and conditions of this paragraph shall survive completion of this services agreement.
- 3.6 LIMITATIONS OF RESPONSIBILITY. Consultant shall not be responsible for (a) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project unless specifically undertaken in Attachment A, Scope of Services ; (b) the failure of any contractor, subcontractor, Consultant, or other Project participant, not under contract to Consultant, to fulfill contractual responsibilities to City or to comply with federal, state, or local laws, regulations, and codes; or (c) procuring permits, certificates, and licenses required for any construction unless such procurement responsibilities are specifically assigned to Consultant in Attachment A, Scope of Services.

ARTICLE 4. TERMINATION BY THE CITY. The City may terminate this Agreement in accordance with the following terms and conditions:

- 4.1 Termination for Convenience. The City may, when in the interests of the City, terminate performance under this Agreement with the Consultant, in whole or in part, for the convenience of the City. The City shall give written notice of such termination to the Consultant specifying when termination becomes effective. The Consultant shall incur no further obligations in connection with the work so terminated, other than warranties and guarantees for completed work and installed equipment, and the Consultant shall stop work when such termination becomes effective. The Consultant shall also terminate outstanding orders and subcontracts for the affected work. The Consultant shall settle the liabilities and claims arising out of the termination of subcontracts and orders. The City may direct the Consultant to assign the Consultant's right, title and interest under termination orders or subcontracts to the City or its designee. The Consultant shall transfer title and deliver to the City such completed or partially completed work and materials, equipment, parts, fixtures, information and Contract rights as the Consultant has in its possession or control. When terminated for convenience, the Consultant shall be compensated as follows:
- (1) The Consultant shall submit a termination claim to the City specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by the City. If the Consultant fails to file a termination claim within one (1) year from the effective date of termination, the City shall pay the Consultant the amount the City deems the Consultant is due.
 - (2) The City and the Consultant may agree to the compensation, if any, due to the Consultant hereunder.
 - (3) Absent agreement to the amount due to the Consultant, the City shall pay the Consultant the following amounts:
 - (a) Contract costs for labor, materials, equipment and other services accepted under this Agreement;

- (b) Reasonable costs incurred in preparing to perform and in performing the terminated portion of the work, and in terminating the Consultant's performance, plus a fair and reasonable allowance for direct job site overhead and earned profit thereon (such profit shall not include anticipated profit or consequential damages); provided however, that if it reasonably appears that the Consultant would have not profited or would have sustained a loss if the entire Agreement would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;

The total sum to be paid the Consultant under this Section shall not exceed the total Agreement Price, as properly adjusted, reduced by the amount of payments otherwise made, and shall in no event include duplication of payment.

- 4.2 Termination for Cause. If the Consultant does not perform the work, or any part thereof, in a timely manner, supply adequate labor, supervisory personnel or proper equipment or materials, or if it fails to timely discharge its obligations for labor, equipment and materials, or proceeds to disobey applicable law, or otherwise commits a violation of a material provision of this Agreement, then the City, in addition to any other rights it may have against the Consultant or others, may terminate the performance of the Consultant, in whole or in part at the City's sole option, and assume possession of the Project Plans and materials and may complete the work.

In such case, the Consultant shall not be paid further until the work is complete. After Completion has been achieved, if any portion of the Contract Price, as it may be modified hereunder, remains after the cost to the City of completing the work, including all costs and expenses of every nature incurred, has been deducted by the City, such remainder shall belong to the Consultant. Otherwise, the Consultant shall pay and make whole the City for such cost. This obligation for payment shall survive the termination of the Agreement.

In the event the employment of the Consultant is terminated by the City for cause pursuant to this Section and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience under this Section and the provisions of Section 4.1 shall apply.

- 4.3 Termination for Non-Appropriation. The City may also terminate this Agreement, in whole or in part, for non-appropriation of sufficient funds to complete or partially complete the Project, regardless of the source of such funds, and such termination shall be on the terms of Section 4.1.
- 4.4 The City's rights under this Section shall be in addition to those contained elsewhere herein or provided by law.

ARTICLE 5. SCOPE OF SERVICES. Consultant shall provide the Services as described in Attachment A, Scope of Services.

5.1 By mutual agreement, this Agreement and scope can be amended by the parties. The scope and fee for any additional tasks or services under such amendment shall be mutually negotiated and agreed to in writing prior to beginning such additional tasks or services.

5.2 ENVIRONMENTAL RESPONSIBILITY.

Where drilling/sampling services are involved, the samples obtained from the Project site are the property of the City. Should any of these samples be recognized by the Consultant to be contaminated, the City shall remove them from the Consultant's custody and transport them to a disposal site, all in accordance with applicable government statutes, ordinances, and regulations. For all other samples, the Consultant shall retain them for a sixty (60)-day period following the submission of the drilling/sampling report unless the City directs otherwise; thereafter, the Consultant shall discard the samples in accordance with all federal, state and local laws.

ARTICLE 6. SCHEDULE.

6.1 TIME OF THE ESSENCE. The parties agree that time is of the essence with respect to the parties' performance of all provisions of the Agreement.

6.2 Before executing this Agreement, the Consultant shall have prepared and submitted for approval to the City a Completion Schedule for the Project with milestones for the various stages (tasks) of the Services as outlined in the Scope of Services. The Consultant shall submit and obtain the City's approval for any proposed changes to the logic, durations, sequences, or timing of tasks as approved in the Completion Schedule.

6.3 FORCE MAJEURE. Neither party will be liable to the other for any delay or failure to perform any of the services or obligations set forth in this Agreement due to causes beyond its reasonable control, and performance times will be considered extended for a period of time equivalent to the time lost because of such delay plus a reasonable period of time to allow the parties to recommence performance of their respective obligations hereunder. Should a circumstance of force majeure last more than ninety (90) days, either party may by written notice to the other terminate this Agreement. The term "force majeure" as used herein shall mean the following: acts of God; strikes, lockouts or other industrial disturbances; acts of public enemies; orders or restraints of any kind of the government of the United States or of the State or any of their departments, agencies or officials, or any civil or military authority; insurrections, riots, landslides, earthquakes, fires, storms, tornadoes, droughts, floods, explosions, breakage or accident to machinery, transmission pipes or canals; or any other cause or event not reasonably within the control of either party.

6.4 Should City request changes in the scope, extent, or character of the Project, the fee and the time of performance of Consultant's Services as indicated in Attachment A shall be adjusted equitably.

ARTICLE 7. USE OF DOCUMENTS, DATA.

7.1 All Documents, including, but not limited to, reports, drawings, specifications, and computer software prepared by Consultant pursuant to this Agreement are instruments of service in respect to the Project. The City shall retain an ownership and property interest therein whether or not the Project is completed.

- 7.1.1 USE OF DATA SYSTEMS: The City maintains all rights to data systems and data (including derivative or hidden data such as metadata) created and used by Consultant through information supplied to the consultant by the City.
- 7.1.2 DISCLOSURE OF DOCUMENTS/DATA. City may be required to disclose documents or data under state or federal law. City shall notify Consultant if a request for data or documents has been made and shall give Consultant a reasonable opportunity under the circumstances to respond to the request by redacting proprietary or other confidential information. Consultant waives any right to confidentiality of any document, e-mail or file it fails to clearly mark on each page as confidential or proprietary. In exchange, Consultant agrees to indemnify, defend, and hold harmless City for any claims by third parties relating thereto or arising out of (i) the City's failure to disclose such documents or information required to be disclosed by law, or (ii) the City's release of documents as a result of City's reliance upon Consultant representation that materials supplied by Consultant (in full or redacted form) do not contain trade secrets or proprietary information, provided that the City impleads Consultant and Consultant assumes control over that claim.
- 7.2 By execution of this Agreement, Consultant and his sub-consultant(s) grant the City a royalty-free, perpetual, irrevocable, and assignable license to use any and all intellectual property interest Consultant or his sub-consultant(s) possess to any drawings, details, specifications, documents, and other information created before each of their first involvement with the Project and subsequently incorporated into the Project's documents. City-furnished data that may be relied upon by Consultant is limited to the printed copies that are delivered to the Consultant pursuant to Article 2 of this Agreement. Any copyrighted electronic files furnished by City shall be used by Consultant only for the Project as described herein. City's posting or publication of such documents created by Consultant for City shall constitute fair use and shall not constitute an infringement of Consultant's copyright, if any.
- 7.3 Documents that may be relied upon by City are limited to the printed copies (also known as hard copies) that are signed or sealed by the Consultant. Files in electronic media format of text, data, graphics, or of other types that are furnished by Consultant to City are only for convenience of City, unless the delivery of the Project in electronic media format has been dictated in Attachment A, Scope of Services. Any conclusion or information obtained or derived from electronic files provided for convenience will be at the user's sole risk.
- 7.4 Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within sixty (60) days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files. Unless stated otherwise herein, Consultant shall not be responsible to maintain documents stored in electronic media format after acceptance by City.
- 7.5 When transferring documents in electronic media format, Consultant makes no representations as to long term compatibility, usability, or readability, of documents resulting from the use of software application packages, operating systems, or computer hardware differing from that as required of, and used by, Consultant at the beginning of this Project.

- 7.6 City may make and retain copies of Documents for information and reference in connection with use on the Project by the City, or his authorized representative. Such Documents are not intended or represented to be suitable for reuse by City or others on extensions of the Project or on any other project. Any such reuse or modifications without written verification or adaptation by Consultant, as appropriate for the specific purpose intended, will be at City's sole risk and without liability or legal exposure to the Consultant or to Consultant's sub-consultants.
- 7.7 If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- 7.8 Any verification or adaptation of the Documents for extensions of the Project or for any other project will entitle Consultant to further compensation at rates to be agreed upon by City and Consultant.

ARTICLE 8. INSURANCE.

- 8.1 During the performance of the Services under this Agreement, Consultant shall maintain the following minimum insurance:
- a) General Liability Insurance with a combined single limit of \$1,000,000 per occurrence and \$2,000,000 annual aggregate.
 - b) Automobile Liability Insurance with a combined single limit of \$1,000,000 for each person and \$1,000,000 for each accident.
 - c) Workers' Compensation Insurance Coverage A in accordance with statutory requirements and Coverage B, Employer's Liability Insurance, with a limit of \$500,000 for each occurrence.
 - d) Professional Liability Insurance with a limit of \$1,000,000 annual aggregate.
- 8.2 Consultant shall add the City an additional insured on all policies unless otherwise prohibited.
- 8.3 Consultant shall, upon execution of this Agreement, furnish City certificates of insurance, which shall include a provision that such insurance shall not be canceled without at least thirty (30) days' written notice to City.
- 8.4 No insurance, of whatever kind or type is to be considered as in any way limiting other parties' responsibility for damages resulting from their activities in the execution of the Project. City agrees to include, or cause to be included, in the Project's construction contract, such requirements for insurance coverage and performance bonds by the Project's construction contractor as City deems adequate to indemnify City, Consultant, and other concerned parties against claims for damages and to insure compliance of work performance and materials with Project requirements.

ARTICLE 9. PAYMENT.

- 9.1 City will pay Consultant for services and expenses in accordance with the Fee Schedule proposal submitted for the Project as part of the Scope of Services. Consultant's invoices will be presented at the completion of the work or monthly and will be payable upon receipt. Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. City shall give prompt written notice of any disputed amount and shall pay the remaining amount.
- 9.2 Consultant shall be paid in full for all services under this Agreement, including City authorized overruns of the Project budget or unforeseen need for Consultant's services exceeding the original Scope of SerAECOMvices.
- 9.3 TRAVEL; EXPENSES

City shall reimburse reasonable expenses, including travel and meals, when specified in the Scope of Services, but only in accordance with the City's Travel and Expense Policy and Procedures Manual. The maximum amount will be applied as of the date of travel and as listed in the per diem reimbursement rates on the "CONUS" website developed by the United States General Services Administration, located at www.gsa.gov [click on 'per diem rates' under the 'etools' category].

ARTICLE 10. MISCELLANEOUS PROVISIONS

- 10.1 **EQUAL EMPLOYMENT OPPORTUNITY.** In connection with this Agreement and the Project, City and Consultant shall not discriminate against any employee or applicant for employment because of race, color, sex, national origin, disability or marital status. City and Consultant will take affirmative action to ensure that the contractor used for the Project does not discriminate against any employee and employees are treated during employment without regard to their race, age, religion, color, gender, national origin, disability or marital status. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- 10.1.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.2 **TITLE VI – CIVIL RIGHTS ACT OF 1964.** City and Consultant shall comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), 49 C.F.R., Part 21, and related statutes and regulations.
- 10.2.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.3 **NO THIRD PARTY RIGHTS CREATED.** City and Consultant each binds itself and its successors, executors, administrators, permitted assigns, legal representatives and, in the case of a partnership, its partners, to the other party to this Agreement and to their successors, executors, administrators, permitted assigns, legal representatives and partners of such other party in respect to all provisions of this Agreement. The Services provided for in this Agreement are for the sole use and benefit of City and Consultant. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than City and Consultant.
- 10.4 **WARRANTIES/LIMITATION OF LIABILITY/WAIVER.** City reserves all rights afforded to local governments under law for all general and implied warranties. City does not waive any rights it may have to all remedies provided by law and therefore any attempt by Consultant to limit its liability shall be void and unenforceable.

ARTICLE 11. EXTENT OF AGREEMENT:

- 11.1 **APPLICABLE LAW/CHOICE OF FORUM AND VENUE.** This Agreement is made under and will be construed in accordance with the laws of the State of Tennessee without giving effect to that state's choice of law rules. The parties' choice of forum and venue shall be exclusively in the courts of Williamson County, Tennessee. Any provision of this Agreement held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force.
- 11.2 **ENTIRE AGREEMENT.** This Agreement, including these terms and conditions, represent the entire Agreement between City and Consultant for this Project and supersedes all

prior negotiations, representations or agreements, written or oral. This Agreement may be amended only by written instrument signed by City and Consultant.

ARTICLE 12. DISPUTE RESOLUTION, BREACH.

- 12.1 If a dispute should arise relating to the performance of or payment for the Services under this Agreement, the aggrieved party shall notify the other party of the dispute within a reasonable time after such dispute arises. During the pendency of any dispute, the parties shall continue diligently to fulfill their respective obligations hereunder. No arbitration or mediation shall be required as a condition precedent to filing any legal claim arising out of or relating to this Agreement. No arbitration or mediation shall be binding.
- 12.2 BREACH. Upon deliberate breach of the Agreement by either party, the non-breaching party shall be entitled to terminate the Agreement with notice, with all of the remedies it would have in the event of termination and may also have such other remedies as it may be entitled to in law or in equity.

ARTICLE 13. SURVIVAL.

The provisions contained in this Professional Services Agreement shall survive the completion of or any termination of the Agreement, contract or other document to which it may accompany or incorporate by reference or which subsequently may be modified, unless expressly excepted from this Article upon consent of both parties.

CITY OF FRANKLIN, TENNESSEE:

By: _____
Dr. Ken Moore
Mayor
Date: _____

HETHCOAT & DAVIS:

By: _____
Print: _____
Title: _____
Date: _____

Attest:

Eric S. Stuckey
City Administrator
Date: _____

Approved as to form:



September 13, 2022

Ms. Patricia McNeese, P.E.
Project Manager – Water Management Department
City of Franklin, TN
124 Lumber Drive
Franklin, TN 37064

**Re: Meadows SPS Rehab/Replacement Engineering Study
Engineering Services Proposal
Franklin, TN**

Dear Patricia:

Thank you for the opportunity to provide this proposal for engineering services for the study of rehabilitation or replacement to the existing Meadows SPS (MSPS) located inside the Meadows at Cool Springs Subdivision. The ratings of the existing SPS based on City furnished report prepared by AECOM indicates a design capacity rating of approximately 150 GPM for MSPS. Per the AECOM report, Pump 1 was test pumped and determined to pump at a rate of 98 GPM. Pump 2 was test pumped and determined to pump at a rate of 82 GPM. Both pumps are substantially below the original pump rating and pictures in the report seem to suggest damaged or worn impellers. No as-built plans have been furnished to us at this time.

Based on the information you provided and a brief site visit to each site, it appears that the scope of services required is as follows:

Rehabilitation/Replacement Study

- Verify the layouts, dimensions, site availability (i.e., easement or City owned property), force main size, etc.
- Verify the hydraulic loading for the pumping station. This will be done using GIS data for lot counts contained in the drainage basin for the station.
- Determine hydraulic conditions for the pump station and the accompanying existing force main. This proposal assumes the existing force main will remain in use. GIS data indicates the MSPS site utilizes a 4-inch force main. It is unknown as to whether or not the existing force main suffers from either O&M or capacity issues.
- The assumed flow capacity for the station would remain at 150 GPM, unless otherwise directed. The existing force main should be adequate.
- Prepare hydraulic calculations to verify pump replacement design condition.
- The existing station is a Gorman-Rupp suction lift pump station installed in 1995. The study proposed to consider four (4) potential options for rehabilitation or replacement of the MSPS.

- Option 1 would consist of replacement of existing station components in the form of pumps, motors, controls, valves, suction piping, etc. to the existing station. This would allow the reuse of the fiberglass housing, the wet well and result in limited station outage assuming one pump at a time could be serviced/replaced.
- Option 2 would consist of replacement of the entire station with a new copy of the station in the suction lift format atop and reuse of the existing wet well.
- Option 3 would consist of replacement of the entire station with a new submersible pump station in a separate new wet well. This may require additional easement for construction purposes as the site is very cramped and space is at a premium.
- Option 4 would look at the potential of relocating the station to a new site. Based on an initial review of the drainage basin, the proximity to the corporate City limits and the apparent 100% level of development in the drainage basis, it is unlikely this is a viable option. Based on this initial review, this option is not considered viable and will only receive a brief comment in the final study.
- Contact the local power company to determine electrical capability based on the proposed upgrade resulting from changes to electrical systems and any required electrical upgrades by the power company.
- At your direction and as an option to the study, provide a topographical survey of the existing SPS site and immediate surrounding area. (topographic limits assumed to be approximately 0.5 acres for this site). This work would allow a more detailed investigation into layout of the new station under Option 3. It can also be used for the final development of the plans for the selected option.
- Develop an Opinion of Cost for Options 1, 2 & 3.
- Submit the Study to the Water Management staff for review and discussion.
- Two (2) review meetings with City staff.
- Follow-up and revisions as needed to the Study after City review and comment.

The following items are excluded from this design portion of this proposal:

- Design or construction phase services.
- Permit fees.
- Geotechnical borings.

Hethcoat & Davis, Inc. proposes to provide the scope of services identified and will make every effort to devote the manpower and resources necessary to insure timely completion within 90 days of the City's approval and execution of the Professional Services Agreement. Based on the anticipated scope of services, the not-to-exceed hourly design fees are reflected as follows:

- Pump Station Study - \$ 31,206
- Pump Station Site Topo Survey - \$ 8,000* (optional)
- Project Management - \$ 1,020

Total Study Cost – Base Fee \$ 32,226

Total Study Cost w/ Optional Survey \$ 40,226*

*Includes Optional Site Topo Survey

If this proposal is acceptable, please prepare a standard City agreement for our signature and approval. As requested, an hourly rate schedule is attached.

We sincerely appreciate the opportunity to work with the City of Franklin and to present this proposal for providing professional services. If you should have any questions or require additional information, please call.

Sincerely,



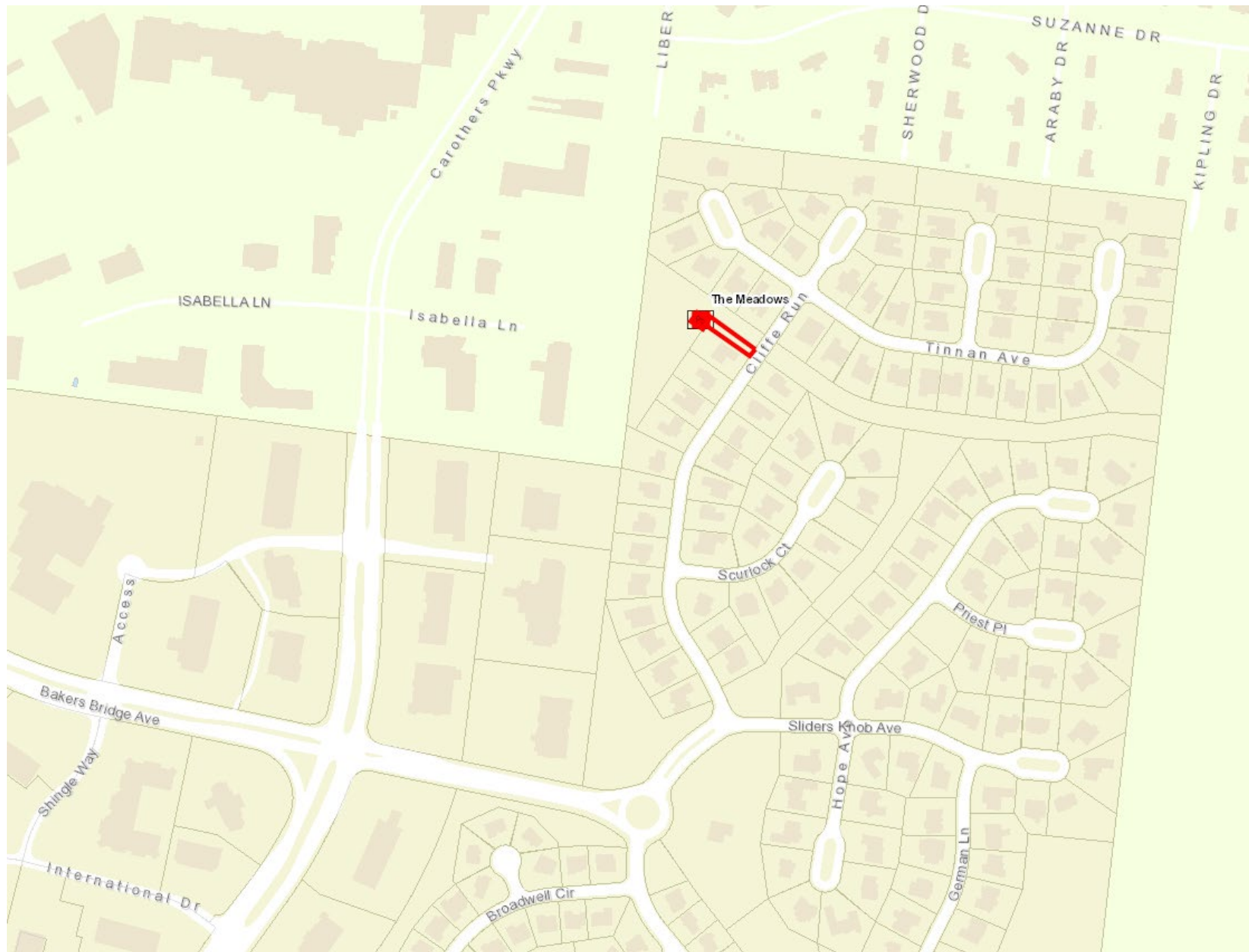
Keith Davis, PE
Principal



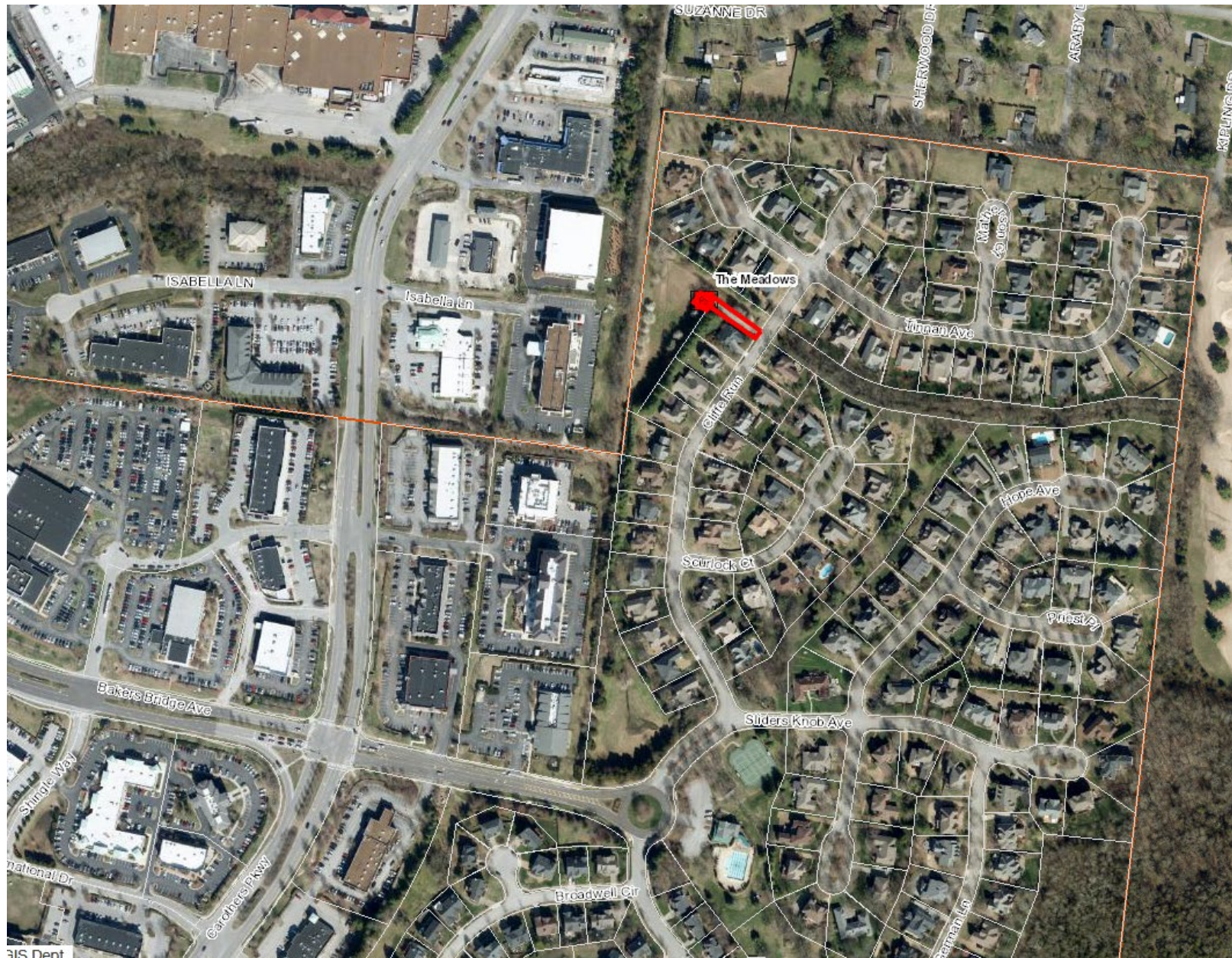
HOURLY RATE SCHEDULE

<u>Billing Category</u>	<u>Hourly Billing Rate</u>
Principal Engineer	\$183.00
Project Manager/Sr. Engineer	\$160.00
Project Engineer	\$90.00 - 110.00
CAD Designer	\$115.00
Electrical Engineer	\$250.00
Electrical CAD Designer	\$144.00
Principal Structural Engineer	\$270.00
Sr. Structural Engineer	\$240.00
Registered Land Surveyor	\$162.00
Survey Manager	\$156.00
2-Man Survey Crew	\$180.00
Survey Technician	\$150.00
Administrative	\$72.00

LOCATOR MAP



LOCATOR MAP (Aerial view)



Neighborhood View





File #: 21-03598

DATE: September 15, 2022
TO: Capital Investment Committee
FROM: Eric Stuckey, City Administrator
Paul Holzen, Director of Engineering
Jonathan Marston, Asst. Director of Engineering
Adam Moser, Traffic Engineer

SUBJECT:

Consideration Of DRAFT Amendment 8 To COF Contract No. 2011-0129 (TDOT Agreement No. 110291) For The Franklin ITS Extension (PIN 116144.00) And The Adaptive Signal Control Technology (PIN 116144.01) Projects To Replace Exhibit "A" And To Change The Completion Date. WS 11/9/21

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning Amendment No. 8 to the Tennessee Department of Transportation (TDOT) Agreement No. 110291 (COF Contract No. 2011-0129).

BACKGROUND/STAFF COMMENTS:

In 2011, the BOMA approved TDOT Agreement No. 110291 (COF Contract No. 2011-0129), which allows the City to locally manage the Franklin Intelligent Transportation System (ITS) Extension project. This agreement was later modified to include adaptive traffic signal control systems as an accepted work type. This inclusion created 2 distinct projects. The first is the ITS Extension Project (PIN 116144.00), which generally consists of additional traffic monitoring cameras and extension of the City's fiber optic network that connects the City's traffic signals to the Traffic Operations Center (TOC) in City Hall. The second related project is the Adaptive Signal Control Technology (ASCT) Project (PIN 116144.01). This project consists of upgraded vehicle detection and the implementation of an adaptive traffic signal control system at 19 intersections in the Cool Springs area.

The ASCT project, which is the larger of the two projects, has completed construction and is now in operation. The project team has obtained all eligible funding reimbursements, is working to finalize all project documentation and to perform proper close-out procedures with the TDOT Local Programs office. The original ITS extension, now the smaller of the 2 projects, is essentially ready for construction, but is awaiting reevaluation of its environmental clearance prior to proceeding to the construction phase. Because all work is planned to occur within existing rights-of-way and/or easements, this reevaluation is anticipated to be uneventful. As soon as the environmental clearance has been received, staff anticipates receiving a Notice to Proceed with the Construction Phase.

This Amendment No. 8 allows for a time extension of twelve (12) months to the City's existing agreement with TDOT. Unchanged, the existing agreement will expire on December 31, 2022, which would result in 1 of 2 options:

- Stop the project, and require the City to pay back the entirety of federal funds expended to-date on the ITS Extension project, *or*
- Stop the City from receiving any additional reimbursement of federal funds (the current reimbursement rate is 80% federal to 20% local) on this project and the City would still be required to complete the remaining project entirely at its own cost.

However, TDOT staff has agreed to a time extension that would allow for the completion of this project. With the approval of Amendment No. 8, the new project deadline would become December 31, 2023, which is a time extension of 12 months. This amendment also replaces Exhibit "A" (*i.e.* funding breakdown per phase per project), which was last edited with Amendment No. 7. This revised Exhibit "A" has been updated with the latest project cost information.

FINANCIAL IMPACT:

There is no direct additional cost generated by this amendment. This amendment simply extends the completion deadline for the two (2) listed projects by one (1) calendar year to December 31, 2023, which allows the City to fully benefit from the federal funding allocated to these projects.

The funding distribution between project phases, as shown in Exhibit "A", has been updated at TDOT's request, to better reflect the most recent project cost projections.

RECOMMENDATION:

Staff recommends that Amendment 8 to COF Contract No. 2011-0129 (TDOT Agreement No. 110291) be recommended to the Board of Mayor and Aldermen for approval.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PROGRAM DEVELOPMENT & ADMINISTRATION DIVISION
LOCAL PROGRAMS DEVELOPMENT OFFICE
SUITE 600, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TENNESSEE 37243-1402
(615) 741-5314

BUTCH ELEY
DEPUTY GOVERNOR &
COMMISSIONER OF TRANSPORTATION

BILL LEE
GOVERNOR

August 25, 2022

The Honorable Ken Moore
Mayor, City of Franklin
109 Third Ave. South, Suite 103 ADMINISTRATION
Franklin, TN 37064

Re: Various Corridors in Franklin (ITS Infrastructure Expansion)
Franklin, Williamson County
PIN:116144.00, 116144.01
Federal Project Number: STP-M-9305(26), STP-M-9305(30)
State Project Number: 94LPLM-F3-039, 94LPLM-F3-065
Agreement Number: 110291, 110291.01

Dear Mayor Moore:

I am attaching an amendment to the original contract. The amendment extends the expiration date and updates the Exhibit A. Please review the amendment and advise me if it requires further explanation. If you find the amendment satisfactory, please execute it in accordance with all rules, regulations and laws, obtain the signature of the attorney for your agency, and return it to me. Once the amendment is fully executed, we will send a copy to you for your records.

If you have any questions or need any additional information, please contact Simchah Edwards at 615-741-0805 or Simchah.Edwards@tn.gov.

Sincerely,

Kimery Grant
Transportation Manager 2

Attachment

Amendment Number: 8

Agreement Number: 110291, 110291.01

Project Identification Number: 116144.00, 116144.01

Federal Project Number: STP-M-9305(26), STP-M-9305(30)

State Project Number: 94LPLM-F3-039, 94LPLM-F3-065

THIS AGREEMENT AMENDMENT is made and entered into this _____ day of _____, 20____ by and between the STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION, an agency of the State of Tennessee (hereinafter called the "Department") and the CITY OF FRANKLIN (hereinafter called the "Agency"), for the purpose of providing an understanding among the parties of their respective obligations related to the management of the project described as:

"Various Corridors in Franklin (ITS Infrastructure Expansion)"

1. The language of Agreement # , 110291.01 dated November 12, 2021 Exhibit A is hereby deleted in its entirety and replaced with the attached Exhibit A for Amendment 8 .
2. The language of Agreement # , 110291.01 dated November 12, 2021 Section B. 2 a) is hereby deleted in its entirety.
3. The following is added as B. 2 a) .

B. 2 a) The Agency agrees to complete the herein assigned phases of the Project on or before **December 31, 2023**. If the Agency does not complete the herein described phases of the Project within this time period, this Agreement will expire on the last day of scheduled completion as provided in this paragraph unless an extension of the time period is requested by the Agency and granted in writing by the Department prior to the expiration of the Agreement. An extension of the term of this Agreement will be effected through an amendment to the Agreement. Expiration of this Agreement will be considered termination of the Project. The cost of any work performed after the expiration date of the Agreement will not be reimbursed by the Department.

All provisions of the original contract not expressly amended hereby shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused this instrument to be executed by their respective authorized officials on the date first above written.

CITY OF FRANKLIN

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

Signature:

Email: ken.moore@franklintn.gov

B

Signature:

Email: TDOT.COMMISSIONER'S.Office@tn.gov

**APPROVED AS TO
FORM AND LEGALITY**

**APPROVED AS TO
FORM AND LEGALITY**

Signature:

Email: shauna.billingsley@franklintn.gov

By

Signature:

Email: TDOT.Legal.Attorneys@tn.gov

B

Signature:

Email: jeff.c.jones@tn.gov

EXHIBIT “A” for AMENDMENT 8

Agreement #: 110291, 110291.01

Project Identification #: 116144.00, 116144.01

Federal Project #: STP-M-9305(26), STP-M-9305(30)

State Project #: 94LPLM-F3-039, 94LPLM-F3-065

Project Description: 116144.00 Various Corridors in Franklin (ITS Infrastructure Expansion) - Expansion of the City of Franklin's current ITS infrastructure network capabilities into areas with extensive congestion to include CCTV, DMS, Weather Communication, and connect to TDOT & Brentwood systems.

116144.01 Various Corridors in Franklin (ITS Software Expansion) - PIN 116144.01 is intended to procure and implement an Adaptive Traffic Control System Software application that will best fit the Systems Engineering Analysis Document developed for the project. This software will be installed at the Transportation Operation Center (TOC) and will operate over 40 intersections along Cool Springs Boulevard, Mallory Lane, Carothers Parkways, and McEwen Drive.

Change in Cost: Cost hereunder is controlled by the figures shown in the TIP and any amendments, adjustments or changes thereto

Type of Work: Intelligent Transportation System

116144.00 Various Corridors in Franklin (ITS Infrastructure Expansion)

Phase	Funding Source	Fed %	State %	Local %	Estimated Cost
PE-NEPA	LOCAL	0	0	100	\$8,944.31
PE-DESIGN	U-STBG	80	0	20	\$150,000.00
CONSTRUCTION	U-STBG	80	0	20	\$702,404.00
CEI	U-STBG	80	0	20	\$78,922.00
TDOT ES	U-STBG	80	0	20	\$7,892.00

116144.01 Various Corridors in Franklin (ITS Software Expansion)

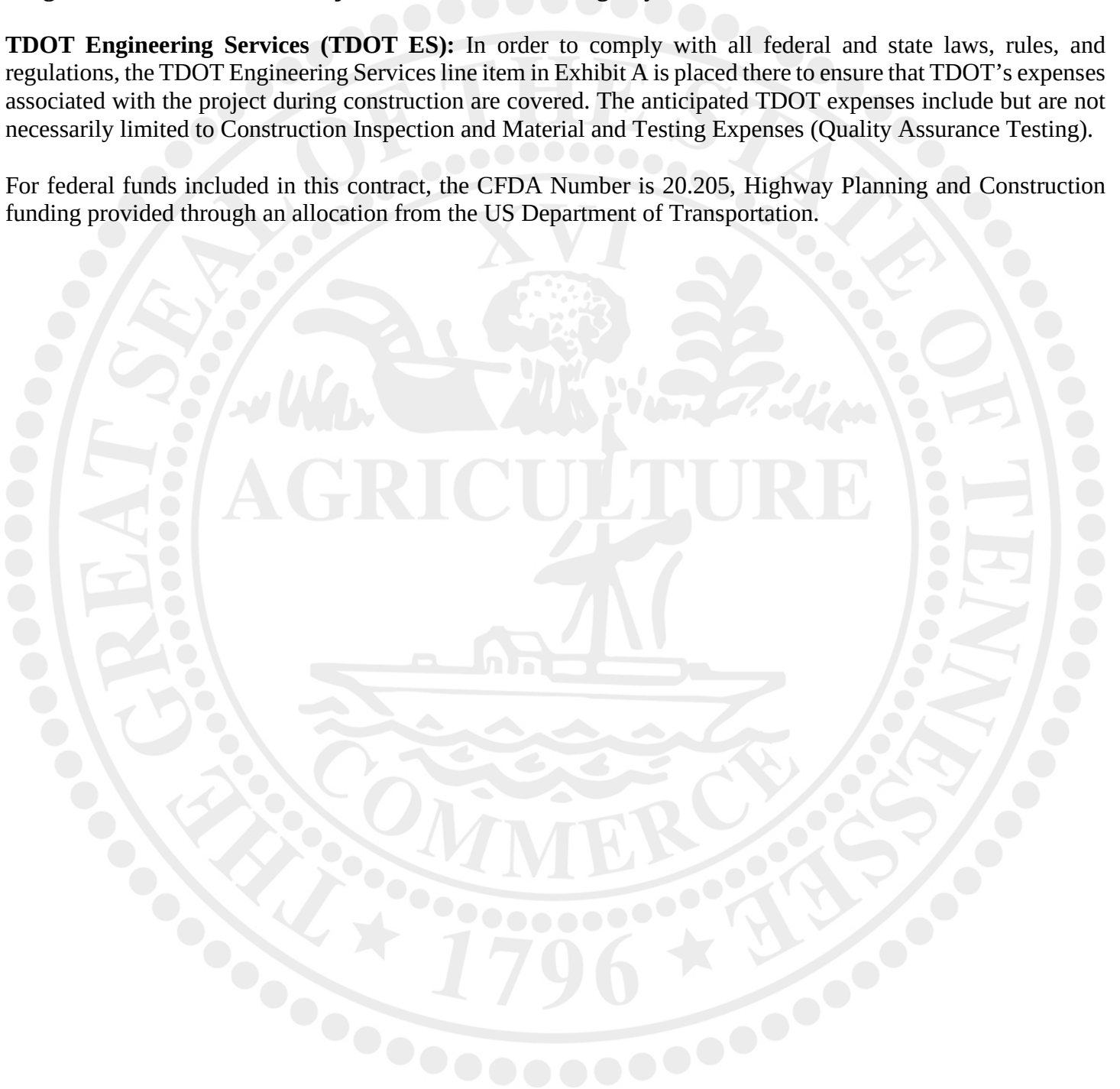
Phase	Funding Source	Fed %	State %	Local %	Estimated Cost
PE-DESIGN	U-STBG	80	0	20	\$350,000.00
IMPLEMENTATION	U-STBG	80	0	20	\$435,337.00
CONSTRUCTION	U-STBG	80	0	20	\$743,157.00
CEI	U-STBG	80	0	20	\$82,350.00
TDOT ES	U-STBG	80	0	20	\$5,275.00

Ineligible Cost: One hundred percent (100%) of the actual cost will be paid from Agency funds if the use of said state or federal funds is ruled ineligible at any time by the Federal Highway Administration.

Legislative Authority: STBG: STP: 23 U.S.C.A., Section 133, Surface Transportation Block Grant Program funds allocated or subject to allocation to the Agency

TDOT Engineering Services (TDOT ES): In order to comply with all federal and state laws, rules, and regulations, the TDOT Engineering Services line item in Exhibit A is placed there to ensure that TDOT's expenses associated with the project during construction are covered. The anticipated TDOT expenses include but are not necessarily limited to Construction Inspection and Material and Testing Expenses (Quality Assurance Testing).

For federal funds included in this contract, the CFDA Number is 20.205, Highway Planning and Construction funding provided through an allocation from the US Department of Transportation.





FRANKLIN ITS EXTENSION (TDOT PIN 116144.00)



I-65 at GOOSE CREEK BYPASS (SR-248) (NEW CCTV CAMERA AND 50-FT POLE)





FRANKLIN ITS EXTENSION (TDOT PIN 116144.00)



SR-96 WEST at 11TH AVENUE NORTH (NEW SIGNAL-MOUNTED CCTV CAMERA)

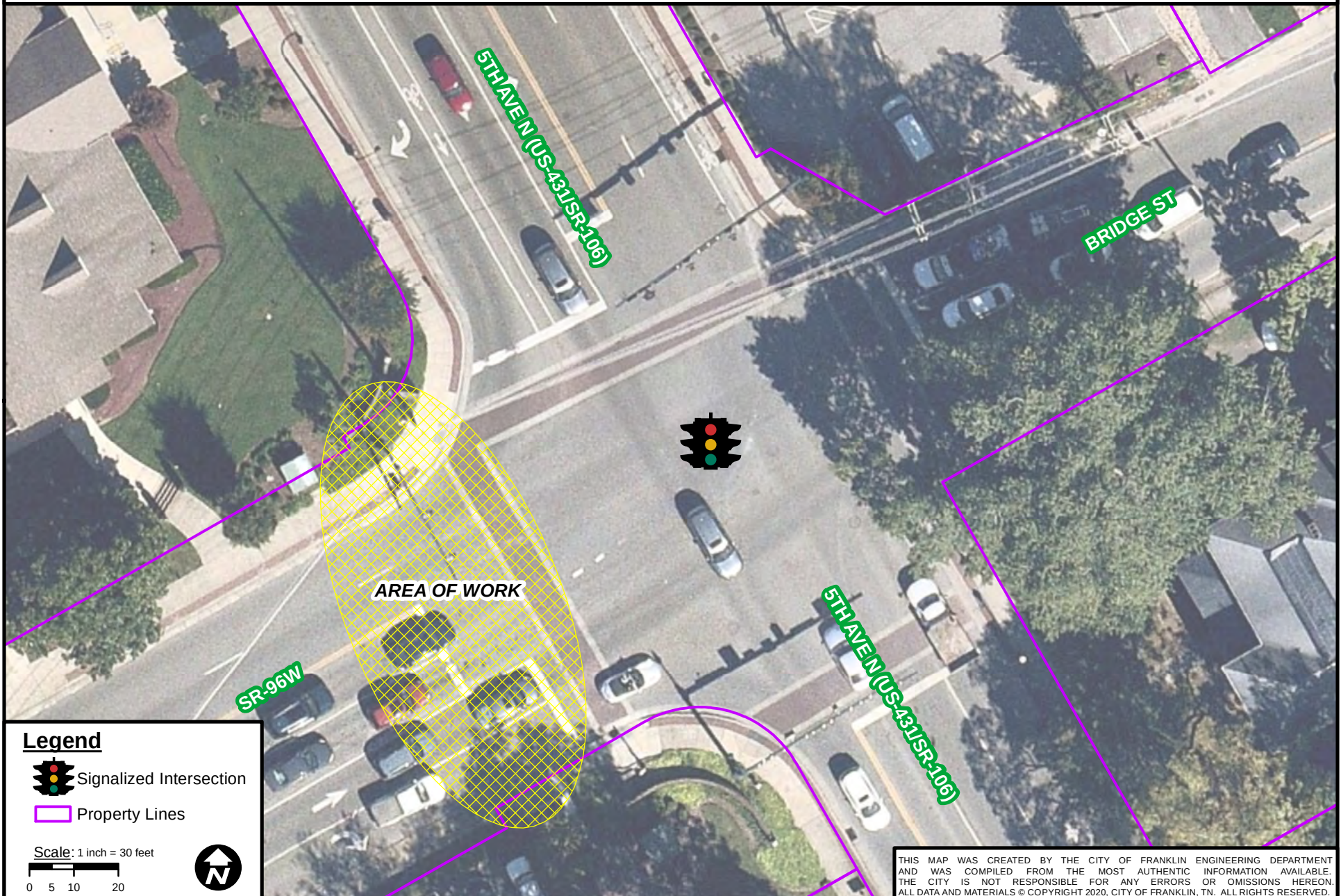




FRANKLIN ITS EXTENSION (TDOT PIN 116144.00)



SR-96 WEST at 5TH AVENUE NORTH (NEW SIGNAL-MOUNTED CCTV CAMERA)

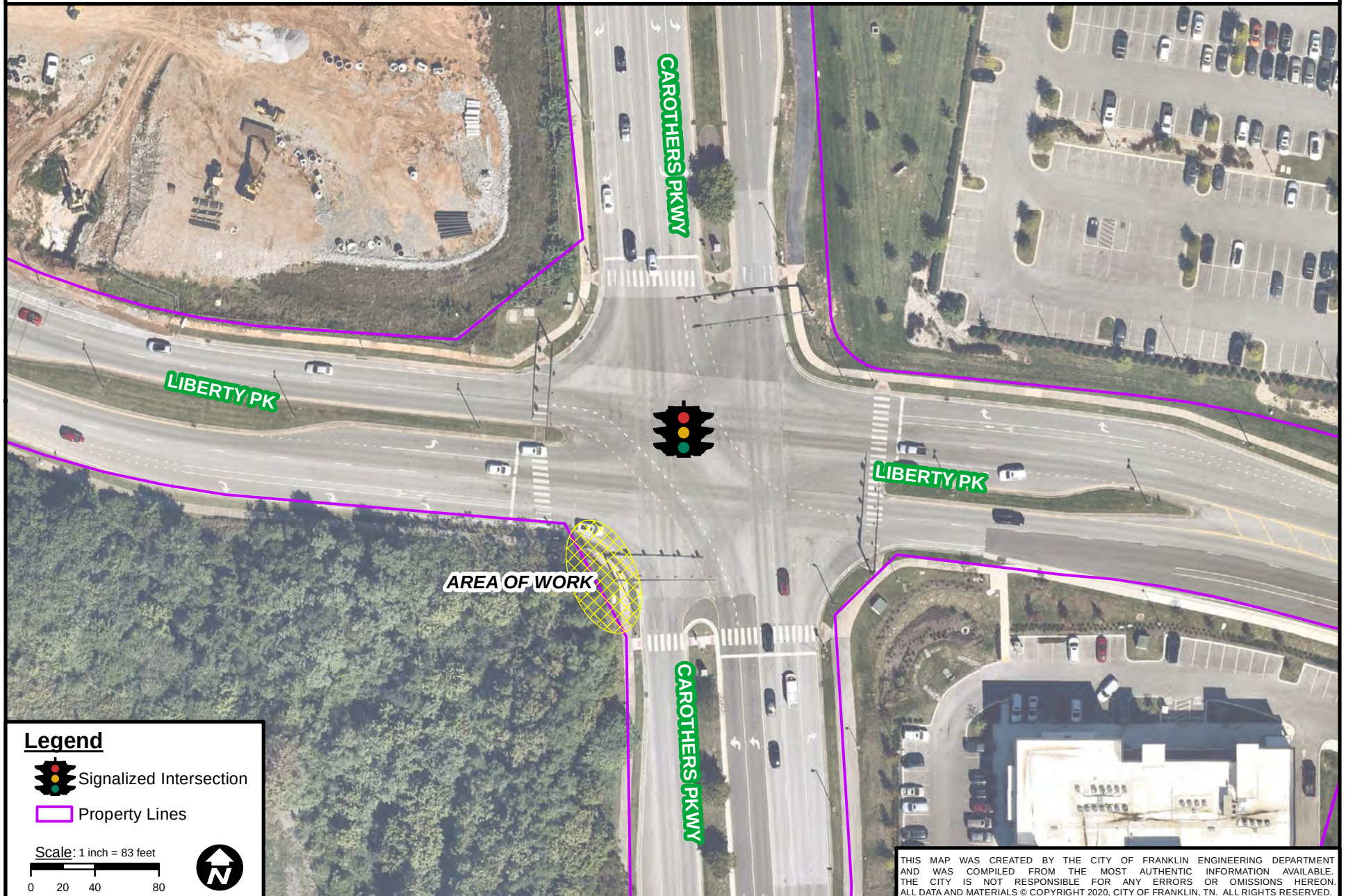




FRANKLIN ITS EXTENSION (TDOT PIN 116144.00)



CAROTHERS PARKWAY at LIBERTY PIKE (NEW CCTV CAMERA AND 50-FT POLE)

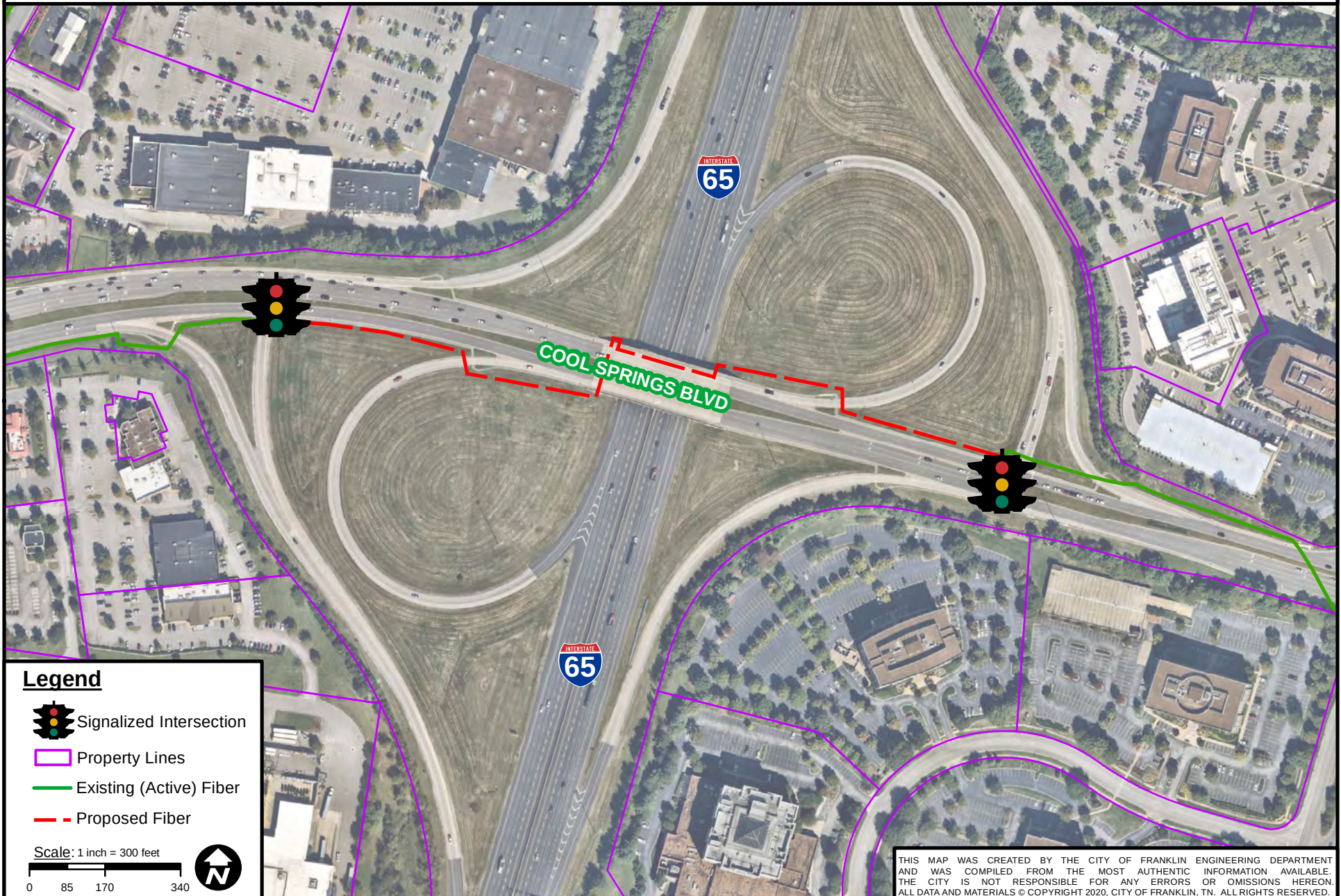




FRANKLIN ITS EXTENSION (TDOT PIN 116144.00)



I-65 at COOL SPRINGS BOULEVARD (FIBER OPTIC COMMUNICATION EXTENSION)





File #: 21-03599

DATE: September 15, 2022
TO: Capital Investment Committee
FROM: Eric Stuckey, City Administrator
Paul Holzen, Director of Engineering
Jonathan Marston, Asst. Director of Engineering

SUBJECT:

Capital Projects Dashboard And Status Updates For September 2022.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning the status of some of the City's transportation, stormwater, and parks capital projects.

BACKGROUND/STAFF COMMENTS:

To access the live dashboard for the City of Franklin Capital Investment Projects, please go to the following City webpage:

[COF Dashboard Link](#)

Manually locate the dashboard following the instructions below:

1. Go to the City of Franklin's main website at: <https://www.franklinton.gov/>,
2. Hover your mouse over "Our City" or "Business",
3. Click on "City Projects",
4. Click on "Capital Projects Dashboard".

FINANCIAL IMPACT:

N/A

RECOMMENDATION:

None

City of Franklin Capital Projects Dashboard

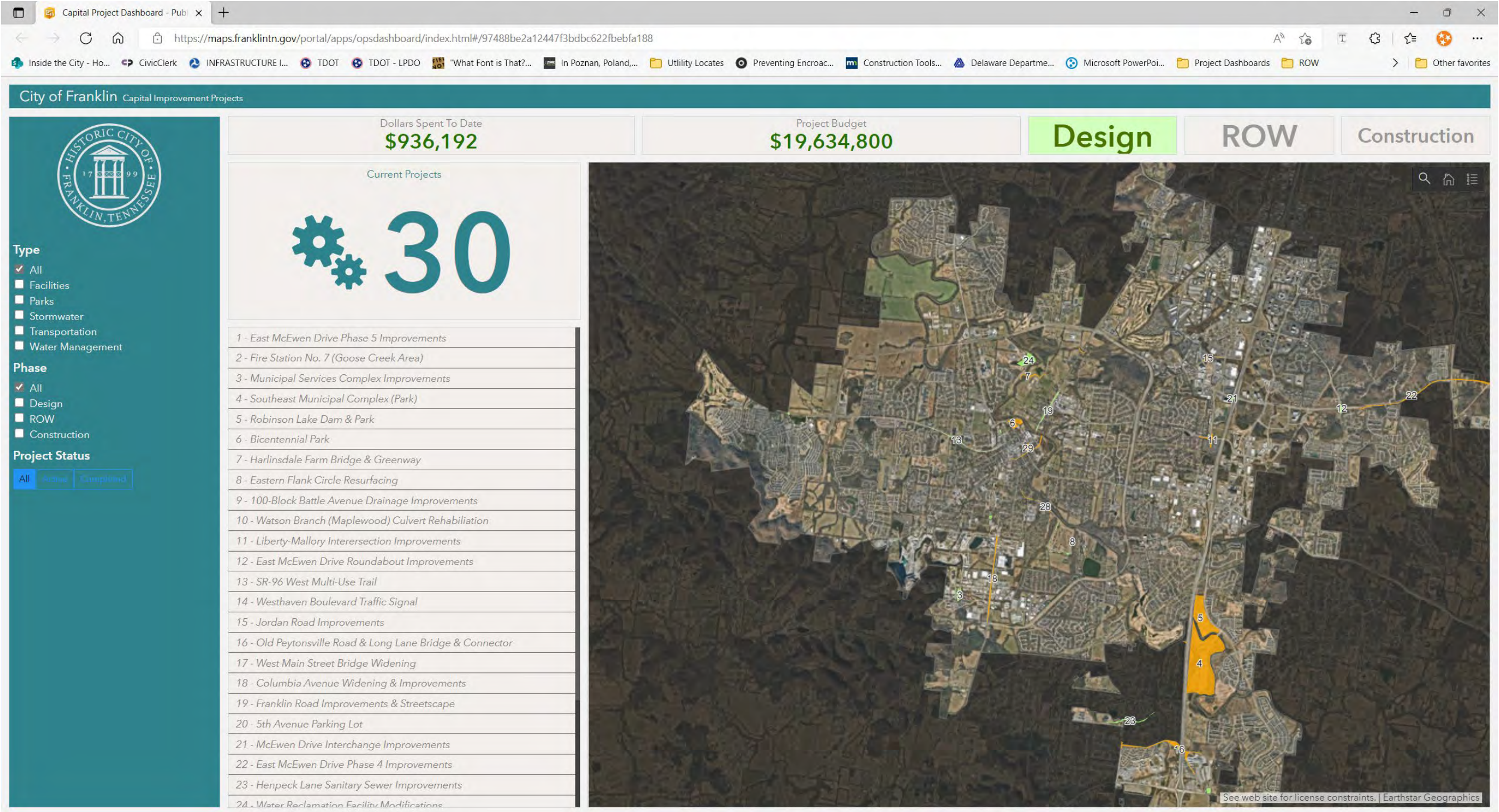


Image Captured from City of Franklin Website on 9/15/2022

Go to www.franklintn.gov >> Hover over “Our City” >> Click on “City Projects” >> Click on “Capital Projects Dashboard”

OR

Go to www.franklintn.gov >> Hover over “Business” >> Click on “City Projects” >> Click on “Capital Projects Dashboard”