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AGENDA

Business Meeting of the Niagara Falls Water Board January 30, 2023 at 5:00 p.m.

<u>NOTE: Meeting to be held at Wastewater Treatment Plant Conference Room</u> <u>1201 Buffalo Avenue, Niagara Falls, NY 14304</u>

Meeting may be attended in person or via videoconference – visit NFWB.org for details.

- 1. Preliminary Matters
 - a. Attendance:

Asklar (Board Member/Chairman of Finance/Member Exec. Staff Review Cmte.)

Kimble (Board Member) _____

Larkin (Board Member/Vice Chairwoman/Governance Chairwoman/ Chairwoman Exec. Staff Review Cmte.)

Leffler (Board Member/Member Exec. Staff Review Cmte.)

Forster (Chairman) _____

- b. Public Comments (All speakers must register with the meeting clerk prior to roll call and are limited to three minutes per person total time for all speakers may not exceed one hour).
- c. Comments from Chairman Forster
- d. Presentations (none scheduled)

- e. Letters and Communications
 - i. 2023-01-17 COVID Wastewater Surveillance Update Memorandum
- f. Prior Meeting Minutes
 - i. Draft December 19, 2022 Meeting Minutes
- 2. Executive Director Dr. Abderrahman Zehraoui
 - a. WWTP Project Budget Tracker (CPL)
 - b. WWTP Construction Schedule Tracker (CPL)
 - c. Financial Award Summary (CPL)
- 3. System Infrastructure and Operations Russell DeFranco
- 4. Outside Infrastructure Updates Michael Eagler
- 5. Engineering Douglas Williamson
- 6. Personnel Items David San Lorenzo
 - a. January 30, 2023 Personnel Actions
 - b. Updated Organizational Chart
- 7. Information Technology (IT) Dr. Abderrahman Zehraoui
- 8. Finance Brian Majchrowicz
 - a. Revenue Budget Performance Report through December 31
 - b. Sewer Fund Expense Budget Performance Report through December 31
 - c. Water Fund Expense Budget Performance Report through December 31
 - d. Board Fund Expense Budget Performance Report through December 31
 - e. Key Bank and Bank on Buffalo Balance Report
 - f. Wilmington Trust Balance Report
 - g. Treasury Account Balance Report
 - h. Budget Amendments Report
 - i. December 2022 Capital Payments

- 9. Questions Regarding December 2022 Operations and Maintenance Report
- 10. Safety John Accardo
- 11. General Counsel and Secretary Sean Costello
- **12. From the Chairman**
- **13. Resolutions**

2023-01-001 – LUCITY SOFTWARE SUPPORT AND MAINTENANCE RENEWAL a. Lucity Renewal Invoice 369970

2023-01-002 – AUTHORIZING PROCUREMENT OF BACKUP MAIN PUMP VARIABLE FREQUENCY DRIVE

- a. 2023-01-04 Rexel Quote for VFD
- b. 2023-01-09 Rexel Sole Source Letter for Allen-Bradley VFD

2023-01-003 – AWARD BID FOR GRANULATED ACTIVATED CARBON SUPPLY AND REMOVAL

a. Granulated Activated Carbon Award Recommendation and Bid Tally

2023-01-004 – GHD PROJECT 2 CONSTRUCTION PHASE SERVICES AMENDMENT a. GHD Proposal Dated January 17, 2023

2023-01-005 – WATER SUPPLY AGREEMENT WITH NIAGARA COUNTY WATER DISTRICT

a. Proposed Water Supply Agreement

2023-01-006 – REQUIRING ANNUAL REVIEW AND REPORT ON EMERGENCY RESPONSE PLANS

2023-01-007 – WWTP PROJECT 7 CHANGE ORDERS

- a. 2023-01-24 EI Team Project 7 Change Order Recommendations
- b. <u>CIR WWTP Project 7 Change Order No. 2</u>
- c. Danforth WWTP Project 7 Change Order No. 1

2023-01-008 – AWARD BID FOR ONE TON CHLORINE CYLINDERS a. JCI Chlorine Cylinder Bid Price and Exceptions

2023-01-009 – ACCEPTING PROPOSAL FOR WTP FLUORIDE SYSTEM ASSESSMENT a 2023 01 25 Proposal from C&S Engineers Inc

a. <u>2023-01-25 Proposal from C&S Engineers, Inc.</u>

14. Unfinished/Old Business

- 1) Board Room WTP:
 - 12/15/22: Proposal for videoconference equipment obtained; floor prepared for carpet installation; doorway work completed; some finish work underway; waiting for delivery of desk.
 - 1/19/23: Finish work underway; plan is to be ready for the February 27 Board meeting.

2) WWTP Sodium Hypochlorite Tank Replacement

- 7/14/22: The 2021 WIIA Sewer (WWTP) Grant of \$1,125,000 was awarded on April 19, 2022 that included the some of the funds necessary to complete the WWTP tank removal and replacement work. We may be able to utilize some of the remaining balance of the WWTP Phase II grant to assist with this work, as well. We need approval from the NYSDEC to include some of the WWTP tank replacement work under this WWTP Phase II grant. The draft WWTP Tank Replacement RFP that was created needs to be finalized to show the grant funding sources that have been approved for the project, before we can proceed.
- 9/22/22: Next step is requesting approval to use Phase II grant funds (will be packaged with other projects).
- 12/15/22: DEC preliminary comments on use of Phase II grant funds being reviewed and addressed.
- 1/19/23: CPL revising memorandum regarding Phase II projects for re-submission to DEC.

3) Whitney Ave. Water Main Replacement

- 9/22/22: Design documents to be submitted to DOH for approval by 10/1.
- 11/11/22: Received comments from NYS. Preparing response letter for submission.
- 1/19/23: Waiting for DOH reply to comment response letter.

4) 18th Street Water Main Replacement

- 7/14/22: 4th Generation was awarded bid at June 2022 Board meeting. 30-week lead time for material delivery.
- 9/22/22: Construction planned to commence in Spring 2023.
- 1/19/22: Still on target for Spring 2023 construction.

5) WTP Perimeter Fence Replacement Update

- 7/14/22: The 2021 WIIA Water Grant application of \$3 million was awarded on April 19, 2022 that included some funds that can be used for the WTP perimeter fence replacement work. On 7/13/22, the capital purchase order for the \$8,000 brush hog was completed to assist with the work in-house. WTP maintenance to schedule and coordinate the fencing work.
- 9/22/22: Brush hog delivered, Outside Maintenance has used it to clear along the fence line.
- 11/10/22: Obtaining quotes related to fence and other security needs, meeting OGS-listed contractor 11/17.
- 1/19/23: Project to be attempted in Spring with outside maintenance installing posts.

6) Paychex Payroll System Update

- 01/09/23: System is live for payroll, HR staff is currently reviewing each employee's accrued time for 2023 to ensure it was added correctly.
- 01/17/23: Downloaded, printed, and distributed 2022 W-2's.

7) Review of Internal Controls on Gate Access Cards and Master Keys

- 12/15/22: R. DeFranco addressing deficiencies in stockpile of access keys and inventory control via lock and key vendor.
- 1/19/2022: Please see Security section of monthly O&M report for ongoing updates to this item.

15. New Business & Additional Items for Discussion

16. Executive Session: Anticipated motion to enter into executive session for the purpose of considering matters leading to the appointment, employment, promotion, demotion, or removal of a particular person (Public Officers Law § 105(f)).

17. Adjournment of Meeting



MINUTES

Business Meeting of the Niagara Falls Water Board December 19, 2022 at 5:00 p.m.

NOTE: Meeting was held at the Wastewater Treatment Plant Conference Room, 1201 Buffalo Avenue, Niagara Falls, NY 14304. Videoconference attendance also was facilitated as set forth in the meeting notice, and Board Members were permitted to participate and vote via videoconference pursuant to Resolution 2022-10-001, Resolution to Permit Videoconference Meetings in Accordance with Part WW of Chapter 56 of the Laws of 2022.

1. Preliminary Matters:

Chairman Forster called the meeting to order at 5:00 p.m.

Board Member Kimble delivered a prayer entering the holiday season, thanking God for blessings, and invoking God's wisdom and guidance in the future.

a. Attendance:

Asklar (Board Member/Chairman of Finance/Member Exec. Staff Review Cmte.) Present

Forster (Chairman) Present

Kimble (Board Member) Present via Videoconference

Larkin (Board Member/Vice Chairwoman/Governance Chairwoman/ Chairwoman Exec. Staff Review Cmte.) <u>Present</u>

Leffler (Board Member/Member Exec. Staff Review Cmte.) Present

b. Public Comments (All speakers must register with the meeting clerk prior to roll call and are limited to three minutes per person – total time for all speakers may not exceed one hour).

None.

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c. Comments from Chairman Forster

Chairman Forster expressed gratitude to Dr. Zehraoui for his efforts and further asks that he relay the Board's gratitude to the executive staff as well as the rest of the staff at the NFWB.

Chairman Forster then requested a motion to enter into executive session to discuss items listed on the personnel actions sheet and that the Board vote on these items before proceeding with the rest of the meeting.

Motion by Board Member Asklar and seconded by Board Member Larkin to enter into executive session for the purpose of considering matters related to promotion and employment of particular persons as indicated in Personnel Actions sheet (Public Officers Law § 105(f)) at 5:03 p.m.

Asklar __Y__Forster __Y__Kimble __Y__Larkin __Y__Leffler __Y__

Motion carried, 5-0.

Motion by all Board Members to exit executive session and return to the open meeting at 5:40 p.m.

Asklar <u>Y</u>Forster <u>Y</u>Kimble <u>Y</u>Larkin <u>Y</u>Leffler <u>Y</u>

Motion carried, 5-0.

Motion by Board Member Larkin and seconded by Board Member Asklar to approve Item B1 from the Personnel Actions sheet, promotion for David Roeser to Senior WTP Operator, with a pay increase equal to \$5,137.60 per annum.

Asklar __Y_Forster __Y_Kimble __Y_Larkin __Y_Leffler __Y__

Motion carried, 5-0.

Motion by Board Member Larkin and seconded by Board Member Asklar to approve so much Item B2 from the Personnel Actions sheet for the promotion of Brian Majchrowicz to Director of Financial Services.

Asklar Y_Forster Y_Kimble Y_Larkin Y_Leffler Y_

Motion carried, 5-0.

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Motion by Board Member Asklar and seconded by Board Member Larkin to approve a salary increase for Brian Majchrowicz, Director of Financial Services, equal to \$3,437.67 per annum.

Asklar __Y_Forster __Y_Kimble__N_Larkin__Y_Leffler__Y__

Motion carried, 4-1.

Motion by Board Member Asklar and seconded by Board Member Leffler to approve a salary increase for Douglas Williamson, Director of Technical and Regulatory Services, equal to \$3,262.88 per annum.

Asklar __Y_Forster __Y_Kimble__N_Larkin__Y_Leffler__Y__

Motion carried, 4-1.

Motion by Board Member Larkin and seconded by Board Member Leffler to approve a salary increase for John Accardo, Deputy Director of Administrative Services, equal to \$2,101 per annum.

Asklar __Y_Forster __Y_Kimble__N_Larkin__Y_Leffler__Y__

Motion carried, 4-1.

d. Presentations (none scheduled)

None.

- e. Letters and Communications
 - i. 2022-12-15- COVID Wastewater Surveillance Update Memorandum
- f. Prior Meeting Minutes
 - i. Draft November 14, 2022 Meeting Minutes

Motion by Board Member Larkin and seconded by Board Member Leffler to approve the November 14, 2022 meeting minutes.

Asklar Y_Forster Y_Kimble Y_Larkin Y_Leffler Y_

Motion carried, 5-0.

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- 2. Executive Director Dr. Abderrahman Zehraoui
 - a. WWTP Project Budget Tracker (CPL)
 - b. WWTP Construction Schedule Tracker (CPL)
 - c. Financial Award Summary (CPL)

Nick Bayer from CPL provided the Board with updates on WWTP projects:

- Project 1 Basin 4 repairs are scheduled to be completed by the end of the year.
- Project 2 Ongoing working on remaining close out issues with GHD.
- Project 3 Received update from Arcadis Dan Seider will now be managing this project. The Chairman asks Mr. Bayer to report to the Board exactly how far behind this project remains.
- Project 7 Completion of duct work is needed.

Chairman Forster questions the status of a weir leveling issue and cracking of the new concrete in basin 5. He requests clarification on recent discussion regarding a potential change order for that project. Jay Meyers states both basin 4 and basin 5 have some cracking in the new concrete, but the cracks do not in his opinion impact the structural integrity of the concrete and will not get worse over time. The construction was per the design specifications, and the suggested coating to cover the cracks will add about \$80,000 to the overall project cost, so Mr. Meyers does not recommend that the coating work be completed. The weir levels have been corrected using a laser level.

The Board reviewed an incident earlier that morning where a contractor opened a building penetration at the sludge pump building before the sludge level in the connected thickener was below the inlet of the pipe, which resulted in flooding into the sludge pump building. Water Board staff cleaned up the resulting mess but there will be a back charge to the contractor, Danforth, for the cleanup work and for the cost to verify the pump motors were not compromised.

3. System Infrastructure and Operations – Russell DeFranco

Mr. DeFranco noted a recent server malfunction that took place at WWTP. He completed a walk through of the server room with Jonathan Joyce (IT) and notes there is some outdated equipment, as some of the current servers were purchased/installed in 2002. Mr. DeFranco states new servers are needed and Mr. Joyce is working on quotes.

Ferguson Electric is going to provide a proposal for de-energizing a furnace at the WWTP for the purpose of facilitating demolition.

Certain smoke detectors at the WTP are not in an appropriate location resulting in malfunctions. They are located over basins of water and associated walkways, where there is little fire hazard but vapors damage the sensors. Instead of replacing these smoke detectors,

Mr. DeFranco is seeking approval from Fire and Code officials to replace the detectors with pull alarm stations, which would save approximately \$10,000.

4. Outside Infrastructure Updates – Michael Eagler

Mr. Eagler noted that the WTP conference room renovation should be complete by February.

5. Engineering – Douglas Williamson

Mr. Williamson discussed evaluation of the two proposals received in response to the RFP for LaSalle Consent Order Sanitary Sewer Evaluation Survey work.

- 6. Personnel Items David San Lorenzo
 - a. December 19, 2022 Personnel Actions

The Personnel Actions were addressed earlier in the meeting.

7. Information Technology (IT) – Dr. Abderrahman Zehraoui

Dr. Zehraoui states he will be meeting with the IT staff tomorrow morning to further discuss some on-going issues.

Chairman Forster states there are still 48 employees at the NFWB that do not have email addresses and would like this rectified as soon as possible in order to have a reliable way to communicate to all employees and for all employees to have a NFWB email address to use with Paychex.

Dr. Zehraoui states he will provide the Board with an update tomorrow detailing when email addresses will be provided for all employees, and that next month he will supply a detailed report on IT projects.

- 8. Finance Brian Majchrowicz
 - a. Drip Program Continuation
 - b. Revenue Budget Performance Report through November 30
 - c. Sewer Fund Expense Budget Performance Report through November 30
 - d. Water Fund Expense Budget Performance Report through November 30
 - e. Board Fund Expense Budget Performance Report through November 30
 - f. Key Bank and Bank on Buffalo Balance Report
 - g. Wilmington Trust Balance Report

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- h. Treasury Account Balance Report
- i. Budget Amendments Report
- j. November 2022 Capital Payments

Mr. Majchrowicz stated that unless the Board objects, the "drip program" will be continued for this winter. There are approximately 140 homes on the list for the drip program.

- 9. Questions Regarding November 2022 Operations and Maintenance Report
- **10.** Safety Russell DeFranco

Mr. DeFranco is working to set up a trip to an Erie County Water Authority plant to learn about the security system employed there, as he looks to upgrade security at NFWB plants.

General Counsel and Secretary – Sean Costello

 Update on One Ton Chlorine Cylinders

Mr. Costello noted that after receiving no bids in October for one-ton gaseous chlorine cylinders, the Water Board worked with City of Niagara Falls Purchasing to re-bid that contract, this time including language allowing a price escalation at six months based on the Producer Price Index for Chlorine, Sodium Hydroxide, and Other Alkalies. Still, no bids were received. Work immediately began on a Safe Drinking Water Act Section 1441 application to request that the Federal Government order a producer to supply this chemical. However, following consultation with suppliers and producers, JCI has offered to supply chlorine for six months. We are trying to work with JCI to have them submit their offer as a bid. Mr. Costello noted that the WTP has room to store weeks' worth of chlorine cylinders, so there is a little more cushion than was the situation with sodium hypochlorite at the WWTP in 2021, as we have less than a day's worth of storage for sodium hypochlorite there.

- **12. From the Chairman**
- 13. Resolutions

RESOLUTION 2022-12-001 – 2023 BOARD MEETING SCHEDULE

- a. Board Meeting Dates 2023
- b. 2023 Contractual Holidays

Motion by Board Member Larkin and seconded by Board Member Leffler to approve.

Asklar __Y_Forster __Y_Kimble __Y_Larkin __Y_Leffler __Y__

Motion carried, 5-0.

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2022-12-002 – 2022 ANNUAL REVIEW OF MISSION STATEMENT, ADOPTION OF AND REPORT ON PERFORMANCE MEASUREMENTS, AND REPORT ON OPERATIONS AND ACCOMPLISHMENTS

a. 2022 Annual Review of Mission Statement, Performance Measurements, Report on Ops and Accomplishments

Motion by Board Member Larkin and seconded by Board Member Leffler to approve.

Asklar __Y_Forster __Y_Kimble __Y_Larkin __Y_Leffler __Y_

Motion carried, 5-0.

2022-12-003 – ANNUAL REVIEW OF PROCUREMENT AND INVESTMENT POLICIES AND ADOPTION OF REVISIONS

- a. 2022-12-19 Draft Revised NFWB Procurement Policy
- b. 2022-12-19 NFWB Investment Policy

Motion by Board Member Larkin and seconded by Board Member Asklar to approve.

Asklar __Y_Forster __Y_Kimble __Y_Larkin __Y_Leffler __Y__

Motion carried, 5-0.

2022-12-004 – AWARD BID FOR PRIMARY TREATMENT POLYMER

- a. 2022-12-12 Primary Treatment Polymer Testing Results
- b. Bid W2022-03 Primary Treatment Polymer Unofficial Tally Sheet

Motion by Board Member Asklar and seconded by Board Member Larkin to approve.

Asklar __Y_Forster __Y_Kimble __Y_Larkin __Y_Leffler __Y_

Motion carried, 5-0.

2022-12-005 – AWARD BID FOR SLUDGE DEWATERING POLYMER

- a. 2022-12-12 Sludge Dewatering Polymer Testing Results
- b. Bid W2022-04 Sludge Dewatering Polymer Unofficial Tally Sheet

Motion by Board Member Larkin and seconded by Board Member Asklar to approve.

Asklar __Y_Forster __Y_Kimble __Y_Larkin __Y_Leffler __Y__

Motion carried, 5-0.

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2022-12-006 – AGREEMENT FOR ONSITE ENVIRONMENTAL MONITOR SERVICES a. 2022-10-11 - AECOM Onsite Environmental Monitor Proposal

Motion by Board Member Asklar and seconded by Board Member Leffler to approve.

Asklar __Y__Forster __Y__Kimble __Y__Larkin __Y__Leffler __Y__

Motion carried, 5-0.

2022-12-007 – ACCEPTING PROPOSAL FOR LASALLE AREA SANITARY SEWER EVALUATION SURVEY PHASE 1

- a. 2022-12-05 RFP 2022-01 NFWB Award Recommendation Memo
- b. 2022-12-08 Arcadis NFWB Sanitary Sewer Evaluations Proposal

Motion by Board Member Leffler and seconded by Board Member Larkin to approve.

Asklar __Y_Forster __Y_Kimble __Y_Larkin __Y_Leffler __Y__

Motion carried, 5-0.

2022-12-008 – FUNDS FOR CONTINUED INFRASTRUCTURE FUNDING EFFORTS a. 2022-12-02 - CPL Proposal for 2023 Extension of Infrastructure Funding Effort

Motion by Board Member Asklar and seconded by Board Member Leffler to approve.

Asklar __Y__Forster __Y__Kimble__Y__Larkin__Y__Leffler__Y__

Motion carried, 5-0.

2022-12-009 – AUTHORIZING VOLTAGE FILTERS FOR WWTP ELEVATORS a. 2022-12-09 - DCB Proposal for Elevator Voltage Filters

Chairman Forster states how costly DCB Elevator is for the NFWB. Chairman Forster asks Mr. Majchrowicz to provide the Board Members with 2021 costs and 2022 costs.

Motion by Board Member Leffler and seconded by Board Member Larkin to approve.

Asklar Y_Forster Y_Kimble Y_Larkin Y_Leffler Y_

Motion carried, 5-0.

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2022-12-010 – AUTHORIZING MONTHLY CHARGES FOR DATA BACKUP AND RECOVERY SERVICES

a. 2022-09-22 - Veeam Backup Services Monthly Recurring Charges

Motion by Board Member Larkin and seconded by Board Member Asklar to approve.

Asklar __Y_Forster __Y_Kimble__Y_Larkin__Y_Leffler__Y__

Motion carried, 5-0.

2022-12-011 – VIDEOCONFERENCE TECHNOLOGY FOR WTP CONFERENCE ROOM

a. 2022-12-15 - Park Place Installations Quote for Videoconference Technology

Motion by Board Member Asklar and seconded by Board Member Larkin to approve.

Asklar Y_Forster Y_Kimble Y_Larkin Y_Leffler Y_

Motion carried, 5-0.

2022-12-012 – CHANGE ORDER 1 AND FINAL FOR EMERGENCY 12 INCH COMBINED SEWER REPAIR AT 2214 WHITNEY AVENUE

a. 2022-10-25 - Memorandum Regarding 2214 Whitney Avenue Change Order 1 and Final

Motion by Board Member Asklar and seconded by Board Member Larkin to approve.

Asklar __Y__Forster __Y__Kimble__Y__Larkin__Y__Leffler__Y__

Motion carried, 5-0.

2022-12-013 – WWTP PROJECT 10 CHANGE ORDER 2 FOR SCADA UPDATES AT GPS

a. 2022-12-07 - Capital Project 10 Proposed Change Order 2

Chairman Forster expressed frustration with the endless change orders and is unsure why this matter would have been overlooked during the design phase of this project.

Motion by Board Member Larkin and seconded by Board Member Kimble to approve.

Asklar __Y__Forster __Y__Kimble__Y__Larkin__Y__Leffler__Y__

Motion carried, 5-0.

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2022-12-014 – AUTHORIZING SETTLEMENT OF GOODEARL CLAIM a. Goodearl, Edward Notice of Claim

Motion by Board Member Larkin and seconded by Board Member Leffler to approve.

Asklar __Y__Forster __Y__Kimble __Y__Larkin __Y__Leffler __Y__

Motion carried, 5-0.

14. Unfinished/Old Business

1) Board Room WTP:

- 9/22/22: The acoustical ceiling grid has been laid out and drawing on CAD. The existing ceiling lights have been removed and new ones have been ordered. We received shop drawings on 8/19/22 and are waiting on the fabrication of the conference room desk.
- 10/20/22: The communications pipe, the last obstruction that requires relocation, will be removed on October 31.
- 12/15/22: Proposal for videoconference equipment obtained; floor prepared for carpet installation; doorway work completed; some finish work underway; waiting for delivery of desk.

2) WWTP Sodium Hypochlorite Tank Replacement

- 7/14/22: The 2021 WIIA Sewer (WWTP) Grant of \$1,125,000 was awarded on April 19, 2022 that included the some of the funds necessary to complete the WWTP tank removal and replacement work. We may be able to utilize some of the remaining balance of the WWTP Phase II grant to assist with this work, as well. We need approval from the NYSDEC to include some of the WWTP tank replacement work under this WWTP Phase II grant. The draft WWTP Tank Replacement RFP that was created needs to be finalized to show the grant funding sources that have been approved for the project, before we can proceed.
- 9/22/22: Next step is requesting approval to use Phase II grant funds (will be packaged with other projects).
- 12/15/22: DEC preliminary comments on use of Phase II grant funds being reviewed and addressed prior to formal submission of requests anticipated by end of year.

3) Whitney Ave. Water Main Replacement

- 9/22/22: Design documents to be submitted to DOH for approval by 10/1.
- 11/11/22: Received comments from NYS. Preparing response letter for submission.

4) 18th Street Water Main Replacement

- 7/14/22: 4th Generation was awarded bid at June 2022 Board meeting. 30-week lead time for material delivery.
- 9/22/22: Construction planned to commence in Spring 2023.

5) WTP Perimeter Fence Replacement Update

- 7/14/22: The 2021 WIIA Water Grant application of \$3 million was awarded on April 19, 2022 that included some funds that can be used for the WTP perimeter fence replacement work. On 7/13/22, the capital purchase order for the \$8,000 brush hog was completed to assist with the work in-house. WTP maintenance to schedule and coordinate the fencing work.
- 9/22/2022: Brush hog delivered, Outside Maintenance has used it to clear along the fence line.
- 11/10/2022: Obtaining quotes related to fence and other security needs, meeting OGS-listed contractor 11/17.

6) Paychex Payroll System Update

- 10/20/22: System is live for payroll, work continues on integrating accruals and time-off requests.
- 12/15/22: Efforts to further integrate Paychex continue.

7) Review of Internal Controls on Gate Access Cards and Master Keys

• 12/15/22: R. DeFranco addressing deficiencies in stockpile of access keys and inventory control via lock and key vendor.

15. New Business & Additional Items for Discussion

16. Executive Session (Anticipated motion to enter into executive session for the purpose of considering matters related to promotion and employment of particular persons as indicated in Personnel Actions sheet (Public Officers Law § 105(f)).

Note: The Board chose to enter Executive Session at the beginning of the meeting.

17. Adjournment of Meeting

Motion by all Board Members to adjourn the meeting at 6:50 p.m.

Asklar Y_Forster Y_Kimble Y_Larkin Y_Leffler Y_

Motion carried, 5-0.

Niagara Falls Water Board

Personnel Actions and Report

Monday, January 30, 2023

Personnel Actions Sheet & Requested of the Board. All appointments are subject to the appointee meeting the minimum qualifications and all applicable civil service conditions.							
A. PERSONNEL ACTIONS RECOMMEND TO HIRE							
Line Item Number	Position	Department/Location	Pay Rate or Grade	ADDITIONAL INFORMATION			
<u>1</u>	Operator Trainee (2)	Operations	\$19.96/hourly	Fill anticipated vacancies. One at each Plant.			

B. RECOMMENDED PROMOTION / MOVE / APPOINTMENT							
Line Item Number	Name and Position Type of labor move Change in pay rate grade		Name and Position Type of labor move Change in page grade		Change in pay rate or grade	ADDITIONAL INFORMATION	
1	J. O'Connor to Sr. Lab Tech (WWTP)	Promotion	\$5,371/yearly	Qualifications and longevity met; recommended by supervisor			
2	A. Puscheck to Sr Lab Tech (WWTP)	Promotion	\$5,371/yearly	Qualifications and longevity met; recommended by supervisor			
3	J. Koury to CDT Tech	Promotion	\$1,781/yearly	Qualifications and longevity met; recommended by supervisor			

C. PREVIOUSLY TABLED PERSONNEL ACTIONS (From 2023)						
Line Item Number	Action and Position	Department/Location	Pay Rate or Grade	ADDITIONAL INFORMATION		

>. OTHER PERSONNEL ACTIVITY FOR BOARD NOTIFICATION							
Name	Name Position Department/Location Pay Rate ADDITIONAL INFORM						
Nick Conde	Senior Operator	WTP Ops	<u>\$55,848/yearly</u>	Resigned effective 02/05/23			
Kevin Flynn	Crew Leader	Maintenance WTP	\$58,600/yearly	Retired 12/31/22			

E. PERSONNEL ON LONG TERM LEAVE OF ABSENCE						
Name	Last Day Worked	Dept.	Return Status	Comments		
Syverson, Jean	5/18/2022	Admin WWTP	Unknown	Workers Comp.		
McGovern, Dan	1/3/2023	CMM - WTP	Unknown	FMLA		
Virtuoso, Vince	1/19/2023	Meter Maint WTP	Unknown	Workers Comp.		
Milne, Robert	<u>1/3/2023</u>	<u>SOS - WWTP</u>	Unknown	FMLA		

NIAGARA FALLS WATER BOARD RESOLUTION # 2023-01-001

LUCITY SOFTWARE SUPPORT AND MAINTENANCE RENEWAL

WHEREAS, the Niagara Falls Water Board utilizes Lucity enterprise asset management software to help manage and maintain its assets; and

WHEREAS, the Water Board's annual support agreement with Tritech Software Systems (the sole source and developer for the software) for the Lucity software expires on January 31, 2023; and

WHEREAS, the Water Board's IT staff recommend renewing the annual support agreement for Lucity in order to maintain its functionality; and

WHEREAS, the cost to renew the annual support agreement for the period of February 1, 2023 through January 31, 2024 is \$19,988.01;

NOW THEREFORE BE IT

RESOLVED, that the Niagara Falls Water Board hereby authorizes payment to Tritech Software Systems the sum of \$19,988.01 to renew the annual support agreement for the Lucity software system for the period of February 1, 2023 through January 31, 2024.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director

Water Board Budget Line or Capital Plan Item with Funds for this Resolution: Software Maint./Licenses FA.8150.0000.0446.008 Budget Line Supplied by: J. Morock Available Funds Confirmed by: B. Majchrowicz

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Y	es	Ν	0	Abs	tain	Abs	sent
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board



Date 12/5/2022 **Page** 1 of 2

Tritech Software Systems, a CentralSquare Company 1000 Business Center Drive Lake Mary, FL 32746

Billing Inquiries: Accounts.Receivable@centralsquare.com

	Bill To			Ship To				
	Niagara Falls Water Board, NY			Niagara Falls Water Board, NY				
	Erika Schroeder	Erika Schroeder						
	5815 Buffalo Ave 5815 Buffalo Ave							
	Niagara Falls NY 14304 Niagara Falls NY 14304							
	United States	United States						
Customer No	Customer Name	Customer PO #	Currency	Terms	Due Date			
17082	Niagara Falls Water Board, NY		USD	Net 30	1/31/2023			

369970

	Description	Units	Rate	Extended
Contract No.	Q-115367			
1	Asset Management - Assets Annual Maintenance Fee - Annual Maintenance Fee AssetManagement Maintenance: Start:2/1/2023, End: 1/31/2024	1	\$7,501.30	\$7,501.30
2	Asset Management - GIS Desktop Annual Maintenance Fee - Annual Maintenance Fee GISDesktop Maintenance: Start:2/1/2023, End: 1/31/2024	1	\$475.48	\$475.48
3	Asset Management - GIS Web Annual Maintenance Fee - Annual Maintenance Fee GISWeb Maintenance: Start:2/1/2023, End: 1/31/2024	1	\$2,377.36	\$2,377.36
4	Asset Management - Mobile Annual Maintenance Fee - Annual Maintenance Fee MobileManagement Maintenance: Start:2/1/2023, End: 1/31/2024	1	\$1,159.71	\$1,159.71
5	Asset Management - Work Annual Maintenance Fee - Annual Maintenance Fee WorkManagement Maintenance: Start:2/1/2023, End: 1/31/2024	1	\$8,474.16	\$8,474.16



Date 12/5/2022 **Page** 2 of 2

Tritech Software Systems, a CentralSquare Company 1000 Business Center Drive Lake Mary, FL 32746

Billing Inquiries: Accounts.Receivable@centralsquare.com

	Bill To			Ship To				
	Niagara Falls Water Board, NY			Niagara Falls Water Board, NY				
	Erika Schroeder Erika Schroeder							
5815 Buffalo Ave 5815 Buffalo Ave								
Niagara Falls NY 14304 Niagara Falls NY 14304				′ 14304				
	United States		United States					
Customer No	Customer Name	Customer PO #	Currency	Terms	Due Date			
17082	Niagara Falls Water Board, NY		USD	Net 30	1/31/2023			

Invoice No (1 of 1)

369970

Please include invoice number(s) on your remittance advice, made payable to Tritech Software Systems	Subtotal	\$19,988.01
ACH:	Тах	\$0.00
Routing Number 121000358 Account Number 1416612641 E-mail payment details to: Accounts Receivable@CentralSquare.com	Invoice Total	\$19,988.01
Check:	Payments Applied	\$0.00
12709 Collection Center Drive Chicago, IL 60693	Balance Due	\$19,988.01

NIAGARA FALLS WATER BOARD RESOLUTION # 2023-01-002

AUTHORIZING PROCUREMENT OF BACKUP MAIN PUMP VARIABLE FREQUENCY DRIVE

WHEREAS, the main pumps at the Niagara Falls Water Board's wastewater treatment plant ("WWTP") are operated using Allen-Bradley variable frequency drives ("VFDs"); and

WHEREAS, in the past year there have been multiple failures of those VFDs, and the environment where the VFDs operate may be a contributing factor; and

WHEREAS, replacement VFDs are subject to multi-month lead times, and while a VFD is out of service the Water Board has been incurring VFD rental fees of approximately \$1,000 per week; and

WHEREAS, Water Board staff believe it prudent to obtain a backup VFD in order to minimize pump downtime and avoid substantial rental fees the next time a main pump VFD fails; and

WHEREAS, Rexel, the sole source for Allen-Bradley VFDs in this area, has presented a quote in the amount of \$28,592.43 for a spare VFD;

* CONTINUED ON NEXT PAGE *

NOW THEREFORE BE IT

RESOLVED, that on behalf of the Niagara Falls Water Board, the Executive Director is hereby authorized to pay Rexel up to \$28,592.43 to procure a backup main pump variable frequency drive.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director

 Water Board Budget Line or Capital Plan Item with Funds for this Resolution: Capital Line: WWTP-17, WWTP Infrastructure Projects, Misc.
 Budget Line Supplied by: <u>D. Williamson</u> Available Funds Confirmed by: <u>B. Majchrowicz</u>

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Y	es	Ň	0	Abs	tain	Ab	sent
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster	[]	[]	[]]]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board



Rexel - Cheektowaga 505 DUKE ROAD, #400 CHEEKTOWAGA, NY 14225-5142 716-893-3030 Fax 716-706-0491

QUOTE TO:

NIAGARA FALLS WATER BOARD 5815 BUFFALO AVE NIAGARA FALLS, NY 14304-3832

Quotation

QUOTE DATE		QUOTE NUMBER	PAGE NO.		
01/04/2023		S135508866	1 of 1		
CUST PO#:					

SHIP TO:

JOB/REL#:

NIAGARA FALLS WATER BOARD 5815 BUFFALO AVE NIAGARA FALLS, NY 14304-3832

CUSTOMER NUMBER	CUS	STOMER PHONE#		ORDERED BY		OUTSIE	SALESPERSON	
15056						y Glenn (3903)		
WRITER		WRITER PHONE#			WRITER EMAIL			
Jeffery Glenn (3903)	716 903 8853		Jeffr	ey.Glen	n@Rexelu	sa.com	
INSIDE SALESPE	RSON	SHIP VIA		TERMS	SHIP DATE		FREIGHT ALLOWED	
Michael Can	naday	CHEEKTOWAGA N	Р	ROX 25th	06/09/2023		No	
ORDER QTY		DESCRIPTION			UNIT PRICE		EXT PRICE	
1EA 1EA	AB 20F1AN COOLED 7 Pn: 148107 UPC: 8849 AB 20-CON Pn: 67369 UPC: 8209	ND361AN0NNNN POV 753 AC DRIVE 7 5116798 MM-E POWERFLEX ET 1901962	VERFLE.	X AIR F/IP	2774 84	5.000/EA 7.430/EA	27745.00 847.43	
Prices are subject to change at any time prior to shipment unless agreed to otherwise in writing signed by an authorized Seller epresentative. Orders related to this quotation must be received, accepted and released by Seller within 48 hours of issuance of the quotation and are subject to availability. Many of Seller's manufacturing partners have advised that until further notice they reserve he right to amend the delivery date, price, scope and quantity of supply and/or other terms and conditions set out in their offer or quotation and Seller equally reserves the right to pass through any such changes from its manufacturing partners to the Buyer. Delivery dates are estimated only. Seller shall not be liable for failure to meet such dates resulting from product shortages or manufacturing delays. Be advised that Seller considers any changes imposed by its manufacturing partners and other vendors outside of Seller's reasonable control and therefore subject to Force Majeure provisions or similar common law doctrines such as "functione" and the functione and the advised that Seller considers and conditioned and the advised for the subject to Force Majeure provisions or similar common law doctrines such as "functione" and "functione" and "functione" and the advised for the super such as "functione" and the self.			Subtot S&H C Sales	al Charges Tax	28592.43 0.00 0.00			
ustration" or "impossibility". iller's Standard Terms and Conditions of Sale are incorporated by reference into this quotation. A copy of the most current version of Iller's Standard Terms and Conditions of Sale is available at <u>https://www.rexelusainc.com/terms.html</u> Ill phone support at (888) 739-3577					Total		28592.43	

Printed By: JDGLENN on 1/4/2023 9:21:00 AM EST Jan. 30, 2023 Meeting Agenda Packet - Page 24



Date: 1/09/2023

Niagara Falls Water Board

5815 Buffalo Ave

Niagara Falls, NY 14304

Attn: Sean Costello

Re: Rexel Automation

Dear Mr. Costello:

This is to confirm that Rexel Automation currently is the only distributor appointed and authorized to sell Allen-Bradley Standard Controls, Drives, PLC/MMI, Rockwell Software products and all services offerings in the geographic area in which Niagara Falls, NY is located. As a matter of Company policy, full factory product and sales support is made available only to the local authorized distributor, and it is Rockwell Automation's practice and policy to always promote and recommend the use of that distributor to customers in that geographic area. Rockwell Automation discourages the use of other non-authorized sources, including distributors who may hold an Allen-Bradley appointment in another locale.

Should you have any questions regarding the above, please do not hesitate to contact either Rexel Automation or Rockwell Automation.

Respectfully,

Lee Eye

Lee Eye Territory Sales Manager leye@ra.rockwell.com

AWARD BID FOR GRANULATED ACTIVATED CARBON SUPPLY AND REMOVAL

WHEREAS, with the assistance of the City of Niagara Falls Purchasing Department, the Niagara Falls Water Board ("Water Board") has solicited bids for granulated activated carbon supply and removal for an initial term of January 1, 2023 to December 31, 2023; and

WHEREAS, the low bidder for the supply and removal/disposal of granulated activated carbon was received from Carbon Activated Corp.;

NOW THEREFORE BE IT

RESOLVED, the Niagara Falls Water Board hereby awards the bid for granulated activated carbon supply and removal to Carbon Activated Corp. for the period from January 1, 2023 to December 31, 2023, with recycled, reactivated carbon to be supplied at \$1,200 per ton and removal and disposal of spent granulated carbon at \$136 per ton.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director

Water Board Budget Line or Capital	Plan Item with Funds for this Resolution:
Budget Line:	GA 8130.0100.0419.002
Budget Line Supplied by:	D. Kirkland
Budget Line Confirmed by:	B. Majchrowicz (Work in 2023 will require a budget
	transfer).

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Yes		No		Abstain		Absent	
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board



10:	The Niagara Falls water Board					
FROM:	Dr. Abderrahman Zehraoui Executive Director					
	Sean Costello, Esquire General Counsel and Board Secretary					

NI. E-11. W. . . .

DATE: December 30, 2022

TO.

SUBJECT: Bid #W2022-05 Granular Activated Carbon Supply and Removal

We respectfully request you award the above referenced bid per the enclosed tally sheet as follows:

TO:	Carbon Activated Corporation USA						
	3774 Hoover Road						
	Blasdell, New York 14219						
FOR:	Items $#3 - 4$, per the attached tally sheet						

The Purchasing Agent certifies that all bids were solicited in accordance with Section 103 of the General Municipal Law.

Notice that bids were to be received was advertised in the Niagara Gazette and bid requests were distributed to fifteen (15) vendors. Two (2) bid responses were received. The above referenced company submitted the lowest overall bid which met the specifications.

Respectfully submitted,

Dr. Abderrahman Zehraoui Executive Director, NFWB

Leeann K. Huey Purchasing Agent, CNF

ASKLAR _____ KIMBLE _____ LARKIN _____ LEFFLER _____ FORSTER _____

5815 Buffalo Avenue • Niagara Falls, New York 14304 • 716 283-9770 • FAX 716 283-9748

www.nfwb.org

NFWB Jan. 30, 2023 Meeting Agenda Packet - Page 27

OFFICIAL TALLY SHEET NIAGARA FALLS WATER BOARD, NIAGARA FALLS, NEW YORK

BID # BID O	W2022-05 PENING:	GRANULAR ACTIVATED CARBON SUPPLY DECEMBER 22, 2022 11:00 AM	& REMOVAL	PAGE 1 OF 1 SET 1 OF 1
ITEM #	QUANTITY (TONS)	DESCRIPTION	Calgon Carbon Corporation 3000 GSK Drive Moon Township, PA 15108	Carbon Activated Corporation 3774 Hoover Road Blasdell, NY 14219
1.	40	More or less, granular activated carbon (GAC), Standard make-up grade , per the bid specifications:	NO BID	NO BID
2.	20	More or less, granular activated carbon (GAC), Inventory renewal grade, per the bid specifications:	NO BID	NO BID
3.	260	More or less, granular activated carbon (GAC), Recycled, reactivated grade , per the bid specifications:	\$1760.00/ton	\$1200.00/ton
4.	300	More or less, removal and disposal/reuse of spent granular activated carbon (GAC) currently in use at the Board's treatment facility, per the bid specifications	\$480.00/ton	\$136.00/ton
		NET COST ITEM #1	N/A	N/A
		NET COST ITEM #2	N/A	N/A
		NET COST ITEM #3	\$457,600.00	\$312,000.00
		NET COST ITEM #4	\$144,000.00	\$40,800.00

NOTE: Based upon anticipated need for the contract period, the Niagara Falls Water Board is electing not to award Item #1 and Item #2.

GHD PROJECT 2 CONSTRUCTION PHASE SERVICES AMENDMENT

WHEREAS, the Niagara Falls Water Board ("Water Board") previously approved a substantial construction project to rehabilitate its Gorge Pump Station ("GPS"), including replacement of pumps, grinder improvements, heating and ventilation improvements, sluice gate replacements, lighting upgrades, and other work, collectively referred to as "Project 2"; and

WHEREAS, the engineering services for Project 2 were awarded to GHD; and

WHEREAS, the prime contracts for Project 2 were awarded to John W. Danforth Company (heating and ventilation), STC Construction, Inc. (general contractor), and CIR Electrical Construction Corp. (electrical); and

WHEREAS, Project 2 originally was scheduled to be completed by September 2, 2021, but due to unforeseen delays in the supply of materials and equipment due to the COVID-19 pandemic and as a result of changes to the contractors' scope of work resulting from unforeseen circumstances, the three prime contractors requested change orders permitting an additional 10 months to complete their work, through July 2, 2022; and

WHEREAS, the Project 2 contract work was substantially completed by the end of July 2022, and final walk-throughs were performed and punch lists were issued to the contractors in August 2022; and

WHEREAS, there remain punch list items for the electrical and HVAC contractors; and

WHEREAS, during installation of the first GPS replacement pump the pump manufacturer requested that the seal and bearing water systems be configured differently from the old pumps, which resulted in the need to rework seal water piping and drains and work on various flow and pressure sensors; and

WHEREAS, GHD has exhausted the previously approved fee for its services in connection with Project 2, and has presented a proposal dated January 17, 2023 requesting an additional \$14,700 in fee for the pump seal and bearing water system design changes and an additional \$8,000 in fee for contract administration services to cover the final work associated with the punch list items, project close out, issuance of final record drawings, and similar work;

* CONTINUED ON NEXT PAGE *

NOW THEREFORE BE IT

RESOLVED, that the Executive Director hereby is authorized to approve an amendment to GHD's agreement for Project 2 engineering services work to authorize an additional fee not to exceed \$22,700 to complete the scope of work described in that firm's January 17, 2023 proposal.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director

Water Board Budget Line or Capital Plan Item with Funds for this Resolution: Capital Plan Items: WWTP 2 Capital Line Supplied by: <u>D. Williamson</u> Available Funds Confirmed by: <u>B. Majchrowicz</u>

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Yes		No		Abstain		Absent	
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board

285 Delaware Avenue, Suite 500 Buffalo, New York 14202 United States www.ghd.com



Our ref: 11194110

January 17, 2023

Abderrahman Zehraoui, Ph.D. Executive Director Niagara Falls Water Board 5815 Buffalo Avenue Niagara Falls, New York 14304

Project 2 – Gorge Pump Station Rehabilitation, Construction Phase Services Amendment Proposal

Dear Dr. Zehraoui,

GHD is submitting this proposal for additional design and construction phase services related to the above referenced project at the Gorge Pump Station (GPS – Project 2). GHD is currently under contract with the Niagara Falls Water Board (NFWB) to provide engineering services on this project in accordance with our Agreement dated March 25, 2019. GHD's construction phase services are outlined in a proposal letter dated October 4, 2019 and a subsequent amendment proposal dated September 8, 2021.

Project 2 construction was scheduled to be completed by September 2, 2021. Due to unforeseen delays with the supply of materials and equipment caused by the global COVID-19 pandemic, the three prime contractors requested additional time to complete their work at the GPS. The contract work was substantially completed by the end of July 2022, and final walk-throughs were performed and punch lists were issued to the contractors in August 2022. The Electrical (CIR) and HVAC (Danforth) contracts still have outstanding punch list items. The General Contractor (STC) punch list was completed in September 2022.

GHD has incurred additional costs to address seal and bearing water system design changes for the new pumps and for additional contract administration (CA) services due to ongoing punch list items. This proposal is for these additional services provided.

1. Scope of Services

Task 4a – Pump Seal and Bearing Water System Design Changes

During installation of the first pump, the manufacturer (Xylem) requested that the seal and bearing water systems be configured differently from the old pumps. The old system had a seal water inlet with no outlet drain, and the bearing water outlet drain was connected to the pump suction elbow. The contract had assumed that the old seal and bearing water configuration would be incorporated into the new pumps. However, the manufacturer indicated that they wanted both the seal and bearing water drains to be piped separately to a gravity outlet drain. GHD informed the NFWB of the need to rework this system in May 2022, and the contractor temporarily piped the outlets to the existing sump pump. Under this configuration, the old seal water flow and pressure switches did not function because of insufficient backpressure, and the flow and pressure low level alarm interlocks were bypassed in the new VFDs to enable start-up to proceed. GHD worked with the contractors and the NFWB to develop a few redesign iterations to eliminate directing flows to the sump, which



became overloaded. Our first design presented to the NFWB in July 2022 involved installation of new boards for each pump, which included new switches, solenoid valves and flow meters. This proposal included \$13,000 additional costs for electrical revisions and another \$34,000 for new plumbing and instrumentation to be provided by the General Contractor. The NFWB decided not to proceed with the new boards because of the cost.

GHD redesigned the seal and bearing water drains in August 2022 at a cost savings to direct flow from each pump back to the wet well and presented the contractor's cost proposal to the NFWB on August 22, 2022. Our redesign eliminated the new instrumentation and electrical work. The General Contractor installed the new drains for an additional cost of \$12,948.00, which was approved by the NFWB. GHD was onsite overseeing the installation and start-up of the new seal and bearing water plumbing in September 2022. The NFWB then tested and confirmed that the old switches were functioning properly; however, their signals remained bypassed in the new VFDs. An additional \$1,721.55 cost was approved by the NFWB for the Electrical Contractor to remobilize and reinstall the old switches in the VFDs on November 28,2022. GHD was onsite with the NFWB onsite to oversee the work in November. At that time, it was determined that the reconfigured pump seal chamber had changed the hydraulics and the existing seal water pressure switches did not work as intended. GHD reviewed the mechanical seal hydraulics with Xylem and Chesterton, and it was determined that the pressure switches need to be relocated and that a seal water flow meter is recommended.

GHD met with the NFWB on January 10, 2023 to discuss all remaining punch list items and close out of the Project #2 contracts. In order save costs, the NFWB agreed to supply and install new seal and bearing water instrumentation mounted on new boards for each pump. The NFWB asked GHD to produce a new design based on replacing the existing seal and bearing water boards and mounting a new pressure switch and flow meter on each board. The NFWB also requested GHD to coordinate with Danforth to produce a revised lower cost proposal to add manual controls for the new HVAC equipment.

GHD has spent more than 60 hours on redesigning and reconfiguring the seal and bearing water systems for the pumps, some of which has been billed under the CA task between May and September 2022. This redesign work was not included in GHD's original design scope and was not identified until the pump manufacturer requested a change when the first pump was being installed. GHD anticipates spending another 24 hours redesigning and overseeing re-installation of new boards. Based on the above services provided, GHD proposes an additional fee of \$14,700 for redesign of the seal and bearing water systems.

Task 4b – Contract Administration Services

GHD has been out of CA services budget since September 2022. GHD has continued to assist with the punch lists, which are still not completed for the Electrical and HVAC contracts. GHD provided detailed contract clarification responses for several items that the Electrical Contractor and VFD supplier have refused to address. The Electrical Contractor (CIR) and VFD supplier (Plant IQ) have been non-responsive and unwilling to help the NFWB with several items. As a result, the NFWB agreed to complete some electrical punch list items outside of the contract due to CIR's refusal to amicably address these items. In addition, the NFWB has requested modifications to the new HVAC system controls. GHD has been working with the HVAC Contractor to obtain a quote for these modifications. If approved, it is anticipated that the NFWB will request GHD's assistance with overseeing installation and start-up of the HVAC changes.

GHD proposes a \$8,000 fee for additional construction administration services to complete this project. These services include oversight for completion of final punch lists, issuance of final record drawings, review and delivery of the O&M manuals, and review and approval of the final payment applications and contract close out documentation.

Please note that our fee for CA services was previously reduced by \$8,500 at the request of the NFWB and CPL on September 8, 2021. That fee reduction was based on the project being completed by July 2, 2022. If the project is completed in February 2023, then an additional eight (8) months of CA service will be provided.



2. Fee and Schedule

GHD proposes to complete the scope of services outlined above for an hourly not-to-exceed fee of \$22,700 as detailed in Table 2.1 below. This fee assumes the project will be completed by February 2022.

Table 2.1 Fee Summary

Task	Description	Fee
Task 4a	Pump Seal and Bearing Water System Design Changes	\$14,700
Task 4b	Contract Administration Services	\$ 8,000
TOTAL		\$22,700

Tasks 4a and 4b will be invoiced hourly based on the actual number of person hours expended, and direct expenses will be invoiced at cost plus 5 percent. Hourly rates will be held the same as previously provided. Invoices shall be due within 30 days from receipt.

Thank you for the opportunity to submit this proposal. If you have any questions or require additional information, please do not hesitate to call.

Regards

Casey Cowan Senior Project Manager

+1 716 491 1269 casey.cowan@ghd.com

CWC/las

cc: Sean Costello, Esq. – NFWB Douglas Williamson, PE – NFWB Theodore E. Donner, PE – CPL Robert P. Lannon Jr., PE – GHD

→ The Power of Commitment

WATER SUPPLY AGREEMENT WITH NIAGARA COUNTY WATER DISTRICT

WHEREAS, the Niagara Falls Water Board ("Water Board") and Niagara County Water District ("District") have interconnected systems which permit either party to purchase excess finished water produced by the other when expedient in the event of emergency, major maintenance, or other circumstances; and

WHEREAS, the current water supply agreement between the Water Board and District is from 1990, names the City instead of the Water Board, and provides that each party will pay a rate for water supplied that no longer bears any relation to the current cost to produce water; and

WHEREAS, the District has proposed a new 10-year water supply agreement that would have both parties pay an amount equal to the District's current fee charged to bulk municipal customers in the event water is purchased pursuant to the agreement, plus \$0.10 increases per 1,000 gallons in 2025 and 2027; and

WHEREAS, the proposed new agreement is fair, reasonable, and will allow both parties the security of continued water supply for the next 10 years;

* CONTINUED ON NEXT PAGE *

NOW THEREFORE BE IT

RESOLVED, that the Board Chairman hereby is authorized to execute on behalf of the Niagara Falls Water Board the proposed Water Supply Agreement with the Niagara County Water District.

Water Board Personnel Responsible for Implementation of this Resolution: General Counsel

Water Board Budget Line or Capital Plan Item with Funds for this Resolution: Not applicable.

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Yes		No		Abstain		Absent	
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board

Niagara Falls Water Board

Proposal to Develop an Engineering Report Assessing the Fluoride System at the NFWB Water Treatment Plant

IMP DCDB-

RFP NO. 2023-01 January 25, 2023

Сору

ISHER

C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, NY 14203 www.cscos.com

PUMP



NFWB Jan. 30, 2023 Meeting Agenda Packet - Page 36


C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 p: (716) 847-1630 www.cscos.com

January 25, 2023

Douglas S. Williamson, P.E. Director of Technical & Regulatory Services Niagara Falls Water Board 5815 Buffalo Avenue Niagara Falls, New York 14304

Re: Request for Proposal No. 2023-01 – Water Treatment Plant Fluoride System Assessment

Dear Mr. Williamson:

Investing in necessary improvements for this fluoride chemical storage and pumping system is a major commitment to the quality, safety, and durability of your facilities. C&S Companies are ideally suited to partner with the Niagara Falls Water Board for these vital improvements. Our team's local, regional, and national experience with water treatment plant planning, design, and construction gives us the ability to deliver all of the highly specialized engineering expertise necessary to complete the project in a timely and cost-effective manner.

C&S Companies has carefully reviewed the Water Board's scope of work for this project and assembled a team of staff members ideally suited to deliver planning and design for all of the detailed and important work requested. Every professional assigned to this project works directly for C&S in New York State.

As the senior principal/project manager for this assignment, I bring 37 years of consulting experience in the area of water treatment design.

Between myself and C&S, our team has experience providing planning, engineering, and construction phase services for chemical delivery, handling, storage, and pumping at the following facilities:

- Seneca Nation of Indians, Jimmersontown Water Treatment Plant Sodium Fluoride Storage, Mixing and Injection System
- Anthem, Arizona Water Treatment Plant —Sodium Fluoride Storage, Mixing and Injection System
- City of Oswego, New York Riley Booster Pump Station Sodium Hypochlorite Storage and Injection System

C&S is a New York State owned and based consulting engineering and construction company with all the departments and professionals necessary to complete the Water Board's current project in-house, including water process engineers, structural engineers, electrical/instrumentation/SCADA engineers, HVAC engineers, and site and pavement engineers.

We are excited about this opportunity to work with you on these vital upgrades and improvements. If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely, C&SENGINEERS, INC

Ronald C. Jackson, PE *Senior Principal*



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Statement of Qualifications/ Executive Summary

Company Background

For more than 50 years, the C&S Companies have earned a solid reputation for quality engineering, architecture, planning, environmental, and construction services. Clients across New York State and the country trust C&S to deliver successful projects time and time again.

Similar Services | Please refer to Section 4— Demonstrated Experience on Similar Projects.

Business Structure | C&S is a C corporation

Years in Business | 54 years

C&S has not done business under any other names in the past 10 years.

C&S Companies Organizational Structure





C&S is headquartered in Syracuse, NY, with regional offices in the following locations:

- Buffalo, NY
- Albany, NY
- Binghamton, NY
- Plattsburgh, NY
- Rochester, NY
- Watertown, NY
- Phoenix, AZ
- Los Angeles, CA
- Sacramento, CA
- San Diego, CA

- San Francisco, CA
- Orlando, FL
- Tampa, FL
- Hebron, KY
- Louisville, KY
- Detroit, MI
- Cincinnati, OH
- Cleveland, OH
- Philadelphia, PA
- Seattle, WA



Buffalo office located at 141 Elm Street, Suite 100

C&S has never been:

- Debarred or suspended by any government entity from entering contracts with it;
- Found not responsible by any government entity;
- Declared in default or terminated for cause from any contract, or had any contract cancelled for cause; or
- Required to pay liquidated damages on a contract.

C&S has not filed for bankruptcy or been the subject of an involuntary bankruptcy proceeding.

C&S has not been a party to any legal action or government investigation related to business practices, or alleging that any of C&S's agents or employees committed any act of fraud, collusion, bid rigging, price fixing, or bribery.

C&S is licensed to provide engineering services in the state of New York.





Niagara Falls Water Board | Water Treatment Plant Fluoride System Assessment NFWB Jan. 30, 2023 Meeting Agenda Packet - Page 40

Situation Understanding

C&S understands that the Niagara Falls Water Board ("NFWB") owns and operates a water treatment plant ("WTP") at 5815 Buffalo Avenue, Niagara Falls, New York. Liquid fluorosilicic acid is added to the treated potable water for public health reasons. The NFWB has planned for the improvement of the aging fluoride storage and injection system. These improvements will allow for continued and safe introduction of fluoride into the water distribution system.

C&S understands that all feed equipment in the fluoride room is original from WTP construction in 1997. The current pumps are belt drive diaphragm, positive displacement pumps. The ventilation system is inadequate, which caused extensive corrosion within the room. All current equipment is functioning, but it has passed its normal life expectancy. There are no online/real time analyzers, so manual tests must be performed frequently to provide adequate dosages and maintain chemical concentrations.

C&S understands that the chemical feed piping experiences failures due to age and brittleness of the material. The day tank and transfer pump also require frequent repairs. The bulk storage tank is a wood staved tank with a rubber chemical resistant liner. The liner is beyond its life expectancy. The liner manufacturer is in Canada, which complicates getting repair parts and service.

C&S understands that, to complete the contemplated improvements to the fluoride system, a temporary storage and feed point will need to be established first. The WTP has a backup fluoride feed system one the floor below the feed system currently in use. This system was designed to store and inject dry sodium fluoride powder and have never been used. Also, several components of the original backup system have been removed. This system will be refurbished to temporarily store and inject either liquid or dry fluoride chemical temporarily while the existing system is refurbished.

The WTP operations staff has stated that the construction of an improved remote monitoring, control and alarm system for all components of the refurbished system is important to the current and future operations of the WTP. Therefore the refurbished system will include new level, flow and fluoride concentration sensors, pump control panels that will be integrated into the WTP SCADA system.

C&S understands that this engineering report will be an assessment of the existing equipment. It will make recommendations for a temporary storage and feed system. Alternative storage and feed methods will also be researched and a system recommended that will work best for the WTP.

C&S understands that, to assist with report, the NFWB submitted an application to the NYS DOH Drinking Water Fluoridation Funding round, Component 1. The NFWB was awarded funding in February 2022 with an assigned project of number of T37250GG. C&S will prepare this report as per the NYS DOH program standards.



Understanding of Applicable Regulations and Standards

The following federal, state and local laws will be considered in the analysis and recommendations made for this report. The list below is intended to outline the major applicable laws and regulations and is not exhaustive. An exclusion of an applicable law or regulation is not an express or implied indication that the omitted law or regulation is not relevant to this project / facility.

- New York State Title 10, Part 5 Drinking Water Regulations
- Recommended Standards for Water Treatment Facilities 10 State Standards
- New York State 6NYCRR599 Standards for New or Modified Hazardous Substance Storage Facilities
- The Building Code of the State of New York
- National Fire Protection Association Code
- National Electric Code

Furthermore, C&S understands that fluorosilicic acid is highly corrosive and dangerous to human health. All recommendations for storage and transfer published by the chemical manufacturer will be observed.



B Project Approach, Scope, and Project Organization

C&S has carefully considered the needs of the NFWB and its operations staff and we feel that the following project approach will best serve the operations staff and the NFWB overall:

- Operations Staff Involvement We firmly believe that an Owner's operations staff is the best "designer" of their own project. As engineers and scientist we assist the staff with the proper calculations, code compliance and construction details needed to make the project a success. Also we bring our experience with similar designs at other facilities so as to draw from those successes in this project. We will work with the operations staff to meet and exceed their needs for smooth durable operation and safety.
- Project Staff Selection and Involvement We have selected staff that devote their careers to water utility improvement and will be committed to this project from proposal, field work, concept design, final reporting and, hopefully, future design and construction.
- Material and Equipment Selection C&S has designed many chemical receiving, storage and pumping facilities for water, wastewater and industrial facilities. Our proposed project manager, Mr. Ron Jackson, has managed and designed projects primarily for the water and wastewater sectors but also has experience with extremely hazardous and sensitive chemicals like isocyanates (used in the production of electrical wire insulation) and photographic developer solutions. We will use our decades of experience to assure that the most durable materials and equipment, which are considered the best practice for fluoride systems, are selected for this project.
- Controls and Monitoring C&S has experience with many treatment facilities that have small and / or part time staffs. We understand how important leveraging technology is so as to reduce that work load on existing staff while allowing for safe and efficient operation of the process. We will work with the NFWB to determine the appropriate level of technology for the new fluoride system which is also robust and does not require additional attention such as frequent calibration or upgrades.
- Specialty Subconsultants We have included two specialty subconsultants on our team. Jade -Stone Engineering has expertise in electrical, HVAC and plumbing engineering. Watts Engineering will provide a pre-demolition survey to determine if any hazardous materials remediation is necessary.

Scope of Services

We offer the following Scope of Services for this Project:

Project Kick-off Meeting – After receiving notice to proceed from the NFWB, a workshop will be held with the staff and other appropriate personnel to discuss the overall objectives of the project and specific items to be addressed, such as project contacts, responsibilities, scope of work, document distribution, and project schedule. This initial workshop will ensure that the NFWB's objectives are met and the project starts in the right direction. Minutes of the meeting will be prepared by C&S.

Review Existing Information – C&S will review pertinent information necessary for completion of the project including existing engineering drawings for the facilities; to the extent available.



System Evaluation and Report – A system evaluation report of the existing fluoride storage tank, pumping and piping system will be prepared to determine the basis of design for the new system. This shall include, but not necessarily be limited to:

- A. Document conditions, characteristics and operating criteria of existing system based on site visit(s), review of existing documentation and interview with NFWB operations staff.
- B. Make recommendations for replacement of the existing wood stave tank liner and any refurbishments to the structural body of the tank.
- C. Make recommendations for the material type and size of the pipe and valve material to be used in the new systems. Double contained piping should be considered over walkways and in areas of frequent operator interaction. The number and location of shut off and control valving will also be considered. Piping replacement will include the fluoride feed piping and the storage tank fill piping.
- D. Make recommendations for the replacement of the day tank, chemical injection and transfer pumps. The existing style diaphragm pumps are still available but the operations staff may wish to consider peristaltic tube style pumps. Also the pumps can be wall mount rather than floor mounted like the existing pumps.
- E. Our WBE subconsultant will evaluate and make recommendations for the rehabilitation and or replacement of the fluoride storage and pumping room ventilation and heating systems. All new equipment and materials will be selected for resistance to fluoride corrosion.
- F. Our WBE subconsultant will evaluate and make recommendations for the rehabilitation and or replacement of the fluoride storage and pumping room electrical power and lighting systems. All new equipment and materials will be selected for resistance to fluoride corrosion.
- G. Make recommendation for new doors and a new coating system on the walls, ceiling and floor of the fluoride storage and pumping room.
- H. Make recommendations for level and flow sensing instrumentation, pump control panels and integration into the existing WTP SCADA system. We understand that the existing system is manually controlled and monitored by the operations staff and that their desire is to have the improved system be fully automated and remotely monitored.
- I. Make recommendations for any construction and equipment required to place the existing backup fluoride storage and pumping room online before the demolition of the primary fluoride feed system. These improvements to the temporary system will be kept to a minimum so the capital will be reserved for the permanent improvements to the primary fluoride system. If the NFWB wishes, the improvements to the primary fluoride system could be mirrored in the backup room so two fully functioning systems would be available.
- J. Our MBE subconsultant will perform a pre-demolition survey of the existing fluoride storage and pumping room, the backup fluoride room and the route of the piping to be replaced to document the presence / absence of asbestos material, PCB material and lead paint so that should any of those materials require remediation during the construction of this project, the cost of that remediation can be included in the project cost estimate at this stage.
- K. Prepare a project cost estimate based on the results of the evaluation for construction of new facilities.
- L. Prepare a project schedule based on the anticipated timeframes for completion of the various phase of the project.



M. Prepare a report summarizing the work to be performed, conclusions and recommendations for project implementation and submit the draft report to the NFWB for review. After review of the report, a meeting will be held to discuss the work completed and any comments that the NFWB may have. Modifications to the report will be made as required to address the comments provided by the NFWB. Upon incorporation of the comments, the Engineer shall submit the final report to the NFWB as well as to the NYSDOH.

NYSDOH Coordination – C&S will coordinate the project with the NYSDOH. This shall include providing sufficient number of copies of reports for review and approval. C&S will review comments from these agencies, prepare response letters, and make revisions to the documents submitted as required to obtain approval.

Project Review Meetings and Project Administration – C&S will attend periodic progress meetings during the execution of the work required for the project. At a minimum, a review meeting will also be required at the completion of the draft and final system evaluation report. C&S will prepare and distribute meeting minutes for each meeting.

Project Organization

C&S has assembled a team of skilled professionals to serve the needs of NFWB. As a fully integrated company, the sharing of resources and knowledge is how C&S operates and brings added value to our customers. The team below is supported by more than 500 professionals available in our company, and our teammates' companies, who can be called upon whenever additional expertise or manpower is needed. An organizational chart depicting our team is below. Resumes can be found at the end of this section.





Demonstrated Experience on Similar Projects

C&S Companies Overview

For over 50 years, the C&S Companies have earned a solid reputation for quality engineering, architecture, planning, environmental, and construction services. Clients across New York State and the country trust C&S to deliver successful projects time and time again.

The professionals at C&S know that your needs and concerns should always be at the forefront. With extensive experience under one roof, we can streamline the delivery of even the most complicated multidiscipline projects. Our experts support each other by collaborating on projects, combining their knowledge to deliver the best solutions to each client. Project management and production groups coordinate projects from inception through construction, enabling us to provide a continuity of service that our clients rely on. C&S uses state-of-the-art equipment and the latest technologies to deliver tomorrow's solutions to you today.

Our professionals are highly skilled in their areas of expertise and are committed to delivering projects that meet or exceed our clients' expectations. Through our experience with similar projects, we have the knowledge and capabilities to provide professional engineering services for this project.

Our 500+ staff members include more than 100 licensed professionals and 45 professionals certified in green building and sustainability.

Client Focus

Our consulting practice is client-oriented. A benefit of choosing C&S is that the client has direct access to the project manager, who maintains contact with the client. This enhances our ability to understand the relationship between any given project and the overall goals and objectives of the client organization. It is the primary goal of our technical staff to deliver the best product possible and provide the highest level of service. Our comprehensive range of services is somewhat unique in the industry and has proven invaluable to our clients.

Services

Our approach on this project will be to provide survey, preliminary design, detailed design, construction administration and support, and construction inspection services through a combination of our local internal resources at the C&S office in Syracuse and our other offices in Central NY. We will also engage our strategical-ly-selected subcontract service providers that we believe are best suited for the various projects included in this effort.

As a full–service engineering firm, we have the capabilities to provide in-house engineering services across all pertinent project phases and disciplines, including:



- Water Treatment, Storage, and Conveyance
- Wastewater Treatment
- Electrical infrastructure
- Planning phase services, including
- Environmental due diligence reviews
- Environmental impact assessment, including SEQR/SERP reviews
- Funding/grants application and administration assistance
- Wetland/ecological assessments
- Public outreach/meeting coordination
- Civil/site and landscape/green infrastructure

Water/Wastewater

Owners and operators of water, wastewater, and stormwater conveyance and treatment systems face many challenges, including operation, maintenance, optimization, and rehabilitation of existing facilities, planning/design of expansion facilities, and responding to an ever-evolving set of regulatory requirements. C&S has significant experience helping municipal and industrial clients respond to these challenges with innovative and cost-effective solutions. We have the experience and capabilities to work along the entire project life cycle—from initial concept development to operation and management of facilities. Our services include:

- Project funding planning and permitting
- Water/wastewater/stormwater system modeling/analysis and planning services
- Water/wastewater treatment system detailed design
- Treatability studies and process optimization
- Residuals/sludge management
- Buried infrastructure (distribution/collection) and pumping system design and rehabilitation.
- Construction contract administration and resident inspection
- Regulatory compliance and liaison support

Site/Civil

We can complete all aspects of any civil design project with our inhouse engineers. Our knowledge of regulatory requirements allows C&S to take a project from conceptualization through construction in any location. We deliver full-service infrastructure engineering and planning to municipalities, developers, public authorities, industry, aviation, public-private partnerships, and private clients of every size. Our staff work for both regulators and developers, which gives our engineers a breadth of experience our competitors cannot match.



design

- Hydrology, drainage and flood control design
- Structural and foundation design
- Architectural design
- Roadway design
- Process mechanical/piping/hydraulic design
- Plumbing and fire protection design
- HVAC design
- Instrumentation and control design
- Communication system design
- Environmental remediation
- Construction management and inspection





We have extensive expertise in site development, utility analysis and design, environmental compliance, and general civil engineering. Services include:

- Water and wastewater infrastructure
- Stormwater and drainage
- Site/land development
- Road and utility infrastructure

Technology

Building Information Modeling (BIM)

C&S has established a globally accredited building information modeling (BIM) services division. We have adopted BIM into our daily production, increasing productivity and decreasing time spent on requests for information. BIM uses sophisticated technology to establish a digital representation of the physical aspects of a facility in three dimensions with embedded object information and/or intelligence. The model can be used by

- Traffic analysis
- Environmental and municipal permitting
- Environmental impact studies
- Construction inspection



electronic facility management systems and as a repository for facility information.

C&S uses BIM for multi-disciplined construction projects to provide high-quality and efficient designs. In addition, C&S has used BIM on several design-build projects to effectively link design and construction. We have made significant investments to ensure our designers and engineers are trained on the latest BIM software packages. The benefits of BIM are endless when compared to traditional 2-D drafting and designing, including:

- Excellent multi-discipline coordination and conflict identification
- Intelligent data associated with every object in the model
- Rapid visualization of the finished product (3-D renderings)
- Traditional drawings outputs (plans, sections, schedules, etc.) easily created and updated
- Non-traditional outputs, such as shop drawing creation, material quantification, cost estimating, energy analyses, and links to finite element analysis (FEA) software
- Models for future building renovations and/or facility management systems

Ability to Keep Projects on Schedule

C&S uses a variety of methods to ensure that our projects stay on schedule and within budget. Through the use of scheduling software, our team is able to monitor progress throughout the project and make adjustments as required to ensure the overall schedule objectives are maintained. Through our previous projects with our other clients, C&S has consistently demonstrated that we complete our projects on time and within budget. Our "do what we say we are going to do" approach is inherent in the values of our company. The City can be assured that we will approach your projects with the same commitment to meeting the project budget and schedule requirements.

Municipal Services

Throughout the more than 50 years of being in business in New York State, C&S has had the opportunity to work with almost every county in New York State and more than 50 cities, towns, and villages. The core of C&S's business has always been our valued municipal clients, and we have continued to diversity and expand



our services to cover nearly everything a community may need. We represent communities

at town and planning board meetings, provide alte existing problems, and help make sure the commu and surrounding properties benefit as much as po when new developments are undertaken.

B. Relevant Projects

We have a dedicated staff and a history of successful projects of this type. We are committed to providing top-quality, comprehensive services to municipal clients. The projects on the following page represent a sampling of C&S's experience on similar projects.







Meadowbrook Limestone Chemical Transfer Station

Onondaga County Department of Water Environment Protection | Manlius, New York



The Onondaga County Department of Water Environment Protection owns and operates a 6.5 mgd wastewater treatment plant in Manlius, NY. The treatment plant was built in the 1970's and disinfects its effluent with sodium hypochlorite. The plant's bulk chemical receiving station and transfer piping was old and at the end of its useful life.

C&S provided design, construction administration and construction ob-



servation services for the project to remove the existing receiving area and create a bulk chemical receiving station at the WWTP for the sodium hypochlorite. C&S's team designed a concrete containment pad for 5,000 gallon tanker trucks with storage for 100% of the trucks contents should a leak occur.

The leak storage / containment area was designed as a below slab trench located outside the tanker truck parking area and covered with fiberglass so that the plant operators can monitor the contents of the trench even if a vehicle is present.

The existing fiberglass piping that

carried the sodium hypochlorite from the receiving station to the indoor storage tanks was replaced with double contained PVC piping which was insulated and jacketed to protect from the elements as it ran along the exterior of the building.

Contact:

Shannon Harty, P.E. Acting Comissioner, OCDWEP (315) 435-2260 shannonharty@ongov.net



Westside WWTP Chlorine Conversion

City of Oswego | Oswego, New York

The City of Oswego owns and operates a 12 mgd wastewater treatment plant on the shore of Lake Ontario on the west side of the City. The treatment plant was built in the 1970's and utilized chlorine gas as its method of disinfection. In order to provide a safer working environment for the operators and the surrounding community, the City decided to convert the disinfection method from chlorine gas to liquid sodium hypochlorite.

C&S provided design, construction administration and construction observation services for the conversion. The existing wastewater treatment plant had a relatively small room that contained the 2 ton chlorine gas cylinders and the gas management equipment. This area of the plant was not large enough to support the large tanks and associated containment area that were required for the sodium hypochlotite conversion.

C&S's creative design team was able to suggest that an unused plant building containing a sand filtration process (that had been abandoned) be converted to the storage area for the new sodium hypochlorite tanks and the pumping system.

The conversion of the sand filter building involved the removal of the old sand material, demolition of internal walls and cutting new



doorways through the cast in place concrete walls. New fiberglass stairways and handrails were designed. The new chemical storage and pumping room was equipment with new lighting and heat.

The new chemical storage and pumping system consisted of three 2,000 gallon fiberglass tanks and five variable speed tube (peristaltic) pumps. An existing PLC based control system was reprogrammed to remotely control the pumping system and monitor the volume of chemical in the tanks. Additionally, control panels were designed within the storage room and at the bulk chemical delivery station to display the volume of each tank and alarm if the tanks were over filled.

C&S also designed a new bulk chemical delivery containment area for tanker truck delivery of the liquid sodium hypochlorite.



Contact: William Barlow Mayor City of Owsego (315) 342-8136 mayor@oswegony.org



City of Owsego Eastside WWTP Chlorine Conversion

City of Oswego | Oswego, New York

The City of Oswego owns and operates a 6 mgd wastewater treatment plant on the shore of Lake Ontario on the east side of the City. The treatment plant was built in the 1970's and utilized chlorine gas as its method of disinfection. In order to provide a safer working environment for the operators and the surrounding community, the City decided to convert the disinfection method from chlorine gas to liquid sodium hypochlorite.

C&S provided design, construction administration and construction observation services for the conversion. C&S's design team converted the existing gas chlorine room to the storage area for the new sodium hypochlorite tanks and the pumping system.

The conversion of the existing gas chlorine room involved the removal of the existing chlorine cylinder scales and the gas management equipment. A new fiberglass doorway, large enough to allow passage of the new liquid chemical tanks was designed. A new wall penetration was designed to allow tanker trucks to open a small passage way door in the exterior wall of the building and connect the filler hoses so that external piping would not be necessary. The new chemical storage and pumping room was equipment with new lighting and heat.



The new chemical storage and pumping system consisted of two 2000 gallon fiberglass tanks and five variable speed tube (peristaltic) pumps. An existing PLC based control system was reprogrammed to remotely control the pumping system and monitor the volume of chemical in the tanks. Additionally, control panels were designed within the storage room and at the bulk chemical delivery station to display the volume of each tank and alarm if the tanks were over filled.

C&S also designed a new bulk chemical delivery containment area for tanker truck delivery of the liquid sodium hypochlorite.

Contact: William Barlow Mayor City of Oswego (315) 342-8136 mayor@oswegony.org





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City of Oswego Eastside WWTP Dechlorination Conversion

City of Oswego | Oswego, New York

Sodium Bisulfite Storage and Pumping Conversion

The City of Oswego owns and operates a 6 mgd wastewater treatment plant on the shore of Lake Ontario on the east side of the City. The treatment plant was built in the 1970's and disinfects its effluent with sodium hypochlorite. In 2017 the NYS Department of Environmental Protection began requiring the City to dechlorinate its effluent after disinfection.

C&S provided design, construction administration and construction observation services for the project to create a chemical storage and pumping area at the WWTP for the new dechlorinating chemical. C&S's design team converted an existing room adjoining the plant maintenance garage that formerly housed the plant makeup water pumps into the storage area for the new sodium bisultfite tanks and the pumping system.

The conversion of the former pump room involved the removal and replacement of a deteriorated stairway and other structural components that formerly supported pumps and piping. A new fiberglass doorway, large enough to allow passage of the new liquid chemical tanks was designed. The new chemical storage and pumping room was equipment with new



lighting, ventilation and heat.

The new chemical storage and pumping system consisted of two 600 gallon fiberglass tanks and five variable speed tube (peristaltic) pumps. The pumps were located on a new platform above the chemical tanks in order to maximize the use of the room space.

A new PLC based control system was designed to remotely control the pumping system and monitor the volume of chemical in the tanks. Additionally, control panels were designed within the storage room and at the bulk chemical delivery station to display the volume of each tank and alarm if the tanks were over filled.

C&S also designed an expansion of an existing bulk chemical delivery containment area for tanker truck delivery of the liquid sodium bisulfite.



Contact: William Barlow Mayor (315) 342-8136 mayor@oswegony.org



Schuyler WWTP Disinfection System

NYS Thruway Authority | Utica, New York

The New York State Thruway owns and operates a wastewater treatment plant at its Schuyler Service Area near Utica, NY. The treatment plant disinfects its effluent with sodium hypochlorite. The plant's disinfection building and pumping system was old and at the end of its useful life.

C&S provided design, construction administration and construction observation services for the project to remove the existing disinfection building and construct a new building to house the sodium hypochlorite storage, pumping and control system.

The building is a slab on grade, masonry structure housing the electrical, lighting, heat, ventilation, plumbing and chemical storage space to support the chemical pumping and monitoring system. The walls of the building were protected with FRP panels so splashes from the chemical or cleanup water would not damage the build.

The sodium hypochlorite pumping system consists of 2 hose (peristaltic) pumps on a pre-engineered skid controlled by a continuous chlorine concentration monitoring instrument. Effluent is pumped continuously through the concentration monitor which turns on and off the sodium hypochlorite pumps as needed. The pumps are provided





with hose break monitors which will alert the staff of the hose internal to the pump, ever breaks and the flow of chemical is interrupted.



Contact: Brian Miller Project Manager LaBella Associates, DPC (585) 295-6235 bmiller@LaBellaPC.com

www.cscos.com



Riley Booster Pump Station

City of Oswego | Oswego, New York

C&S provided planning, design and construction supervision services to the Coty of Oswego for a new Booster Pump Station to replace a 75 year old elevated water tower that had fallen into disrepair. The Booster Pump Station consisted of two domestic supply pumps and two fire protection pumps, a 6,000 hydro-pnematic tank and a disinfectant concentration boosting system.

The City chose a colored split face block building with a standing seem metal roof to house the pump system.

The pump station was designed with a capacity of 550 gpm for domestic needs and 2,000 gallons per minute for fire protection needs.

C&S designed a PLC based control system for the pump station that also communicates with the City's water treatment plant via spread spectrum radio.

This project also included a diesel standby generator and the addition of a solar powered mixer for the City's existing 10 million gallon reservoir to improve water quality.





Contact: Mike Riley City Purchasing Agent City of Oswego 315-342-8175 mriley@oswegony.org

www.cscos.com

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5 Experience & Qualifications of Subconsultants/ Contractors

Please find examples of our subconsultant's experience and qualifications on the following pages.





Years of Experience

Education

Bachelor of Science Mechanical Engineering Rochester Institute of Technology, 2002

Professional Registration

Professional Engineer/NY #088324

Professional Engineer/MD #45854

Professional Engineer/VT #08943

Professional Engineer/PA #083540

Professional

Accreditations

Leadership in Energy and Environmental Design (LEED) Accredited Professional LEED AP BD+C

Matthew Walldroff, P.E., LEED AP BD+C

COO / Mechanical Engineer

Mr. Walldroff (Matt) has a diverse mechanical engineering background and extensive project experience in a wide variety of market sectors including K-12, higher education, healthcare, commercial, industrial, wastewater treatment plants (WWTP), water plants, and various pump stations. He has designed several LEED projects and understands the importance of collaboration of trades to achieve an effective, energy-minded building while keeping it maintainable for years to come.

Part of Matt's unique experience includes retro-commissioning. He takes a practical approach to facility improvements and has proved very successful in reducing his client's yearly maintenance and energy costs.

His hands-on approach, in-depth understanding of HVAC systems, and ability to effectively communicate with contractors and design teams lends to the success of his projects.

RELEVANT EXPERIENCE

Waterloo Water Treatment Plant/Elevated Storage Tank, Fort Drum NY

The village of Waterloo Initiated a project to upgrade their water treatment plant and install a new elevated water storage tank for potable water. JSE was responsible for the Mechanical, Electrical, and Plumbing designs for the various water treatment plant upgrades as well as the elevated water storage tank. The scope of work for JSE included designs for site electric, interior/exterior electric, interior/exterior lighting, fire alarm, modifications to existing plumbing, new pumps, new actuated valves, new SCADA (Supervisory Control and Data Acquisition) system, and heating/ventilation

Village of Dryden Water System Improvements

JSE worked with the Village Engineer to design the electrical systems for the Village of Dryden Water System Improvements Project. Significant design aspects included a new electrical service entrance and associated gear at each site, a new Emergency Generator System at Well House #1, and new mechanical and electrical systems associated with the two (2) new well houses.

A complete supervisory control and data acquisition system (SCADA) was also provided. The new system incorporated six (6) different sites. The system utilized both wireless radio and cellular technology for remote monitoring and control of the Village water systems.

Watertown Wastewater Treatment Plant Improvements, Watertown NY

JSE worked with the City Engineer to design the mechanical and electrical systems for the City of Watertown's Wastewater Treatment Plant (WWTP) improvements project.

Significant design aspects included a new gas conditioning system/building, new digester gas-driven influent pump engines to aid in waste heat recovery and reuse, a new digester gas flare, and associated pump controls.





Years of Experience

Education

Bachelor of Science Electrical Engineering Clarkson University, 2003

Professional Registration

Professional Engineer/NY #085954

Professional

Accreditations

Leadership in Energy and Environmental Design (LEED) Accredited Professional

International Association of Electrical Inspectors

Benjamin Walldroff, P.E., LEED AP, IAEI

CEO / Electrical Engineer

Mr. Walldroff (Ben) worked for a number of large engineering firms in the mid-Atlantic region before returning to the North Country in 2007. In 2012, he co-founded Jade Stone Engineering where he is a managing partner. His belief in on-site engineering combined with his leadership style are significant factors in the success of JSE's electrical projects.

Ben has been actively involved in the electrical engineering industry for over 18 years and has gathered a diverse portfolio of project experience in several challenging engineering sectors to include higher education projects.

Mr. Walldroff is also a licensed Electrical Inspector and routinely performs on-site investigations of electrical installations. This unique subset of skills is an important asset for the firm.

RELEVANT EXPERIENCE

Trumansburg Well and Water System Improvements

JSE worked with the Village engineer to design the mechanical and electrical systems for the Village of Trumansburg Water System improvements project. Significant design aspects included electrical service entrance, medium voltage pad mounted transformer, emergency generator system, village wide control system to monitor and control all water system improvements remotely and underground electrical infrastructure.

Canandaigua/Farmington Water Storage Tank

JSE provided Mechanical and Electrical designs for the project. The scope of work for Jade Stone including a site visit to assess the site location as well as designs for interior/exterior electric, interior/exterior lighting with controls, grounding systems, ancillary equipment, SCADA system, and HVAC systems with controls for elevated water storage tank pedestal. JSE was also asked to provide an opinion of probable cost for the project.

City of Gloversville Water Treatment Plant Improvements

Significant design aspects included new electrical gear throughout the plant, a new Emergency Generator System, new electrical branch circuits and feeders, and replacement of lighting systems with modern LED fixtures. A temporary power plan was developed and implemented to ensure the plant remained operational during the electrical gear upgrades. JSE coordinated with the City Engineer on a consistent basis to ensure the project stayed within budget and on schedule.

Town of Queensbury SCADA System

Significant design aspects included the replacement of hardware within four (4) remote I/O panels and within the main control panel, upgrades to the main SCADA software, and development of technical specifications for all hardware. Design for five (5) remote telemetry units (RTU) located around the town was also provided.





Years of Experience

Education

Bachelor of Science Electrical Engineering Clarkson University, 2010

Professional Registration

Professional Engineer/NY #095896

Professional

Accreditations

Leadership in Energy and Environmental Design (LEED) Accredited Professional LEED AP BD+C

Jeffrey Robinson, P.E., LEED AP BD+C

Vice President of Engineering

Mr. Robinson (Jeff) is involved with the design and construction of a variety of facilities including K-12, higher education, healthcare, commercial, parks, streetscapes, municipal, wastewater treatment plants (WWTP), water treatment plants (WTP), various pump stations, industrial and site electrical distribution projects.

Jeff participates in all aspects of a project from the planning phase through close-out documents. Typical tasks include cost estimates, feasibility studies, utility coordination, load/demand studies, power distribution, control/SCADA systems, network system design, fire alarm systems, power/distribution design, and lighting design.

Jeff has also performed field studies to determine code compliance for existing electrical installations. When results revealed that an installation was not in compliance with current code, he provides recommendations for compliance and cost estimates.

RELEVANT EXPERIENCE

Baldwinsville-Seneca Knolls WWTP Asset Renewal Project – Onondaga County

JSE is currently working with Barton & Loguidice to design the mechanical, electrical, and plumbing (MEP) systems associated with an asset renewal project at the WWTP. Overall project intent is to bring all facilities, processes, and systems to compliance with current/anticipated permit limits, codes, and ensure the capability of maintaining the facilities asset value and reliable operation into the foreseeable future. Major MEP design tasks include but are not limited to the following: site wide lighting improvements, site wide HVAC improvements, power distribution improvements/modifications to support process upgrades. The project remains in the design phase. A 60% milestone submission was recently submitted for review.

Ogdensburg Wastewater Treatment Plant Improvements – St. Lawrence County

JSE is currently working with the City Engineer to design/construct the mechanical, electrical, and plumbing (MEP) systems associated with a complete overhaul of the City's existing WWTP. Significant design aspects included but are not limited to the following: a new 480V electrical service, the replacement of all existing HVAC equipment, a new potable water service, new power distribution equipment, new modern/efficient LED lighting systems throughout the site, building improvements to meet current codes/regulations, and a new emergency generator system to provide complete backup in the event of a normal power failure. JSE worked closely with the City and the City Engineer to keep the project within budget and on schedule. The project is currently under construction.

Frontier Town Campground, Schroon Lake, NY

Jeff was the lead engineer on this fast pace, challenging OGS Project. Project included a new Primary Metered 13.2kV service, 13.2kV grounded wye underground distribution, sectionalizing switches, pad mounted transformers and underground fiber optic conduits to serve a multitude of facilities, to include: several car charging stations, (50) RV pedestals, (4) Pavilions, Ticket booth, (4) Bathroom/shower houses, recycle building, care takers cabin, maintenance garage, staff cabin, firewood storage and a water storage/treatment building. This project included extensive underground medium voltage distribution and very specific and detailed primary metering details/drawings which have recently been approved by National Grid. This project completed construction in late 2019.



6 Specific Experience of Key Project Professionals

Please find examples of our key project professionals' experience and qualifications on the following pages.





Ronald Jackson, PE

Principal Engineer

Ron Jackson has more than 30 years of consulting experience in the area of water and wastewater treatment design. He has been responsible for the design of numerous treatment plants and has built a solid reputation for producing functional, economical, end-user-focused designs and finished construction projects which meet the needs of the customer through technical skill and relationship building.

Total Experience 30 years

With C&S Since 2007

Education

B.S., Civil Engineering, Syracuse University, 1986

A.S., Engineering Science, Broome Community College, 1984

Registrations Professional Engineer —

AZ, NY, NJ

Organizations

Water Environment Federation Member

American Water Works Association Member

Training

40-Hour OSHA Training

8-Hour OSHA Construction Safety Training

OSHA Confined Space Entry & Lockout/Tagout of Hazardous Energy



Experience

Wetzel Road WWTP Intermediate Screens Replacement, Onondaga County Department of Water Environment Protection, Liverpool, New York— Designed band type screens with a screenings washer and compactor as a replacement to the existing climber type screens. The new screens had to be selected and specified to fit in the existing channel and convey the peak flow without overflowing the existing channel.

Metro WWTP Grit Facilities Improvements, Syracuse, NY—Designed all electrical, instrumentation and control improvements associated with new turbo-blowers, grit classifiers and rake screens for a 100 mgd headworks facility. Provided testing, startup and commissioning services.

Oswego Westside WWTP Screening and Pumping, City of Oswego, Oswego, New York—Designed \$8 million in upgrades and improvements to the plant.

Jimersontown WWTP Headworks Screening, Seneca Nation of Indians, Jimersontown, New York— Designed a new, modern wastewater treatment plant to accommodate their Allegany Community Service complex, the Seneca Allegany Casino, and the residential area of Jimersontown. The new WWTP received gravity and pumped raw sewage flows.

Newtown WWTP Headworks Screening, Seneca Nation of Indians, Newtown, New York— Designed a new, modern wastewater treatment plant to accommodate their Cattaraugus Community Service complex and the residential area of Newtown.

Wetzel Road WWTP Fine Screen Replacement, Liverpool, NY—Designed the replacement of two 12 mgd capacity step screens to for replacement with 2 mm center-flow band screens to provide better pre-treatment for the down-stream BAF units. Designed all electrical, instrumentation and control improvements associated with the new screens.

Metro WWTP Biosolids Pumping Improvements, Syracuse, NY—Designed all electrical, instrumentation and control improvements associated with new primary solids pumping and thicken solids pumping for a 100 mgd headworks facility. Provided testing, startup and commissioning services.

Welch Allyn Sanitary Wastewater Treatment Plant Upgrade, Skaneateles, NY— Designed upgrades for a 30,000 gpd wastewater treatment plant including flow equalization, continuously backwashing sand filtration, and UV disinfection.

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Emma Aversa

Engineer

As an engineer in the Municipal Service group, Emma's responsibilities include civil design, municipal services, field work, and AutoCad Civil 3D support. Her project experience extends across many fields including water distribution, stormwater management, drainage and flood studies, industrial facilities, wastewater treatment, and utility mapping.

Experience

Odessa Sanitary Sewer, Village of Odessa, NY, Ongoing—Civil design team member for a collection system and sub-surface treatment system for approximately 200 village residents and local businesses.

Thompson Park Pool & Bathhouse, Town of Watertown, NY, 2018—Civil design team member for a new pool and bathhouse in Watertown, NY. Work included designing a zero-entry pool with lap lanes, site grading and site 3D design and drawings. Cost: ~\$2.5 million.

Old Seneca Turnpike Water Line, Town of Skaneateles, NY, 2017—Civil design team member for two new 8" water lines in Skaneateles, NY. Work included the design of approximately 3,300 lineal feet of new water line to serve residents along Old Seneca Turnpike and Master's Road in Skaneateles, NY. In addition to preparing plans, construction inspections were performed. Cost: \$300,000.

EJ USA Project Forge, Phoenix, NY, 2017—Civil design team member for the design of a new 70,000 square foot building for use as a steel and aluminum fabrication facility with a sales and distribution yard to produce infrastructure access solutions (manhole frames, grates, covers, hatches, etc.). Responsible for assisting in the development of a full set of Contract drawings and specifications. Cost: \$10 million.

A-2 South, Syracuse Inner Harbor Project, NY, 2017—Civil design team member for large scale mixed-use development within the inner harbor. Work included the design and grading of a parcel housing a new mixed use building, parking area and waterfront patio space. Cost: ~\$10 million.

Farm Credit East, Springfield, NY, 2017—SWPPP inspector for a new Farm Credit East facility in Springfield, NY. Work for this project consisted of a utility plan, grading and drainage plan, an erosion and sediment control plan, and a comprehensive SWPPP report. This project included the design of a 50-employee office space and consumer facility with associated site infrastructure. Cost: \$6 million

Multiple Ground Mount Solar Array Projects, TJA Solar Energy, LLC, Ongoing— Responsible for regulatory compliance including NYSDEC SPDES General Permit GP-0-20-001 and NYS Stormwater Compliance for multiple utility scale solar system array projects.

Total Experience 3 years With C&S Since

2017

Education

B.S., Environmental Resources Engineering, SUNY College of Environmental Science and Forestry, Syracuse, NY, 2016

Registrations and Certifications

Autodesk Certified Professional: Civil 3D for Infrastructure

Design EIT Fall, 2016

Erosion and Sediment Control Certification, 2016

Software Skills

Autodesk Civil 3D Autodesk Infraworks Autodesk Revit Storm & Sanitary Analysis ArcGIS Pro HydroCAD WaterCAD HEC-RAS



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Schedule, Effort and Budget Breakdown

Please find our schedule and budget breakdown on the following pages.



						Water Treat	Niagara Falls Water Bo ment Plant Fluoride Sy	oard /stem Evaluation		
ID	Task Name	Duration	Start	Finish	Predecessors	Feb	Mar	Apr	May	Jun
1	Kick-Off Meeting	1 day	Mon 2/6/23	Mon 2/6/23						
2	Field Work and Draft Report Preparation	89 days	Tue 2/7/23	Fri 6/9/23	1	•				
3	Draft Report Review and Revis	si 14 days	Tue 6/13/23	Fri 6/30/23	2					
4	Final Report Review and Revisions	s 14 days	Mon 7/3/23	Thu 7/20/23	3					
5	NYS DOH Submission and Revision	n:30 days	Fri 7/21/23	Thu 8/31/23	4					

Jul	Aug	Sep

C&S Team - Cost Proposal Summary								1				
Niagara Falls Water Boards Request for Proposals No. 2023-01 - Water Treat	ment Plant I	luoride Sys	stem Asses	sment								
				C&S Engineers I	Hours							
	Assistant Engineer / Architect / Scientist	Engineer / Architect / Scientist	Project Engineer / Architect / Scientist	Senior Project Engineer / Architect / Scientist	Managing Engineer / Architect / Scientist	Principal Engineer / Architect / Scientist	C&S La Tota	abor I	C&S Direct Costs (Markup = 1.00)	Services By Others (Markup = 1.00)	Sumn	nary Totals
Hourly Salary Rate (\$ / hour)	\$ 37.30	\$ 40.90	\$ 43.00	\$ 55.00	\$ 65.00	\$ 74.00						
Multiplier	3.1	3.1	3.1	3.1	3.1	3.1						
Hourly Proposal Rate Including Multiplier (\$ / hour)	\$ 115.63	\$ 126.79	\$ 133.30	\$ 170.50	\$ 201.50	\$ 229.40						
Design of New Sludge Conveyance System	0	00	0	0	0	00	¢ 00.0	000	¢	¢ 47.500	¢	
Prefit Evalution and Drait Report Preparation	0	90	0	0	0	90	\$ 32,0		\$ 600 \$ 200	ъ 17,500	ф Ф	50,900
Final Report Review Meeting and Revisions	0	8	0	0	0	8	\$ 2,8	300	\$ 300 \$ 300		ъ \$	3,100
NYS DOH Submission and Revisions	0	8	0	0	0	8	\$ 2,8	300	\$ 300		\$	3,100
Total											\$	60,200
Total Proposed Project Fee							Percen	itage	of MBE Particip	ation		12.5%
							Percen	itage	of WBE Particip	ation		16.6%

Appendix

Our completed, required forms can be found on the following pages.



APPENDIX A, FORM No. 1

ACKNOWLEDGEMENT OF ADDENDA

REP TITLE	Water Treatment Plant Fluoride System Assessment					
	(Write the RFP No. and Title on the Li	ne Above)				
DIRECTIONS:	Complete Part I or Part II, whichever i	s applicable.				
PART I:	LISTED BELOW ARE THE DATES OF ADDENDUM RECEIVED IN CONNEC	F ISSUE FOR EACH CTION WITH THIS RFP:				
ADDENDUM # 1:	DATED	, 20				
ADDENDUM # 2:	DATED	, 20				
ADDENDUM # 3:	DATED	, 20				
ADDENDUM # 4:	DATED	, 20				
ADDENDUM # 5:	DATED	, 20				
ADDENDUM # 6:	DATED	, 20				

PART II:

JTC INITIAL HERE IF NO ADDENDUM WAS RECEIVED IN CONNECTION WITH THIS RFP INITIAL HERE

	DATE: $\frac{1}{24}/\frac{2023}{2023}$
PROPOSER (SIGNATURE):	Maz
PROPOSER (NAME):	John T. Camp, PE

C&S Engineers, Inc.

PROPOSER (FIRM):

APPENDIX A, FORM No. 2

CERTIFICATE OF NON-COLLUSION

Pursuant to New York State Public Authorities Law, Article 9, Title 4, Section 2878, the undersigned proposer hereby subscribes and affirms as true, under the penalties of perjury, the following statement of non-collusion:

By submission of this proposal, each proposer and each person signing on behalf of any proposer certifies, and in the case of a joint proposal each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his/her knowledge and belief:

- The prices in this proposal have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other proposer or with any competitor;
- (2) Unless otherwise required by law, the prices which have been quoted in this proposal have not been knowingly disclosed by the proposer and will not knowingly be disclosed by the proposer prior to opening, directly or indirectly, to any other proposer or to any competitor; and,
- (3) No attempt has been made or will be made by the proposer to induce any other person, partnership, or corporation to submit or not to submit a proposal for the purpose of restricting competition.

	DATE: <u>1 / 24 / 2023</u>
PROPOSER (SIGNATURE):	And
PROPOSER (NAME):	John T. Camp, PE
PROPOSER (FIRM):	C&S Engineers, Inc.
STATE OF New York)
COUNTY OF Onondaga) ss.:)

On the <u>24</u> day of <u>January</u>, 20<u>23</u>, before me, the undersigned, a Notary Public in and for said state, personally appeared <u>John T. Camp, PE</u> as a representative of C&S Engineers, Inc.

personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the entity on behalf of which the individual acted executed the instrument.

NICOLE DZUBA Notary Public, State of New York Reg. No. 01DZ6414463 Qualified in Onondaga County Commission Expires February 22, 2025

Notary Public

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APPENDIX A, FORM No. 3

NEW YORK STATE FINANCE LAW SECTIONS 139-j AND 139-k ("LOBBYING LAW") – DISCLOSURE STATEMENT

General Information

All procurements by the Niagara Falls Water Board ("NFWB") in excess of \$15,000 annually, are subject to New York State's State Finance Law Sections 139-j and 139-k, effective January 1, 2006 ("Lobbying Law").

Pursuant to the Lobbying Law, all "contacts" (defined as oral, written or electronic communications with the NFWB intended to influence a procurement) during a procurement - from the earliest notice of intent to solicit bids/proposals through final award and approval - must be made with one or more designated Point(s) of Contact only. Exceptions to this rule include written questions during the bid/proposal process, communications with regard to protests, contract negotiations, and RFP conference participation. Nothing in the Lobbying Law inhibits any rights to make an appeal, protest, or complaint under existing administrative or judicial procedures.

Violations of the policy regarding permissible contacts must be reported to the appropriate NFWB officer and investigated accordingly. The first violation may result in a determination of non-responsibility and ineligibility for award to the violator and its subsidiaries, affiliates and related entities. The penalty for a second violation within four (4) years is ineligibility for bidding/proposing on a procurement and/or ineligibility from being awarded any contract for a period of four (4) years. The NFWB will notify the New York State Office of General Services ("OGS") of any determinations of non-responsibility or debarments due to violations of the Lobbying Law. Violations found to be "knowing and willful" must be reported to the NFWB Executive Director and OGS.

Moreover, the statutes require the NFWB to obtain certain affirmations and certifications from bidders and proposers. This Disclosure Statement contains the forms with which offerors are required to comply, together with additional information and instructions.

Instructions

New York State Finance Law §139-k(2) obligates the NFWB to obtain specific information regarding prior non-responsibility determinations. In accordance with New York State Finance Law §139-k, an offerer must be asked to disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any governmental entity due to: (a) a violation of New York State Finance Law §139-j or (b) the intentional provision of false or incomplete information to a governmental entity.

As part of its responsibility determination, New York State Finance Law §139-k(3) mandates consideration of whether an offerer fails to timely disclose accurate or complete information regarding the above non-responsibility determination. In accordance with law, no procurement contract shall be awarded to any offerer that fails to timely disclose accurate or complete information under this section, unless the factual elements of the limited waiver provision can be satisfied on the written record.

Disclosure of Prior Non-Responsibility Determinations

Name of Bidder/Proposer:

Address: 499 Col. Eileen Collins Blvd., Syracuse, NY 13212

Name and Title of Person

Submitting this Form: John T. Camp, PE

Has any governmental entity¹ made a finding of non-responsibility regarding the Bidder/Proposer in the previous four years?

_____Yes _____No

If yes: Was the basis for the finding of the Bidder's/Proposer's non-responsibility due to a violation of State Finance Law §139-j?

____Yes ____No

Was the basis for the finding of Bidder's/Proposer's non-responsibility due to the intentional provision of false or incomplete information to a governmental entity?

____Yes ____No

If yes to any of the above questions, provide details regarding the finding of non-responsibility below:

Governmental Entity:

Year of Finding of Non-responsibility:_____

Basis of Finding of Non-Responsibility (attach additional pages if necessary):_____

Has any governmental entity terminated or withheld a procurement contract with the Bidder/ Proposer due to the intentional provision of false or incomplete information?

____Yes ____No

If yes, provide details regarding the termination/withholding below:

Governmental Entity: _____

Year of Termination/Withholding:_____

Basis for Termination/Withholding (attach additional pages if necessary):

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NOTICE OF NFWB'S RIGHT TO TERMINATE

The NFWB reserves the right to terminate a Contract (including any lease, license, entry permit, or sale documents) in the event it is found that the certification filed by the Proposer, in accordance with New York State Finance Law §139-k, was intentionally false or intentionally incomplete. Upon such finding, the NFWB may exercise its termination right by providing written notification to the Bidder/Proposer in accordance with the written notification terms of the Contract.

Proposer's Affirmation and Certification

By signing below, the Proposer:

- Affirms that the Proposer understands and agrees to comply with the policy regarding permissible contacts in accordance with New York State Finance Law Sections 139-j and 139-k.
- b) Certifies that all information provided to the NFWB with respect to New York State Finance Law §139-j and §139-k is complete, true and accurate.

	DATE: $\frac{1}{24} / \frac{2023}{2023}$
PROPOSER (SIGNATURE):	1 D C L
PROPOSER (NAME):	John T. Camp, PE
PROPOSER (FIRM):	C&S Engineers, Inc.
STATE OF	_)
COUNTY OF) ss.:)

On the <u>24</u> day of <u>January</u>, 20<u>23</u>, before me, the undersigned, a Notary Public in and for said state, personally appeared <u>John T. Camp, PE</u> as a representative of C&S Engineers, Inc.

personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the entity on behalf of which the individual acted executed the instrument.

NICOLE DZUBA Notary Public, State of New York Reg. No. 01DZ6414463 Qualified in Onondaga County Commission Expires February 22, 2025

Notary Public
APPENDIX A, FORM No. 4

EQUAL EMPLOYMENT OPPORTUNITY ("EEO") POLICY STATEMENT AND AGREEMENT

Proposer hereby agrees to the following EEO policy with respect to its work on any contract awarded in connection with this RFP:

- a) This organization will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing programs of affirmative action to ensure that minority group members are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on Niagara Falls Water Board ("Water Board") contracts.
- b) This organization shall state in all solicitations or advertisements for employees that in the performance of the Water Board contract all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, disability or marital status.
- c) At the request of the Water Board, this organization shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union, or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of this organization's obligations herein.
- d) This organization shall comply with the provisions of the Human Rights Law, all other State and Federal statutory and constitutional non-discrimination provisions. Proposer and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, pregnancy or pregnancy-related conditions, gender identity, familial status, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to nondiscrimination on the basis of prior criminal conviction and prior arrest.
- e) This organization will include the provisions of section (a) through (d) of this agreement in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the Water Board contract.

ACCEPTED AND AGREED:	\wedge DATE: $\frac{1}{24}$ $\frac{2023}{2023}$
PROPOSER (SIGNATURE):	Mas
PROPOSER (NAME):	John T. Čamp, PE
PROPOSER (FIRM):	C&S Engineers, Inc.

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APPENDIX A, FORM No. 5

STATEMENT ON SEXUAL HARASSMENT **PURSUANT TO STATE FINANCE LAW § 139-1**

By submission of this proposal, proposer(s) and each person signing on behalf of any proposer certifies, and in the case of a joint proposal each party thereto certifies as to its own organization, under penalty of perjury, that the proposer has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all of its employees. Such policy shall, at a minimum, meet the requirements of section two hundred one-g of the labor law.

04

0000

	DATE: $\frac{1}{24}/\frac{2023}{2023}$
PROPOSER (SIGNATURE):	Aron
PROPOSER (NAME):	John T. Camp, PE
PROPOSER (FIRM):	C&S Engineers, Inc.
STATE OF <u>New York</u> COUNTY OF <u>Onondaga</u>)) ss.:)
On the <u>24</u> day of <u>Ja</u> Notary Public in and for said state, p as a representative of C&S Engineers,	nuary, 20_23 before me, the undersigned, a personally appeared John T. Camp, PE
personally known to me or proved to individual whose name is subscribed he/she executed the same in his/her the entity on behalf of which the ind	o me on the basis of satisfactory evidence to be the I to the within instrument and acknowledged to me that capacity, and that by his/her signature on the instrument, ividual acted executed the instrument.

NICOLE DZUBA Notary Public, State of New York Reg. No. 01DZ6414463 Qualified in Onondaga County Commission Expires February 22, 2025

Notary Public

APPENDIX A, FORM No. 6

REQUEST FOR PROPOSALS ACKNOWLEDGEMENT AND CERTIFICATION

As a duly-authorized representative of the proposer indicated below, I hereby acknowledge that by submitting a proposal in connection with

Water Treatment Plant Fluoride System Assessment, NO. 2023-01

(write RFP Number and Title)

proposer has made a firm offer and agrees to be bound by its terms. Proposer has carefully read the RFP and all addenda, and in submitting this proposal acknowledges proposer understands and agrees to be bound by the requirements set forth in the RFP, except as explicitly stated on a separate sheet attached to this proposal and entitled "Exceptions." Proposer agrees and understands that the terms and conditions set forth in the RFP addenda shall be incorporated into any contract or agreement awarded in connection with this RFP, and agrees to be bound by those terms and conditions.

I recognize that all information submitted is for the express purpose of inducing the Water Board to enter a contract with the submitting business entity. I affirm, under the penalties of perjury, that to the best of my knowledge the information contained in the proposal is full, complete, and truthful.

	DATE: $\frac{1}{24} / \frac{2023}{2023}$
PROPOSER (SIGNATURE):	MAS
PROPOSER (NAME):	John T. Camp, PE
PROPOSER (FIRM):	C&S Engineers, Inc.
STATE OF New York COUNTY OF Onondaga)) ss.:
On the <u>24</u> day of <u>J</u> Notary Public in and for said state, as a representative of C&S Engineers	anuary, 20_23, before me, the undersigned, a personally appeared John T. Camp, PE
personally known to me or proved individual whose name is subscribe he/she executed the same in his/he the entity on behalf of which the in-	to me on the basis of satisfactory evidence to be the ed to the within instrument and acknowledged to me that er capacity, and that by his/her signature on the instrument, dividual acted executed the instrument.
NICOLE DZUBA Notary Public, State of New York Reg. No. 01DZ6414463 Qualified in Onondaga County Commission Expires February 22, 2025	Notary Public

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MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISES – EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

M/WBE AND EEO POLICY STATEMENT

I,	amp, PE		, tl	he (awa	ardee/contra	actor) C&S	Engineers, Inc.		agree to add	pt the follow	wing
policies	with	respect	to	the	project	being	developed	or	services	rendered	at
5815 Buffalo	Avenue, N	liagara Falls, I	New Yo	rk							

M/WBE This organization will and will cause its contractors and subcontractors to take good faith actions to achieve the M/WBE contract participations goals set by the State for that area in which the State-funded project is located, by taking the following steps:

- Actively and affirmatively solicit bids for contracts and subcontracts from qualified State certified MBEs or WBEs, including solicitations to M/WBE contractor associations.
- (2) Request a list of State-certified M/WBEs from AGENCY and solicit bids from them directly.
- (3) Ensure that plans, specifications, request for proposals and other documents used to secure bids will be made available in sufficient time for review by prospective M/WBEs.
- (4) Where feasible, divide the work into smaller portions to enhanced participations by M/WBEs and encourage the formation of joint venture and other partnerships among M/WBE contractors to enhance their participation.
- (5) Document and maintain records of bid solicitation, including those to M/WBEs and the results thereof. The Contractor will also maintain records of actions that its subcontractors have taken toward meeting M/WBE contract participation goals.
- (6) Ensure that progress payments to M/WBEs are made on a timely basis so that undue financial hardship is avoided, and that bonding and other credit requirements are waived or appropriate alternatives developed to encourage M/WBE participation.

EEO

(a) This organization will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing programs of affirmative action to ensure that minority group members are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on state contracts.

(b)This organization shall state in all solicitation or advertisements for employees that in the performance of the State contract all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex disability or marital status.

(c) At the request of the contracting agency, this organization shall request each employment agency, labor union, or authorized representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of this organization's obligations herein.

(d) The Contractor shall comply with the provisions of the Human Rights Law, all other State and Federal statutory and constitutional nondiscrimination provisions. The Contractor and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to nondiscrimination on the basis of prior criminal conviction and prior arrest. (e) This organization will include the provisions of sections (a) through (d) of this agreement in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each

subcontractor as to work in connection with the State contract

Agreed to this day of	, 2 023
By_MT	
Print:	Title:

John F. Spina

_____is designated as the Minority Business Enterprise Liaison

(Name of Designated Liaison)

responsible for administering the Minority and Women-Owned Business Enterprises- Equal Employment Opportunity (M/WBE-EEO) program.

M/WBE Contract Goals

³⁰ % Minority and Women's Business Enterprise Participation

¹⁵ % Minority Business Enterprise Participation

¹⁵ % Women's Business Enterprise Participation

(Authorized Representative

Senior Vice President Title:

January 24, 2023



MWBE/SDVOB UTILIZATION PLAN

FORM A

ghlin	Plant	orter, Executive Director		14304	
Michael C. O' Laughlin	Municipal Water Plant	Attention: Rolfe Porter,	5845 Buffalo Ave.	Ningera Falls, NY 14304	÷۷

Attention: Rolfe Porter, Executive Director 5845 Buffalo Ave. Nagera Falls, NY 14304								
INSTRUCTIONS: This form must be submitted with detailed description of the supplies and/or service: Atom additional sheets if necessary.	any bid or proposed negotiate s to be provided by each cert	d contract or wil ified Minority ar	thin a reasonable Nomen-ownee	time thereafter, but Business Enterpri	t prior to contract award as required in the ise (MWBE) and Service Disabled Veteran	IFB or RFQ. This Uti Owned Business (S	ization Plan must contain a DVOB) under the contract.	-
Contractor's Name, Address and Telephone No. C&S Er Second Second	igineers, Inc.; 499 Col. Ei yracuse, NY 13212; (315	leen Collins.) 455-2000	Contract Des Contract Des Location (Regi	No.: cription (Construction on):	ı, Construction Consultant, Commodities or Sen	ices/Technologies) &	MWBE or SDVOB Goals In Contract MBE 15 %	
, 2 023			NO. 202	23-01			WBE 15 % SDVOB %	
Trified MMBE or SDVOB Subcontractors/Supple Name, Address, Telephone No, E-mail Address	federal ID. No.	NYS ESD CI MBE or WBE	ERTIFIED SDVOB	Deta (Attach a	ailed description of Work additional sheets if necessary)	Dollar Value of Si and intended compc	bcontracts/ supplies/ services performance dates of each nent of the contract	
Dupt Jade Stone Engineering; 444 Vanduzee St. Watertown, NY 13601; (315) 836-4062; dharper@ise.engineering	45-4403943			Hee	ating/Ventilation Design		TBD	
Achitecture & Engineering; 95 Perry Str Suite 300, Buffalo, NY 14203; (716) 206-510 info-buffalo@watts-ae.com	eet, 46-0635147);	N		Haz	ardous Material/Survey		TBD	
da Pa								
IFONABLE TO FULLY MEET THE MBE, WBE A	ND SDVOB GOALS SET FC ITRACT.	ORTH IN THE C	ONTRACT, COI	NTRACTOR MUST	r submit good faith efforts (gfi	E) DOCUMENTATIO	N and A REQUEST FOR	
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	ç			imail Address jcamp(@cscos.com			
National Arithmetic of Preparer (Print or Type) John T. Camp	, PE, Sr. Vice President		F	elephone No. (315) 4	455-2000	Date January 24	, 2023	
			FOR AGENCY I	ISE ONLY				
Reviewed By						Date		
Utilization Plan Approved	No					Date		
Contract No.	^o roject No. (If applicable)		Contract Award D	ate	Estimated Completion Date	Contract Amoun	Obligated	

MWBE Utilization Plan (6/15) Form MWBE 100

Notice of Deficiency Issued	T Yes	2	Date	Description of Work
Notice of Acceptance Issued	T Yes	2	Date	

Form MWBE 100

MATER BOARD

STAFFING PLAN

FORM C

Niagara Falls Water Board Michael C. O' Laughlin Municipal Water Plant Arention: Rolfe Porter, Executive Director 5845 Buffalo Ave. Magara Falls, NY 14304

Submit with Bid or Proposi	II- Instructio	ns on page	e 2.									
Seciration No. NO. 20 Secrets Name: C&S E W	23-01 1gineers, In	ರ			Re	porting Entity	C&S Engineers, Inc.		Report includes (Workforce to be Total workforce Offeror Subcontractor's Subcontractor's	contractor's/Subcontra utilized on this contract i name	ictor's:	
Erthe total number of e	mployees for	r each class	sification in	each of th	lol-OJol) Categories ident	ified					
ting	ļ	Workf Gei	force by nder			Wc	rkforce by Race/Ethnic	Identification				
EF Dob Category	l otal Work Force	Male (M)	Female (F)	ΨM (W)	ite (F)	Black (M) (F)	Hispanic (M) (F)	Asian (M) (F)	Native American (M) (F)	Disabled (M) (F)	Veteran (M) (F)	
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Service Workers												
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Totals	5	н	-	г	-							
Prepared By (Signature)	2	E		6			E	Address jcamp@cscos.	com			
Name and Title of Preparer (Pr	nt or Type) Jc	hn T. Cai	mp, PE, S	r. VP	Tele	phone No. (315) 4	55-2000		Date January 2	24, 2023		

ALLO	OBY
PINGARA F	ANTER BD

WORK FORCE EMPLOYMENT UTILIZATION FORM I

Contract No.: No. 2023-01			Report Con Sub	i ng Ent tractor contract	ity: for			Reporting Period: January 1, 20 April 1, 20	March 31, 20 June 30, 20 September 30, 20		
Contractor's Name:								October 1, 20	- December 31,	20	
Contractor's Addres								Report includes:	utilized on this o		
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Technicians											
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Office/Clerical											
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Totals	2	-	-	-	-						
PREPARED BY (Signatu	re):	3		\cap			TELEPHON	E NO.: RESS: (315) 455-2000; jcar	np@cscos.com	DATE: January 24, 2023	
NAME AND TITLE OF Pi John T. Camp, PE, Sr. Vice President	REPARE	R (Print (or Type):				Submit com NYS (add Aç	pleted form to: jency name)			

WATER BOARD INGARA FAL Form MWBE 100

STAFFING PLAN

FORM C

Niagara Falls Water Michael C. O' Laughl	Board in Municip	al Wate	r Plant					
産 tention: Rolfe Port	er, Execut	ive Dire	ctor					
33 15 Buffalo Ave.								
🖌 agara Falls, NY 143	804							
Ja								
Submit with Bid or Propos	al- Instructior	is on page	<u>9</u> 2.					
Bilicitation No. RFP	NO. 2023-01	_			ž	eporting E	ntity:	
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Office/Clerical	1		1		-			
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Report includes Contractor's/Subcontractor's:

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2											_ Tot	al workforce		
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23	Vanduzee	i Vt									Sut	scontractor		
Vate	ITOWN, N	r 13601									Sub	contractor's I	Jade Stone	Engineering, PLLC
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Prepared By (Signature)	the his	d						Emai	l Address m	ıburt@jse.er	Igineering			
Name and Title of Preparer (P	int or Type) ^M E ¹	anasseh l ngineering	Burt 3 Operatior	ıs Manage	Jr Tele	phone No. 3	315-755-06	173			Date	1/24/2023		

M/WBE Form #1

NEW YORK STATE DEPARTMENT OF HEALTH M/WBE UTILIZATION PLAN

Bidder/Contractor Name: C&S Engineers, Inc.	
Vendor ID: 13-5318940	Email: jcamp@cscos.co Phone: (315) 455-2000
RFP/Contract Title: Water Treatment Plant Fluoride System Assessment	RFP/Contract No. NO. 2023-01

Description of Plan to Meet M/WBE Goals

C&S Engineers, Inc. will subcontract hazardous materials/survey services to Watts Architecture & Engineering (MBE) and heating/ventilation design services to Jade Stone Engineering (WBE) in order to meet the set M/WBE goals for this contract.

PROJECTED M/WBE USAGE

		%	Amount	
1.	Total Dollar Value of Proposal Bid	100	\$ TBD	
2.	MBE Goal Applied to the Contract	15	\$ TBD	
3.	WBE Goal Applied to the Contract	15	₅ TBD	
4.	M/WBE Combined Totals	٥30	\$ 0.00 TBD	

"Making false representation or including information evidencing a lack of good faith as part of, or in conjunction with, the submission of a Utilization Plan is prohibited by law and may result in penalties including, but not limited to, termination of a contract for cause, loss of eligibility to submit future bids, and/or withholding of payments. Firms that do not perform commercially useful functions may not be counted toward MWBE utilization."

M/WBE Form #1 NEW YORK STATE DEPARTMENT OF HEALTH M/WBE UTILIZATION PLAN

MINORITY OWNED BUSINESS ENTERPRISE (MBE) INFORMATION

In order to achieve the MBE Goals, bidder expects to subcontract with New York State certified MINORITY-OWNED entities as follows:

MBE Firm (Exactly as Registered)	Description of Work (Products/Services) [MBE]	Projected MBE Dollar Amount
Name Address	Watts Architecture & Engineering	\$TBD
City, State, ZIP Employer	95 Perry Street, Suite 300, Buffalo, NY 14203	
I.D.(FEIN)	46-0635147	
Telephone Number () -	(716) 206-5100	
Name Address		\$
City, State, ZIP Employer		
I.D.(FEIN)		
Telephone Number () -		
Name Address		\$
City, State, ZIP		
Employer I.D.		
Telephone Number		
() -		

M/WBE Form #1 NEW YORK STATE DEPARTMENT OF HEALTH M/WBE UTILIZATION PLAN

WOMEN OWNED BUSINESS ENTERPRISE (WBE) INFORMATION

In order to achieve the WBE Goals, bidder expects to subcontract with New York State certified WOMEN-OWNED entities as follows:

WBE Firm (Exactly as Registered)	Description of Work (Products/Services) [WBE]	Projected WBE Dollar Amount
Name Address	Jade Stone Engineering	\$ TBD
City, State, ZIP Employer I.D.	444 Vanduzee Street, Watertown, NY 13601, 45-4403943	
Telephone Number		
() -	(315) 836-4062	
Nama Address		
Name Audress		\$
City, State, ZIP		
Employer I.D.		
Felephone Number		
() -		
Name Address		æ
City, State, ZIP Employer I.D.		<u></u>
Telephone Number () -		

Attachment 5 Form # 1 Page 3

M/WBE Form #4

NEW YORK STATE DEPARTMENT OF HEALTH M/WBE STAFFING PLAN

For project staff, consultants and/or subcontractors working on this grant complete the following plan. This has no impact on MWBE utilization goals, or the submitted Utilization Plan - Form#1. This is for diversity research purposes.

Contractor Name_ C&S Engineers, Inc.

Address 499 Col. Eileen Collins Blvd.

Syracuse, NY 13212

STAFF	Total	Male	Female	Black	Hispanic	Asian/ Pacific Islander	Other
Executive/Senior level Officials	0						
Managers/Supervisors	0						
Professionals	0	1	1			*	2 (white)
Technicians	0						
Administrative Support	0						
Craft/Maintenance Workers	0						
Laborers and Helpers	0						
Service Workers	0						
Totals	0	1	1				2

John T. Camp, Sr. Vice President

(Name and Title) (Signature)

January 24, 2023

Date

Workforce to be utilized on this contract from C&S Engineers, Inc.

Form #4 -Page 1 of 1

M/WBE Form #5

NEW YORK STATE DEPARTMENT OF HEALTH

MWBE AND EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

I, John T. Camp, PE _____, the (awardee/contractor) C&S Engineers, Inc. adopt the following policies with respect to the project being developed or services rendered at

agree to

MWBE

This organization will and will cause its contractors and subcontractors to take good faith actions to achieve the M/WBE contract participations goals set by the State for that area in which the State-funded project is located, by taking the following steps:

Water Treatment Plant Fluoride System Assessment

Actively and affirmatively solicit bids for contracts and subcontracts from qualified State certified MBEs or WBEs, including solicitations to M/WBE contractor associations.

Request a list of State-certified M/WBEs from AGENCY and solicit bids from them directly.

Ensure that plans, specifications, request for proposals and other documents used to secure bids will be made available in sufficient time for review by prospective M/WBEs.

Where feasible, divide the work into smaller portions to enhanced participations by M/WBEs and encourage the formation of joint venture and other partnerships among M/WBE contractors to enhance their participation.

Document and maintain records of bid solicitation, including those to M/WBEs and the results thereof. Contractor will also maintain records of actions that its subcontractors have taken toward meeting M/WBE contract participation goals.

Ensure that progress payments to M/WBEs are made on a timely basis so that undue financial hardship is avoided, and that bonding and other credit requirements are waived, or appropriate alternatives developed to encourage M/WBE participation.

John T. Camp, PE, S	Senior Vice President
---------------------	-----------------------

Name & Title

January 24, 2023

Signature & Date

EEO

(a) This organization will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing programs of affirmative action to ensure that minority group members are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on state contracts.

(b) This organization shall state in all solicitation or advertisements for employees that in the performance of the State contract all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex disability or marital status.

(c) At the request of the contracting agency, this organization shall request each employment agency, labor union, or authorized representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of this organization's obligations herein.

Contractor shall comply with the provisions of the (d) Human Rights Law, all other State and Federal statutory and constitutional non-discrimination provisions. Contractor and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non- discrimination on the basis of prior criminal conviction and prior arrest. This organization will include the provisions of (e) sections (a) through (d) of this agreement in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the State contract.



New York State Environmental Facilities Corporation EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT NEW YORK STATE FINANCIAL ASSISTANCE PROGRAMS

I, <u>John T. Camp, PE</u>, am the authorized representative of <u>C&S Engineers, Inc.</u> Name of Contractor/Service Provider I hereby certify that <u>C&S Engineers, Inc.</u> Name of Contractor/Service Provider opportunity (EEO) policy statement provisions outlined below.

- (i) The Contractor will not discriminate on the basis of race, creed, color, national origin, sex, age, disability, or marital status against any employee or applicant for employment, will undertake or continue existing programs of affirmative action to ensure that minority group members and women are afforded equal employment opportunities without discrimination and will make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on Contracts relating to Water Grant projects.
- (ii) The Contractor shall state in all solicitations or advertisements for employees that, in the performance of the Contract relating to this Water Grant project, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.
- (iii) The Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union, or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status, and that such union or representative will affirmatively cooperate in the implementation of the Contractor's obligations herein.
- (iv) The Contractor shall comply with the provisions of the Human Rights Law (Article 15 of the Executive Law), including those relating to non-discrimination on the basis of prior criminal conviction and prior arrest, and with all other State and federal statutory and constitutional non-discrimination provisions. The Contractor and Subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status.
- (v) The Contractor will include the provisions of subdivisions (i) through (iv) in every Subcontract in such a manner that the requirements of these subdivisions will be binding upon each Subcontractor as to work in connection with the Contract.

Contractor/Service Provider Representative

EEO Policy Statement

10/2020

NIAGARA COUNTY WATER DISTRICT

5450 ERNEST ROAD, P.O. BOX 315, LOCKPORT, NEW YORK 14095-0315

TELEPHONE (716) 434-8835 FAX NO. (716) 434-8836

ADMINISTRATIVE BOARD

ADMINISTRATIVE DIRECTOR JENNIFER H. BIEBER Jennifer.bieber@niagaracounty.com

> SEAMAN NORRIS LLP COUNCIL

> > WENDEL CONSULTANT

W. ROSS ANNABLE CHAIRMAN MARK C CROCKER CO-CHAIRMAN JOHN SYRACUSE WRIGHT H. ELLIS STEVE BRODERICK DOYLE H PHILLIPS DON J MACSWAN LEE WALLACE JOEL M. MAERTEN DANIEL R. BRAGG JOHN "DUFFY" JOHNSTON JEFFREY M. DEWART

January 5, 2023

Niagara Falls Water Board 5815 Buffalo Avenue Niagara Falls, NY 14304

Re: Agreement for Supply of Water to City of Niagara Falls

To the Niagara Falls Water Board:

Pursuant to the Niagara County Water District's contract with the City of Niagara Falls for the mutual purchase of water, dated January 1, 1990, this will advise that the Niagara County Water District intends to increase the rates for water to the rate set forth in the attached proposed new contract.

This will constitute the ninety-day notice of intent to negotiate the rate pursuant to Paragraph 5(g) of the contract. Nevertheless, we would like this revised contract to go into effect immediately.

The reason is to bring both reciprocal billings in line with current in-District rates, as well as to bring the Water Board on as the contracting authority.

Thank you for your consideration, and please contact me with any questions or comments.

Very truly yours,

mikes Garber

Jennifer Bieber Administrative Director

JB/vw Encl.

WATER SUPPLY AGREEMENT

THIS AGREEMENT, made and entered into the _____ day of _______, 2023, between the NIAGARA COUNTY WATER DISTRICT, having its principal office at 5450 Ernest Road, Lockport, New York, hereinafter called the "District," and the NIAGARA FALLS WATER BOARD, the municipal water authority on behalf of the CITY OF NIAGARA FALLS, with principal offices at 5815 Buffalo Avenue, Niagara Falls, NY 14304, hereinafter called the "Authority."

WITNESSETH

WHEREAS, the District and the City of Niagara Falls (hereinafter, the "City") entered into a water supply agreement on January 1, 1990, which established the price per 100 cubic feet of water to be supplied to the City; and

WHEREAS, the parties have agreed to modify the price per 100 cubic feet of water in order to reflect changes in the cost of water production and distribution, which is necessary to reflect current market conditions; and

WHEREAS, the parties have agreed to a fair and reasonable price for the supply of water, taking into account the possibility that the price shall be chargeable by either party to the other; and

WHEREAS, the parties have determined that the new price per 1000 gallons of water will be effective as of the date of this Agreement.

NOW, THEREFORE, IT IS MUTUALLY AGREED AS FOLLOWS:

1. The Authority and the District hereby mutually agree that they will furnish to each other excess filtered water from their respective facilities and will continue to allow the connections to the said water systems at certain points previously agreed-to.

2. The parties agree to sell to each other and to pay for the said water at the rates defined below:

o Water Rate as of January 1, 2023.....\$1.00/1,000 gallons
o Water Rate as of January 1, 2025.....\$1.10/1,000 gallons
o Water Rate as of January 1, 2027.....\$1.20/1,000 gallons

3. The parties shall make no other charges, including taxes, other than the rates above-mentioned.

4. The initial term of this Agreement shall be for ten (10) years commencing on January 1, 2023. This Agreement shall automatically renew for additional successive one (1) year terms upon the expiration of this Agreement's initial term.

5. Either party may terminate this Agreement by written notice to the other party at least ninety (90) days prior to the termination date of this Agreement or any extension hereof. The termination date of the agreement and any extension hereof is December 31 of each and every year.

6. Either party may request to renegotiate the rate for the sale of water by giving written notice to the other ninety (90) days prior to the termination date of this Agreement or any extension hereof, provided that the parties agree not to renegotiate the rate for the sale of water prior to January 1, 2027.

7. This Agreement shall become effective January 1, 2023 and does supersede the prior Agreement in this matter dated January 1, 1990.

IN WITNESS WHEREOF, the parties have hereunto executed this agreement and caused the same to be signed by their respective authorized officers who have caused their respective seals to be affixed the day and year set opposite their respective signatures.

(SEAL)

NIAGARA FALLS WATER BOARD

By:

NIAGARA COUNTY WATER DISTRICT

(SEAL)

By:

W. Ross Annable, Chairman

STATE OF NEW YORK) > SS.: COUNTY OF NIAGARA >

e. e. e

On this ______ day of ______, to me known, who being by me duly sworn, did depose and say that he resides in the City of Niagara Falls in Niagara County, New York; that he is the Chairman of the Niagara Falls Water Board, the municipal corporation described in and which executed the foregoing instrument; that the seal affixed to this instrument is such municipal corporation's seal; that it was so affixed by order of the administrative board of said municipal corporation; and that he signed his name there to by like order.

Notary Public, State of New York

STATE OF NEW YORK)) SS.: COUNTY OF NIAGARA)

On this ______ day of ______, 2023, before me came, W. ROSS ANNABLE, to me known, who being by me duly sworn, did depose and say that he resides in the Town of Hartland in Niagara County, New York; that he is the Chairman of the Niagara County Water District, the municipal corporation described in and which executed the foregoing instrument; that the seal affixed to this instrument is such municipal corporation's seal; that it was so affixed by order of the Administrative Board of said municipal corporation; and that he signed his name there to by like order.

Notary Public, State of New York

NIAGARA FALLS WATER BOARD RESOLUTION # 2023-01-006

REQUIRING ANNUAL REVIEW AND REPORT ON EMERGENCY RESPONSE PLANS

WHEREAS, the Niagara Falls Water Board ("Water Board") operates critical infrastructure and based on prudence and certain regulatory requirements has developed emergency response plans to respond to contingencies which may endanger human or environmental health or property; and

WHEREAS, in the exercise of its duties and responsibilities, the Water Board believes it appropriate to require staff to deliver an annual report on the existing emergency response plans and confirming that these have been subject to annual review and appropriate revision;

NOW THEREFORE BE IT

RESOLVED, that annually, in the month of February, the Executive Director and Director of Inside Infrastructure shall present a report to the Water Board describing the existing emergency response plans and confirming that these have been reviewed and updated as appropriate.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director Director of Inside Infrastructure

Water Board Budget Line or Capital Plan Item with Funds for this Resolution: Not applicable.

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Y	es	N	0	Abs	tain	Ab	sent
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster]]	[]	[]	[]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board

NIAGARA FALLS WATER BOARD RESOLUTION # 2023-01-007

WWTP PROJECT 7 CHANGE ORDERS

WHEREAS, the Niagara Falls Water Board ("Water Board") is engaged in multiple projects to rehabilitate and improve its wastewater treatment plant, including a project to make critical heating and ventilation improvements at the WWTP, referred to as "Project 7"; and

WHEREAS, the Project 7 construction work was awarded to CIR Electrical Construction Corp. ("CIR") and to John W. Danforth Co. ("Danforth"), and is nearing completion; and

WHEREAS, the Project 7 contractors have presented a total of three proposed change orders, with EI Team as the Water Board's engineers for WWTP Project 7 recommending rejection of what has been designated as CIR Change Order No. 1 for conduit relocation; and

WHEREAS, EI Team recommends that the Water Board approve what has been designated CIR Change Order No. 2 in the amount of \$2,980.29 for installation of a 480v explosion and dust-ignition proof and watertight enclosed circuit breaker to replace a non-operable disconnect that originally had been identified as suitable for re-use but which was damaged after construction commenced; and

WHEREAS, EI Team recommends approval of Danforth Change Order No. 1 in the amount of \$2,282 for installation of three belt guards for fans designated E-1, E-2, and E-3, which were not part of the original specifications for those fans, as the fans had been specified prior to deletion of enclosures which were deemed to be an unnecessary expense, but without the enclosures belt guards now are necessary for safety; and

WHEREAS, EI Team is not requesting any additional fee for engineering services associated with these change orders beyond what previously has been appropriated by the Water Board;

NOW THEREFORE BE IT

RESOLVED, the Niagara Falls Water Board approves and authorizes what has been designated Change Order No. 2 to the contract of CIR Electrical Construction Corp. for WWTP Project 7 for installation of a 480v explosion and dust-ignition proof and watertight enclosed circuit breaker for an increase of \$2,980.29 in the contract amount; and

IT IS FURTHER RESOLVED, the Niagara Falls Water Board approves and authorizes Change Order No. 1 to the John W. Danforth Co. contract for WWTP Project 7, for the cost of installation of three belt guards for fans designated E-1, E-2, and E-3, an increase of \$2,282 in the contract amount.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director

Water Board Budget Line or Capital Plan Item with Funds for this Resolution:
 CIP Item No. WWTP 7 - WWTP Rehab Phase 4G - HVAC Improvements (SAM Grant Project ID #15688)
 Capital Line Supplied by:
 D. Williamson
 Available Funds Confirmed by:
 B. Majchrowicz

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Y	es	Ν	0	Abs	tain	Ab	sent
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board



January 24, 2023

Mr. Abderrahman Zehraoui Executive Director Niagara Falls Water Board 5815 Buffalo Avenue Niagara Falls, NY 14304

RE: Project 7 - Change Order Recommendations

EI Team Project No.: 181205.02

Dear Mr. Zehraoui:

EI Team has presented three (3) Change Orders for Project 7 (Replacement of Critical Heating and Ventilation Equipment) at a meeting held at the Niagara Falls Waste Water Treatment Plant, Main Conference Room. After the discussions of the Change Orders, demanded by the Construction Contractors (CIR Electrical Construction Corp. and John W. Danforth Company), EI Team is providing the following recommendations:

CIR Electrical Construction Corp. Change Order requests

on site at the time of the initial conduit installation for Project #3.

Change Order No.1:

 <u>Description</u>: Provide labor and materials (under Project #3) to relocate conduits to the zero speed switch and e-stop buttons due to a ductwork interference with Project #7. The ductwork was incomplete at the time. (\$2,341.06 cost for Change Order No.1) <u>Recommendation</u>: EI Team recommends that this Change Order No.1 to CIR be rejected. CIR has the Electrical contract for both Project #3 and Project #7. The Contract Documentation to CIR Electrical states that it is the responsibility of the Contractors to coordinate with each other to prevent any interferences between projects. JW Danforth, Contractor for the Mechanical work for Project #7, was not

Change Order No.2:

 <u>Description</u>: CIR Electric to provide labor, materials, tools, supervision, etc. as required in order to install (1) Appleton 30A 3P 480V Explosion-proof, Dust Ignition-proof, Watertight enclosed circuit breaker in replacement of existing non-operable R-3 disconnect noted for re-use on drawing. (\$2,980.29 cost for Change order No.2)

<u>Recommendation</u>: EI Team recommends that this Change Order No.2 be approved by NFWB. During project design, the existing disconnect switch in question was deemed by the Electrical Engineer as reusable. Since monies were tight on this project, we decided to reuse the switch. As construction started, the switch was damaged (handle broke off). CIR states that the switch was broken prior to any removal of wire and conduit by them.



John W. Danforth Company Change Order request

Change Order No.1:

1. <u>Description:</u> Provide and install three (3) belt guards from Manufacturer for E-1, E-2 and E-3. (\$2,282 cost for Change Order No.1)

<u>Recommendation</u>: EI Team recommends that this Change Order No.1 be approved by the NFWB. During design, the fans were to be enclosed and wouldn't require belt guards. After further study, it was determined that the enclosures can be eliminated. This provided for a lower cost of the fan assemblies and easier maintenance of the equipment. In the process of change, the belt guards that are required for safety were overlooked.

Please note that EI Team is not requesting any funds on their part for these changes.

Should you have any questions or if you would like to discuss our recommendations in further detail, please feel free to reach out to our office.

Sincerely

EI Team, Inc.

Architecture, Engineering, Planning and Construction Related Services

mill J. Szatlowski

Ronald J. Szatkowski, PE Vice President Engineering

cc: Dr. Hormoz Mansouri, PE (NE), PMP, EI Team, President
 Mr. Jay Meyers, PE, CPL
 Mr. Sean Costello, Niagara Falls Water Board, General Counsel
 cf

Page 2 of 2

Change Order

PROJECT (Name and address):	CHANGE ORDER NUMBER: #2	OWNER: 🖾
NFWTP Project 7	DATE: 7/14/2022	ARCHITECT: 🛛
1201 Buffalo Ave		CONTRACTOR:
Niagara Falls, NY 14303		FIELD:
TO CONTRACTOR (Name and address):	ARCHITECT'S PROJECT NUMBER: 181205.02	OTHER:
CIR Electrical Construction Corp.	CONTRACT DATE: 6/30/2021	
2517 Long Road	CONTRACT FOR: CIR Electrical Construction Corp).
Grand Island, NY 14072		

THE CONTRACT IS CHANGED AS FOLLOWS:

(Include, where applicable, any undisputed amount attributable to previously executed Construction Change Directives) Performance/Payment Bond

The original Contract Sum was	\$	177,363.00
The net change by previously authorized Change Orders	\$	2,341.06
The Contract Sum prior to this Change Order was	\$	179,704.06
The Contract Sum will be increased by this Change Order in the amount of	\$	2,980.29
The new Contract Sum including this Change Order will be	\$	182,684.35

The Contract Time will be extended by None days.

The date of Substantial Completion as of the date of this Change Order therefore is 12/30/2022.

NOTE: This Change order does not include changes in the Contract Sum, Contract Time or Guaranteed Maximum Price which have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

EI Team, Inc.	CIR Electrical Construction Corp.	NFWB
ARCHITECT (Firm name) 2060 Sheridan Drive, Buffalo, NY 14223	CONTRACTOR (Firm name) 2517 Long Rd, Grand Island, NY 14072	OWNER (Firm name) 5815 Buffalo Avenue, Niagara Falls, NY 14304
ADDRESS Remuil 1. Snothouster	ADDRESS	ADDRESS
BY (Signature) Ronald J. Szatkowski, PE	BY (Signature)	BY (Signature)
(Typed name)	(Typed name)	(Typed name)
DATE	DATE	DATE



CHANGE ORDER REQUEST RECAP

Job Name: NFWB WWTP Project #7			Date:	12/9/2022
Contract No.: NTP Signed 3/22/22	Change Order Reqest No.:	2	CIR Job No.:	2102010

Description:

CIR Electric to provide labor, materials, tools, supervision, etc. as required in order to install (1) Appleton 30A 3P 480V Explosionproof, Dust-Ignitionproof, Watertight enclosed circuit breaker in replacement of existing non-operable R-3 disconnect noted for re-use on drawing DEP-103 removal note 1.

Material Description	Material	Labor Description Hours Rate				Labor Cost	
Attached Quote (Cooper Electric)	\$ 1,727.71	Foreman ST	-	\$ -	\$	-	
Mounting Hardware	\$ 203.00	Journeyman ST	-	\$ -	\$	-	
		Foreman PT	-	\$ -	\$	-	
		Journeyman PT	5.5	\$ 81.75	\$	449.63	
					\$	-	
					\$	-	
					\$		
					\$	_	
					\$	_	
Material Cost Subtotal:	\$ 1,930.71				\$		
Job Expenses:		Supervision (12.5%)	0.688	\$ -	\$	_	
Document Control		Tool Usage (4% of	Labor)		\$		
Travel Time Costs		Total Labor Costs	\$	449.63			
Telephone		SUBTOTAL(L+M	(+ JE)		\$	2,580.34	
Transportation		Research & Layout		0%	\$	-	
Storage / Warehouse		Material Handling		0%	\$	-	
Safety (3% of Labor Cost)	\$ -	Clean Up Costs:		0%	\$	-	
Inspections & Permits							
Record Drawings							
Fuel Surcharges (4% of Material Cost)	\$ -	SUBTOTAL:			\$	2,580.34	
Shipping/Freight	\$ 200.00	Overhead		10%	\$	258.03	
Total Job Expenses	\$ 200.00	Profit		5%	\$	141.92	
Qualifications & Clarifications:		Subcontractor Amo	unt (if applicable)		\$	-	
1.) Sales Tax is NOT included		Subcontractor Mark	c-up	15%	\$	-	
2.) Straight Time only-NO overtime included		TOTAL:				2,980.29	
3.) No cutting and patching included		Tax on Total			\$	-	
4.) Schedule Impact		Bond Cost		0%	\$	-	
		Change Order	Request Total		\$	2,980.29	

We reserve the right to correct any and all errors and omissions NFWB Jan. 30, 2023 Meeting Agenda Packet - Page 99



David.Bulera@cooper-electric.com

QUOTE TO: CIR ELECTRICAL CONST CORP 2517 LONG ROAD GRAND ISLAND, NY 14072-1354 716-362-5000

Quotation

QUOTE DATE	QUOTE NUMBER
12/08/22	S050386029
P/	AGE NO.
1	of 1

SHIP TO: CIR ELECTRICAL CONST CORP 2517 LONG ROAD GRAND ISLAND, NY 14072-1354 716-362-5000

CUSTOMER NUM	BER CUSTO	MER ORDER NUMBER	JOB	NAME	QU	JOTED) TO
34739:	2 EXPLOSIO	N PROOF DISC			JORDAN		
	SALESPERSON	SHIP VIA		FREIGH	T ALLOWED		EXPIRATION DATE
דום חדעות	ΤΕΡΛ	NCF1		No			11:5 9pm ET
ORDER OTY			TPTION		UNIT PRICE	Ш	
lea	78138184798	APP AEAB3036FDS	FUSED DI	SCONNECT	3366.910	е	3366.91
		SWITCH 30A					
		Nonstock Item Ma	y Not be	Returnable			
lea	78138112709	APP AEAB13230C 3	P 30A CB		1727.710	е	1727.71
		Nonstock Item Ma	y Not be	Returnable			
		2-3 WEEKS TO GET	ON BOTH				
TERMS & CO	ONDITIONS				Subtota	1	5094.62
CONDITIONS OF SA	ALE, WHICH ARE INCORPO	RATED HEREIN AND AVAILABLE A	AT DE LECTED VC		Sales Ta	3S AX	0.00
FORCE OR EFFECT	. WIRE & PIPE PRICES A	RE ONLY GOOD FOR THE CURRENT	DAY.		Amount Di		5004 62

NECA Manual of Labor Units 2017-2018 Edition

Section 8: Division 26—Electrical











	I.CV	Normal	Dimouit	Billiouit		Jint	
Enclosed Circuit Breakers - Wall Mounted 3-Pole (or 2-Pole and Neutral)							
Note: These labor units apply to NEMA 1 enclosures only							
- For NEMA 3R add 10% - For stainless steel enclosures add 20%							<u> </u>
20 Amp		1.80	2.25	2.70		E	<u> </u>
30 Amp		2.00	2.50	3.00		E	<u> </u>
50 Amp	1	2.30	2.88	3.45		E	
60 Amp		2.70	3.38	4.05		E	
80 Amp	1	3.10	3.88	4.65		E	
100 Amp		3.60	4.50	5.40		E	
125 Amp		4.00	5.00	6.00		E	
150 Amp		4.50	5.63	6.75		E	
175 Amp		5.00	6.25	7.50		E	
200 Amp		5.50	6.88	8.25		E	
225 Amp		6.00	7.50	9.00		E	
250 Amp		7.00	8.75	10.50		E	
300 Amp		8.00	10.00	12.00		E	
400 Amp		9.00	11.25	13.50		E	
500 Amp		10.00	12.50	15.00		E	
600 Amp		12.00	15.00	18.00		E	
		16.00	20.00	24.00		E	<u> </u>
1000 Amp		20.00	25.00	30.00		E	<u> </u>
Enclosed Circuit Breakers - Wall Mounted 4-Pole (or 3-Pole and							
Neutral)							
- For NEMA 3R add 10%							
- For stainless steel enclosures add 20%							
20 Amp		2.00	2.50	3.00		E	
30 Amp		2.20	2.75	3.30		E	
50 Amp		2.50	3.13	3.75		E	
60 Amp		3.00	3.75	4.50		E	
80 Amp		3.50	4.38	5.25		E	
100 Amp		4.00	5.00	6.00		E	
125 Amp		4.50	5.63	6.75		E	<u> </u>
150 Amp		5.00	6.25	7.50		E	<u> </u>
175 Amp		5.50	6.88	8.25		E	<u> </u>
200 Amp		0.00	7.50	9.00		E	<u> </u>
220 Amp		7.00	10.00	12.00			
200 Amp		0.00	11.00	12.00			
400 Amp		9.00	12.50	15.00			<u> </u>
500 Amp		11.00	12.50	16.50		F	<u> </u>
600 Amp	-	13.00	16.76	19.50		F	<u> </u>
800 Amp		17.00	21.25	25.50		E	<u> </u>
1000 Amp		22.00	27.50	33.00		E	
Field Mounted Disconnect/Circuit Broaker							
Note: Includes termination labor							-
304		3 50	1 20	E 75		F	-
60A	-	3.50	4.30	5.63		F	-
100A	-	4 50	5.63	6 75		F	<u> </u>
200A	1	5.50	6.88	8.25		E	
400A	1	7.00	8.75	10.50		E	
600A	1	8.00	10.00	12.00	1	E	
800A	1	10.00	12.50	15.00		E	
Explosion Proof 2-Wire Safety Switches		2.00	0.75	4 50			\vdash
		3.00	3.75	4.50			-
		3.50	4.35	5.25		E	<u> </u>
100 Amp		4.50	5.60	6.75		E	
150 Amp		5.50	6.85	8.25		E	
200 Amp		6.50	8.10	9.75		E	
Explosion Proof 3-Wire Safety Switches 30 Amp		3.50	4.35	5.25		E	-
60 Amp	1	4.00	5.00	6.00		E	
100 Amp	1	5 00	6 25	7 50		F	<u> </u>
150 Amp		6.00	7 50	0.00		E	-
200 Amp		7.00	1.30	9.00		- C	-
	-	7.00	d./5	10.00		E	-
							-

	DESCRIPTION	QUANTITY	PRICE UNIT	NET COST	LABOR	LABOR UNIT	TOTAL MATERIAL	TOTAL HOURS
1/2x 3	SLEEVE ANCHOR W/ HEX NUT - 1 1/2" MIN DEPTH - S/S	25	Е	\$8.12	8.00	С	\$203.00	2.00
	1/2" DRILL & TAP FOR SCREW	14	E	\$0.00	0.00	E	\$0.00	0.00
	TOTALS						<mark>\$203.00</mark>	2.00

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, 4X

Application

- Explosionproof circuit breaker enclosures are used where hazardous materials are handled or stored.
- These units are used for overload and short circuit protection, control of lighting and power circuits.

Features

- Precision machined flame path between box and cover.
- Bolt on stainless steel slotted mounting feet.
 Stainless steel, captive Quad-Lead[®] cover bolts are standard (disengaged in 1-1/2 turns).
- Ground lug package and installation instructions for termination of ground wire enclosed.
- External operating handle with stops for limiting handle travel.
- Breaker operators can be locked in the ON or OFF position (up to 3 padlocks).
- External flange maximizes internal space.
- Standard outlets top and bottom for line and load wiring.
- Plugged 1/2" outlets top and bottom for breather and drain.
- Breakers mounted on a galvanized steel removable pan.
 Enclosures are designed to accept GE⁺, Square D[•], and Cutler-Hammer ⁺ circuit breakers.
- O-ring gasket insures watertight integrity.

Standard Materials

- Bodies and covers: copperfree (4/10 of 1% max.) aluminum
- Cover bolts, hinges, breaker and operator shafts: stainless steel
- Hinges: stainless steel
- O-ring: neoprene

Standard Finishes

Bodies and covers: gray epoxy powder coat inside and outside standard

Options

DISTRIBUTION EQUIPMENT: NEC/CEC EXPLOSIONPROOF CIRCUIT BREAKERS

- Must be listed in alphanumeric sequence at the end of the catalog number.
 - Auxiliary switch (1NC, 1NO), add suffix -AS1.
 - Auxiliary switch (2NC, 2NO), add suffix -AS2.
 - Breather, NEMA 4X (includes outlet and installation), add suffix – BR.
 –
 - Drain, NEMA 4X (includes outlet and installation), add suffix -DN.
 - External grounding stud, add suffix -EGS.
 - Plastic nameplate, 2" x 4", 1/8" black letters on white surface,
 - 3 lines max, specify legend, add suffix -NP. Shunt trip (specify voltage), add suffix -ST.
 - Under voltage release (specify voltage), add suffix UV.
 - For +50 °C (+122 °F) breaker rating, add suffix $-\mathbf{V}$.

NEC/CEC Certifications and Compliances

- C/CEC Cel uncauons and comp
- UL Standard: UL 1203UL Classified: E84577
- UL Classified: E84577
 CSA Standard: C22.2
- CSA Standard: C22.2 No. 0, C22.2 No. 4, C22.2 No. 5, C22.2 No. 25, C22.2 No. 30
- CSA Certified (800A Max): 1324917



- GE is a registered trademark of General Electric Company.
- Square D is a registered trademark of Schneider Electric.
- + Cutler-Hammer is a registered trademark of Eaton Corporation.



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PLETON

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, 4X



① UL Classified. NEC Certification only.

To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found in the modifications table in this section.

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NFWB Jan. 30, 2023 Meeting Agenda Packet - Page 104



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EMERSON

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, 4X

Circuit Breaker Interrupting Ratings (Symmetrical RMS Amps)										
Breaker Type	240 Vac	480 Vac	600 Vac							
Cutler-Hammer	+									
EHD	18,000	14,000	—							
FD	65,000	35,000	18,000							
HFD	100,000	65,000	25,000							
JD	65,000	35,000	18,000							
HJD	100,000	65,000	25,000							
KD	65,000	35,000	25,000							
HKD	100,000	65,000	35,000							
LD	65,000	35,000	22,000							
HLD	100,000	65,000	35,000							
MDL	65,000	50,000	25,000							
HMDL	100,000	65,000	35,000							
ND	65,000	50,000	25,000							
HND	100,000	65,000	35,000							
GE ►										
TED	18,000	18,000	14,000							
THED	65,000	25,000	18,000							
TFK	25,000	22,000	18,000							
THFK	65,000	25,000	18,000							
TJK4	42,000	30,000	22,000							
THJK4	65,000	35,000	25,000							
TJK6	42,000	30,000	22,000							
THJK6	65,000	35,000	25,000							
TKM8	42,000	30,000	22,000							
THKM8	65,000	35,000	25,000							
TKM12	42,000	30,000	22,000							
THKM12	65,000	35,000	25,000							

▶ GE is a registered trademark of General Electric Company.

+ Cutler-Hammer is a registered trademark of Eaton Corporation.



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Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, 4X

Frame Size Interrupting Capacity (3) Voits Rating 2-Pole 3-Pole Outlets (inches) 100 EHD 18,000 AIC (6.240 Vac) 480 Vac) (125/250 Vac) 15 AEAB12216C AEAB12230C AEAB13226C AEAB13230C AEAB13230C 11.1/2 100 EHD 18,000 AIC (6.240 Vac) 480 Vac) (125/250 Vac) 160 AEAB12230C AEAB13230C 11.1/2 100 AEAB12230C AEAB13230C AEAB13230C AEAB13230C 2 100 AEBB12230C AEAB13230C AEAB13230C 2 3 150 FD 65,000 AIC (9 240 Vac) 600 Vac, 125/250 Vac) 125 AECB1221C AECB1321C AECB13230C 2 150 FD 65,000 AIC (9 240 Vac) 600 Vac, 125/250 Vac) 150 AECB1221C AECB1321C AECB13430C 1.1/2 150 AEAB12430C AEAB13430C AEAB13430C 1.1/2 100 EHD 14,000 AIC (9 480 Vac) 480 Vac, 125/250 Vac) 150 AECB1241C AEAB12436C AEAB13430C AEAB13430C 1.1/2 150 FD 35,000 AIC (9 480 Vac) 600 Vac, 125/250 Vac) 125 <td< th=""><th>Breaker</th><th>Breaker Type/</th><th></th><th>Amn</th><th>Catalog Nu</th><th>nbers ② 🔺</th><th>Standard Conduit</th></td<>	Breaker	Breaker Type/		Amn	Catalog Nu	nbers ② 🔺	Standard Conduit
100 EHD 18,000 AIC @ 240 Vac #80 Vac 125/250 Vac 15 26 AEAB12216C AEAB12220C AEAB13220C AEAB13220C AEAB13220C AEAB13230C 1.1/2 100 EHD 18,000 AIC @ 240 Vac #80 Vac 125/250 Vac 135 AEAB12230C AEAB13230C 1.1/2 100 AEAB12230C AEAB13230C AEAB13230C 2.	Frame Size	Interrupting Capacity ①	Volts	Rating	2–Pole	3–Pole	Outlets (Inches)
100 EHD 18.00 AIC 450 Vac. 25 AEAB12220C AEAB13225C AEAB13225C 35 AEAB12230C AEAB13235C AEAB13235C AEAB13235C 1-1/2 35 AEAB12230C AEAB13235C AEAB13235C AEAB13235C AEAB13230C 36 AEAB12230C AEAB13230C AEAB13230C AEAB13230C AEAB13230C 37 AEBB12270C AEAB13230C AEAB13230C AEAB13230C 2 30 AEBB12280C AEBB13280C AEBB13280C 2 3 150 FD 65,000 AIC 600 Vac. 125 AECB12216C AEB13280C 2 -1/2 150 FD 65,000 AIC 600 Vac. 125 AECB12216C AEB13416C 2 -1/2 150 AEB40 Vac 125/250 Vdc 15 AEAB12430C AEAB13430C 1-1/2 150 AEB12430C AEAB12430C AEAB13430C 1-1/2 -1/2 150 AEB12430C AEAB12430C AEAB13430C 1-1/2 150 A				15	AEAB12215C	AEAB13215C	
100 EHD 18,000 AIC @ 240 Vac 480 Vac 125/250 Vdc 25 AEAB12220C AEAB13230C 1-1/2 100 EHD 18,000 AIC @ 240 Vac 125/250 Vdc 1480 Vac 125/250 Vdc 440 Vac 125/250 Vdc 440 Vac 125/250 Vdc 1480 Vac 125/250 Vdc 150 AECB1220C AEBB13200C AEBB1320C AEBB13200C 2 1100 FD 65,000 AIC @ 240 Vac 600 Vac 125/250 Vdc 153 AECB12210C AECB12210C AECB13210C AEBB13200C 2 1/2 1100 EHD 14,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 153 AECB1240C AEAB13430C 2 1 <td></td> <td></td> <td></td> <td>20</td> <td>AEAB12220C</td> <td>AEAB13220C</td> <td></td>				20	AEAB12220C	AEAB13220C	
100 EHD 18,000 AIC 8:240 Vac 480 Vac 125/250 Vac 50 AEAB1223C AEAB1232C AEAB1232C AEAB1232C AEAB1232C AEAB1232C AEAB1232C AEAB1232C AEAB1232C AEAB1241C AEAB1241C AEAB1241C AEAB1241C AEAB1241C AEAB1241C AEAB1241C AEAB1241C AEAB1243C AEAB1243C <td></td> <td></td> <td></td> <td>25</td> <td>AEAB12225C</td> <td>AEAB13225C</td> <td></td>				25	AEAB12225C	AEAB13225C	
100 EHD 18,000 AIC @ 220 Vac 380 Vac 125/250 Vac 35 (125/250 Vac) AEAB1223C 40 AEAB1223C AEAB12250C AEAB13250C 60 AEBB12260C AEAB13250C AEAB13250C AEAB12320C AEAB13250C 70 AEBB12270C AEBB13280C AEBB13280C 2 90 AEBB1220C AEBB13280C 2 90 AEBB1220C AEBB13280C 2 90 AEBB12210C AEBB13280C 2 90 AEBB12210C AEBB13280C 2 150 PD 65,000 AIC 600 Vac, @ 240 Vac 125 AECB12215C AECB13212C 2-1/2 150 AEDB1240C AEBB1320C AEAB1343C 2 AEAB1343C 2-1/2 100 EHD 14,000 AIC 480 Vac, @ 480 Vac 125/250 Vdc 150 AECB12426C AEAB13430C 2 1100 FD 35,000 AIC 600 Vac, @ 480 Vac 125/250 Vdc 125 AEB12420C AEBB13490C 2 1100 AEBB1240C AEBB13490C AEBB13490C 2 2				30	AEAB12230C	AEAB13230C	1-1/2
100 EHD 18,000 AC 2240 Vac 480 Vac (125/250 Vac) 40 AEAB1220C AEAB13240C AEAB13260C 50 AEBB1220C AECB1221CC AECB1221CC AECB1220C AEAB1340C 2 AEAB1240C AEAB1340C 2 AEAB1340C 2 3 AEAB1240C AEAB1340C 2 AEAB1240C				35	AEAB12235C	AEAB13235C	
IND @ 240 Vac 125/250 Vdc 50 AEAB12250C AEAB13250C 60 AEBB1220C AEBB1320C AEBB1320C 2 70 AEBB1220C AEBB1320C 2 90 AEBB1220C AEBB1320C 2 150 FD 65,000 AIC 600 Vac, @ 240 Vac 125/250 Vdc 125 AECB12212C AECB13210C 150 FD 65,000 AIC 600 Vac, @ 240 Vac 125/250 Vdc 125 AECB12213C AECB13215C 2-1/2 150 AEAB12430C AEAB13430C 1-1/2 AEAB13430C 1-1/2 100 EHD 14,000 AIC 480 Vac, @ 480 Vac 125/250 Vdc 10 AEAB12430C AEAB13430C 1-1/2 100 EHD 14,000 AIC 480 Vac, @ 480 Vac 125/250 Vdc 100 AEAB12450C AEAB13430C 1-1/2 1100 FD 35,000 AIC 800 Vac, @ 480 Vac 125/250 Vdc 125 AECB12410C AEBB13400C 2 1150 FD 35,000 AIC 800 Vac, @ 480 Vac 125/250 Vdc 125 AECB1241C <	400	EHD 18,000 AIC	480 Vac.	40	AEAB12240C	AEAB13240C	
100 FD 55,000 AIC @ 240 Vac 600 Vac, 125/250 Vdc 600 Vac, 125/250 Vdc 125 AECB1220C AEBB12210C AEBB1230C AEBB1220C 2.1/2 150 FD 55,000 AIC @ 240 Vac 600 Vac, 125/250 Vdc 125 AECB1221C AECB13215C 2.1/2 150 FD 55,000 AIC @ 240 Vac 600 Vac, 125/250 Vdc 155 AECB12215C AECB13215C 2.1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 15 AEAB12430C AEAB13420C 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12430C AEAB13430C 1-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12430C AEAB13430C 2 1100 EHD 14,000 AIC @ 480 Vac 400 Vac, 125/250 Vdc 125 AECB12410C AEAB13430C 2 1150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13415C 2-1/2 1150 FD 18,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 150 AECB12412C AECB13415C 2-1/2 1150 A	100	@ 240 Vac	125/250 Vdc	50	AEAB12250C	AEAB13250C	
100 FD 65,000 AIC 600 Vac, (@ 240 Vac) 125/250 Vdc) 125 AECB1220C AEBB13230C 2 150 FD 65,000 AIC 600 Vac, (@ 240 Vac) 125/250 Vdc) 125 AECB12215C AECB13215C 2-1/2 150 FD 65,000 AIC 600 Vac, (@ 240 Vac) 125/250 Vdc) 150 AECB12215C AECB13215C 2-1/2 150 AECB12420C AEAB13435C AEAB13435C AEAB13435C 1-1/2 20 AEAB12430C AEAB13435C AEAB13435C 1-1/2 35 AEAB12430C AEAB13430C 1-1/2 35 AEAB12430C AEAB13430C 1-1/2 35 AEAB12430C AEAB13430C 1-1/2 36 AEB12430C AEB13430C 2 36 AEB12430C AEB13430C 2 36 AEB12430C AEB13430C 2 37 AEB12430C AEB13430C 2 38 AEB12430C AEB13430C 2 2 39 AEB12460C AEBB13460C				60	AEBB12260C	AEBB13260C	
80 AEBB1220C AEBB13210C AEBB1320C AEBB13210C 2 150 FD 65,000 AIC @ 240 Vac 600 Vac, 125/250 Vdc 125 AECB12212C AECB13215C 2-1/2 150 FD 65,000 AIC @ 240 Vac 600 Vac, 125/250 Vdc 125 AECB13215C AECB13215C 2-1/2 100 AEAB12420C AEAB13420C AEAB13420C AEAB13430C 1-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12430C AEAB13430C 1-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12430C AEAB13430C 1-1/2 150 FD 35,000 AIC 600 Vac, 125/250 Vdc 125 AECB1249C AEBB13490C 2 150 FD 35,000 AIC 600 Vac, 125/250 Vdc 125 AECB12415C AECB13415C 2-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 15 AEAB12450C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 15 AECB13620C AEAB13630C 1-1/2 150				70	AEBB12270C	AEBB13270C	
90 AEBB12200C AEBB12210C AEBB13290C AEBB13210C 150 FD 65,000 AIC @ 240 Vac 600 Vac, 125/250 Vcc 125 AECB13215C AECB13215C 2-1/2 150 FD 65,000 AIC @ 240 Vac 600 Vac, 125/250 Vcc 155 AECB12215C AECB13215C 2 2-1/2 100 AEAB12425C AEAB13415C AEAB13426C 3 AEAB12425C AEAB13430C 1-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vcc 125/250 Vcc 480 Vac, 125/250 Vcc 480 Vac, 125/250 Vcc 480 Vac, 125/250 Vcc 480 Vac, 125/250 Vcc 125/250 Vcc 480 Vac, 125/250 Vcc 125/250 Vcc 125/250 Vcc 480 Vac, 125/250 Vcc 480 Vac, 125/250 Vcc 125/250 Vcc 125/250 Vcc 480 Vac, 125/250 Vcc 125/250 Vcc 125/250 Vcc				80	AEBB12280C	AEBB13280C	2
100 AEBB12210C AEBB13210C 150 FD 65.000 AIC 600 Vac, 125/250 Vdc 125 AECB13212C AECB13212C 2-1/2 150 P240 Vac 125/250 Vdc 150 AECB12215C AECB13212C 2-1/2 150 PED 14,000 AIC @ 480 Vac A80 Vac, 125/250 Vdc 150 AEAB12415C AEAB13430C 1-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12430C AEAB13430C 1-1/2 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 40 AEAB12450C AEAB13450C 2 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AEBB13490C 2 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13415C 2 1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 155 AECB12415C AECB13415C 2 1/2 150 AEDB12620C AEAB12630C AEAB13630C 1-1/2 35 AEAB12625C				90	AEBB12290C	AEBB13290C	
150 FD 65,000 AIC @ 240 Vac 600 Vac, 125/250 Vdc 125 150 AECB12212C AECB13215C AECB13212C AECB13215C 2-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 15 AEAB12420C AEAB13430C 1-1/2 30 AEAB12430C AEAB13430C 1-1/2 35 AEAB13430C 1-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12430C AEAB13430C 1-1/2 30 AEAB12430C AEAB13430C 1-1/2 AEAB12430C AEAB13430C 1-1/2 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12430C AEAB13430C 1-1/2 100 AEB12470C AEBB13460C AEAB13450C 2 40 AEAB12430C AEBB13490C 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 FD 18,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12612C AECB13412C 2-1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250				100	AEBB12210C	AEBB13210C	
150 @ 240 Vac 125/250 Vdc 150 AECB12215C AECB13215C 2-1/2 15 AEAB12415C AEAB13415C AEAB13415C AEAB13420C AEAB13420C 100 EHD 14,000 AIC 480 Vac, @ 480 Vac 480 Vac, 125/250 Vdc 35 AEAB12426C AEAB13430C 1-1/2 35 AEAB12430C AEAB13430C 1-1/2 35 AEAB13436C 1-1/2 36 AEAB12430C AEAB13430C 1-1/2 35 AEAB12430C AEAB13440C 36 AEAB12430C AEAB13430C 1-1/2 35 AEAB12430C AEAB13440C 36 AEAB12430C AEAB13430C 1-1/2 35 AEAB12430C AEAB13430C 1-1/2 37 AEB1240C AEB1340C AEAB1340C AEAB1340C 2 36 AEAB12430C AEAB13430C 2 2 36 AEB1240C AEB1340C AEB1340C AEB13430C 2 2 2 2 10 AEAB12420C AEB13430C 2 2 12 <		ED 65.000 AIC	600 Vac.	125	AECB12212C	AECB13212C	
100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 15 AEAB12430C AEAB13420C 30 AEAB12430C AEAB13420C AEAB13420C AEAB13420C 30 AEAB12430C AEAB13430C 1-1/2 35 AEAB12430C AEAB13430C 1-1/2 36 AEAB12430C AEAB13430C 1-1/2 36 AEAB12450C AEAB13430C 1-1/2 36 AEAB12450C AEAB13430C 1-1/2 37 MEAB12450C AEAB13430C 1-1/2 36 AEAB12450C AEAB13450C 1-1/2 37 MEAB12450C AEAB13450C 1-1/2 38 AEAB12450C AEAB13450C 2 40 AEAB12450C AEAB13450C 2 40 AEB12460C AEBB13440C AEAB13430C 2 40 AEB12460C AEBB13440C AEAB13430C 2 15 AECB12410C AECB13415C 2 -1/2 15 AECB12415C AECB13630C 1	150	@ 240 Vac	125/250 Vdc	150	AECB12215C	AECB13215C	2-1/2
100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vcd 20 AEAB12420C AEAB13430C AEAB13420C AEAB13435C 100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vcd 35 AEAB12430C AEAB13430C 1-1/2 50 AEAB12430C AEAB13430C AEAB13440C AEAB13440C AEAB13440C 60 AEEB12460C AEBB13460C AEAB13450C AEAB13450C AEAB13450C 70 AEBB12470C AEBB13460C 2 AEAB13430C 2 90 AEBB12490C AEBB13480C 2 2 90 AEBB12490C AEBB13490C 2 150 FD 35,000 AIC 600 Vac, 125/250 Vcd 125 AECB12415C AECB13415C 150 AE0 Vac 125/250 Vcd 155 AECB12415C AEAB13630C 1-1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vcd 155 AEAB12620C AEAB13630C 1-1/2 150 AEAB12630C AEAB13630C 1-1/2 35 AEAB12630C AEAB13630C 150 AEAB1				15	AEAB12415C	AEAB13415C	
100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 25 AEAB12430C AEAB13430C 1-1/2 35 AEAB12435C AEAB13430C AEAB13430C 1-1/2 40 AEAB12435C AEAB13430C AEAB13430C 1-1/2 40 AEAB12435C AEAB13440C AEAB13430C 1-1/2 40 AEAB12440C AEAB13440C AEAB13450C 1-1/2 60 AEBB1240C AEAB13440C AEAB13450C 2 70 AEBB1240C AEBB13400C 2 2 90 AEBB12490C AEBB13490C 2 2 150 FD 35,000 AIC 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 AEAB12620C AEAB13630C 1-1/2 35 AEAB12635C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, @ 600 Vac 600 Vac, 125/250 Vdc 15 AEAB12635C AEAB13630C 1-1/2 35 AEAB12635C AEAB13630C AEAB13630C 1-1/2 35				20	AEAB12420C	AEAB13420C	
100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 30 480 Vac, 125/250 Vdc 36 40 40 480 AEAB12430C AEAB13430C AEAB13430C 1-1/2 35 AEAB12430C 60 AEBB1240C AEAB13430C 2 70 AEAB1240C AEAB13450C 2 90 AEBB1240C AEBB13460C 2 90 AEBB1240C AEBB13460C 2 90 AEBB1240C AEBB13460C 2 90 AEBB1240C AEBB13460C 2 150 FD 35,000 AIC 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 FD 35,000 AIC 600 Vac, 125/250 Vdc 150 AECB12415C AECB13415C 2-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 155 AECB12415C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 150 AEAB12650C AEAB13630C 1-1/2 150 AEAB12650C AEAB13650C AEAB13650C 2-1/2 150 AEAB12650C AEAB13650C 4EB1366				25	AEAB12425C	AEAB13425C	
100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 35 40 40 AEAB12435C AEAB12450C AEAB13435C AEAB13450C 60 AEBB12460C AEBB13460C AEAB13450C 70 AEBB12460C AEBB13460C 2 80 AEBB12460C AEBB13460C 2 90 AEBB12400C AEBB13490C 2 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12415C AECB13415C 2-1/2 150 FD 18,000 AIC @ 600 Vac, @ 600 Vac 600 Vac, 125/250 Vdc 155 AEAB12630C AEAB13630C 1-1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 155 AEAB12630C AEAB13630C 1-1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 125 AEAB12630C AEAB13630C 1-1/2 150 AEAB12630C AEAB13630C 1-1/2 35 AEAB12630C AEAB13660C 150 AEB12630C <td></td> <td></td> <td></td> <td>30</td> <td>AEAB12430C</td> <td>AEAB13430C</td> <td>1-1/2</td>				30	AEAB12430C	AEAB13430C	1-1/2
100 EHD 14,000 AIC @ 480 Vac 480 Vac, 125/250 Vdc 40 AEAB12440C AEAB13440C 50 AEAB12450C AEAB13450C AEAB13450C AEAB13450C 60 AEBB12460C AEBB13460C AEBB13460C AEBB13470C 70 AEBB12470C AEBB13470C AEBB13490C 2 80 AEBB12480C AEBB13480C 2 90 AEBB12490C AEBB13490C 2 150 FD 35,000 AIC 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 FD 38,000 AIC 600 Vac, 125/250 Vdc 155 AECB12415C AECB13415C 2-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 15 AEAB12630C AEAB13650C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 15 AEAB12630C AEAB13650C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 15 AEAB12630C AEAB13650C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 15 AEA		EHD 14,000 AIC @ 480 Vac	480 Vac.	35	AEAB12435C	AEAB13435C	
100 In above and the second seco				40	AEAB12440C	AEAB13440C	
150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AEBB12480C AEBB13480C AEBB13480C AEBB13490C 2 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C AECB13412C AECB13412C 2-1/2 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C AECB13415C 2-1/2 150 AEAB12615C AEAB13615C 2 2 2 2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 15 AEAB12615C AEAB13650C 1-1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 600 Vac, 125/250 Vdc 600 Vac, 40 AEAB12630C AEAB13650C 1-1/2 150 AED12630C AEAB13650C AEAB13650C 2 40 AEAB12650C AEAB13660C 2 150 AEB12650C AEAB13660C AEAB13660C 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	100		125/250 Vdc	50	AEAB12450C	AEAB13450C	
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90 AEBB12490C AEBB13490C 100 AEBB12410C AEBB13410C 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 AE0 Vac 125/250 Vdc 150 AECB12415C AECB13415C 2-1/2 150 AE0 AEB1260C AEAB13615C AEAB13620C 2 150 AEAB1262C AEAB13630C 1-1/2 35 AEAB12630C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 600 Vac, 125/250 Vdc 50 AEAB12630C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 60 AEB12630C AEAB13630C 1-1/2 150 AEAB12660C AEB13660C AEB13660C AEB13660C 2 150 AEB12660C AEB13660C AEB13660C 2 100 AEB12660C AEB13660C 2 2 100 AEB12610C AEB13610C 2 125 AECB12612C <td></td> <td>80</td> <td>AEBB12480C</td> <td>AEBB13480C</td> <td>2</td>				80	AEBB12480C	AEBB13480C	2
100 AEBB12410C AEBB13410C 150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 AECB12415C AECB13415C 2-1/2 2 150 AEAB12615C AEAB13615C 2 2 150 AEAB12625C AEAB13620C 2 2 150 AEAB12625C AEAB13620C 2 30 AEAB12630C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, @ 600 Vac 600 Vac, 125/250 Vdc 50 AEAB12630C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 50 AEAB12630C AEAB13650C 1-1/2 150 AE00 Vac 125/250 Vdc 60 AEB12660C AEAB13660C 2 160 AEB12630C AEB13660C 2 90 AEB12680C AEB13660C 2 150 AEB12680C AEB13680C 2 90 AEB12680C AEB13680C 2 160 AEB12610C				90	AEBB12490C	AEBB13490C	
150 FD 35,000 AIC @ 480 Vac 600 Vac, 125/250 Vdc 125 AECB12412C AECB13412C 2-1/2 150 AE0012415C AECB13415C AECB13415C 2-1/2 2-1/2 2-1/2 150 AECB12415C AECB13415C AECB13415C 2-1/2 2-1/2 2-1/2 150 AECB12615C AEAB13615C AEAB13620C AEAB13620C 2 2 150 AEAB12625C AEAB13625C AEAB13630C 1-1/2 35 AEAB12630C AEAB13630C 1-1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 600 Vac, 125/250 Vdc 50 AEAB12630C AEAB13630C 1-1/2 150 AE00 Vac 125/250 Vdc 600 Vac, 125/250 Vdc 50 AEAB12650C AEAB13650C 2 160 AEB12660C AEB13660C AEB13660C 2				100	AEBB12410C	AEBB13410C	
150 125/250 Vdc 150 AECB12415C AECB13415C 2-1/2 150 #80 Vac 125/250 Vdc 150 AECB12415C AECB13415C 2-1/2 150 #80 Vac 125/250 Vdc 150 AECB12415C AECB13415C 2-1/2 150 #AED1263C AEAB13620C AEAB13620C AEAB13620C 25 AEAB12625C AEAB13630C 1-1/2 150 FD 18,000 AIC 600 Vac, @ 600 Vac 600 Vac, 125/250 Vdc 600 Vac, 125/250 Vdc 50 AEAB12630C AEAB13650C 1-1/2 35 AEAB12640C AEAB13650C AEAB13650C 1-1/2 35 AEAB12650C AEAB13650C 1-1/2 150 FD 18,000 AIC 600 Vac, 125/250 Vdc 600 AEB12650C AEAB13650C 2 36 AEB12650C AEAB13650C 1-1/2 150 AEB12650C AEB13660C AEB13660C 2 36 AEB12660C AEB13660C 2 2 100 AEB12690C AEB13690C AEB13690C 2 30 AEB12610C </td <td></td> <td>ED 35 000 AIC</td> <td>600 Vac</td> <td>125</td> <td>AECB12412C</td> <td>AECB13412C</td> <td></td>		ED 35 000 AIC	600 Vac	125	AECB12412C	AECB13412C	
150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 15 AEAB12630C AEAB13630C 1-1/2 50 AEAB12630C AEAB13635C AEAB13635C AEAB13635C 1-1/2 150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 600 Vac, 125/250 Vdc 600 Vac, 125/250 Vdc 1-1/2 35 AEAB12630C AEAB13630C 1-1/2 150 AEAB12650C AEAB13630C 1-1/2 35 AEAB12640C AEAB13630C 1-1/2 150 AEAB12650C AEAB13630C 1-1/2 35 AEAB12650C AEAB13650C 1-1/2 150 AEAB12650C AEAB13650C AEAB13650C 2 30 AEAB12660C AEAB13660C 2 35 AEAB12660C AEBB13660C 2 30 AEBB12660C AEBB13660C 2	150	@ 480 Vac	125/250 Vdc	150	AECB12415C	AECB13415C	2-1/2
150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 20 AEAB12620C AEAB13620C 1-1/2 35 AEAB12635C AEAB13635C 40 AEAB12640C AEAB13640C 50 AEAB12650C AEAB13650C AEAB13650C 1-1/2 600 Vac, @ 600 Vac 125/250 Vdc 50 AEAB12660C AEAB13650C 70 AEBB12660C AEBB13660C 70 AEBB12670C AEBB13660C 90 AEBB12690C AEBB13660C 2 2 90 AEBB12690C AEBB13660C 2 100 AEBB12610C AEBB13610C 125 AECB12612C AECB13612C 2-1/2				15	AEAB12615C	AEAB13615C	
150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 25 AEAB12630C AEAB13630C 1-1/2 35 AEAB12640C AEAB13635C 40 AEAB12650C AEAB13650C				20	AEAB12620C	AEAB13620C	
150 FD 18,000 AIC @ 600 Vac 600 Vac, 125/250 Vdc 30 AEAB12630C AEAB13633C 1-1/2 35 AEAB12640C AEAB13635C AEAB13635C 40 AEAB12650C AEAB13650C 40 150 AEAB12650C AEAB13650C AEAB13650C 40 AEAB12650C AEAB13650C 40 150 AEAB12650C AEAB13650C AEAB13650C 2 60 AEBB12660C AEBB13660C 40 <td></td> <td></td> <td></td> <td>25</td> <td>AEAB12625C</td> <td>AEAB13625C</td> <td></td>				25	AEAB12625C	AEAB13625C	
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125 AECB12612C AECB13612C 150 AECB12615C AECB13615C 2-1/2				100	AEBB12610C	AEBB13610C	
150 AECB12615C AECB13615C 2-1/2				125	AECB12612C	AECB13612C	
				150	AECB12615C	AECB13615C	2-1/2

① For higher interrupting capacities, contact your local representative.

© Cutler-Hammer breaker provided as standard. For GE breaker change C to G; For Square D breaker change C to S.

▲ To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found under Options.

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Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, 4X

Breaker	Breaker Type/		Amn	Catalog Num	bers ③ 🔺	Standard Conduit	
Frame Size	Interrupting Capacity ②	Volts	Rating	2–Pole	3–Pole	Outlets (Inches)	
			70	AEEB22670C	AEEB23670C		
			90	AEEB22690C	AEEB23690C		
	JD 18,000 AIC		100	AEEB22610C	AEEB23610C		
050	@ 600 Vac	600 Vac,	125	AEEB22612C	AEEB23612C	3	
250	JD 35.000 AIC	125/250 Vdc	175	AEEB22617C	AEEB23617C		
	@ 480 Vac		200	AEEB22620C	AEEB23620C		
			225	AEEB22622C	AEEB23622C		
			250	AEFB22625C	AEFB23625C	3	
			125	AEFB42612C	AEFB43612C		
			175	AEFB42617C	AEFB43617C		
	KD 25,000 AIC		200	AEFB42620C	AEFB43620C		
400	@ 600 Vac	600 Vac,	225	AEFB42622C	AEFB43622C	0	
400	KD 35,000 AIC @ 480 Vac	125/250 Vdc	250	AEFB42625C	AEFB43625C	3	
			300	AEFB42630C	AEFB43630C		
			350	AEFB42635C	AEFB43635C		
			400	AEFB42640C	AEFB43640C		
	LD 25,000 AIC @ 600 Vac		450	AEDB62645C	AEDB63645C		
600	L D 35 000 AIC	600 Vac, 125/250 Vdc	500	AEDB62650C	AEDB63650C	4	
	@ 480 Vac		600	AEDB62660C	AEDB63660C		
			300	AELB82630C	AELB83630C		
			350	AELB82635C	AELB83635C		
	MDL 25,000 AIC		400	AELB82640C	AELB83640C		
800	@ 600 Vac	600 Vac,	450	AELB82645C	AELB83645C	(2) 4	
800	MDL 50,000 AIC	125/250 Vdc	500	AELB82650C	AELB83650C	(2) 4	
	@ 480 Vac		600	AELB82660C	AELB83660C		
			700	AELB82670C	AELB83670C		
			800	AELB82680C	AELB83680C		
	MDL 25,000 AIC		600	AEGB122660C ①	AEGB123660C ①		
1200	@ 600 Vac	600 Vac,	800	AEGB122680C ①	AEGB123680C 1	(0) 4	
1200	MDL 50,000 AIC	125/250 Vdc	1000	AEGB122610C 1	GB122610C ① AEGB123610C ①		
	@ 480 Vac		1200	AEGB122612C ①	AEGB123612C ①	D	

1) UL Classified. NEC Certification only.

© For higher interrupting capacities, contact your local representative.

3 Cutler-Hammer breaker provided as standard. For GE breaker change C to G; For Square D breaker change C to S.

▲ To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found under Options.

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AE Bolted Circuit Breaker Enclosure

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, 4X

Dimensions in Millimeters (Inches)

Diagram 1-Enclosure Layout for 50 - 250 Amp (Sizes: A - B - C - E)



Diagram 2-Enclosure Layout for 400 - 600 Amp (Sizes: F - D)



Enclosure Only

					Dimen	sions in Mi	llimeters	(Inches)			Outlet	Number	Dimension	Annroximate
Enclosure	Catalog	Dia.	Mou	nting		Inside			Outside		Size	of	mm (in)	Weight
Size	Number	Number	Α	В	C	D	E	F	G	H	(in)	Outlets	K	kgs (lbs)
А	AEAB	1	139.7 (5.50)	333.5 (13.13)	155.7 (6.13)	273.0 (10.75)	133.3 (5.25)	266.7 (10.5)	384.3 (15.3)	165.1 (6.5)	1-1/2	2	50.8 (2.00)	17.24 (38)
В	AEBB	1	152.4 (6.00)	457.2 (18.00)	165.1 (6.50)	406.4 (16.00)	139.7 (5.50)	279.4 (11.00)	502.7 (20.5)	168.4 (6.63)	2	2	58.6 (2.31)	25.85 (57)
С	AECB	1	260.3 (10.25)	574.8 (22.63)	289.0 (11.38)	508.0 (20.00)	162.0 (6.38)	408.94 (16.1)	622.3 (24.5)	206.5 (8.13)	2-1/2	2	88.9 (3.50)	47.17 (104)
E	AEEB	1	215.9 (8.50)	689.1 (27.13)	285.7 (11.25)	758.9 (29.88)	183.8 (7.63)	400.05 (15.75)	746.25 (29.38)	239.77 (9.44)	3	2	101.6 (4.00)	65.77 (145)
F	AEFB	2	241.3 (9.50)	692.1 (27.25)	285.7 (11.25)	758.9 (29.88)	204.7 (8.06)	416.05 (16.381)	889.0 (35.00)	257.3 (10.13)	3	4	106.4 (4.19)	77.11 (170)
D	AEDB	2	409.7 (16.13)	1035.0 (40.75)	457.2 (18.00)	1079.5 (42.50)	193.8 (7.63)	457.2 (18.00)	520.7 (42.5)	250.95 (9.88)	4	4	109.4 (4.31)	103.42 (228)

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AE Bolted Circuit Breaker Enclosure

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class IÍI NEMA 4, 4X

Dimensions in Millimeters (Inches)

Diagram 3-Enclosure Layout for 800 Amp (Size: L)



Diagram 4-Enclosure Layout for 1200 Amp (Size: G)



Enclosure Only

DISTRIBUTION EQUIPMENT: NEC/CEC EXPLOSIONPROOF CIRCUIT BREAKERS

PLETON

Enclosure	Dimensions in Millimeters (Inches) sure Catalog Dia. Mounting Inside Outside									Outlet Size	Number of	Dimension mm (in)	Approximate Weight	
Size	Number	Number	Α	В	C	D	E	F	G	Н	(in)	Outlets	ĸ	kgs (lbs)
L	AELB	3	406.4 (16.00)	1152.6 (45.38)	473.2 (18.63)	1073.1 (42.25)	215.9 (8.50)	606.55 (23.88)	1216.15 (47.88)	287.27 (11.31)	4	4	127.0 (5.00)	190.06 (419)
G①	AEGB	4	543.1 (21.38)	1270.0 (50.00)	508.0 (20.00)	1524.0 (60.00)	254.0 (10.00)	635.0 (25.00)	1651 (65.00)	317.5 (12.5)	4	6	111.2 (4.38)	257.19 (567)

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Change Order

PROJECT (Name and address):	CHANGE ORDER NUMBER: #1	OWNER: 🛛
NFWTP Project 7	DATE: 11/08/2022	ARCHITECT:
1201 Buffalo Ave		CONTRACTOR: 🛛
Niagara Falls, NY 14303		FIELD:
TO CONTRACTOR (Name and address):	ARCHITECT'S PROJECT NUMBER: 181205.02	OTHER: \Box
John W. Danforth Company.	CONTRACT DATE: 6/30/2021	
300 Colvin Woods Parkway	CONTRACT FOR: John W. Danforth Company	
Tonawanda, NY 14150		

THE CONTRACT IS CHANGED AS FOLLOWS:

(Include, where applicable, any undisputed amount attributable to previously executed Construction Change Directives) Performance/Payment Bond

The original Contract Sum was

	5	782,000.00
The net change by previously authorized Change Orders	\$	0.00
The Contract Sum prior to this Change Order was	s	782,000.00
The Contract Sum will be increased by this Change Order in the amount of	\$	2,282.00
The new Contract Sum including this Change Order will be	\$	784,282.00

The Contract Time will be extended by Zero (0) days.

The date of Substantial Completion as of the date of this Change Order therefore is 12/31/2022.

NOTE: This Change order does not include changes in the Contract Sum, Contract Time or Guaranteed Maximum Price which have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

El Team, Inc.	John W. Danforth Company	NFWB
ARCHITECT (Firm name) 2060 Sheridan Drive, Buffalo, NY 14223	CONTRACTOR (Firm name) 300 Colvin Woods Parkway, Tonawanda, NY 14150	OWNER (Firm name) 5815 Buffalo Avenue, Niagara Falls, NY 14304
ADDRESS Benin I Shattouski	ADDRESS	ADDRESS
BY (Signature) Ronald J. Szatkowski, PE	BY (Signature)	BY (Signature)
(Typed name) 11/8/2022	(Typed name)	(Typed name)
DATE	DATE	DATE



John W. Danforth Company • 100% Employee Owned 10/4/2022

EI Team, Inc 2060 Sheridan Dr Buffalo, NY 14223

Attention Ron Szatkowski, PE

Regarding: Belt Guards for E-1, E-2, E-3

Ron Provide and install belt guard from Manufacturer It breaks down as follows:

Labor:	8 hours @ \$88.00	\$704.00
Materials: Belt Guard		\$1,280.00

Subtotal	\$1,984.00
Mark up 15%	\$298.00

Total \$2,282.00

Thank you for the opportunity to quote on this work.

Regards

Chris Roland

Delivering industry leading experiences to our customers every day. www.jwdanforth.com | 1 (844) JWD - 1884

Edward H. Cox Co., Inc.

.....

£

QUOTATION

Heating * Ventilating * Air Conditioning Equipment

Hamburg, New York 14075 Telephone: (716) 648-6321

Date: October 3, 2022

Project: Niagara Falls Water Board Project 7

FOB: Factory - Frt. Allowed Terms: Net 30 Days Taxes: Not Included Prices subject to change after 30 days

We are pleased to offer the following equipment:

5841 Shamrock Court

Fax: (716) 648-2812

J W Danforth

E-mail: <u>bcox@coxhvac.com</u>

3 – Belt guard for fan E-1, E-2 & E-3.

Total \$1,280.00

Lead Time: 1-2 weeks

Bill Cox

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NIAGARA FALLS WATER BOARD RESOLUTION # 2023-01-008

AWARD BID FOR ONE TON CHLORINE CYLINDERS

WHEREAS, with the assistance of the City of Niagara Falls Purchasing Department, the Niagara Falls Water Board initially solicited sealed competitive bids for one-ton cylinders of gaseous chlorine via Bid No. W2022-02, but no bids for that item were received; and

WHEREAS, the one-ton chlorine cylinders were the subject of a rebid under Bid No. W2022-06; and

WHEREAS, once again no bids were received on the scheduled day for bid opening, but upon canvass of the potential bidders identified by Water Board staff, only JCI Jones Chemicals, Inc., was identified as willing to supply the chlorine cylinders, and that firm was requested to submit a bid which now has been received by the Water Board; and

WHEREAS, no other firm has expressed interest or the ability to supply one-ton chlorine cylinders, this chemical is vital to the operation of the water treatment plant, and the prior bid to supply chlorine cylinders expired on December 31, 2022 so it is essential to obtain a new supplier; and

WHEREAS, the bid specifications for Bid No. W2022-06 provide that the Water Board shall have the right to waive any technical defect, qualification, omission, informality, or irregularity in any bid received; and

WHEREAS, under the circumstances this procurement may be regarded as an emergency procurement required to protect human life, health, and safety; and

WHEREAS, JCI Jones Chemicals, Inc., has submitted a bid dated January 18, 2023 at a unit price of \$2,850 per one-ton chlorine cylinder and with several exceptions, including that the bid is firm only until June 30, 2023 and then is subject to change on 30-days' notice, that minimum delivery quantity is nine tons, and that there will be a fuel surcharge on deliveries to be based upon the weekly regional diesel average; and

WHEREAS, notwithstanding these bid exceptions, it is believed to be in the best interests of the Water Board and those it serves to accept the bid received from JCI Jones Chemicals, Inc.;

NOW THEREFORE BE IT

RESOLVED, the Niagara Falls Water Board hereby accepts the bid dated January 18, 2023 from JCI Jones Chemicals, Inc., and awards the bid for the supply of one-ton chlorine cylinders for the Water Treatment Plant to that firm.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director

Water Board Budget Line or Capital Plan Item with Funds for this Resolution:Budget Line:FA.8330.0100.0419.009-Misc. ChemicalsBudget Line Supplied by:B. MajchrowiczBudget Line Confirmed by:B. Majchrowicz

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Y	es	Ν	0	Abstain		Abs	Absent	
Board Member Asklar	[]	[]	[]	[]	
Board Member Kimble	[]	[]	[]	[]	
Board Member Larkin	[]	[]	[]	[]	
Board Member Leffler	[]	[]	[]	[]	
Chairman Forster	[]	[]	[]	[]	

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board

NFWB BID #W2022 06

Page 6 of 6

PRICE SHEET

ITEM NO.	QUANTITY	SIZE / UNIT	ITEM NAME	UNIT PRICE
学に新生				
1	80	ONE TON CYLINDERS	CHLORINE	\$2,850.00*
<u></u>				

VENDOR: JCI Jones Chemicals, Inc.	
CONTACT NAME (Please Print):	
CONTACT TELEPHONE #: 585-538-2314	
CONTACT EMAIL ADDRESS: caledonia@jcichem.com	

*Price is subject to change after 6/30/23 upon 30 days written notice. Any such changes will not be based on index. Price is Plus Fuel Surcharge. Minimum delivery 9 tons. Deliveries will be made within 5 Business Days ARO.



BID EXCEPTIONS

1. Specifications #3

JCI's pricing is subject to change after 6/30/23. Thirty days written notice will be provided. Changes will not be based on index.

2. Specifications #5

Deliveries will be made within 5 business days after receipt of order.

3. Specifications #13 Additional Delivery Requirements

The chlorine/caustic soda raw material Producers have declared Force Majeure a combined eleven times since 2021. Chlorine supply remains on strict allocation. In September 2022, all raw material shipments in the nation were halted for a week, and were behind schedule for several more, due to the threat of a rail strike.

JCI has no control over raw material supply or its transportation, and we must ensure that we are not penalized should we be rendered unable to deliver by any disrupting event beyond our control.

Therefore, JCI must respectfully insist on including the following Force Majeure clause, <u>or one of</u> <u>your choosing that is approved by JCI</u>, as a term of our bid and any related contract that may be issued.

FORCE MAJEURE: JCI Jones Chemicals shall not be responsible for damages or delays caused by Force Majeure nor other events beyond its control and which could not reasonably have been anticipated or prevented. For purposes of this Agreement, Force Majeure includes, but is not limited to, adverse weather conditions, floods, epidemics, war, riot, strikes, lockouts, and other industrial disturbances; unknown site conditions, accidents, sabotage, fire, and acts of God.

Please note that Force Majeure is of no relation to pricing- it is <u>supply</u> related only. JCI's pricing and price terms will always remain as-bid regardless of Force Majeure status.

Corporate Offices • 1765 Ringling Blvd. • Sarasota, Florida 34236 • telephone: 941.330.1537 • facsimile: 941.330.9657 • 800.477.1078 Branch Locations • Warwick, NY • Caledonia, NY • Barberton, OH • Riverview, MI • Merrimack, NH • Charlotte, NC Jacksonville, FL • Beech Grove, IN • Milford, VA • Tacoma, WA • Torrance, CA www.jcichemicals.com



4. Appendix A- Section M – Records

JCI will follow our internal policies & procedures regarding retention, disclosure, and non-disclosure of documents, many of which are classified as privileged, confidential, and/or are prohibited from public disclosure by order of the US DHS or other regulatory agencies.

5. Appendix A- Section EE – Payment

JCI's payment terms are Net 30 days.

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NIAGARA FALLS WATER BOARD RESOLUTION # 2023-01-009

ACCEPTING PROPOSAL FOR WTP FLUORIDE SYSTEM ASSESSMENT

WHEREAS, the Niagara Falls Water Board ("NFWB") issued request for proposals ("RFP") No. 2023-01, Water Treatment Plant Fluoride System Assessment, seeking a qualified engineering consultant to develop a report assessing the fluoride system at the water treatment plant, which is functional but original to the plant and lacks automated controls; and

WHEREAS, six engineering firms attended a pre-proposal meeting, but only one proposal was received, a January 25, 2023 proposal from C&S Engineers, Inc., for a total fee not to exceed \$60,200; and

WHEREAS, the Water Board has been awarded a \$25,000 grant from the NYS Department of Health Drinking Water Fluoridation Funding round, Component 1, under assigned project No. T37250GG, which will be used to offset part of the cost of this project;

* CONTINUED ON NEXT PAGE *

NOW THEREFORE BE IT

RESOLVED, that the Niagara Falls Water Board hereby accepts the proposal by C&S Engineers, Inc., to complete the Water Treatment Plant Fluoride System Assessment for a total fee not to exceed \$60,200.

Water Board Personnel Responsible for Implementation of this Resolution: Executive Director

Water Board Budget Line or Capital Plan Item with Funds for this Resolution:CIP Item No. WTP 6.4 – Fluoride System ImprovementsCapital Line Supplied by:D. WilliamsonAvailable Funds Confirmed by:B. Majchrowicz

On January 30, 2023, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

	Y	es	N	0	Abstain		Absent	
Board Member Asklar	[]	[]	[]	[]
Board Member Kimble	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Chairman Forster	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Nicholas J. Forster, Chairman

Sean W. Costello, Secretary to Board