



Waukesha Water Utility

SERVING WAUKESHA SINCE 1886

115 DELAFIELD STREET
WAUKESHA, WI 53188-3615

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MEMORANDUM

Date: October 15, 2021

To: Dan Duchniak, P.E.

From: Chris Walter, P.E.

Re: Request for Approval of Change Order No. 002 for CP2A

As part of the Great Water Alliance Contract Package 2A (Supply Pipeline), Super Excavators has requested the following Change Order for approval. A Summary of the items are described below:

Description of Change Order Item	Cost
Ductile Iron Pipe (30-inch Open Cut) Select Fill to Slurry Backfill	\$794,310.00
Misc. Quantity Adjustments	\$9,068.00
Station Suction Pipeline Modifications	-\$328,152.00
Coffee Road - Existing Underdrain Replacement	\$20,000.00
Oklahoma Avenue at 124th Street Temporary Traffic Signal Control Panel	\$8,342.74
Coffee Road at Johnson Road - Alignment Modifications	\$43,497.57
Coffee Road from Moorland Road to National Avenue - Additional Pavement Removals	\$1,981.08
Total =	\$549,047.39

Detailed supporting documentation with a description of each change order item is enclosed with this memo. Along with our Construction Management team, I have reviewed and approve of this Change Order.

Recommended Motion: Move to approve of the noted Change Order for Contract Packages 2A for a net total of \$549,047.39.

Contract Description

Project Overview:

Waukesha Water Utility (WWU) provides water treatment and distribution services to the City of Waukesha and isolated portions of the Town of Waukesha. WWU owns and operates a system of wells that pumps groundwater from the St. Peter Sandstone Aquifer for treatment and then to WWU's distribution system. The St. Peter Sandstone Aquifer, which has been the primary source of drinking water for not only the City of Waukesha but for communities throughout the Midwest, is being depleted in southeast Wisconsin. This depletion is due in large part to a natural layer of shale rock that restricts groundwater recharge. Depletion of the St. Peter Sandstone Aquifer has also caused increases in the concentrations of radium and other contaminants. As a result, the City of Waukesha needs a long-term, sustainable alternative to its existing water supply to protect public health.

The purpose of the Great Lakes Water Supply Program is to provide a new primary water supply to the City of Waukesha by connecting the city to the Milwaukee Water Works (MWW) supply system. The Department of Justice (DOJ) has placed restrictions on the Program which state that the Program must certify to the DOJ that all project construction is under contract and is 50 percent complete by May 1, 2022. In addition, certification that the Program has completed compliance with all federal and state drinking water radionuclide standards shall be provided by September 1, 2023.

Schedule Milestones	Contract Milestones	Days Added by Change Order	Revised Contract Milestone
CONTRACT DATES:			
Contract Award:	September 2, 2020	N/A	
Notice to Proceed (NTP):	October 19, 2020	N/A	
DOJ 50% Compliance Certification	May 1, 2022	0 days	
Substantial Completion (SC):	August 15, 2023	0 days	
Final Completion (FC):	October 14, 2023	0 days	
DOJ Final Completion Compliance	September 1, 2023	0 days	
Summary	Cost	Time	Totals
CONTRACT BASE BID AMOUNT:			
UNIT COST ITEMS:	\$33,077,039.00	N/A	
ADDITIONAL COST ITEMS:	\$497,700.00	N/A	
ALLOWENCE ITEMS:	\$360,000.00	N/A	
CONTRACT AWARD AMOUNT:			\$33,934,739.00
PREVIOUS APPROVED CHANGE ORDERS:			
Change Order No. 001	\$201,278.62	0 days	0.59%
ADJUSTED CONTRACT AMOUNT:			\$33,934,739.00 0.59%
THIS CHANGE ORDER			
Ductile Iron Pipe (30-in Open Cut) WSPL, Section I – Fill Requirements	\$794,310.00	0 days	
Bid Tab Line Item Unit Quantity Adjustments	\$9,068.00	0 days	
Station Suction Pipeline Modifications	(\$328,152.00)	0 days	
Coffee Road – Existing Underdrain Replacement	\$20,000.00	0 days	
Oklahoma Avenue at 124 th Street – Temporary Traffic Signal Control Panel	\$8,342.74	0 days	
Coffee Road at Johnson Road – Alignment Modifications	\$43,497.57	0 days	
Coffee Road from Moorland Road to National Avenue – Additional Pavement Removals	\$1,981.08	0 days	
This Change Order Total:			\$549,047.39 1.62%
REVISED CONTRACT AMOUNT:			\$34,136,017.62 0.59%

Waukesha Water Utility
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Great Water Alliance
Great Lakes Water Supply Program
CP2A - Water Supply Pipeline Section I, II and III Station
Suction Pipelines

Project No.: 199990-CP2A
File No.: 80.1710

Super Excavators, Inc.
N59 W14601 Bobolink Avenue
Menomonee Falls, WI 53051 USA

CHANGE ORDER

Change Order No.: 002 Rev.: 0.00

Contract Commitment: 199990-CP2A - Super Excavators, Inc. - CP2A - Supply Pipeline

Effective Date:

Subject: Contract Package 2A - Change Order No. 002

Workflow Status: Draft

REQUEST FOR CHANGE, ALTERATION OR MODIFICATION:

Description of Change, Alteration or Modification:

Item Nos. CO-02.01 through CO-02.03

Adjustments to the proposed unit item quantities for Ductile Iron Pipe (30-in Open Cut) WSP Section I, Common Fill, Select Fill and Flowable Fill. The acceptance of these changes results in a net increase of \$794,310.00 to the Contract Price.

No change in the Contract Time has been requested for this change.

Item Nos. CO-02.04 through CO-02.05

These Change Order Items include all labor, materials and equipment costs to adjust the original Contract Bid Tab Line Items indicated to As-Constructed Quantities. The acceptance of these changes results in a net increase of \$9,068.00 to the Contract Price.

No change in the Contract Time has been requested for this change.

Item Nos. CO-02.06 through CO-02.50

Work Change Directive No. 005 authorized the Contractor to proceed with work associated with the redesign of the Station Suction Pipeline included as part of the Water Supply Pipeline Segment III. Modifications to the Contract for all labor, material, and equipment cost to remove, add and adjust quantities of contract items defined in Work Change Directive No. 005.

Remove and replace paragraph 1.3.B.4.a. (1) in Specification Section 01 11 00 with the following language:

Coordinate with the Oklahoma Pumping Station for the installation of the restrained 30" ductile iron caps and 30-inch ductile iron pipeline at station 5448+92.80 and 6000+00. Provide pipe installation, pressure and leakage test as specified in Section 01 45 50 and restore the disturbed area between station 5448+92.80 and a point 100 linear

feet up station and between Station 6000+00 and a point 100 linear feet down-station no later than September 30, 2022. Do not provide pipeline closure with Oklahoma Pumping Station, which will be provided by others. Coordinate with the Oklahoma Pumping Station Contractor for the installation of the 12" ductile iron water main between the Contract Breaks with the Oklahoma Pumping Station and the pressure connection to the existing 16" ductile iron water main. Complete pipeline laying, ductile iron cap and pressure connection, pressure and leakage test as specified in Section 01 45 50, disinfection as specified in Section 33 13 00, and restore the disturbed area no later than September 30, 2022. Do not provide closure with the Oklahoma Pumping Station, which will be provided by others.

The acceptance of these changes results in a net decrease of \$328,152.00 to the Contract Price..

No change in the Contract Time has been requested for this change.

Item No. CO-02.51

This Change Order Item includes all labor, materials and equipment costs to remove and replace 598 LF of existing underdrain which parallels Coffee Road between STA 5090+00 and approx. STA 5107+75. This underdrain was located within the public right of way and was not shown in the Contract Documents.

The acceptance of these changes results in a net increase of \$20,000.00 to the Contract Price.

No change in the Contract Time has been requested for this change.

Item No. CO-02.52

This Change Order Item includes all labor, materials and equipment costs to provide and install a traffic signal control panel for use with the temporary traffic signal on Oklahoma Avenue at 124th Street. Due to the nature of the existing traffic signal control panel and wiring, the existing controller was not able to be used for this temporary arrangement.

The acceptance of these changes results in a net decrease of \$8,342.74 to the Contract Price.

No change in the Contract Time has been requested for this change.

Item No. CO-02.53

Field Order No. 011 modified the alignment of the Water Supply Pipeline along Coffee Road at Johnson Road to avoid the large existing trees at the northwest corner of Coffee Road and Johnson Road. This Change Order Item includes all labor, materials and equipment costs to shift the alignment as detailed in Field Order No. 011.

The acceptance of these changes results in a net increase of \$43,497.57 to the Contract Price.

No change in the Contract Time has been requested for this change.

Item No. CO-02.54

This Change Order Item includes all labor, materials and equipment costs to remove additional pavement on Coffee Road between Moorland Road and National Avenue to meet the requirements of the City of New Berlin permitting.

The acceptance of these changes results in a net increase of \$1,981.08 to the Contract Price.

No change in the Contract Time has been requested for this change.

	<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
1	CO-02.01	Additional Quantity - DI Pipe (30-in Open Cut) WSP Section I, Common Fill	845.00 LF	\$250.00	\$211,250.00
2	CO-02.02	Reduced Quantity - DI Pipe (30-in Open Cut) WSP Section I, Select Fill	-9,641.00 LF	\$340.00	\$-3,277,940.00
3	CO-02.03	Additional Quantity - DI Pipe (30-in Open Cut) WSP Section I, Flowable Fill	8,775.00 LF	\$440.00	\$3,861,000.00
4	CO-02.04	Additional Quantity - Driveway Pavement - Water Supply Pipeline Section I, Asphalt	22.00 Ton	\$320.00	\$7,040.00
5	CO-02.05	Additional Quantity - Polystyrene Insulation	676.00 SF	\$3.00	\$2,028.00
6	CO-02.06	Maintenance of Traffic, Station Suction Pipelines (Item No. 2SU)	-1.00 LS	\$20,000.00	\$-20,000.00
7	CO-02.07	Ductile Iron Pipe (Open Cut) 16-Inch, Station Suction Pipelines, Select Fill (Item No. 3SUA)	-3.00 LF	\$2,600.00	\$-7,800.00
8	CO-02.08	Ductile Iron Pipe (Open Cut) 16-Inch, Station Suction Pipelines, Flowable Fill (Item No. 3SUB)	-28.00 LF	\$1,800.00	\$-50,400.00
9	CO-02.09	Ductile Iron Pipe (Open Cut) 24-Inch, Station Suction Pipelines, Common Fill (Item No. 3SUC)	-168.00 LF	\$1,300.00	\$-218,400.00
10	CO-02.10	Ductile Iron Pipe (Open Cut) 24-Inch, Station Suction Pipelines, Select Fill (Item No. 3SUD)	-88.00 LF	\$1,400.00	\$-123,200.00
11	CO-02.11	Ductile Iron Pipe (Open Cut) 24-Inch, Station Suction Pipelines, Flowable Fill (Item No. 3SUE)	-26.00 LF	\$1,800.00	\$-46,800.00
12	CO-02.12	Ductile Iron Pipe (Open Cut) 30-Inch, Station Suction Pipelines, Common Fill (Item No. 3SUF)	-55.00 LF	\$2,200.00	\$-121,000.00
13	CO-02.13	Ductile Iron Pipe (Open Cut) 30-Inch, Station Suction Pipelines, Select Fill (Item No. 3SUG)	-122.00 LF	\$1,400.00	\$-170,800.00
14	CO-02.14	Ductile Iron Pipe in Steel Casing (Jack and Bore) 24-Inch, Station Suction Pipelines (Item No. 5SU)	-202.00 LF	\$4,400.00	\$-888,800.00
15	CO-02.15	Butterfly Valves 24-Inch, Station Suction Pipelines, Direct Buried (Item No. 6SUA)	-3.00 EA	\$33,000.00	\$-99,000.00
16	CO-02.16	Butterfly Valves 24-Inch, Station Suction Pipelines, In Vault (Item No. 6SUB)	-2.00 EA	\$75,000.00	\$-150,000.00
17	CO-02.17	Air Valve Assemblies, Station Suction Pipelines, Type II (Item No. 7SU)	-2.00 EA	\$13,000.00	\$-26,000.00
18	CO-02.18	Blow-Off Assemblies, Station Suction Pipelines (Item No. 8SU)	-2.00 EA	\$100,000.00	\$-200,000.00
19	CO-02.19	Base Course, Station Suction Pipelines (Item No. 10SU)	-231.00 Ton	\$31.00	\$-7,161.00
20	CO-02.20	Road Pavement, Station Suction Pipelines, Asphalt (Item No. 11SUA)	-85.00 Ton	\$172.00	\$-14,620.00

21	CO-02.21	Road Pavement, Station Suction Pipelines, 9-Inch Concrete Pavement (Item No. 11SUB)	-77.00 SY	\$110.00	\$-8,470.00
22	CO-02.22	Curb and Gutter, Station Suction Pipelines (Item No. 13SU)	-105.00 LF	\$38.00	\$-3,990.00
23	CO-02.23	Pedestrian Pavement, Station Suction Pipelines, Concrete Sidewalk (Item No. 14SU)	-473.00 SY	\$57.00	\$-26,961.00
24	CO-02.24	Driveway Pavement, Station Suction Pipelines, Concrete (Item No. 15SUA)	-27.00 SY	\$125.00	\$-3,375.00
25	CO-02.25	Erosion and Sedimentation Control, Station Suction Pipelines (Item No. 16 SU)	-1.00 LS	\$5,500.00	\$-5,500.00
26	CO-02.26	Landscape, Wetland, and Agricultural Restoration, Station Suction Pipelines (Item No. 17SU)	-403.00 SY	\$95.00	\$-38,285.00
27	CO-02.27	Oklahoma Avenue Pump Station Decommissioning (Item No. 19)	-1.00 LS	\$45,000.00	\$-45,000.00
28	CO-02.28	Fiber Optic Communication, Station Suction Pipelines (Item No. 20SU)	-330.00 LF	\$65.00	\$-21,450.00
29	CO-02.29	Station Suction Pipelines Connections (Item No. 21)	-1.00 LS	\$70,000.00	\$-70,000.00
30	CO-02.30	Maintenance of Traffic, Station Suction Pipelines (Item No. 2SU)	1.00 LS	\$20,000.00	\$20,000.00
31	CO-02.31	Ductile Iron Pipe (Open Cut) 24-Inch, Station Suction Pipelines, Flowable Fill (Item No. 3SUE)	9.00 LF	\$1,800.00	\$16,200.00
32	CO-02.32	Ductile Iron Pipe (Open Cut) 30-Inch, Station Suction Pipelines, Common Fill (Item No. 3SUF)	139.00 LF	\$2,400.00	\$333,600.00
33	CO-02.33	Ductile Iron Pipe (Open Cut) 30-Inch, Station Suction Pipelines, Select Fill (Item No. 3SUG)	157.00 LF	\$2,550.00	\$400,350.00
34	CO-02.34	30-Inch, Station Suction Pipelines, Flowable Fill (Item No. 3SUH)	24.00 LF	\$3,200.00	\$76,800.00
35	CO-02.35	Ductile Iron Pipe in Steel Casing (Jack and Bore) 30-Inch, Station Suction Pipelines (Item No. 5SU)	101.00 LF	\$7,900.00	\$797,900.00
36	CO-02.36	Butterfly Valves 30-Inch, Station Suction Pipelines, In Vault (Item No. 6SUB)	1.00 EA	\$125,000.00	\$125,000.00
37	CO-02.37	Air Valve Assemblies, Station Suction Pipelines, Type II (Item No. 7SU)	1.00 EA	\$13,000.00	\$13,000.00
38	CO-02.38	Blow-Off Assemblies, Station Suction Pipelines (Item No. 8SU)	1.00 EA	\$103,000.00	\$103,000.00
39	CO-02.39	Base Course, Station Suction Pipelines (Item No. 10SU)	169.00 Ton	\$31.00	\$5,239.00
40	CO-02.40	Road Pavement, Station Suction Pipelines, Asphalt (Item No. 11SUA)	88.00 Ton	\$210.00	\$18,480.00
41	CO-02.41	Road Pavement, Station Suction Pipelines, 9-Inch Concrete Pavement (Item No. 11SUB)	15.00 SY	\$110.00	\$1,650.00
42	CO-02.42	Curb and Gutter, Station Suction Pipelines (Item No. 13SU)	38.00 LF	\$38.00	\$1,444.00

43	CO-02.43	Pedestrian Pavement, Station Suction Pipelines, Concrete Sidewalk (Item No. 14SU)	171.00 SY	\$57.00	\$9,747.00
44	CO-02.44	Driveway Pavement, Station Suction Pipelines, Concrete (Item No. 15SUA)	5.00 SY	\$125.00	\$625.00
45	CO-02.45	Erosion and Sedimentation Control, Station Suction Pipelines (Item No. 16SU)	1.00 LS	\$5,500.00	\$5,500.00
46	CO-02.46	Landscape, Wetland, and Agricultural Restoration, Station Suction Pipelines (Item No. 17SU)	56.00 SY	\$95.00	\$5,320.00
47	CO-02.47	Oklahoma Avenue Pump Station Decommissioning (Item No. 19)	1.00 LS	\$45,000.00	\$45,000.00
48	CO-02.48	Fiber Optic Communication, Station Suction Pipelines (Item No. 20SU)	14.00 LF	\$150.00	\$2,100.00
49	CO-02.49	Station Suction Pipelines Connections (Item No. 21)	1.00 LS	\$85,000.00	\$85,000.00
50	CO-02.50	Milwaukee Water Works Fixed Cost Adjustment	1.00 LS	\$-27,095.00	\$-27,095.00
51	CO-02.51	Coffee Road Underdrain STA 5090+00	1.00 LS	\$20,000.00	\$20,000.00
52	CO-02.52	Temporary Traffic Signal Control Cabinet Oklahoma Avenue at 124th Street	1.00 LS	\$8,342.74	\$8,342.74
53	CO-02.53	Water Supply Pipeline Alignment Modifications - STA 5010+00	1.00 LS	\$43,497.57	\$43,497.57
54	CO-02.54	Additional Removals - Coffee Road Paved Shoulder	1.00 LS	\$1,981.08	\$1,981.08

	<u>Amount</u>	<u>Duration</u>
ORIGINAL CONTRACT:	\$33,934,739.00	1,090.00 Days
PREVIOUSLY APPROVED CHANGES:	<u>\$201,278.62</u>	<u>0.00 Days</u>
ADJUSTED CONTRACT:	\$34,136,017.62	1,090.00 Days
 TOTAL THIS CHANGE ORDER:	 <u>\$549,047.39</u>	 <u>0.00 Days</u>
REVISED CONTRACT:	\$34,685,065.01	1,090.00 Days

It is agreed by the Contractor that this Change Order includes any and all costs associated with or resulting from the change(s) ordered herein, including all impact, delays and acceleration costs. Other than the dollar amount and time allowance listed above, there shall be no further time or dollar compensation as a result of this Change Order.

THIS DOCUMENT WILL BECOME AN AMENDMENT TO THE CONTRACT AND ALL STIPULATIONS AND COVENANTS OF THE CONTRACT SHALL APPLY HERETO.
