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**Regular Session of the
Niagara Falls Water Board
February 24, 2020 5:00 PM at
Michael C. O’Laughlin Municipal Water Plant**

1. Attendance and Preliminary Matters

- a. Brown ___ Forster ___ Larkin ___ Leffler ___ Kimble ___
- b. Letters and Communications
 - i. EFC Letter – Hardship Financing Eligibility (CWSRF)
- c. Public Comment (All speakers must register with the Chairperson prior to roll call and are limited to three minutes per person – total time for all speakers may not exceed one hour)
- d. Approval of Minutes from January 27, 2020

2. Executive Director

- a. Correspondence from DEC – WWTP Oxidizer Study
- b. CPL – WWTP Capital Project Update
- c. CPL – WWTP Estimated Construction Schedule

3. Superintendent

- a. Fire Hydrant Update

4. Engineering

- a. Status of Draft Capital Improvement Plan

5. Personnel Items/Director of Administrative Services

- a. February 2020 Personnel Actions and Reports**
- b. Updated Organizational Chart**

6. Information Technology (IT) Dept.

7. Financial Reports – Director of Financial Services

- a. Budget to Actual**
 - a. Revenues**
 - b. Expenses**
- b. January 2020 Accounts Payable- Payment Listing**
- c. Payroll-Based Overtime Log**
- d. Overview of Topics (to be handed out at meeting)**
- e. 2020 Rate Consultant/Consulting Engineer**

8. Reports

- a. Questions Regarding O&M Report for January 2020 (if any)**
- b. Safety**

9. General Counsel and Secretary

- a. Water and Sewer Service Line Program – Plan to Address Mailing List Issues**
- b. Cyber Liability Insurance**
- c. Workplace Violence Liability Insurance**

10. From the Chairperson

11. Resolutions

2020-02-001 - SEQR Review and Classification for Outfall 003 Redirection

- a. Letter Detailing Outfall 003 Project**
- b. DEC Letter Approving Outfall 003 Redirection**

2020-02-002 - Award of the High Voltage, Switchgear Inspection and Emergency Work Contract

- a. Award Recommendation**
- b. Bid Tabulation**

2020-02-003 - Award of the In-Plant Mechanical Service Contract

- a. Award Recommendation**
- b. Bid Tabulation**

2020-02-004 - Board's Representative on Ad-Hoc Committee to Study Fire Hydrant Replacement

2020-02-005 – Rejecting All Bids for the HVAC Service Contract

12. Unfinished Business

13. New Business & Additional Items for Discussion

- a. Information Requested about Compensatory Time Off**
- b. Information Requested about Health Insurance Opt Out, Etc.**

14. Executive Session (if needed)

15. Adjournment of Meeting



Environmental Facilities Corporation

ANDREW M. CUOMO
Governor

February 11, 2020

The Honorable Renae Kimble
Chairman
Niagara Falls Public Water Authority
5815 Buffalo Avenue
Niagara Falls, NY 14304

Re: CWSRF Project No. C9-6603-12-00
Niagara Falls Public Water Authority
Niagara County
Hardship Eligibility

Dear Chairman Kimble:

I am pleased to inform you that the Niagara Falls Public Water Authority is eligible for Clean Water State Revolving Fund (CWSRF) interest-free financing for a term of up to 30 years for all or a portion of the proposed Clean Water project referenced above. This hardship determination is based on your Median Household Income (MHI) and population, as detailed in the CWSRF Hardship Financing and Grant Eligibility Policy (Hardship Policy) effective October 2019.

Please note the following with regard to this hardship eligibility determination:

- The Niagara Falls Public Water Authority's eligibility remains in effect through *December 2, 2022*, by which time a Project Finance Agreement for CWSRF financing must be executed with the New York State Environmental Facilities Corporation (EFC).
- Pursuant to the Hardship Policy, municipalities are limited to \$20 million in interest-free financing over a rolling five-year period for all CWSRF projects.

More information on hardship eligibility and restrictions can be found in the Hardship Policy on EFC's website at www.efc.ny.gov/CWSRF.

This hardship eligibility letter is not a commitment by EFC to provide financial assistance. Such a commitment will be reflected in the Project Financing Agreement executed by both parties. EFC may deny or otherwise adjust the financial assistance for your project based upon our review of the complete CWSRF financing application. In addition, EFC may only provide financial assistance for your project after receiving formal approvals from its Board of Directors and the New York State Public Authorities Control Board.

Our team will continue to assist you and your representatives. Should you have any questions, please contact Mr. Timothy P. Burns, P.E., at 518-402-7396 or timothy.burns@efc.ny.gov.

Thank you again for your interest in the CWSRF program. We look forward to working with you to ensure that your community has a safe, affordable, and sustainable wastewater system for generations to come.

Sincerely,



Maureen A. Coleman
Acting President & CEO and
General Counsel

cc: NYSDEC Region 9 - Mr. Jeffrey Konsella, P.E. (email)
Clark Patterson Lee – Mr. Seth Krull, P.E. (email)
Executive Director - Mr. Patrick Fama (email)



**Regular Session of the
Niagara Falls Water Board
January 27, 2020 5:00 PM at
Michael C. O’Laughlin Municipal Water Plant**

1. Attendance and Preliminary Matters: *Acting Chairperson Ms. Kimble called the meeting to order at 5:00 p.m.*

a. Aversa P Forster P Larkin P Leffler P Kimble P

b. Letters and Communications

i. DEC Letter Awarding \$100,000 Engineering Planning Grant

ii. DEC Letter Approving use of Phase II Funds for Projects

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

Colleen Collier, realtor for a property located at 2216 Cudaback Ave. spoke on behalf of the seller of the property. Ms. Collier explains she is trying to avoid a possible foreclosure on the property due to a burst pipe, resulting in a high-water bill. Ms. Walker or Mr. Costello to be in touch with Ms. Collier regarding a possible resolution.

Jim Briggs, Sub-District Director for the United Steelworkers, spoke in front of the board regarding his belief that the new positions for hire at the NFWB are union jobs. He also stated that employee evaluations are a mandatory subject of negotiation.

d. Approval of Minutes from December 16, 2019

Motion by Mr. Forster and seconded by Ms. Leffler to approve

Aversa abstain Forster Y Larkin Y Leffler Y Kimble Y

Motion was carried 4-0, with 1 abstention.

2. Executive Director

- a. CPL – Capital Project Update**
- b. CPL – Estimated Construction Schedule**

Dave Jaros from CPL updated the board on the status of WWTP projects and estimated construction schedule.

Mr. Forster questioned the status of the Beech Ave. water tower and the 102nd St. Project. Mr. Forster asked the quantity of water that can be taken from the County if needed. Mr. Wright states he will verify with the County and report back at next month's meeting.

3. Superintendent

Mr. Wright states the new fire hydrant program has begun. At the time of the meeting, there is one out-of-service fire hydrant to be replaced (waiting on a Dig Safely response from National Grid prior to proceeding). Six fire hydrants have been replaced and five fire hydrants have been repaired since the beginning of the year.

Mr. Forster questions the status of the fire hydrant on Weston Ave. where a house fire recently occurred. Mr. Forster wants to verify that the fire hydrant was fully operational. Mr. Eagler explains that he went to the site along with Chief Winker and were able to operate the fire hydrant with no issues; contrary to an incorrect report on social media the fire hydrant is and was fully operational.

4. Engineering

- a. Status of Capital Improvement Plan**
- b. Project Updates**

Mr. Williamson states a draft update to the CIP plan has been prepared, but it is a working document that is constantly changing. Mr. Williamsons would like to sit down with CPL and members of the Board (if they wish) to discuss the plan further.

Mr. Williamson states the NFWB met with the DEC regarding the Falls St. Tunnel on Wednesday January 22nd. The NFWB will seek grant funding for at least half of the cost of the project. The 102nd St. Meter Pit project will begin in April 2020.

5. Personnel Items/Director of Administrative Services

- a. Personnel Actions and Reports**

6. Information Technology (IT) Dept.

The new phone system has been implemented.

New World update is a work in progress.

Various wiring projects are taking place to improve connectivity throughout the water treatment plant and the wastewater treatment plant.

7. Financial Reports – Director of Financial Services

- a. Finance Overview Report
- b. Payroll-Based Overtime Report
- c. 2020 Capital Requisition and CPO Tracking Log

8. Reports

- a. Questions Regarding O&M Report for December 2019 (if any)
- b. Safety

9. General Counsel and Secretary

- a. Annual Confidential Board Evaluation
- b. Additional Insurance Products Under Consideration

Mr. Costello noted that in the past month two personal injury claims have been placed into suit.

10. From the Chairperson

11. Resolutions

**2020-01-001 – LUCITY SOFTWARE SUPPORT AND MAINTENANCE
RENEWAL**

- a. Invoice dated October 31, 2019

Motion by Ms. Leffler and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

**2020-01-002 – AWARD OF THE HEATING, VENTILATING, AND AIR
CONDITIONING SERVICES CONTRACT**

- a. CPL Award Recommendation Letter
- b. Bid Tabulation

Motion by Mr. Forster and seconded by Ms. Larkin to table

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

2020-01-003 – AWARD OF THE EMERGENCY REPAIR CONTRACT

- a. CPL Award Recommendation Letter
- b. Comparison Between 2018 and 2020 Unit Prices

Motion by Ms. Larkin and seconded by Mr. Forster to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

**2020-01-004 – PROCUREMENT OF STANDARDIZED SUPERNATANT
RETURN PUMP**

- a. Fluid Kinetics Quote dated January 22, 2020

Motion by Ms. Leffler and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

**2020-01-005 – AWARD BID FOR BOLLIER AVENUE WATER MAIN
REPLACEMENT**

- a. Bid Tabulation

Motion by Mr. Forster and seconded by Ms. Leffler to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

2020-01-006 – EMERGENCY BID FOR 2700 BLOCK INDEPENDENCE AVENUE COMBINED SEWER REPAIR

a. Bid Tabulation

Motion by Mr. Forster and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

2020-01-007 – AWARD BID FOR HIGH CALCIUM QUICK LIME

a. Bid Tabulation

Motion by Mr. Forster and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

2020-01-008 – AUTHORIZING HIRING OF DEPUTY DIRECTOR OF ADMINISTRATIVE SERVICES

Motion by Mr. Forster and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

2020-01-009 – AUTHORIZING HIRING OF INVENTORY CONTROL AGENT

Motion by Mr. Forster and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

2020-01-010 – AUTHORIZING TEMPORARY ASSOCIATE COUNSEL

Motion by Mr. Forster and seconded by Ms. Leffler to table

Aversa __Y__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion to table was carried, 5-0

2020-01-011 – SCHEDULES FOR DIRECTOR-LEVEL EMPLOYEES

Motion by Ms. Larkin and seconded by Ms. Leffler to approve

Ms. Larkin explained that the resolution is intended to make sure that managers are present when the staff under them are present.

Aversa __abstain__ Forster __N__ Larkin __Y__ Leffler __Y__ Kimble __N__

Motion was not carried 2-2, with one abstention.

2020-01-012 – REQUIRING BI-ANNUAL PERFORMANCE EVALUATIONS FOR ALL EMPLOYEES

Ms. Larkin asked to table to resolution to allow time for consultation between Mr. Perry and the Union. She clarified that evaluations are intended to be positive and can help with succession planning.

Motion by Ms. Larkin and seconded by Mr. Forster to table

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion to table was carried 4-0, with one abstention.

2020-01-013 – AMENDING CODE OF CONDUCT TO CLARIFY EMPLOYEE OBLIGATIONS WITH RESPECT TO BOARD OF DIRECTORS

- a. By-Laws and Code of Conduct Red-Lined to Show Proposed Change

Ms. Larkin stated that the amendment is intended to make sure employees understand the chain of command, and that Board members are communicating only with director-level employees, through whom employees should receive direction.

Mr. Forster stated that he feels communicating with employees is valuable for Board members. Ms. Kimble does not believe in micromanaging but wants employees to feel comfortable speaking to her if they have concerns.

Motion by Ms. Leffler and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __N__ Larkin __Y__ Leffler __Y__ Kimble __N__

Motion was not carried 2-2, with one abstention.

**2020-01-014 – REQUESTING THE ISSUANCE BY THE
NIAGARA FALLS PUBLIC WATER AUTHORITY OF BONDS TO
FINANCE CAPITAL IMPROVEMENTS AT WASTEWATER
TREATMENT PLANT**

- a. **Correspondence Explaining Bond Authorizations Needed for
Loan Opportunities**

Motion by Mr. Forster and seconded by Ms. Leffler to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

**2020-01-015 – REQUESTING THE ISSUANCE BY THE
NIAGARA FALLS PUBLIC WATER AUTHORITY OF BONDS TO
FINANCE WATERMAIN PROJECT**

Motion by Mr. Forster and seconded by Ms. Leffler to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

**2020-01-016 – AUTHORIZING THIRD PARTY LABORATORY
ANALYSIS SERVICES FOR WASTEWATER TREATMENT PLANT
LABORATORY**

- a. **Test America Quote**

Motion by Ms. Leffler and seconded by Ms. Larkin to approve

Aversa __abstain__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 4-0, with one abstention.

12. Unfinished Business

*Mr. Forster would like a resolution to be drafted for next month's meeting regarding
the hydrant committee.*

13. New Business & Additional Items for Discussion

Nothing new to discuss at this time.

14. Executive Session (if needed)

The board did not enter into executive session.

15. Adjournment of Meeting

Motion by Mr. Forster and seconded by Ms. Leffler to adjourn at 6:30 p.m.

Aversa __Y__ Forster __Y__ Larkin __Y__ Leffler __Y__ Kimble __Y__

Motion was carried 5-0.

DRAFT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Region 9

270 Michigan Avenue, Buffalo, NY 14203-2915

P: (716) 851-7070 | F: (716) 851-7009

www.dec.ny.gov

February 19, 2020

Mr. Patrick Fama
Executive Director
Niagara Falls Water Board
5815 Buffalo Avenue
Niagara Falls, New York 14304

Dear Mr. Fama:

Niagara Falls Water Board
File No. 08-59 (R920170906-129)
SPDES No. NY0026336

This letter is to advise the NFWB of the Department's position regarding the following issues:

1. An evaluation of chlorine dioxide to reduce sulfide formation in the WWTP carbon filters.
2. Full scale testing of aluminum-based coagulants to improve treatment in sedimentation basins 1 through 4 (primary treatment) and sedimentation basin 5 (backwash water treatment).

Order on Consent (R9-20170906-129) item 10 required the NFWB to submit a work plan and approvable schedule by September 19, 2018 to conduct a pilot study to add oxidizer to carbon filter influent and backwash water to determine if sulfide generation in the carbon filters can be reduced or prevented. In response, the NFWB submitted a document titled Work Plan: Wastewater Treatment Plant Chemical Feed Optimizations Studies dated September 19, 2018. The Department conditionally approved the work plan by letter dated January 8, 2019.

A condition of the work plan approval is that the study evaluate chlorine dioxide as an oxidizer. The NFWB performed the studies as outlined in the work plan and submitted a draft summary report dated September 20, 2019. The main findings from the study were that the addition of sodium hypochlorite to the carbon filter influent and backwash improved certain aspects of treatment plant performance but did not fully solve the problem of sulfide generation in the carbon system during warm weather conditions. The study included a preliminary review of the potential use of chlorine dioxide and suggested that it would not be practical in full scale operation.

In light of the limitations of sodium hypochlorite in this application, the Department believes a more extensive evaluation of chlorine dioxide is warranted. Enclosed is a summary of a literature search conducted by this office to support the need for further evaluation.



**Department of
Environmental
Conservation**

The Department requests that the NFWB conduct a chlorine dioxide evaluation that consists of a pilot scale study on at least one of the carbon beds to determine if sulfide formation can be reduced. The study should test chlorine dioxide in a range of doses added to the carbon filter influent and the backwash water. If feasible, the study should also assess the efficacy of dosing off-line filters with chlorine dioxide. The study should be conducted similar to the hypochlorite study except on a pilot scale, assessing similar parameters and operating conditions.

The study should be conducted in 2020 and focus on warm weather conditions when sulfide generation is greatest. To potentially avoid some of the logistical issues associated with on-site generation of chlorine dioxide, NFWB should consider a ready-to-use aqueous chlorine dioxide solution for the pilot study. NFWB is requested to submit a work plan for the study to the Department by April 30, 2020.

Regarding full-scale testing of aluminum-based coagulants, the Department agrees with the NFWB that the testing does not need to be done at this time. Other treatment plant improvement projects and studies such as routing carbon filter backwash to the head of the plant and the chlorine dioxide evaluation may affect the need for further testing of aluminum-based coagulants. Therefore, the Department plans to re-evaluate the need for full-scale testing in the fourth quarter of 2020.

If you have any questions regarding this letter, please contact Rob Locey, of my staff, at (716) 851-7070.

Sincerely,



Jeffrey A. Konsella
Regional Water Engineer

/tl

ecc: Rob Locey, DEC R9
Denine Jackson, DEC R9
Maureen Brady, Esq., Regional Attorney DEC R9
Chad Staniszewski, Regional Engineer DEC R9
John Kolaga, Esq., Rupp Baase

Attachment
NFWB Chemical Feed Optimization Studies
February 14, 2020

The following information, gathered from a literature survey, supports the Department's position that additional evaluation is necessary to determine if chlorine dioxide can effectively control or prevent the production of sulfides in the activated carbon system.

1. Chlorine dioxide works differently than sodium hypochlorite
 - a. ClO_2 is highly soluble and remains a dissolved gas in water (it does not hydrolyze).¹ As such, it readily permeates biofilms and bacterial cell membranes and kills the cells.² In contrast, sodium hypochlorite in water produces hypochlorous acid (HOCl) and hypochlorite ions ($-\text{OCl}$). At pH 7.5 (typical of wastewater), about 50% of the hypochlorite is in the ionic form. Because of the ionic charge, hypochlorite ions do not readily penetrate, and the oxidizing effect is instead consumed in the biofilms (by extracellular polymeric substances) and at the cell membranes.^{3,4}
 - b. Disinfection efficiency is not based solely on disinfectant concentration. The major rate controlling step is penetration of the disinfectant into the biofilm.³
 - c. In disinfection reactions hypochlorite accepts two electrons and is reduced to chloride. ClO_2 accepts one electron and is reduced to chlorite ion. After ClO_2 reacts and is reduced to chlorite ion, the ion can continue to oxidize material (accepting 4 additional electrons) until it is reduced to chloride. However, in biofilms, acidic conditions (due to fermenting/acid forming bacteria) can cause the chlorite ion to react with the acidity and reform ClO_2 .⁵ This recycle mechanism can repeat indefinitely and is another reason ClO_2 is so effective against biofilms.⁶
 - d. ClO_2 is a more selective oxidizer than hypochlorous acid due to its lower oxidation potential (0.95v vs 1.49v) and its one-electron exchange mechanism. As a result, ClO_2 is a more efficient disinfectant.
 - e. On a cellular level, the mode of action of ClO_2 is to disrupt protein synthesis and to increase cell membrane permeability causing loss of potassium.⁸ These processes can occur at relatively low ClO_2 concentration. By contrast, the mode of action of hypochlorite is believed to be gross cellular damage which requires a relatively high concentration and consumes a relatively large amount of oxidant.^{6,8}
 - f. Available chlorine (relative to $\text{Cl}_2 = 100\%$) is 263% for ClO_2 compared to only 95.2% for NaOCl .⁵
 - g. Because ClO_2 does not hydrolyze it is not sensitive to changes in pH. It maintains effectiveness as a disinfectant over a wide pH range.
 - h. ClO_2 does not react with ammonia.
2. Applications of ClO_2
 - a. ClO_2 is not widely used in this country for wastewater disinfection but there are wastewater facilities in Europe that use it for disinfection. It is widely used throughout the world for drinking water disinfection. In 1998 there were

between 500 and 900 drinking water facilities in the US and several thousand in Europe using ClO₂⁹. A key advantage for water treatment is that ClO₂ does not form chlorinated byproducts that are known to be carcinogens.

- b. The largest use of ClO₂ is in the pulp paper industry where it is used to bleach the pulp and to prevent biofilm from forming in the mass of pulp fibers where it can cause equipment fouling and harm product quality. ClO₂ is used as a sanitizer in food processing. ClO₂ is also widely used to prevent biofouling in industrial cooling towers and in treating wastewaters that contain high levels of sulfur compounds such as from the oil industry.

3. Safety and Logistics

- a. ClO₂ has been used for decades as a safe and effective disinfectant. In dilute solutions (up to about 1%), ClO₂ is stable and can be stored below 100 °F and away from UV light. However, as a gas it is unstable and is explosive at concentrations above 10% (v/v). Production facilities for aqueous ClO₂ have built-in safeguards to prevent dangerous levels of ClO₂ gas.
- b. Both ClO₂ solution and hypochlorite are skin and eye irritants and harmful if swallowed.
- c. Prolonged storage of the aqueous ClO₂ solution reduces its disinfection efficacy. Therefore, large scale use generally requires on-site generation. There are several established technologies for on-site generation.
- d. For relatively small-scale applications, ready-to-use 0.3% solution of ClO₂ in tote sizes up to 300 gallons are commercially available (e.g. CDG Solution 3000). This may be a good alternative to on-site generation for a pilot scale trial.

4. Costs

- a. Cost comparisons between ClO₂ and hypochlorite cover a wide range. A dated EPA study (1980)¹⁰ found the costs of wastewater disinfection with ClO₂ to be 2 to 5 times higher to achieve a certain coliform standard. A 2008 study by Whitfield & Associates¹¹ found the capital cost for ClO₂ to be about 2 times higher than hypochlorite, but the operating costs for ClO₂ were only about 1/3 the cost for hypochlorite for a 38 mgd water treatment plant.
- b. There may be other factors that could affect the cost comparison between ClO₂ and hypochlorite. For instance, if ClO₂ can effectively destroy the biofilm and inhibit the sulfide reducing bacteria there could be a significant reduction in chlorine demand that could result in lower costs.
- c. ClO₂ may be an effective treatment based on a partial substitution for hypochlorite rather than a complete substitution and thereby reduce costs. For instance, it may be effectively applied to just the backwash water or to just the off-line filters rather than to the entire plant flow.
- d. Because of these unknowns, it is premature to conclude that ClO₂ will be cost prohibitive based solely on its higher unit cost compared to hypochlorite. A pilot study should provide enough information for a better estimate of the ultimate cost/benefit relative to hypochlorite.

References:

1. Focus on Chlorine Dioxide; the ideal biocide (Simpson, Miller, Laxton, Clements)
2. International Dioxide website
3. Disinfecting Biofilms in a Model Distribution System (LeCevallier, Lowry, Lee)
4. Mechanisms of Actions of sodium Hypochlorite in Cleaning and Disinfection Processes (Fukuzaki)
5. Lenntech website
6. Pureline website - Biofilm: Removal and Prevention with chlorine Dioxide (Simpson)
7. Modes of Action of Disinfectants (Maris)
8. Sodium Chlorite Treatment of Biofilms w/Chlorine Dioxide (OxyChem)
9. Providing Safe Drinking Water in Small Systems (Cotruvo, Craun, Hearne)
10. Chlorine Dioxide for Wastewater Disinfection: A feasibility Evaluation, Technical Report No. 251, USEPA
11. The Benefits of Chlorine Chemistry in Water Treatment (Whitfield & Associates)



Niagara Falls Water Board (NFWB) Project Status Summaries

Last Updated: 2/19/2020

Project	Scope of Work	Budget	Scope/Vendor	NFWB Authorized Contract	Recent Work Update	% Complete	% Billed	% Paid (updated quarterly)
1	Sedimentation Basin Upgrades	\$10,390,000	Design/AECOM	\$409,000	Conducted Preliminary Design Review Meeting with AECOM.	30%	2%	2%
			Const./TBD			0%		
			CA/CI/TBD			0%		
			Running Total	\$409,000				
2	GPS (Funded in Phase I)	\$3,800,000	Design-I/GHD	\$198,230	Conducted 60% Design Review Meeting with GHD.	60%	51%	36%
			Const.-I/TBD			0%		
			CA/CI-I/GHD	\$180,000		0%		
			Running Total	\$378,230				
	Outfall (Funded in Phase II)	\$1,700,000	Design-II/GHD	\$33,735		20%	0%	
			Const.-II/TBD			0%		
			CA/CI-II/GHD	\$37,000		0%		
			Running Total	\$70,735				
3	Screens and Grit Transportation Equipment Improvements	\$1,920,000	Design/Arcadis	\$167,000	Developing 50% Documents for Review.	40%	40%	12%
			Const./TBD			0%		
			CA/CI/TBD			0%		
			Running Total	\$167,000				
4	Granular Activated Carbon and Filter Support Gravel Replacement	\$2,000,000	Design/AECOM	\$66,608	Conducted Construction Kickoff Meeting.	100%	0%	0%
			Const./Carb. Act.	\$1,798,840		0%	0%	
			CA/CI/AECOM	\$134,000		0%	0%	
			Running Total	\$1,999,448				
5	Electrical System Improvements	\$2,610,000	Design/E.I. Team	\$177,000	Developing Construction Documents.	90%	82%	10%
			Const./TBD	TBD		0%		
			CA/CI/TBD	TBD		0%		
			Const./Ferguson	\$252,000		10%		
			Running Total	\$429,000				

6	Effluent Disinfection	\$3,650,000	Design/AECOM	\$116,000	AECOM coordinating with contractors in preparation for construction.	90%	13%	0%
			Const./M&B	\$1,366,000		5%	0%	
			Const./Ferguson	\$108,000		5%	0%	
			Const./Ferguson	TBD		0%		
			CA/In-House	N/A				
			CI/AECOM	\$74,000		0%	0%	
			Running Total	\$1,664,000				
7	Replacement of Critical Heating and Ventilation Equipment	\$1,160,000	Design/E.I. Team	\$112,000	Developing Construction Documents.	90%	86%	86%
			Const./TBD	TBD		0%		
			CA/CI/TBD	TBD		0%		
			Running Total	\$112,000				
8	Replacement of Blower Equipment	\$300,000	Design/In-House	N/A	Construction closeout.	100%	N/A	N/A
			Const./Various	\$100,000		100%	100%	
			CA/CI/In-House	N/A		100%	N/A	N/A
			Running Total	\$100,000				
9	Replacement of Process Piping	\$640,000	Design/Ramboll	\$79,978	Conducted Preliminary Design Report Review Meeting with OBG(Ramboll).	40%	37%	17%
			Const./TBD	TBD		0%		
			CA/CI/TBD	TBD		0%		
			Running Total	\$79,978				
10	SCADA Improvements	\$100,000	Design/Kaman	\$352,000	Kaman updating existing screens and coordinating with Capital Project Engineers.	40%	23%	10%
			Const./TBD	TBD		0%		
			CA/CI/In-House	N/A		0%	N/A	N/A
			Running Total	\$352,000				

11	Gorge Elevator Upgrades	\$500,000	Design/In-House	N/A	Currently in construction.	100%	N/A	N/A
			Const./Hohl Ind.	\$448,000		25%	9%	
			CA/CI/In-House	N/A		25%	N/A	N/A
			Running Total	\$448,000				
99	FEMA	\$1,550,000	See Below	See Below	See Below			
	Total	\$30,320,000						

Other Projects (Not Included in the Capital Improvement Upgrades)

Project	Scope of Work	Budget	Scope/Vendor	NFWB Authorized Contract	Recent Work Update	% Complete	% Billed	% Paid
99	FEMA	\$5,720,000	Design/GHD	\$208,000	Developing Bid Documents for Construction	100%	100%	100%
			Const./TBD			1%		
			CA/CI/GHD	\$326,000		1%		
			Running Total	\$534,000				

ESTIMATED CONSTRUCTION INSPECTION SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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TASK DESCRIPTION	PLAN START	PLAN END	2019												2020												2021												2022												2023												2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M



ITEM	NO.	PROJECT NAME	PROJECT DESCRIPTION	PROJECT JUSTIFICATION	STATUS	RATING	FUNDING	FORECASTED EXPENDITURES					
								2020	2021	2022	2023	2024	Deferred
COMBINED PROJECTS (WATER AND WASTEWATER) - C													
C	1	IT Plan Implementation	Develop & implement IT solution	Efficiencies and cost savings	Ongoing - yearly	MEDIUM	Annual Coverage Transfer	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
C	2	Meter Replacement & Upgrades	Replace inaccurate & old meters	To insure meter accuracy and automated reading	Ongoing - yearly	MEDIUM	Annual Coverage Transfer	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000
C	3	Fleet Replacement	Replenish fleet	Replace aging and unsafe vehicle stock	Ongoing - yearly	MEDIUM	Annual Coverage Transfer	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
C	4	Water/sewer GIS/GPS Mapping	Document system assets	Better asset management with CMMS	Ongoing - yearly	MEDIUM	Annual Coverage Transfer	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
C	5	Combined Projects - Miscellaneous	Projects not forecasted or based on an emergency	Necessary for continued operation	As needed	HIGH	Annual Coverage Transfer	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
FORECASTED EXPENDITURES - SUBTOTALS PER YEAR								\$285,000	\$285,000	\$285,000	\$285,000	\$285,000	\$285,000
WASTEWATER TREATMENT PLANT INFRASTRUCTURE PROJECTS - WWTP													
WWTP	1	WWTP Rehab Phase 4A - Sed. Basins & Scum	Project no.1 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	SAM Grant #15688 Phase I Project Cost Estimate	\$1,300,000 \$2,600,000	\$1,300,000 \$2,600,000	\$1,300,000 \$2,600,000	\$1,300,000 \$2,600,000		\$0
WWTP	2	WWTP Rehab Phase 4B - GPS Rehabilitation	Project no.2 of the NYSDEC Order on Consent (also includes Relocate Outfall 003 from the Falls Street Tunnel to the GPS, item no.WWTP-11)	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$1,300,000 \$950,000 \$1,900,000	\$1,300,000 \$950,000 \$1,900,000	\$1,300,000 \$950,000	\$1,300,000		\$0
WWTP	3	WWTP Rehab Phase 4C - Polymer & Dewatering Controls	Project no.3 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$950,000 \$950,000 \$1,900,000	\$950,000				\$0
WWTP	4	WWTP Rehab Phase 4D - Carbon & Support Gravel	Project no.4 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Construction in early 2020	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$950,000 \$1,000,000 \$2,000,000	\$950,000				\$0
WWTP	5	WWTP Rehab Phase 4E - Electrical Improvements	Project no.5 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$1,000,000 \$2,000,000 \$1,000,000	\$1,000,000				\$0
WWTP	6	WWTP Rehab Phase 4F - Chemical Improvements	Project no.6 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$950,000 \$1,000,000 \$2,000,000	\$950,000				\$0
WWTP	7	WWTP Rehab Phase 4G - HVAC Improvements	Project no.7 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$1,000,000 \$2,000,000 \$275,000	\$1,000,000	\$275,000			\$0
WWTP	8	WWTP Rehab Phase 4H - Backwash Blower & Piping	Project no.8 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Completed	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$275,000 \$275,000 \$650,000	\$275,000				\$0
WWTP	9	WWTP Rehab Phase 4I - Piping Improvements	Project no.9 of the NYSDEC Order on Consent (also includes any additional WWTP piping work identified and necessary for plant operation)	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$650,000 \$650,000 \$850,000	\$650,000				\$0
WWTP	10	WWTP Rehab Phase 4J - SCADA Improvements	Project no.10 of the NYSDEC Order on Consent	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$850,000 \$1,700,000 \$850,000	\$850,000				\$0
WWTP	11.1	WWTP Phase II Grant - WWTP Flood Hazard Mitigation Grant Project (work included with CIP Item WWTP-11 below)	Harden utility infrastructure against extreme weather	Project identified that meets requirements of WWTP Phase II Grant	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$275,000 \$275,000 \$550,000	\$275,000				\$0
WWTP	11.2	WWTP Phase II Grant - Relocate Outfall 003 from the Falls Street Tunnel to the Gorge Pump Station (work included in CIP Item no. WWTP-2 Project No.2 Gorge Pump Station Rehabilitation above)	Redirecting of CSO Outfall 003 flows to GPS Outfall 006	NYSDEC Order on Consent R9-20170906-129, Schedule A, Item 18 Work, meets WWTP Phase II Grant Requirements	Engineering ongoing	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$550,000 \$275,000 \$275,000	\$550,000				\$0
WWTP	11.3	WWTP Phase II Grant - Upgrades to the Sewer Line from Sedimentation Basin No.5	Necessary Upgrades to the Sewer Line from Sedimentation Basin No.5	Project identified that meets requirements of WWTP Phase II Grant	TBD	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$275,000 \$275,000 \$650,000	\$275,000				\$0
WWTP	11.4	WWTP Phase II Grant - Replacement of Sludge and Hypochlorite Pipelines	Necessary Replacement of Sludge and Hypochlorite Pipelines	Project identified that meets requirements of WWTP Phase II Grant	TBD	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$650,000 \$650,000 \$850,000	\$650,000				\$0
WWTP	12	WWTP Roof Repairs	Replace & repair large sections of the WWTP roofs	Necessary for facility protection and longevity	On hold	LOW	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$850,000 \$1,700,000 \$850,000					\$1,800,000
WWTP	13	WWTP Chemical Tanks	Removal of old chemical tanks that are not used	Better utilize space for sludge storage	Construction completed	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$850,000 \$1,700,000 \$850,000					\$100,000
WWTP	14	WWTP Structural/Masonry Repairs	Repair aging and failing structural components	Restore structural integrity	On hold	LOW	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$850,000 \$1,700,000 \$850,000					\$554,000
WWTP	15	WWTP Flood Hazard Mitigation Grant Project - Phase II	Harden utility infrastructure against extreme weather	Prevent rainfall-related impacts and damage	Engineering complete, bidding phase	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$850,000 \$1,700,000 \$850,000					\$0
WWTP	16	WWTP Standby Generator	Replace and upgrade WWTP power generator	Improve reliability	On hold	MEDIUM	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$850,000 \$1,700,000 \$850,000					\$150,000
WWTP	17	WWTP Infrastructure Projects - Miscellaneous	Repairs / replacements not associated with Phased Projects	Necessary for continued operation	As needed	HIGH	#15688 Matching Funds SAM Grant #15688 Phase I Project Cost Estimate	\$850,000 \$1,700,000 \$850,000					\$100,000
FORECASTED EXPENDITURES - SUBTOTALS PER YEAR								\$20,557,970	\$7,400,000	\$2,800,000	\$2,800,000	\$100,000	\$2,704,000
SEWER INFRASTRUCTURE PROJECTS - S													
S	1	GPS Elevator	Replace and upgrade GPS elevator	Improve reliability	Construction ongoing	HIGH	Annual Coverage Transfer	\$447,500					\$0
S	2	Sanitary Lift Station Electrical Upgrades	Provide standby power generation and SCADA to lift stations	Improve reliability	Completed	HIGH	COMPLETED						\$0
S	3	LaSalle Area Sewer Improvements (SSO)	Sewer repairs to mitigate SSO's	DEC mandated regulatory requirement	Ongoing	HIGH	EPG grant #93794 Project Cost Estimate	\$100,000 \$126,800	\$0 \$175,000	\$0 \$200,000	\$0 \$200,000	\$0 \$200,000	\$200,000
S	4	Combined Sewer Overflow Long Term Control Plan (CSO LTCP) Implementation	Implement sewer improvements to mitigate CSO's	DEC mandated regulatory requirement	On hold	LOW	Matching Grant Funds	\$26,800	\$175,000	\$200,000	\$200,000	\$200,000	\$0
S	5	CSO Outfall Structural Repairs	Repairs to CSO outfalls on lower river	Restore structural integrity	On hold	LOW	ON HOLD						\$4,000,000
S	6	Tunnel Inspection	Inspect large diameter conveyance systems	Plan repairs prior to failures	On hold	LOW	ON HOLD						\$350,000
S	7	Falls Street Tunnel Regulator Repairs	Electrical and air leak repairs to the FST regulators	Necessary for proper operation of sewer system during wet weather	Completed	HIGH	COMPLETED						\$0
S	8	Sewer/GPS Infrastructure Projects - Miscellaneous	Sewer/GPS projects not forecasted or arise based on an emergency situation	Necessary for continued operation	As needed	HIGH	Annual Coverage Transfer	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
FORECASTED EXPENDITURES - SUBTOTALS PER YEAR								\$674,300	\$275,000	\$300,000	\$300,000	\$300,000	\$4,650,000
PROJECT GRANT FUNDING LEGEND													
Wastewater Infrastructure Engineering Planning Grant Project No.93794 (total grant amount = \$100,000)													
FORECASTED EXPENDITURES - SUBTOTALS PER YEAR								\$547,500	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000



ITEM	NO.	PROJECT NAME	PROJECT DESCRIPTION	PROJECT JUSTIFICATION	STATUS	RATING	FUNDING	FORECASTED EXPENDITURES						
								2020	2021	2022	2023	2024	Deferred	
WATER TREATMENT PLANT INFRASTRUCTURE PROJECTS - WTP														
WTP	1	WTP Pump Replacements	Replacement of old WTP pumps necessary to process drinking water	Maintain treatment plant integrity	Ongoing	HIGH	Annual Coverage Transfer	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$100,000	
WTP	2	Automation & Security Upgrades at WTP	Automate WTP operations and perform necessary VA identified upgrades	Maintain facility security	On hold	MEDIUM	ON HOLD						\$500,000	
WTP	3	WTP Vent Line Replacement	Replace corroding process vent piping	Maintain treatment plant integrity	On hold	LOW	ON HOLD						\$100,000	
WTP	4	WTP Laboratory Instrumentation	New instruments for sample analysis	Regulation-driven water testing	On hold	MEDIUM	ON HOLD						\$100,000	
WTP	5	WTP Caulking	Repair aging and failing structural components	Restore structural integrity	Ongoing	HIGH	COMPLETED						\$125,000	
WTP	6	WTP Building Improvements	WTP renovations necessary for operation	Necessary for continued operation	On hold	MEDIUM	ON HOLD						\$150,000	
WTP	7	Water Treatment Plant Infrastructure Projects - Miscellaneous	WTP projects not forecasted or arise based on an emergency situation	Necessary for continued operation	As needed	HIGH	Annual Coverage Transfer	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	
FORECASTED EXPENDITURES - SUBTOTALS PER YEAR								\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$1,175,000	
WATER INFRASTRUCTURE PROJECTS - W														
W	1	Hydrant Replacement	Hydrant Replacement - old and inoperable hydrants	Fire protection reliability	Potential 2020 grant application	HIGH	2020 EFC Grant Application	\$0	\$0	\$0	\$0	\$0	\$80,000	
							Project Cost Estimate	\$215,635	\$150,000	\$150,000	\$150,000	\$150,000		
W	2	Beech Avenue Tank Watermains (14" PE Sliplining) - 20th St. (Beech Ave. to Centre Ave.), Centre Ave. (20th St. to Hyde Park Blvd.), 21st St. (Centre Ave. to Ontario Ave.)	Water Main Replacement - Sliplining of water mains near Beech Avenue Water Tank	Distribution system operation & reliability	Potential 2020 grant application	HIGH	Future EFC Matching Funds	\$215,635	\$150,000	\$150,000	\$150,000	\$150,000	\$6,000,000	
							2020 EFC Grant Application			\$0				
W	3	Large Valve Replacement	Valve Replacement - water valves >12"	System reliability	Potential 2020 grant application	HIGH	Project Cost Estimate			\$1,500,000			\$50,000	
							Future EFC Matching Funds	\$1,500,000						
W	4	Buffalo Avenue Water Valves	Valve Replacement - water valves that are damaged	Road reconstruction opportunity	On hold	LOW	2020 EFC Grant Application	\$0	\$0	\$0	\$0	\$0	\$1,250,000	
							Project Cost Estimate	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000		
W	5	Leak Detection / Distribution Modeling	Water Distribution Study - Identify and control system losses	Resolve water quality & pressure issues; better asset management	Engineering ongoing	LOW	Future EFC Matching Funds	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$200,000	
							ON HOLD							
W	6	Abandon 20" Victory Pipe WM	Water Main Abandon - unnecessary and failing watermain	Victory pipe, potential for breaks	On hold	LOW	ON HOLD						\$170,000	
W	7	Loop "D" Street Main - Falls Street to Gill Creek	Water Main New - Install & loop with new main	Eliminate dead end and blow-off	On hold	LOW	ON HOLD						\$70,000	
W	8	Loop Niagara Avenue Main to Parkview Drive	Water Main New - Install & loop with new main	Eliminate dead end and blow-off	On hold	LOW	ON HOLD						\$110,000	
W	9	10th Street and Michigan Avenue Mains - Lockport Street to Ontario Avenue (8") and 10th Street to 11th Street (8")	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Engineering ongoing, 2020 construction	HIGH	2018 NYS EFC WIIA Grant	\$450,000					\$0	
							Project Cost Estimate	\$750,000						
W	10	18th Street Main - Ontario Avenue to Whitney Avenue (14" PE Sliplining)	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Engineering ongoing, 2020 construction	HIGH	2018 EFC Grant Matching Funds	\$300,000					\$0	
							2018 NYS EFC WIIA Grant	\$660,000						
W	11	77th Street Main - Frontier Avenue to Niagara Falls Boulevard (8")	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	2021 construction	HIGH	Project Cost Estimate	\$1,100,000					\$0	
							2018 EFC Grant Matching Funds	\$440,000	\$660,000					
W	12	80th Street - Niagara Falls Blvd. to Rick Manning Drive	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Potential future grant application	HIGH	Future EFC grant application					\$0	\$0	
							Project Cost Estimate				\$300,000			
W	13	81st Street Main - Frontier Avenue to Niagara Falls Boulevard	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	On hold	LOW	Future EFC Matching Funds					\$300,000	\$850,000	
							ON HOLD							
W	14	Bollier Avenue Main - 82nd Street to Military Road	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	2020 construction	HIGH	2017 NYS EFC WIIA Grant	\$240,000					\$0	
							Project Cost	\$534,810						
W	15	College Terrace - Madison to College Avenue	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Potential future grant application	HIGH	2017 EFC Grant Matching Funds	\$294,810					\$0	
							Future EFC grant application					\$0		
W	16	LaSalle Avenue Main - Hyde Park Blvd to 11th Street	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	On hold	LOW	Project Cost Estimate					\$155,000	\$0	
							Future EFC Matching Funds				\$155,000			
W	17	Laughlin Drive Main - 82nd Street to Bollier Ave	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Potential 2020 grant application	MEDIUM	ON HOLD						\$1,600,000	
W	18	McKoon Avenue Main - DeVeaux Avenue to James Avenue	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Potential future grant application	MEDIUM	2020 EFC Grant Application				\$0		\$0	
							Project Cost Estimate				\$630,000			
W	19	Military Road Main - Jacob Place to Bollier Avenue	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Engineering ongoing, 2020 construction	MEDIUM	Future EFC Matching Funds				\$630,000		\$0	
							Future EFC grant application				\$0			
W	20	Military Road Main - Jacob Place to Cayuga Drive	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Engineering ongoing, 2020 construction	MEDIUM	2018 NYS EFC WIIA Grant	\$120,000					\$0	
							Project Cost Estimate	\$200,000						
W	21	Ontario Avenue Main - 13th Street to Main Street	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	On hold	LOW	2018 EFC Grant Matching Funds	\$80,000					\$210,000	
							ON HOLD							
W	22	Pierce Avenue Main - 11th Street to 18th Street	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Potential future grant application	MEDIUM	Future EFC grant application					\$0	\$0	
							Project Cost Estimate				\$770,000			
W	23	Pierce Avenue Main - 18th Street to Hyde Park Blvd.	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	On hold	LOW	Future EFC Matching Funds					\$770,000	\$570,000	
							ON HOLD							
W	24	Rivershore Drive Main - S.86th Street to 91st Street	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	On hold	LOW	ON HOLD						\$750,000	
W	25	Van Rensselaer Ave - 900 Block	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Potential 2020 grant application	HIGH	2020 EFC Grant Application				\$0		\$0	
							Project Cost Estimate				\$150,000			
W	26	Welch Avenue Main - 19th Street to 24th Street (16")	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	On hold	LOW	Future EFC Matching Funds				\$150,000		\$600,000	
							ON HOLD							
W	27	Whitney Avenue Main - 11th Street to Hyde Park Blvd.	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	2021 construction	HIGH	2018 NYS EFC WIIA Grant		\$1,110,000				\$0	
							Project Cost Estimate	\$1,850,000						
W	28	Willow Avenue Main - 11th Street to 17th Street (8")	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	On hold	LOW	2018 EFC Grant Matching Funds		\$740,000				\$460,000	
							ON HOLD							
W	29	Witkop Avenue and 85th Street Loop (all 8")	Water Main Replacement - replace main and install new services	Replacement of watermain due to frequent breaks	Potential 2020 grant application	MEDIUM	2020 EFC Grant Application				\$0		\$0	
							Project Cost Estimate				\$720,000			
W	30	Water Infrastructure Projects - Miscellaneous	Water Projects - not forecasted or arise based on an emergency situation	Necessary for continued operation	As needed	HIGH	Future EFC Matching Funds				\$720,000		\$100,000	
							ON HOLD							
							Annual Coverage Transfer	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000		
FORECASTED EXPENDITURES - SUBTOTALS PER YEAR								\$3,170,445	\$3,470,000	\$2,020,000	\$2,020,000	\$2,625,000	\$13,350,000	
FORECASTED EXPENDITURES -TOTALS PER YEAR								\$24,817,715	\$11,560,000	\$5,535,000	\$5,535,000	\$3,440,000	\$22,164,000	
PROJECT GRANT FUNDING LEGEND														
2017 NYS EFC WIIA Grant Project, Drinking Water State Revolving Fund (DWSRF) - Project No.18435 (total grant amount = \$240,000)														
2018 NYS EFC WIIA Grant Projects, Drinking Water State Revolving Fund (DWSRF) - Project No.18588 (total grant amount = \$3,000,000)														
2020 NYS EFC WIIA Grant Projects, Drinking Water State Revolving Fund (DWSRF) - Potential Grant Application														
								2017 NYS EFC WIIA Grant	\$240,000	\$0	\$0	\$0	\$0	
								2017 EFC Grant Matching Funds	\$294,810	\$0	\$0	\$0	\$0	
								2018 NYS EFC WIIA Grant	\$1,230,000	\$1,770,000	\$0	\$0	\$0	
								2018 EFC Grant Matching Funds	\$820,000	\$1,180,000	\$0	\$0	\$0	
								2020 NYS EFC WIIA Grant	\$0	\$0	\$0	\$0	\$0	
								2020 EFC Grant Matching Funds	\$452,635	\$450,000	\$1,900,000	\$1,900,000	\$450,000	
								Future EFC grant application	\$0	\$0	\$0	\$0	\$0	
								Future EFC Matching Funds	\$0	\$0	\$0	\$0	\$2,105,000	
								Annual Coverage Transfer	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	

Niagara Falls Water Board
Personnel Actions and Report
Monday, February 24, 2020

Personnel Actions Sheet & Requested of the Board

I. PERSONNEL ACTIONS RECOMMEND TO HIRE

Line Item Number	Position	Department/Location	Pay Rate or Grade	ADDITIONAL INFORMATION

ITEMS FOR FEBURARY THERE ARE ITEMS FOR EXECUTIVE DISCUSSION

II. RECOMMENDED PROMOTION / MOVE / APPOINTMENT

Line Item Number	Position	Type of labor move	Change in pay rate or grade	ADDITIONAL INFORMATION
2.1	Chief Operator	Increase in Hourly Rate	Rate increase \$50 to \$85 /hr	Impact = \$5,590 per month operating expense

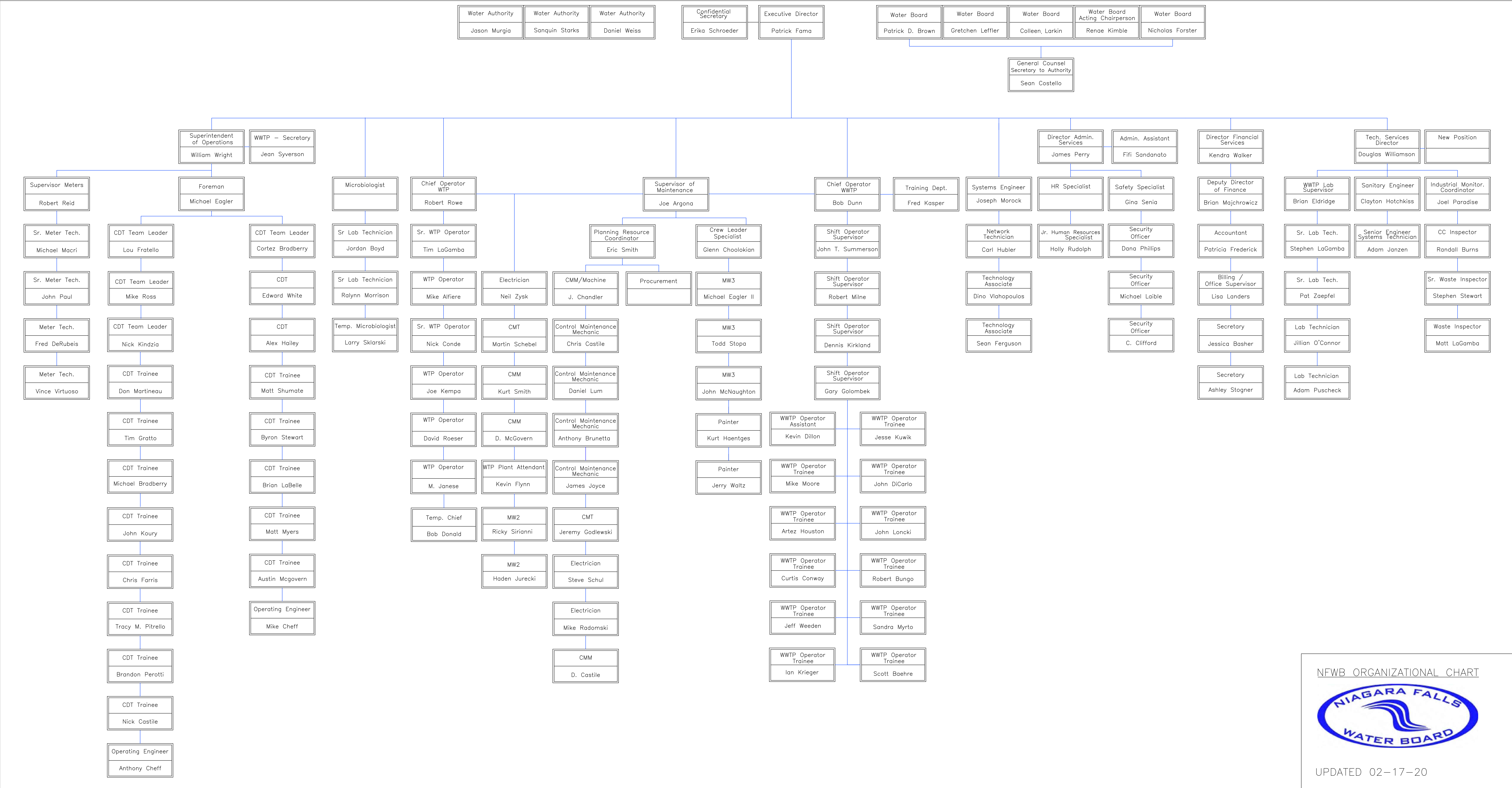
III. BOARD NOTIFICATION OF OTHER MOVEMENT (CBA BID, MCSB APPOINTMENT, LEGAL STATUS CHANGE)

Name	Position & type of labor move	Department/Location	Pay Rate or Grade	ADDITIONAL INFORMATION / AUTHORITY

IV. OTHER ACTIVITY OTHER PERSONNEL ACTIVITY FOR BOARD NOTIFICATION

V. PERSONNEL ON LONG TERM LOA

Name	Last Day Worked	Dept.	Return Status	Comments
Jesse Kuwik	Jan. 13 2020	WWTP/Maint.	Aug. 27 2020	Military Deployment
Todd Stopa	Jan. 14 2020	WWTP/Maint.	Unknown at present	Worker's Comp



NFWB ORGANIZATIONAL CHART



UPDATED 02-17-20

REVENUE- BUDGET TO ACTUAL

Fiscal Year to Date 02/14/20

Account	Account Description	Adopted Budget	Budget Amendments	Amended Budget	Current Month Transactions	YTD Encumbrances	YTD Transactions	Budget - YTD Transactions	% Used/ Rec'd	Prior Year Total
Fund GA - Water Board - Sewer										
REVENUE										
2120.001	District 1	2,294,082.00	.00	2,294,082.00	786.78	.00	521,807.94	1,772,274.06	23	2,157,542.21
2120.002	District 2	2,499,963.00	.00	2,499,963.00	607,049.85	.00	608,673.19	1,891,289.81	24	2,554,488.49
2120.003	District 3	1,901,440.00	.00	1,901,440.00	257.76	.00	1,361.12	1,900,078.88	0	1,907,520.61
2120.005	Industrial CSIRU	3,876,656.00	.00	3,876,656.00	.00	.00	966,283.73	2,910,372.27	25	3,900,766.89
2120.006	Industrial SIU	8,332,214.00	.00	8,332,214.00	843,797.85	.00	1,129,098.68	7,203,115.32	14	8,042,162.08
2120.007	Waste Hauler Fees	125,000.00	.00	125,000.00	.00	.00	.00	125,000.00	0	.00
2120.102	Town Of Niagara	792,800.00	.00	792,800.00	.00	.00	182,035.24	610,764.76	23	674,623.44
2122.001	Visual Inspections	.00	.00	.00	.00	.00	.00	.00	+++	(300.00)
2122.002	Dye Tests	33,141.00	.00	33,141.00	2,522.50	.00	5,042.50	28,098.50	15	41,187.50
2128.001	District 1	70,000.00	.00	70,000.00	.00	.00	15,502.80	54,497.20	22	73,639.36
2128.002	District 2	55,000.00	.00	55,000.00	.00	.00	(88.18)	55,088.18	0	58,902.07
2128.003	District 3	71,125.00	.00	71,125.00	.00	.00	13,629.01	57,495.99	19	61,830.15
2128.005	Industrial	7,500.00	.00	7,500.00	.00	.00	8,162.64	(662.64)	109	16,292.08
2128.006	Industrial SIU	13,448.00	.00	13,448.00	.00	.00	567.00	12,881.00	4	24,903.91
2141.000	Allowance for Unpaid Trfd	(235,000.00)	.00	(235,000.00)	46,711.86	.00	46,711.86	(281,711.86)	-20	76,263.98
2401.000	Interest Earnings	158,400.00	.00	158,400.00	.00	.00	5,148.94	153,251.06	3	58,538.19
2590.006	SIU 5-Yr Permits	993.00	.00	993.00	500.00	.00	500.00	493.00	50	1,050.00
2620.000	Forfeitures Of Deposits	596.00	.00	596.00	400.00	.00	400.00	196.00	67	800.00
2650.000	Sale Of Scrap	5,000.00	.00	5,000.00	.00	.00	.00	5,000.00	0	.00
2690.001	Damages to WB Property	5,000.00	.00	5,000.00	.00	.00	.00	5,000.00	0	250,000.00
2701.000	Refund Appro Exp Prior Yr	.00	.00	.00	.00	.00	1,021.28	(1,021.28)	+++	(11,822.62)
2770.599	Undesignated	100,000.00	.00	100,000.00	.00	.00	.00	100,000.00	0	56,271.00
5031.FA	Transfer Fr Water Divisn.	80,000.00	.00	80,000.00	.00	.00	.00	80,000.00	0	.00
REVENUE TOTALS		\$20,187,358.00	\$0.00	\$20,187,358.00	\$1,502,026.60	\$0.00	\$3,505,857.75	\$16,681,500.25	17%	\$19,944,659.34
Fund GA - Water Board - Sewer Totals										
REVENUE TOTALS		20,187,358.00	.00	20,187,358.00	1,502,026.60	.00	3,505,857.75	16,681,500.25	17%	19,944,659.34
EXPENSE TOTALS		.00	.00	.00	.00	.00	.00	.00	+++	.00
Fund GA - Water Board - Sewer Totals		\$20,187,358.00	\$0.00	\$20,187,358.00	\$1,502,026.60	\$0.00	\$3,505,857.75	\$16,681,500.25		\$19,944,659.34
Grand Totals										

REVENUE- BUDGET TO ACTUAL

Fiscal Year to Date 02/14/20

REVENUE TOTALS	33,014,309.00	.00	33,014,309.00	2,052,446.45	.00	5,740,751.75	27,273,557.25	17%	31,306,524.15
EXPENSE TOTALS	.00	.00	.00	.00	.00	.00	.00	+++	.00
Grand Totals	\$33,014,309.00	\$0.00	\$33,014,309.00	\$2,052,446.45	\$0.00	\$5,740,751.75	\$27,273,557.25		\$31,306,524.15

Accounts Payable Budget to Actual Report

Through G/L Date 02/14/20

Account Number	Account Description	Amended Budget	YTD Encumbrances	YTD Transactions	Budget Less YTD Transactions	% Used	Prior Year Total
Fund GA - Water Board - Sewer							
Personnel - Position Control							
0110.000	Biweekly Payroll	2,797,811.00	.00	298,443.90	2,499,367.10	11%	2,596,502.60
0153.000	Stipend	.00	.00	96.15	(96.15)	+++	2,499.90
Personnel - Position Control Totals		\$2,797,811.00	\$0.00	\$298,540.05	\$2,499,270.95	11%	\$2,599,002.50
Personnel Services							
0100.000	Employee Adjustment	.00	.00	.00	.00	+++	.00
0111.000	Biweekly Comp Differential	.00	.00	186.20	(186.20)	+++	484.11
0115.000	Employee Adjustment-L/Off	.00	.00	.00	.00	+++	.00
0120.000	Weekly Payroll	.00	.00	.00	.00	+++	.00
0121.000	Weekly Comp Differential	.00	.00	.00	.00	+++	.00
0125.000	Insurance OPT Out	89,463.00	.00	9,008.14	80,454.86	10%	117,903.48
0130.000	Temporary Payroll	78,750.00	.00	10,562.50	68,187.50	13%	124,779.18
0135.000	Car Allowance	.00	.00	.00	.00	+++	.00
0140.000	Overtime	278,500.00	.00	25,034.79	253,465.21	9%	177,693.74
0150.000	Acting Next-In-Rank Pay	.00	.00	2,145.00	(2,145.00)	+++	22,982.94
0151.000	Sunday Premium Pay	.00	.00	.00	.00	+++	.00
0151.A	Sunday Contractual Pay	.00	.00	5,522.75	(5,522.75)	+++	44,349.19
0152.000	Shift Premium Pay	.00	.00	55.98	(55.98)	+++	8,576.29
0155.000	Holiday Pay	.00	.00	18,496.41	(18,496.41)	+++	84,932.03
0155.A	Holiday Contractual Pay	.00	.00	7,801.66	(7,801.66)	+++	27,890.24
0165.000	Military Leave	.00	.00	.00	.00	+++	5,182.30
0170.000	Overtime Meals	11,950.00	.00	636.75	11,313.25	5%	4,791.00
0180.000	Comp. Time Earned	.00	.00	.00	.00	+++	.00
0181.000	Vacation Pay	.00	.00	19,468.64	(19,468.64)	+++	180,300.86
0182.000	Personal Time	.00	.00	643.15	(643.15)	+++	10,628.84
0183.000	Compensatory Time Off	.00	.00	1,066.57	(1,066.57)	+++	4,267.61
0184.000	Funeral Leave	.00	.00	630.76	(630.76)	+++	7,183.04
0185.000	Jury Duty	.00	.00	.00	.00	+++	736.24
0186.000	Call-In Time	.00	.00	2,735.24	(2,735.24)	+++	19,630.68
0188.000	Bonus	.00	.00	.00	.00	+++	.00

Accounts Payable Budget to Actual Report

Through G/L Date 02/14/20

0189.000	Sick Leave	.00	.00	6,777.94	(6,777.94)	+++	91,676.46
0190.000	Vacation Cash Conversion	.00	.00	.00	.00	+++	4,373.41
0197.000	Compensated Absences	.00	.00	.00	.00	+++	.00
Personnel Services Totals		\$458,663.00	\$0.00	\$110,772.48	\$347,890.52	24%	\$938,361.64
Capital Outlays							
0210.000	Furniture & Furnishings	.00	.00	.00	.00	+++	2,045.65
0220.000	Office Equipment	500.00	.00	.00	500.00	0%	.00
0230.000	Motor Vehicle Equipment	25,000.00	510.78	.00	24,489.22	2%	.00
0240.000	Highway & Street Equipmnt	.00	.00	.00	.00	+++	.00
0250.000	Other Equipment	.00	.00	.00	.00	+++	79.42
0250.007	Computer Equipment	.00	.00	.00	.00	+++	.00
0250.500	Safety Equipment	28,770.00	775.90	5,176.92	22,817.18	21%	24,375.72
0260.000	Installment/Purchases	.00	.00	.00	.00	+++	.00
0270.000	Communication Equipment	.00	.00	.00	.00	+++	.00
Capital Outlays Totals		\$54,270.00	\$1,286.68	\$5,176.92	\$47,806.40	12%	\$26,500.79
Capital Construction							
0300.000	Capital Construction	.00	.00	.00	.00	+++	.00
Capital Construction Totals		\$0.00	\$0.00	\$0.00	\$0.00	+++	\$0.00
Contractual Expenses							
0411.000	Office Supplies	5,700.00	.00	530.01	5,169.99	9%	2,099.11
0412.000	Uniforms	3,305.00	.00	.00	3,305.00	0%	3,760.00
0413.000	Safety Shoes	11,400.00	.00	.00	11,400.00	0%	8,226.96
0414.000	Automotive-Gas,Oil,Grease	40,000.00	339.95	115.43	39,544.62	1%	18,490.10
0415.000	Fuel Oil	.00	.00	.00	.00	+++	45,308.12
0416.000	Consumable Printed Forms	.00	.00	280.70	(280.70)	+++	640.17
0417.000	Tool Allowance	300.00	.00	.00	300.00	0%	148.63
0419.000	Supplies Peculiar / Dept.	.00	.00	.00	.00	+++	.00
0419.001	Automotive Parts	40,000.00	9,771.77	2,950.79	27,277.44	32%	26,298.27
0419.002	Photographic	.00	.00	.00	.00	+++	.00
0419.003	Cleaning/Sanitary	5,000.00	300.00	464.05	4,235.95	15%	4,408.25
0419.004	Agricultural/Botanical	40,000.00	.00	.00	40,000.00	0%	22,811.40
0419.005	Tools & Machine Parts	188,318.00	45,956.35	13,627.37	128,734.28	32%	174,353.80
0419.006	Construction/Repair	135,000.00	1,616.48	383.52	133,000.00	1%	131,869.30

Accounts Payable Budget to Actual Report

Through G/L Date 02/14/20

0419.008	Signals/Communication	3,500.00	.00	.00	3,500.00	0%	7,642.00
0419.009	Misc Chemicals	19,000.00	444.16	299.33	18,256.51	4%	14,438.42
0419.010	Laboratory	23,000.00	1,243.74	1,271.85	20,484.41	11%	23,288.64
0419.012	Carbon	440,000.00	.00	.00	440,000.00	0%	6,221.30
0419.014	Ferric Chloride	385,000.00	152,960.63	32,039.37	200,000.00	48%	374,565.29
0419.016	Primary Polymer	110,000.00	60,000.00	.00	50,000.00	55%	179,100.00
0419.017	Sludge Polymer	110,000.00	55,000.00	.00	55,000.00	50%	.00
0419.018	Pebble Lime	210,000.00	105,000.00	.00	105,000.00	50%	120,878.27
0419.020	Lime Slurry	.00	.00	.00	.00	+++	.00
0419.022	Liquid Chlorine	.00	.00	.00	.00	+++	.00
0419.024	Hypochlorite Solution	1,550,000.00	373,287.37	176,712.63	1,000,000.00	35%	1,850,298.07
0419.026	Sulfuric Acid	.00	.00	.00	.00	+++	.00
0419.028	Hydrogen Peroxide	200,000.00	.00	.00	200,000.00	0%	68,552.99
0419.029	Potassium Permanganate	.00	.00	.00	.00	+++	.00
0419.030	Sodium Nitrate	.00	.00	.00	.00	+++	.00
0419.499	Interceptor Memorial	.00	.00	.00	.00	+++	.00
0419.500	Safety Supplies	.00	.00	.00	.00	+++	.00
0419.599	Undesignated Supplies	52,450.00	6,952.84	2,246.25	43,250.91	18%	48,479.75
0421.000	Communications	.00	.00	.00	.00	+++	.00
0421.001	Phone Extension Chgs	19,300.00	.00	2,889.24	16,410.76	15%	44,216.43
0421.002	Wireless Services	6,000.00	.00	.00	6,000.00	0%	10,190.92
0422.000	Light & Power	607,500.00	.00	21,200.86	586,299.14	3%	604,679.37
0423.000	Water/Sewer	296,000.00	.00	.00	296,000.00	0%	443,598.31
0424.000	Gas	20,000.00	.00	.00	20,000.00	0%	23,187.37
0432.000	Property Insurance	155,000.00	.00	.00	155,000.00	0%	.00
0433.000	Liability Insurance	85,000.00	.00	102,312.60	(17,312.60)	120%	59,954.59
0440.000	Lease Of Equipment	.00	.00	.00	.00	+++	.00
0440.003	Motor Vehicle Equipment	84,000.00	.00	7,094.30	76,905.70	8%	53,170.18
0440.599	Undesignated Leases	525.00	.00	119.54	405.46	23%	382.86
0441.000	Rental Of Real Property	70.00	.00	.00	70.00	0%	41.00
0442.000	Rental Of Equipment	16,750.00	.00	.00	16,750.00	0%	14,781.94
0442.001	Photocopy/Printing Chg	.00	.00	.00	.00	+++	.00



Accounts Payable Budget to Actual Report

Through G/L Date 02/14/20

0442.002	Office Equipment Rental	.00	.00	.00	.00	+++	.00
0442.003	Motor Vehicle Equip Rentl	.00	.00	435.12	(435.12)	+++	12,129.81
0442.599	Undesignated Rentals	6,500.00	1,500.00	.00	5,000.00	23%	692.88
0443.000	Repair Of Real Property	48,155.00	5,134.41	2,016.01	41,004.58	15%	36,840.42
0444.000	Repair Of Equipment	153,000.00	6,012.80	1,152.69	145,834.51	5%	152,620.29
0446.000	Computer Services	.00	.00	699.94	(699.94)	+++	4,199.71
0446.007	Software	.00	.00	.00	.00	+++	.00
0449.000	Billing & Collection	.00	.00	4,102.93	(4,102.93)	+++	40,445.04
0449.002	Sludge Disposal	1,550,000.00	421,842.57	128,157.43	1,000,000.00	35%	1,574,569.51
0449.003	Waste Disposal	.00	.00	.00	.00	+++	4,400.50
0449.004	Special Security	5,000.00	200.00	65.00	4,735.00	5%	14,636.93
0449.008	Hazardous Waste Displ.	5,000.00	.00	.00	5,000.00	0%	774.01
0449.500	Safety-Contractual	5,500.00	.00	156.00	5,344.00	3%	2,057.50
0449.599	Undesignated Services	192,282.00	51,984.84	2,171.04	138,126.12	28%	188,330.16
0451.000	Consultants	100,000.00	16,700.00	7,200.00	76,100.00	24%	304,562.87
0453.000	Engineers & Architects	8,000.00	.00	.00	8,000.00	0%	12,010.38
0453.001	Hauled Waste Study	.00	.00	.00	.00	+++	.00
0454.000	Attorney Services	90,000.00	.00	.00	90,000.00	0%	70,560.71
0461.000	Postage	15,000.00	.00	.00	15,000.00	0%	26,163.54
0463.000	Travel & Training Expense	18,500.00	.00	530.00	17,970.00	3%	14,514.86
0463.500	Safety Training	3,000.00	.00	.00	3,000.00	0%	1,007.50
0464.000	Local Mtng Cost/Mileage	.00	.00	.00	.00	+++	.00
0465.000	Laundry & Cleaning	3,550.00	2,646.65	903.35	.00	100%	6,697.65
0466.000	Books,Mags. & Memberships	400.00	.00	1,800.00	(1,400.00)	450%	2,399.50
0467.000	Advertising	399.00	.00	.00	399.00	0%	417.73
0471.000	Recruitment Expenditures	1,200.00	.00	.00	1,200.00	0%	1,247.57
Contractual Expenses Totals		\$7,067,604.00	\$1,318,894.56	\$513,927.35	\$5,234,782.09	26%	\$6,857,360.88
Employee Benefits							
0801.000	NYS E.R.S. Retirement	452,000.00	.00	.00	452,000.00	0%	92,809.67
0803.000	Building Trades Benefits	.00	.00	.00	.00	+++	.00
0820.000	Worker's Compensation	250,000.00	.00	71.69	249,928.31	0%	11,246.27
0830.000	Life Insurance	8,825.00	.00	.00	8,825.00	0%	8,136.33
0840.000	Unemployment Ins. NYS	.00	.00	6,332.59	(6,332.59)	+++	10,367.42



Accounts Payable Budget to Actual Report

Through G/L Date 02/14/20

0841.000	Unemployment Ins. Federal	.00	.00	.00	.00	+++	.00
0860.000	Medical Insurance	2,414,870.00	.00	73,184.16	2,341,685.84	3%	1,947,397.45
0861.000	Dental Insurance	81,275.00	.00	.00	81,275.00	0%	.00
0862.000	Prescription Reimbursement	.00	.00	.00	.00	+++	.00
0863.000	Vision Care Insurance	5,940.00	.00	.00	5,940.00	0%	4,862.96
0864.000	Prescription Insurance	.00	.00	.00	.00	+++	.00
0865.000	Chiropractic Insurance	68.00	.00	120.00	(52.00)	176%	720.00
Employee Benefits Totals		\$3,212,978.00	\$0.00	\$79,708.44	\$3,133,269.56	2%	\$2,075,540.10
Employee Benefit - FICA							
0810.000	Social Security	261,541.00	.00	30,791.49	230,749.51	12%	263,134.44
Employee Benefit - FICA Totals		\$261,541.00	\$0.00	\$30,791.49	\$230,749.51	12%	\$263,134.44
Interfund Transfers							
0900.F	Transfer To Water Fund	.00	.00	.00	.00	+++	.00
0900.FA	Transfer To Water Divisn.	786,963.00	.00	.00	786,963.00	0%	.00
0900.FGA	Transfer To Authority Bd	20,000.00	.00	.00	20,000.00	0%	.00
0900.FGB	Transfer To Water Board	70,000.00	.00	.00	70,000.00	0%	.00
0900.O&M	Transfer to Capital - Coverage	1,420,982.00	.00	1,420,981.80	.20	100%	1,312,700.00
0900.VFG	Transfer To Debt Service	4,418,229.00	.00	.00	4,418,229.00	0%	.00
Interfund Transfers Totals		\$6,716,174.00	\$0.00	\$1,420,981.80	\$5,295,192.20	21%	\$1,312,700.00
Non-Operating Start-up Costs							
0110.999	Early Termination Payments	.00	.00	.00	.00	+++	.00
Non-Operating Start-up Costs Totals		\$0.00	\$0.00	\$0.00	\$0.00	+++	\$0.00
Fund GA - Water Board - Sewer Totals		\$20,569,041.00	\$1,320,181.24	\$2,459,898.53	\$16,788,961.23	18%	\$14,072,600.35
Grand Totals		\$33,240,220.00	\$1,454,538.45	\$4,686,635.77	\$27,099,045.78	18%	\$22,864,205.12

Niagara Falls Water Board

Accounts Payable Payment Edit Listing

Batch Department / Invoice Department		Bank Account		Check Date		Starting Check Number
8310.0001 Water,Administration		N.F.W.B. Expense Fund		01/14/2020		4726
Selected Invoices	Vendor	Invoice Number	Invoice Description	Invoice Date	Due Date	Invoice Net Amount
8310.0001 Water,Administration						
	1092 - Amazon Capital Services, Inc.	D19/1HHQPVPQRMV	ETHERNET WIRING SUPPLIES	12/17/2019	12/31/2019	2,314.59
	1092 - Amazon Capital Services, Inc.	D20/1JRFXXW69QNK	TONER REPLACEMENT	01/07/2020	01/13/2020	37.48
	603 - Blue Cross/Blue Shield of WNY Inc	D20/JANUARY2020	JANUARY 2020 MEDICAL BENEFITS	12/10/2019	01/09/2020	310,143.77
	375 - Carmeuse Lime & Stone	D19/94002902	PEBBLE LIME FOR WASTEWATER	12/17/2019	12/31/2019	3,268.52
	375 - Carmeuse Lime & Stone	D19/94008806	PEBBLE LIME FOR WASTEWATER	12/30/2019	12/31/2019	3,488.79
	12682 - City Controller	D19/43802	REIMBURSE WORKERS COMP CLAIMS PAID FOR DEC 2019	12/31/2019	12/31/2019	1,449.88
	12682 - City Controller	D19/43803	OCT-DEC 2019 STREET CUTS RESTORATION	01/08/2020	12/31/2019	6,533.76
	12682 - City Controller	D19/43809	12/19 REIMBURSE POSTAGE	12/31/2019	12/31/2019	33.13
	12682 - City Controller	D20/2020PILOT	2020 PAYMENT IN LIEU OF TAXES	01/02/2020	01/13/2020	700,000.00
	12682 - City Controller	D20/43778	1/20 BILLING & COLLECTION SVC	01/06/2020	01/09/2020	8,205.86
	660 - Combined Insurance Co of NY	D20/JANUARY2020	JANUARY 2020 VISION COVERAGE	12/21/2019	01/09/2020	816.35
	762 - CS Kimeric	D19/INV32306-IN	LAB CHEMICALS	12/19/2019	12/31/2019	127.10
	1135 - Dan & Heather Dobson	D19/SETTLEMENT	NOTICE OF CLAIM FILED 11/15/19 FOR PARKING LOT COLLISION	12/16/2019	12/31/2019	1,230.85
	1008 - Daniel McGovern Jr	D20/AMAZON1120	SAFETY SHOES 1/1/20	01/01/2020	01/09/2020	200.00
	2135 - DCB Elevator Co Inc	D19/79997	WWTP MAINT ELEVATOR SVC CALL 11/8/19	12/13/2019	12/31/2019	338.41
	2135 - DCB Elevator Co Inc	d20/79885	MONTHLY PREVENTATIVE MAINT JAN 2020	01/01/2020	01/09/2020	630.00
	12626 - Dig Safely New York	D19/19121305	NFWB AFTER HOUR LOCATION REQUEST DEC 2019	12/31/2019	12/31/2019	12.96
	784 - DILLON KEVIN	D19/FF12172019	2019 2ND PAIR SAFETY SHOES	12/17/2019	12/31/2019	107.62
	6219 - Duplicating Consultants Inc	D19/273267273122	DECEMBER 2019 COPIER WTP & WWTP	12/26/2019	12/31/2019	374.73
	11379 - Eurofins Test America	D19/240002276348	LAB TESTINGS	12/19/2019	12/31/2019	1,205.00
	3565 - Flynn, Kevin	D19/LOS12302019	SAFETY SHOES 2019 LOCKPORT OUTDOOR STORE 5/31/19	12/30/2019	12/31/2019	161.99
	12619 - GHD Consulting Services Inc	D19/75067	TASK ORDER SVCS WWTP PROF SVC THRU 8/31/19	09/11/2019	12/31/2019	10,640.00
	960 - Grainger Inc	D19/ 9387533327	GOLF CART TIRES	12/17/2019	12/31/2019	228.48
	975 - Hach Company	D19/11771108	CHLORINE REAGENT ORDER	12/20/2019	12/31/2019	942.84
	1139 - Ian Krieger	D19/AMAZON122019	2019 SAFETY SHOES	12/20/2019	12/31/2019	173.71
	9618 - Idexx Laboratories	19944/3056957767	BacT Supplies	12/04/2019	12/31/2019	1,764.93
	889 - JENNIFER SHARE LMT	D19/SHARE12	MASSAGE THERAPY 12/7 & 12/19/19	12/31/2019	12/31/2019	120.00
	2231 - Johnson Controls Fire Protection LP	D20/21350835	SEMI ANNUAL FIRE ALARM SVC 1/1/20-6/30/20	12/02/2019	01/09/2020	2,310.00

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955 - L & S Metals	19624/191283	gaurds	08/30/2019	12/31/2019	392.00
12617 - LAFARGE NORTH AMERICA	D19/712038033	CRUSHED STONE	12/12/2019	12/31/2019	518.56
12617 - LAFARGE NORTH AMERICA	D19/7120416135	CRUSHED STONE	12/09/2019	12/31/2019	99.43
12617 - LAFARGE NORTH AMERICA	D19/712089170	CRUSHED STONE	12/24/2019	12/31/2019	196.36
12617 - LAFARGE NORTH AMERICA	D19/712113871	CRUSHED STONE	12/31/2019	12/31/2019	149.77
1137 - LEAF Commercial Capital	D19/10081266	DECEMBER 2019 WTP/WWTP RICOH COPIER	12/22/2019	12/31/2019	126.64
1137 - LEAF Commercial Capital	D20/10183455	JANUARY 2020 WTP/WWTP RICOH COPIER	11/18/2019	01/09/2020	126.64
1140 - Lock City Supply Company	D19/INV130483	12/11/19 COPPER, HYD BREAKAWAY, BUTTERFLY VALVE	12/11/2019	12/31/2019	683.14
76 - Matrix Imaging Solutions	D19/3798	DECEMBER 12-27 2019 BILL PRINTING & ENVELOPES	12/31/2019	12/31/2019	1,664.65
8546 - Mckay's	D19/46968	SAFETY SHOES TODD STOPA 12/14/19	12/14/2019	12/31/2019	179.99
8546 - Mckay's	D19/46969	SAFETY SHOES GLENN CHOOLOKIAN 12/14/19	12/14/2019	12/31/2019	200.00
8546 - Mckay's	D19/46970	SAFETY SHOES JOHN MCNAUGHTON 12/14/19	12/14/2019	12/31/2019	179.90
270 - Metropolitan Life Insurance Co	D20/JANUARY2020	JANAURY 2020 LIFE INS & AD&D	12/13/2019	01/09/2020	1,445.23
1216 - Modern Disposal Services Inc	D19/2773925	SLUDGE DISPOSAL 12/9-12/14/19	12/15/2019	12/31/2019	35,829.75
1216 - Modern Disposal Services Inc	D19/277477	SLUDGE REMOVAL 12/16-12/21/19	12/22/2019	12/31/2019	28,992.79
3749 - Morgan Services Inc	D19/102259110249	WWTP UNIFORMS	12/23/2019	12/31/2019	313.00
3749 - Morgan Services Inc	D19/1023035	WWTP MATS BIWEEKLY REPLACEMENTS	12/24/2019	12/31/2019	117.60
3749 - Morgan Services Inc	D19/102589102493	WTP UNIFORMS	12/23/2019	12/31/2019	63.26
874 - MORRISON RALYNN	D20/AMAZON010720	SAFETY SHOES 2020	01/07/2020	01/13/2020	109.17
452 - National Fuel Gas Distribution Corp	D19/111219-12171	LIFT STATION 11/6-12/11/19	12/13/2019	12/31/2019	167.03
11026 - Niagara County - DPW	D19/NOV2019GAS	NOVEMBER 2019 DPW NAT GAS	12/26/2019	12/31/2019	3,871.20
11026 - Niagara County - DPW	D19/NOVEMBER2019	DPW ELECTRIC	12/26/2019	12/31/2019	2,765.80
4543 - Niagara Falls Water Board - Water Billing	D19/4THQTRW/S19	4TH QTR REIMBURSE W/S USAGE 9/4-12/3/19	01/01/2020	12/31/2019	293,442.13
4543 - Niagara Falls Water Board - Water Billing	D19/4THWTRW/S	4TH QTR REIMBURSEMENT W/S 9/3-12/2/19	01/01/2020	12/31/2019	1,668.70
1312 - Niagara Fire Extinguisher	D19/35071	ANNUAL INSPECTION PORTABLE EXT	12/11/2019	12/31/2019	414.75
849 - NOVA Healthcare	D20/01012797	JANUARY 2020 DENTAL ADMIN	01/07/2020	01/09/2020	1,039.60
1358 - Occupational Health Care	D20/5679-00	D/A TESTING 4 EMPLOYEES	01/02/2020	01/09/2020	312.00
560 - Payne's Carpet Outlet	D19/101381	INSTALL SHAW COMMERCIAL CARPET 2 ROOMS AT WWTP	12/16/2019	12/31/2019	2,340.00
13264 - Pitney-Bowes Global Finacial Services LLC	D19/1014514799	PITNEY BOWES LEASE 10/1-12/31/19	12/11/2019	12/31/2019	101.25
11079 - Praxair Distribution Inc	D19/INV89517807	GAS CYLINDERS	05/22/2019	12/31/2019	877.13
818 - PREFERRED MATERIALS LLC	d19/4168	CR STONE	12/16/2019	12/31/2019	634.00
736 - PUBLIC EMPLOYERS RISK	D20/COV001809	WORKERS COMP INS INSTALLMENT 7 OF	01/01/2020	01/13/2020	34,213.00

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Accounts Payable Payment Edit Listing

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MANAGEMENT ASSOCIATION INC	11		
12262 - Purchase Power	D19/1205272019	POSTAGE REFILL 12/5/19 12/31/19	12/27/2019 12/31/2019 1,000.00
13125 - PVS Technologies Inc	19913/263898++	Ferric Chloride	12/11/2019 12/31/2019 10,393.24
13125 - PVS Technologies Inc	D19/264204	FERRIC CHLORIDE SOLUTION	12/18/2019 12/31/2019 5,266.32
13125 - PVS Technologies Inc	D19/264341	FERRIC CHLORIDE SOLUTION	12/23/2019 12/31/2019 5,143.71
838 - QUACKENBUSH CO INC	D19/01739673	NFWB NO HEAR FROM OPS FURNACE	11/26/2019 12/31/2019 353.16
838 - QUACKENBUSH CO INC	D19/01839673	NFWB NO HEAT IN FRONT OFFICE	12/17/2019 12/31/2019 1,677.51
838 - QUACKENBUSH CO INC	D19/01939673	NFWB NO HEAT IN MAINT GARAGE	12/18/2019 12/31/2019 2,887.91
7472 - Rich's Custom Covers & Canvas	D19/30683-02	SAFETY SHOES N KINDZIA 11/7/19	11/07/2019 12/31/2019 5.01
7472 - Rich's Custom Covers & Canvas	D19/3103931081	CARHARTT JACKETS CASTILE SMITH	12/18/2019 12/31/2019 72.80
7472 - Rich's Custom Covers & Canvas	d19/31040	SAFETY SHOES DOUG CASTILE 12/10/19	12/10/2019 12/31/2019 170.99
7472 - Rich's Custom Covers & Canvas	D19/31041	SAFETY SHOES LOU FRATELLO 12/13/19	12/13/2019 12/31/2019 188.99
7472 - Rich's Custom Covers & Canvas	D19/31042	SAFETY SHOES FRED DERUBEIS 12/13/19	12/13/2019 12/31/2019 170.99
7472 - Rich's Custom Covers & Canvas	D19/31082	SAFETY SHOES ARTEZ HOUSTON 12/20/19	12/20/2019 12/31/2019 179.99
7472 - Rich's Custom Covers & Canvas	D19/31122	SAFETY SHOES JOHN KOURY 12/24/19	12/24/2019 12/31/2019 188.99
7472 - Rich's Custom Covers & Canvas	D19/31123	JAMES JOYCE SAFETY SHOES 12/26/19	12/26/2019 12/31/2019 179.00
7472 - Rich's Custom Covers & Canvas	D19/31124	SAFETY SHOES ERIC SMITH 12/23/19	12/23/2019 12/31/2019 171.00
7472 - Rich's Custom Covers & Canvas	D19/31125	SAFETY SHOES ALEX HAILEY 12/23/19	12/23/2019 12/31/2019 188.99
7472 - Rich's Custom Covers & Canvas	D19/31126	SAFETY SHOES DENNIS KIRKLAND 12/23/19	12/23/2019 12/31/2019 200.00
1134 - Riverside Condo Assn	d19/settlement	NOTICE OF CLAIM FILED 5/1/19 FOR DAMAGE TO ELEC CONNECTION	12/16/2019 12/31/2019 1,459.00
1131 - Rolfe Industries Inc.	19935/1043504-01	Repair of Vac Con Water Pump	12/03/2019 12/31/2019 2,086.18
737 - RUPPE, BAASE, PFALZGRAF,CUNNINGHAM	D19/210044	PROF SVCS IN RE SALERNO DEC 2019	12/26/2019 12/31/2019 2,757.77
737 - RUPPE, BAASE, PFALZGRAF,CUNNINGHAM	D19/210045	PROF SVCS IN RE BECK VS CITY OF NF & NFWB DEC 2019	12/26/2019 12/31/2019 250.00
737 - RUPPE, BAASE, PFALZGRAF,CUNNINGHAM	D19/210128	PROF SVCS IN RE ENVIRONMENTAL MATTERS DEC 2019	12/26/2019 12/31/2019 6,331.87
754 - Sigma-Aldrich	D19/3023974933	MISC CHEMICALS	11/08/2019 12/31/2019 341.97
12322 - Solvay Chemicals	19889/6111077806	BLANKET FOR FLUORIDE	12/20/2019 12/31/2019 7,934.68
333 - SPECTRUM BUSINESS	D19/DECEMBER2019	SVC PERIOD 12/18/19-1/17/20	12/19/2019 12/31/2019 69.99
967 - Timothy R. Lockhart	D19/DECEMBER2019	D19/DECEMBER2019	12/30/2019 12/31/2019 420.00
1656 - Trane Service Of Western NY	19938/41195+	heat	05/07/2018 12/31/2019 1,639.20
550 - USALCO ASHTSBULA PLANT LLC	D19/1360284	DELPAC 2000	12/31/2019 12/31/2019 5,971.24
1130 - USI Insurance Services LLC	D20/INV3105037	COMM PKG 2 OF 2 INSTALLMENTS 10/18/19-10/18/20	01/02/2020 01/13/2020 140,981.00
1130 - USI Insurance Services LLC	D20/INV3105038	COMM UMBRELLA 2 OF 2 INSTALLMENTS	01/02/2020 01/13/2020 23,028.00
1130 - USI Insurance Services LLC	D20/INV3105039	PROF LIAB 2 OF 2 INSTALLMENTS 10/18/19-10/18/20	01/02/2020 01/13/2020 21,282.00
453 - VERIZON	D20/JAN2020A	MONTHLY SVC 12/22-1/21/20	12/21/2019 01/13/2020 267.15

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Batch Department / Invoice Department	Bank Account		Check Date	Starting Check Number
453 - VERIZON	D20/JAN2020B	PHONE SVC 12/25/19-1/24/20	12/24/2019	01/13/2020
453 - VERIZON	D20/JAN2020C	SVC PERIOD 12/28/19-1/27/20	12/27/2019	01/13/2020
332 - Villani's Lawn & Landscape	D19/10192	ROCK SALT	12/31/2019	12/31/2019
1700 - VWR Scientific	19733/8087975191	lab supplies	10/15/2019	12/31/2019
1700 - VWR Scientific	19798/8088118488	lab supplies	10/28/2019	12/31/2019
1700 - VWR Scientific	19811/8088009621	Blanket Order for Lab Supplies	10/17/2019	12/31/2019
1700 - VWR Scientific	19858/8088525766	lab supplies	12/06/2019	12/31/2019
1700 - VWR Scientific	19915/8088315044	Blanket Order for Lab Supplies	11/14/2019	12/31/2019
1700 - VWR Scientific	19946/8088581218	Blanket for Lab Supplies	12/12/2019	12/31/2019
1700 - VWR Scientific	D19/8088132016++	LAB CHEMICALS	10/29/2019	12/31/2019
1081 - Windstream Enterprise	D20/72127300	WTP MONTHLY SVC JAN 2020	01/01/2020	01/13/2020
1081 - Windstream Enterprise	D20/72134717	WWTP MONTHLY SVC JAN 2020	01/01/2020	01/13/2020
Total Selected Invoices: 105				\$1,725,838.83

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Batch Department / Invoice Department		Bank Account		Check Date		Starting Check Number
8310.0001 Water,Administration		N.F.W.B. Expense Fund		01/27/2020		4792
Selected Invoices	Vendor	Invoice Number	Invoice Description	Invoice Date	Due Date	Invoice Net Amount
8310.0001 Water,Administration						
	588 - Advance2000 Inc	D19/ADVQ43558	MICROSOFT PROJECT ONLINE PROF LICENSE RENEWAL 8/30/19-8/29/20	12/12/2019	12/31/2019	1,800.00
	588 - Advance2000 Inc	D19/ARP100233	OFFICE 365 MONTHLY SOFTWARE/SVC PLAN DEC 2019	10/01/2019	12/31/2019	1,470.00
	588 - Advance2000 Inc	D19/INV038525	OFFICE 365 MONTHLY SOFTWARE LICENSE/SVC PLAN 10/21/19-10/31/19	10/23/2019	12/31/2019	70.60
	588 - Advance2000 Inc	D20/ARP100428	OFFICE 365 JANUARY 2020	01/01/2020	01/24/2020	1,470.00
	588 - Advance2000 Inc	D20/INV039613	REMOTE SVC 1/8/20	01/15/2020	01/24/2020	31.25
	2012 - Apollo Steel Corp	20058/5747	Price for a ¾"x54"x54" plate with a 24" diameter hole in the mid	01/15/2020	01/24/2020	1,200.00
	7679 - AT&T	D20/1171801588	ONENET SVC 1/1-1/31/20	01/01/2020	01/24/2020	34.28
	55 - Capital Market Advisors LLC	d19/253	CONTINUING DISCLOSURE FILING WITH MSRBS MARKET ACCESS SYS	10/03/2019	12/31/2019	1,750.00
	643 - City Electric Company Inc (Cooper Electric)	20003/S039302195	supplys	01/07/2020	01/24/2020	50.09
	997 - ComputerSearch	D19/18601	DECEMBER 2019 AOD BILLING CYCLE AND RENTAL	01/01/2020	12/31/2019	657.75
	797 - Dival Safety Equipment Inc	20018/2703545	Head Lamps	01/07/2020	01/24/2020	183.36
	798 - Dobmeier Janitor Supply Inc	20001/800798	Hand soap	01/06/2020	01/24/2020	254.80
	1025 - Eagle Safety Eyewear	D19/11713652	SAFETY GLASSES B PEROTTI 12/1/19	12/11/2019	12/31/2019	63.00
	690 - Five Star Equipment Inc	D19/W04681W04571	BACKHOE 2000 HR SVC AND HYD POWER COMPLAINT	10/28/2019	12/31/2019	3,394.81
	8686 - Genuine Parts/Napa Co	20031/1689004381	Auto parts	01/10/2020	01/24/2020	329.30
	8686 - Genuine Parts/Napa Co	20031/1689005247	Auto parts	01/15/2020	01/24/2020	5.59
	12619 - GHD Consulting Services Inc	D19/76590	TASK ORDER SVCS WWTP GRADE 4 SVC THRU 11/30/19	12/16/2019	12/31/2019	12,180.00
	960 - Grainger Inc	20022/9403638472	Hazardous Location Mounting Box Ceiling	01/08/2020	01/24/2020	105.46
	960 - Grainger Inc	20026/9403638464	Cleaning equipment	01/08/2020	01/24/2020	108.45
	960 - Grainger Inc	20038/9405813263	toilet seats and brooms	01/09/2020	01/24/2020	100.80
	960 - Grainger Inc	20072/9414749334	valve	01/17/2020	01/24/2020	39.54
	1141 - Haden M. Jurecki	D20/TL01202020	SAFETY SHOES 2020	01/20/2020	01/24/2020	151.19
	2246 - Halleens	20004/0000771	2 Trailers for shoring.	01/06/2020	01/24/2020	5,107.98
	2246 - Halleens	20061/832	Western plow pin for 808	01/15/2020	01/24/2020	18.99
	935 - James S. Barron Consulting Engineers PC	D20/20-1514.01	HOSTING FARO LASER SCAN PROJECT 3D LINKED TO COMM	01/02/2020	01/24/2020	1,920.00
	1068 - Jones Chemicals Inc	20039/810998	BLANKET FOR CHLORINE	01/15/2020	01/24/2020	7,335.00

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Niagara Falls Water Board

Accounts Payable Payment Edit Listing

Batch Department / Invoice Department	Bank Account		Check Date	Starting Check Number	
1104 - Lafayette Machine Corp	20033/20767	make and thread 1"-14 thread O.D. ¾"-16 thread I.D. S. S. reduce	01/17/2020	01/24/2020	240.00
1140 - Lock City Supply Company	20049/130908	Safety End Caps for PVC Piping	01/13/2020	01/24/2020	65.21
1140 - Lock City Supply Company	2020/130820	Flare tool 3/4" and 1"	01/08/2020	01/24/2020	71.22
974 - Losi & Gangi, PLLC	D19/DECEMBER2019	LEGAL REP OF J LAGAMBA DEC 2019 GRAND JURY INVEST	01/02/2020	12/31/2019	687.50
991 - Michael Liable	D20/LICENSERECER	8 HR LICENSE RECERTIFICATION CLASS REIMBURSEMENT	01/15/2020	01/24/2020	65.00
1216 - Modern Disposal Services Inc	20071/2842863+	Sludge Disposal	01/01/2020	01/24/2020	91,650.75
452 - National Fuel Gas Distribution Corp	D19/112619-10220	WWTP MAINT GARAGE HEAT 11/26-1/2/20	01/06/2020	12/31/2019	1,712.09
452 - National Fuel Gas Distribution Corp	D20/121120190110	LIFT STATION 12/11/19-1/10/20	01/16/2020	01/24/2020	45.19
452 - National Fuel Gas Distribution Corp	d20/121819-11420	GAS SVC 8643 GRIFFON AVE 12/18/19-1/14/20	01/16/2020	01/24/2020	107.32
1088 - New York Power Authority - WWTP Improvement	D20/01012020	LOAN PAYMENT	01/16/2020	01/24/2020	20,874.40
1001 - Niagara Controls LLC	20064/19431	pressure gauge	01/22/2020	01/24/2020	50.75
11026 - Niagara County - DPW	D19/DEC2019GAS	DEC 2019 DPW NAT GAS	12/31/2019	12/31/2019	2,506.23
11026 - Niagara County - DPW	D19/DECEMBER2019	DPW ELECTRIC DEC 2019	12/31/2019	12/31/2019	2,861.25
1331 - Niagara Supply Corp	20032/1-8136	Misc construction items	01/21/2020	01/24/2020	263.76
10971 - NY Power Authority	D19/1000049483	DEC 2019 ELEC SVC	01/15/2020	12/31/2019	69,097.19
1281 - NYS Dept Of Labor	D20/04-65415	4Q19 UNEMPLOYMENT INS	01/02/2020	01/24/2020	12,665.18
577 - OCCUPATIONAL HEALTH CLINIC	D20/3353EAGLERII	FIRST AID M EAGLER II SLIP AND FALL 12/18/19	01/16/2020	01/24/2020	88.04
990 - Olin Chlor Alkall Corporation	D19/DEC2019	DECEMBER 2019 SODIUM HYPOCHLORITE & CREDIT	12/31/2019	12/31/2019	230,633.60
1089 - PPG Architerctural Finishes, Inc	20005/8229030549	paint and supplies	01/15/2020	01/24/2020	499.99
736 - PUBLIC EMPLOYERS RISK MANAGEMENT ASSOCIATION INC	D20/CPV001811	WORKERS COMP INS INSTALL 8 OF 11	02/01/2020	01/24/2020	34,213.00
13125 - PVS Technologies Inc	20068/264744	Ferric Chloride	01/02/2020	01/24/2020	10,717.53
13125 - PVS Technologies Inc	D19/264565	FERRIC CHLORIDE SOLUTION	12/30/2019	12/31/2019	5,122.98
4800 - Restek Corp	20014/CD50060313	lab supplies	01/14/2020	01/24/2020	214.33
234 - Richardson Auto Repair	20023/58166	white dump 120 oil change	01/03/2020	01/24/2020	115.43
234 - Richardson Auto Repair	20047/58208	Oil Change #116	01/07/2020	01/24/2020	70.15
567 - SPECTRUM ENTERPRISE	D20/JAN2020J	SVC PERIOD 1/1-1/31/20	01/03/2020	01/24/2020	699.95
890 - SUE ANN SIMONIN COURT REPORTING, INC SUE ANN SIMONIN	D19/46931	VAILS VS CITY OF NF 11/6/19	01/01/2020	12/31/2019	617.75
890 - SUE ANN SIMONIN COURT REPORTING, INC SUE ANN SIMONIN	D19/47007	LAPP VS CITY OF NF 11/13/19	01/16/2020	12/31/2019	541.95
944 - The Martin Group LLC	D19/025075-0000	PR SERVICES DEC 2019	12/31/2019	12/31/2019	187.50
453 - VERIZON	D20/JAN2020D	TELEPHONE SVC 1/7-2/6/20	01/06/2020	01/24/2020	425.59
453 - VERIZON	D20/JAN2020E	MONTHLY SVC 1/10-2/9/20	01/09/2020	01/24/2020	684.26

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Niagara Falls Water Board

Accounts Payable Payment Edit Listing

Batch Department / Invoice Department	Bank Account	Check Date	Starting Check Number
1356 - Verizon Wireless	D19/9843892910	WIRELESS 11/10-12/10/19	12/10/2019 12/31/2019 2,000.98
1356 - Verizon Wireless	D19/9845970879	WIRELESS 12/11/19-1/10/20	01/10/2020 12/31/2019 1,912.70
523 - Verizon-Talk One	D19/9843342652	PHONE SYSTEM AND TAB S4 11/1-12/1/19	12/01/2019 12/31/2019 4,380.26
523 - Verizon-Talk One	D19/9845421741	PHONE SYSTEM AND TAB S4 12/2-1/1/20	01/01/2020 12/31/2019 4,342.13
397 - WNY Stormwater Coalition	D20/2020MEMBERSH	WNY STORMWATER COALITION 2020	01/06/2020 01/24/2020 1,800.00
		NFWB MEMBERSHIP	
6843 - WNY Water Works Conference	D20/FEB122020CON	WORKSHOP REG & DUES 2/12/20	01/22/2020 01/24/2020 430.00
Total Selected Invoices: 63			\$542,493.40

FY 2020 NFWB PAYROLL-BASED OVERTIME LOG
(All Departments)

PAYROLL#	PAYROLL RANGE	PAY DATE	TOTAL HOURS WORKED	GROSS OT	MONTHLY TOTAL	*BUDGETED AMOUNT	DIFF	OVER/UNDER	
2020-01	12/15/19 - 12/28/19	1/3/2020	119.5	\$4,002.07					
2020-02	12/29/19 - 01/11/20	1/17/2020	317.5	\$10,668.56					
2020-03	01/12/20 - 01/25/20	1/31/2020	460	\$15,747.57					
					\$30,418.20	\$35,580.00	\$5,161.80	-16.9	
2020-04	01/26/20- 02/08/20	2/14/2020	200.75	\$6,882.83					
2020-05									
2020-06									
2020-07									
2020-08									
2020-09									
2020-10									
2020-11									
2020-12									
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2020-20									
2020-21									
2020-22									
2020-23									
2020-24									
2020-25									
2020-26									
*Annual budgeted amount of \$426,960 divided by 12									

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of Water Resources, Deputy Commissioner
625 Broadway, 14th Floor, Albany, New York 12233-1010
P: (518) 402-2794 | F: (518) 402-8541
www.dec.ny.gov

June 12, 2019

Daniel T. O'Callaghan
Chairman
Niagara Falls Water Board
5815 Buffalo Avenue
Niagara Falls, New York 14304

Dear Mr. O'Callaghan:

As you are aware, Falls Street Tunnel Combined Sewer Outfall 003 discharges to the Niagara River Gorge shoreline at the base of Niagara Falls, one of the world's great natural wonders and a top tourist destination in New York State. Combined sewer overflows at this location create an unpleasant and economically damaging situation, which is unacceptable to DEC. In fact, an eddy current draws this discolored discharge upstream toward the falls and can unpleasantly affect the docking site for the famous Maid of the Mist touring ship.

DEC has approved the Niagara Falls Water Board's (NFWB) proposal to relocate Outfall 003 from the Falls Street Tunnel to the Gorge Pump Station (Alternative 4 from NFWB's response to Item 14 of Order on Consent R9-20170906-129). This approach constitutes a very cost-effective solution. DEC also approves funding half of this project from Phase II of the DASNY grants awarded to NFWB last year. The cost is estimated to be \$1.7M, of which approximately \$850,000 would be funded from Phase II of the DASNY grants.

The Water Board's failure to alleviate substantial and well documented adverse impacts created by the discharge of combined sewer overflows at this location of local, state, and national significance will require DEC to reassess the priorities outlined in the Order on Consent, Niagara Fall's combined sewer overflow program, and current and pending permits. The State has allocated a significant amount of funding to eliminate this unacceptable situation and it is DEC's expectation that the NFWB will use available funding to implement this project.



Department of
Environmental
Conservation

Please do not hesitate to contact me if you have any questions or would like to discuss this matter further.

Sincerely,

A handwritten signature in blue ink that reads "James M. Tierney". The signature is fluid and cursive, with the first name "James" and last name "Tierney" clearly legible, and a middle initial "M." in between.

James M. Tierney
Deputy Commissioner
Office of Water Resources

cc: John Kolaga, Esq.
Maureen Brady, Esq.
Christopher LaLone, P.E.
Jeffrey Konsella, P.E.
Robert Locey, P.E.

**SEQR REVIEW AND CLASSIFICATION FOR
OUTFALL 003 REDIRECTION PROJECT**

WHEREAS, the Niagara Falls Water Board (“Water Board”) has received approval from the New York State Department of Environmental Conservation (“NYSDEC”) to redirect combined sewer overflows from Falls Street Tunnel Combined Sewer Outfall 003 to the Gorge Pump Station (the “Project”); and

WHEREAS, the Project, when complete, will redirect most combined sewer overflows from Outfall 003, a location that is highly visible to visitors to Niagara Falls because of an eddy current that also draws the overflows upstream toward the Maid of the Mist’s docks; and

WHEREAS, the proposed Project involves minor modifications to existing structures and will not increase combined sewer overflows, just redirecting them from one location to another with less aesthetic impact; and

WHEREAS, pursuant to the requirements of the State Environmental Quality Review Act (“SEQR”), the Water Board must consider pursuant to criteria set forth in SEQR the environmental implications of the Project; and

WHEREAS, certain actions are classified under SEQR as Type II actions; and

WHEREAS, Type II actions are those actions, or classes of actions, which have been found categorically not to have significant adverse impacts on the environment, or actions that have been statutorily exempted from SEQR review, and Type II actions do not require preparation of an Environmental Assessment Form, a negative or positive declaration, or an Environmental Impact Statement; and

WHEREAS, Type II actions do not require any further SEQR review; and

WHEREAS, the Water Board has considered under SEQR the Project described above, and finds that pursuant to 6 NYCRR Section 617.5 (c) (1) and 617.5(c) (2), the Project is a Type II action because it involves “maintenance or repair involving no substantial changes in an existing structure or facility” or “. . . replacement, rehabilitation or reconstruction of a structure or facility, in kind, on the same site, including upgrading buildings to meet building or fire codes, unless such action meets or exceeds any of the thresholds in section 617.4 of this Part,” requiring no further review by the NFWB; and

WHEREAS, the NYSDEC has approved of the Project, and has advised the Water Board that it agrees the Project is a Type II action under SEQR;

* CONTINUED ON NEXT PAGE *

NOW THEREFORE BE IT

RESOLVED, that the Project to redirect combined sewer overflows from Falls Street Tunnel Combined Sewer Outfall 003 to the Gorge Pump Station is determined to be a SEQR Type II Action as defined under said regulation and does not require an environmental impact statement or any other determination or procedure.

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

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

On February 24, 2020, 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 Brown	[]	[]	[]	[]
Board Member Forster	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Acting Chair Kimble	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Renae Kimble, Acting Chairperson

Sean W. Costello, Secretary to Board



January 14, 2020

Reference No. 11194110

Robert L. Locey, PE
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

**Re: Niagara Falls Water Board
Falls Street Tunnel Outfall 003 Diversion**

Dear Mr. Locey:

The Niagara Falls Water Board (NFWB) and the New York State Department of Environmental Conservation (NYSDEC) have agreed to undertake modifications within Drop Shaft Zero (DSZ) of the Falls Street Tunnel (FST) to divert wet weather combined sewer overflow (CSO) away from Outfall 003. The NFWB has decided to incorporate this work into the Gorge Pumping Station (GPS) rehabilitation project, since design is ongoing for that project and work at the GPS is necessary in order to accept this greater quantity of wet weather flow. GHD Consulting Services, Inc. (GHD) has evaluated changes to the collection system necessary to accomplish this, including SWMM modelling of the system to forecast responses to various rainfall events. This letter summarizes our evaluations and recommendations for the proposed outfall diversion.

System Configuration and Evolution

The first stretch of the FST was constructed in 1894 and spanned from the river outfall eastward to 10th Street. During the early 1900s it was sequentially extended further eastward to a location east of present-day 47th Street; at that point it connects to large-diameter sewers conveying wastewater from the LaSalle portion of the City of Niagara Falls. In 2012 a damaged and leaking section of the FST west of 47th Street was isolated from the system, effectively making Hyde Park Boulevard the new beginning of the FST. LaSalle flows were diverted into the head end of the Southside Interceptor (SSI) at 47th Street.

DSZ was not built during the original 1894 tunnel project, but was constructed later as an afterthought to consolidate outfalls from the downtown area.

The 1930s brought the construction of the city's first treatment facility, the Ashland Avenue Sewage Treatment Plant (AASTP); the companion Gorge Interceptor (GI) was built to intercept direct discharges to the river from the FST at the southern end and Garfield Avenue Tunnel at the northern end. The intercepted combined wastewater was conveyed to the AASTP. In order to construct the connection of the FST to the south branch of the GI (SGI), a bypass tunnel was built to shunt flows away from the tunnel junction area. Once the connection was made and FST flows were passing into the SGI, two diversion dams were built in the original mainline tunnel and the new bypass tunnel, creating a static regulator structure.



A flow reduction project in the 1980s significantly modified the regulator structure and its function. The mainline diversion dam remained, but the bypass channel dam was removed. A reinforced concrete bulkhead isolated the FST from the SGI. Two rectangular orifices, with a combined cross-sectional area of 5 square feet, were integrated into the bulkhead, but were left closed off with removable stainless steel plates. A Parshall Flume was installed in the bypass channel to measure dry weather groundwater infiltration and wet weather combined sewer overflow (CSO) discharging to the river. This information was transmitted to the present day treatment facility on Buffalo Avenue, where it is now recorded via a SCADA system.

Subsequent legal actions in the later 1980s required the city to cease dry weather discharges to Outfall 003. This was accomplished by removing both orifice plates, creating a partial diversion dam in the flume's upstream stop log structure, and rehabilitating the GPS. DSZ continued to function as a static regulator structure, conveying dry weather flow to the GPS and excessive wet weather CSO to the river, which is how it functions today. Attached are photographs taken during a November 2018 entry for maintenance purposes.

Wet Weather Flow Diversion Considerations

The NYSDEC Order on Consent with the NFWB (R9-20170906-129), Schedule A, Item 14, required, among other things, an evaluation of relocating Outfall 003. The resulting report recommended that the 1984 FST/SGI bulkhead at DSZ be removed and flows directed to the GPS, contingent upon an analysis of GPS overflow capacity at Outfall 006 to assure protection of the pumping station from excessive flows. It is noted that the present-day GPS uses essentially the same overflow/bypass structures used by the AASTP. However, at 19.5 million gallons per day (MGD), the rated pumping capacity of the GPS is much lower than the AASTP throughput capacity of 90 MGD.

Post-construction changes to the GPS somewhat reduced its overflow capacity. The GPS approach channel reuses AASTP structures, which include 16, 5-foot overflow weirs constructed symmetrically (8 on the north side, 8 on the south side). Overflow was originally measured at this channel, but the combined weir length of 80 feet hampered the accuracy of low flow accuracy. To correct this, a bubbler system and corresponding 14-inch-high rectangular weir was retrofitted into each of the lower overflow channels (north/south). While representing an improvement to overflow measurement accuracy, the capacity of the 60-inch-high overflow channels was reduced. Also in 2010 baffles for floatable control were installed in front of each weir as part of the CSO Long Term Control Plan (LTCP) implementation.

The capacity of the approach channel baffled weirs are listed in Table 1. Maximum capacity of the weirs at a water surface elevation of 450.5 feet is 525 MGD. This water surface elevation has a freeboard of about 6 inches below the wet well area floor elevation, but is above the approach channel walkway elevation of 449.92 feet.



Table 1 Capacity of the Baffled Weirs in the GPS Approach Channel

Water Surface Elevation (feet)	Overflow Rate (million gallons per day)	Freeboard to Wet Well Floor (inches)
450	360	12
450.5	525	6

Capacities of the two lower overflow channel flow monitoring weirs are listed in Table 2. It was assumed that under extreme conditions, the lower channels surcharge. They were modelled as a rectangular pipe (as opposed to a rectangular channel) for estimating capacity.

Table 2 Capacity of the Lower Overflow Channel Flow Monitoring Weirs

Upstream Water Surface Elevation (feet)	Flow Depth (feet)	Flow Rate per Channel (million gallons per day) ¹	Total Overflow (million gallons per day) ¹
432.5	3.0	30	60
434.5	5.0	91	182
439.5	10.0	220	440
445.0	15.5	295	590

Note: 1. Velocities exceed 10 ft/s at an elevation of 439.5 ft

Based on these results it was determined that a peak flow rate through the GPS overflow structures of 360 MGD would maintain a freeboard of 12 inches within the wet well and prevent velocity through the overflow channels from exceeding 10 feet per second. Velocities higher than this require special consideration for scour and momentum forces that were likely not considered during construction of the AASTP. Flows exceeding 360 MGD for extended periods could erode and potentially damage the channels over time.

System Modelling

Model runs were performed using the Niagara Falls LTCP SWMM model to simulate the effects of opening up the FST connection to the SGI. The model was updated to account for the 2011 North Gorge Interceptor cleaning and repair project, the 2012 FST truncation between 47th Street and Hyde Park Boulevard, and current collection system dry weather flows. The purpose of the evaluation was to determine flows in the interceptor system that could be conveyed to the GPS. These flows were compared to the predicted overflow capacity of the pumping station with the goal of identifying a feasible system reconfiguration to be used in designing the modifications at DSZ. The following connection configurations were modeled:

- Existing Conditions – The existing LTCP model DSZ link is a “multi-link” with two, 2.5-foot-wide by 1-foot-high orifices and the bypass tunnel stop log dam crest at elevation 486.43 feet and FST mainline overflow dam at 490.5 feet.



- b. Fully Open Connection at DSZ – Link was converted to a single conduit with dimensions of 6 feet by 7 feet. The bypass tunnel stop log dam and mainline dam were kept at the existing elevations.
- c. Enlarged Orifices – The cross sectional area of the individual 2.5-square-foot orifices was doubled to 5 square feet (10 square feet total). The orifices were modelled as being enlarged by cutting an additional 1 foot out of the top of the existing orifices. A stop log dam with a crest elevation of 490.5 feet was modeled at the bypass tunnel upstream of the DSZ Parshall flume to increase in-line storage in the FST; this elevation matches the existing FST mainline overflow dam crest.

These configurations were modelled under the LTCP typical year and extreme rainfall events with recurrence intervals that range from 10 to 200 years. The results of the model runs, summarized in Figure 1 and Table 3, show that overflows at the GPS exceed 360 MGD under both the existing and proposed conditions starting at a 50-year recurrence interval. This correlates with operator reports that water levels in the GPS approach channel have been above the walkway in the past. Since the 25-year recurrence storm produces flows within the targeted peak overflow capacity, we recommend using this storm as a basis for design of the DSZ modifications.

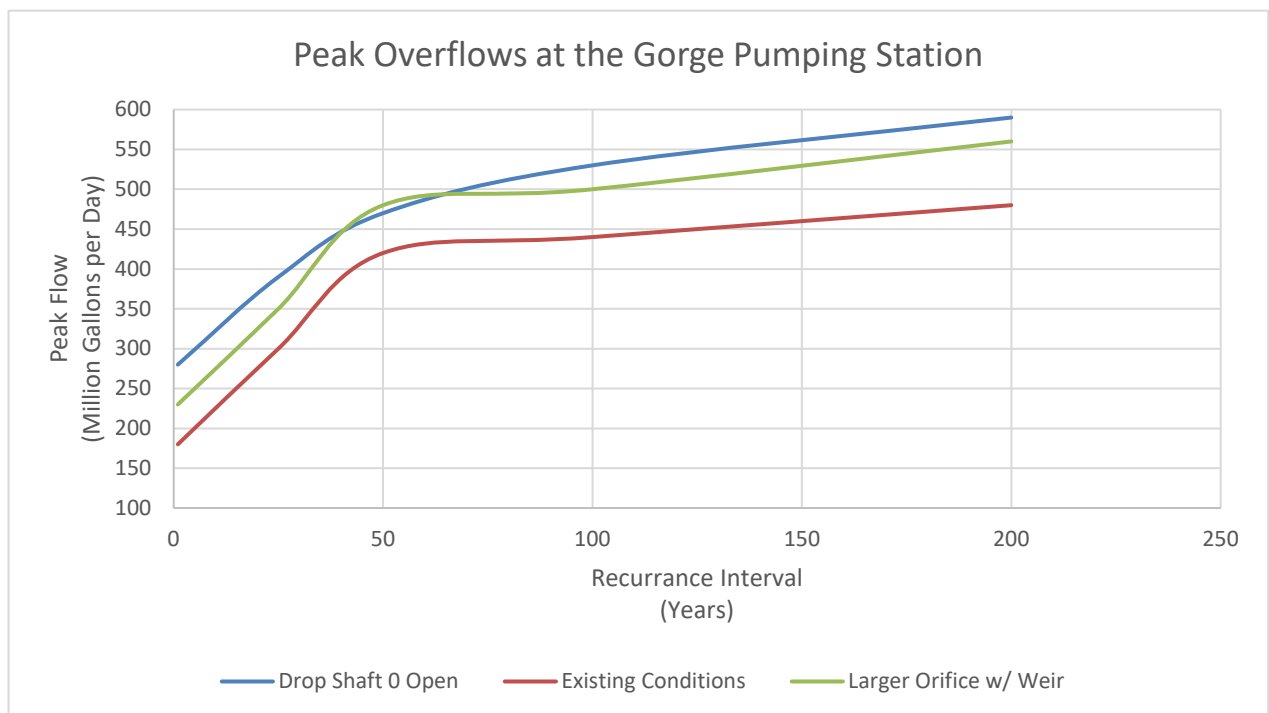


Figure 1 - Modeled Peak Overflow at the Gorge Pumping Station per Storm Interval

Enlarging the DSZ bulkhead orifices and raising the bypass tunnel stop log dam produces a peak overflow rate of 350 MGD at the GPS under the 25-year storm simulation. This peak flow could be conveyed over the approach channel overflow weirs while maintaining 12 inches of freeboard to the top of the wet well. The proposed bypass tunnel dam and existing mainline dam regulate the hydraulic grade line and flow through the orifices. Completely opening DSZ allows flow to the GPS at the capacity of the SGI tunnel, which has a Manning's capacity of approximately 180 MGD. However, the SGI can convey higher flows



when surcharged. An open DSZ bulkhead produces a peak overflow of 390 MGD at the GPS, resulting in less freeboard in the approach channel.

Table 3 Modeled Peak Overflow at the Gorge Pumping Station

Recurrence Interval	Total Rainfall (inches)	Peak GPS Overflow Existing Conditions (MGD)	Peak GPS Overflow Larger Orifices and Bypass Tunnel Dam (MGD)	Peak GPS Overflow DSZ Opened (MGD)
Peak-Typical Year	1.3	180	230	280
25-Year	3.6	300	350	390
50-Year	4.1	420	480	470
100-Year	4.8	440	500	530
200-Year	5.5	480	560	590

Conclusions and Recommendations

Prudent engineering practice would prohibit completely sealing the FST connection to Outfall 003 for total discharge cessation. The outfall continues to function as a means of combined sewer collection system relief that is necessary to protect infrastructure and property owners from extreme rainfall events that would otherwise cause backups and flooding. The storm and flooding event of July 19, 2013 is one recent example.

Our evaluation has determined that enlarging the existing orifices in the FST/SGL bulkhead would divert a large measure of additional wet weather flow from the FST to the SGL and GPS. With GPS pumping capacity (19.5 MGD) limited to the conveyance capacity of the Gorge Force Main, this would displace CSO from Outfall 003 to Outfall 006 (the GPS). By doubling the orifice areas, our modelling forecasts a reduction in Outfall 003 CSO volume discharges by 77 percent in comparison with the LTCP existing condition typical year.

This doubling of the orifice openings should be viewed as an initial setting. Installing a slotted cover over a larger opening will provide the ability to increase or decrease the orifice size, depending upon system response to actual future rain events.

We are not recommending full removal of the FST/SGL bulkhead for reasons of GPS protection. The GPS approach channel baffled overflow weirs are capable of passing more flow safely than the lower channel flow monitoring weirs under gravity flow conditions in the channels. We recommend limiting overflow rates within the channels to reduce scouring velocities and excessive head pressure on the 1937 structures except under low-recurrence interval rain events.

In addition to enlarging the bulkhead orifices, we recommend increasing the crest of the barrier in the bypass channel stop log structure to its maximum elevation, corresponding to the crest of the 1937 mainline FST diversion dam. This will prevent excess storm flows from passing to Outfall 003 until after the orifices have maximized their cross-sectional flow area at their maximum setting. This modification has the added benefit of increasing inline storage within the FST. DSZ would continue to function as a static regulator.



The above modifications will obviate the usefulness of the 1984 DSZ Parshall Flume. By increasing the stop log structure crest to the same elevation of the mainline dam crest, excess wet weather flow will commence overflowing the two crests at essentially the same time. As such, the flume will no longer be measuring CSO to the outfall; it would only capture one component of that flow and thus produce data that is no longer meaningful. The flume would not be measuring total tunnel flow, flow to the SGI and GPS, or flow to the river. In addition, the weir fall of approximately 5 feet immediately ahead of the flume approach would impair the flume head-discharge relationship and create measurement inaccuracies. The higher stop log structure crest will also complicate safely conducting dry weather flume calibrations.

The modified dam-orifice regulator configuration is designed to capture the small and medium events that presently discharge to the river. The flume typically, at present, captures the ascending leg and declining leg of those events; if the discharge remains below the 35-MGD capacity of the flume, the entire volume of the CSO event is quantified. When the flume flow exceeds this rate, the SCADA system indicates the instrument maximum of 35 MGD until flow declines into a quantifiable range.

At present, intense and heavy rainfalls can trigger flows into the FST so quickly that the ascending and descending legs at the flume can become virtually vertical, indicating a very brief period to achieve the flume maximum measured flow. After implementing the above modifications, the volume and duration of CSO to the river will decrease. However, the future events capable of exceeding the enlarged orifice capacity and initiating CSO will likely occur quickly and vigorously, increasing the likelihood of exceeding flume measurement capability with the associated loss of flow quantification.

For these reasons, we are recommending the in-place abandonment of the DSZ Parshall Flume.

To summarize, the following specific measures are recommended to achieve the diversion of CSO from Outfall 003 to the GPS and Outfall 006. Attached are preliminary drawings depicting these improvements, as well as the proposed overall rehabilitation of the GPS.

- 1) Remove trees and debris that is partially covering the south overflow channel.
- 2) Create access into both GPS lower overflow channels to remove debris that has accumulated behind each of the 14-inch weir structures.
- 3) Remove the existing damaged weir structures within the overflow channels. Replace with new structures and weir plates with a crest 8 inches above channel bottom, instead of the current 14-inch weirs, to lessen the hydraulic restriction.
- 4) Continue using the existing GPS bubbler and telemetry systems, but replace the bubbler tubing from the equipment cabinets to the vicinity of their respective weirs. Calibrate the existing system for flow monitoring at the new weir height.
- 5) Remove the 1989 timbers and poly wrap from the FST DSZ Parshall Flume stop log structure. Temporarily divert FST groundwater flow through the flume and away from the bulkhead, creating a temporary groundwater discharge at Outfall 003. This will permit safer access to the DSZ/SGI bulkhead work area.
- 6) Enlarge each of the two existing bulkhead orifices from 2.5 feet wide by 1 foot high to 2.5 feet wide by 4 feet high. Install new slotted stainless steel covers to initially close off the upper 2 feet of each



orifice. These covers would be used to adjust the openings in the future as necessary depending upon system rainfall-response.

- 7) Stop the temporary mainline groundwater diversion to Outfall 003. Install new timbers and poly wrap in the flume stop log structure up to its top, elevation 490.5 feet, conveying dry weather and wet weather flow through the enlarged orifices and creating FST inline storage.
- 8) Remove the no-longer-needed Outfall 003 sampler and bubbler instrumentation cabinets in the inspection plaza, as requested by the Niagara Falls Bridge Commission and Department of Homeland Security Customs and Border Protection.

In conclusion, we believe the proposed DSZ modifications will achieve the goal of greatly reducing the frequency and volume of CSO at Outfall 003, while simultaneously maintaining FST system relief capability for extreme events and preventing damaging wet weather flows from impacting the GPS.

We look forward to meeting with you to discuss this report and our plans for flow diversion.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Casey W. Cowan". The signature is written in a cursive, flowing style.

Casey W. Cowan, PE
Project Manager

CWC/ck/1

cc: Patrick Fama – NFWB
Doug Williamson, PE – NFWB
Robert P. Lannon Jr., PE – GHD
Filing – Correspondence



PHOTOGRAPHS



View down FST Drop Shaft Zero (facing west)



Mainline Falls Street Tunnel, (facing east from SGI bulkhead)



Mainline FST Diversion Dam (facing west from SGI bulkhead)



Stop log Structure Upstream (east) from Parshall Flume



Parshall Flume (facing west, in the direction of flow)



South Gorge Interceptor Bulkhead with Twin Orifices



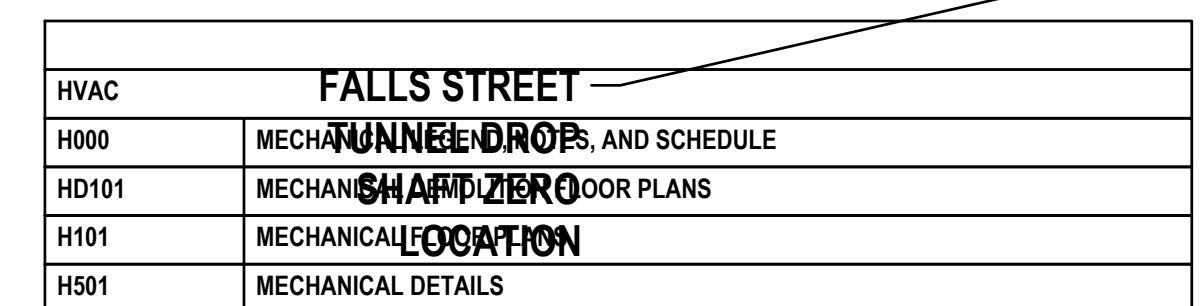
SGI Bulkhead Rectangular Orifice (east)



PRELIMINARY DRAWINGS



111-94110



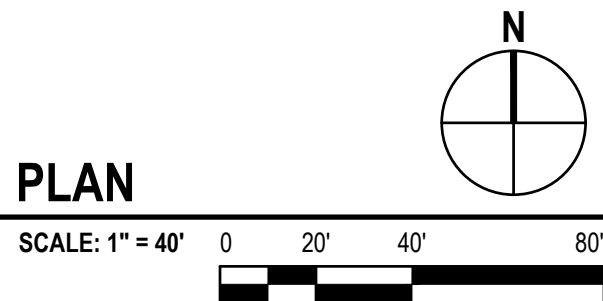
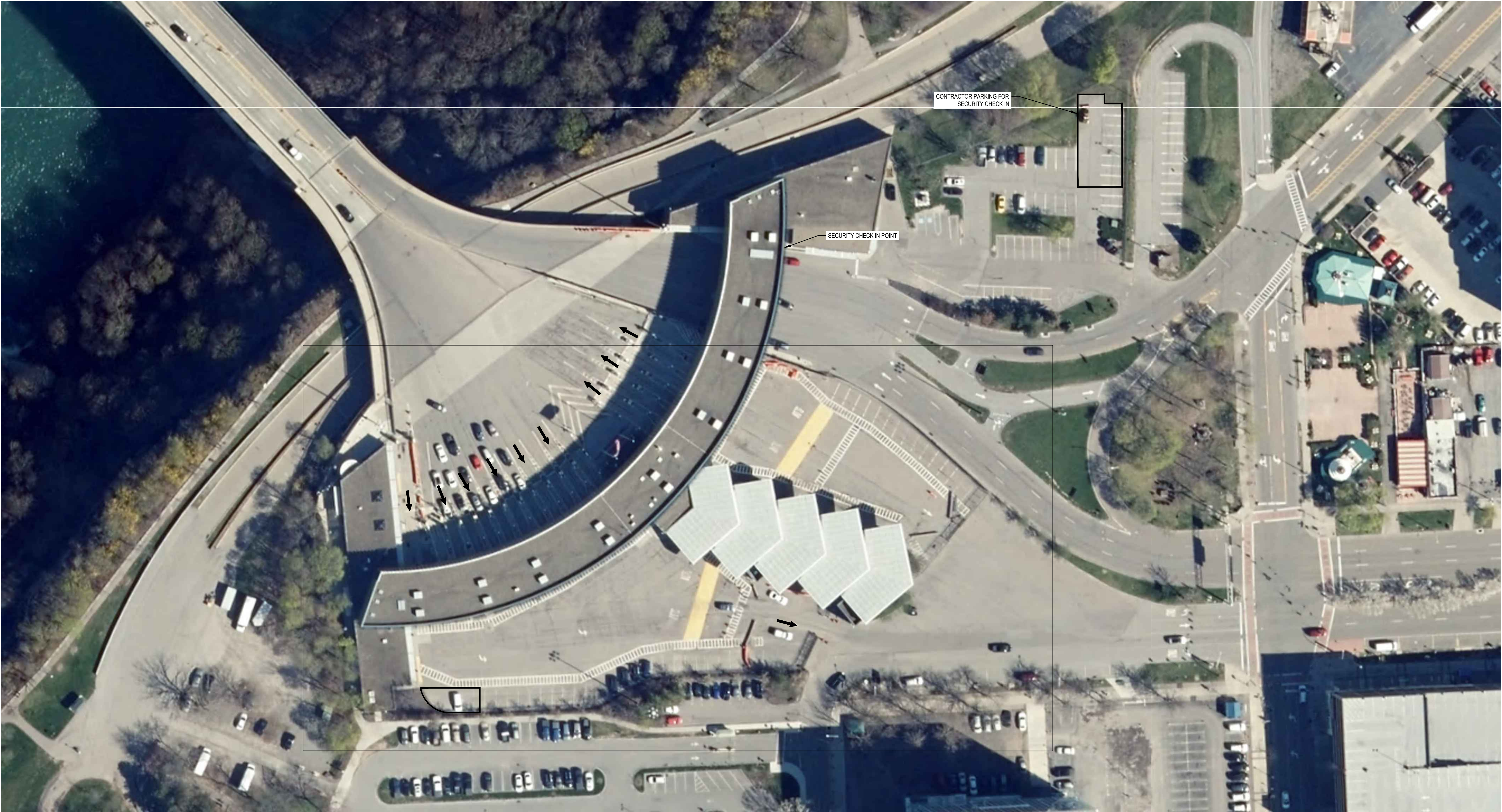
LOCATION MAP

PRELIMINARY

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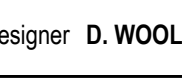


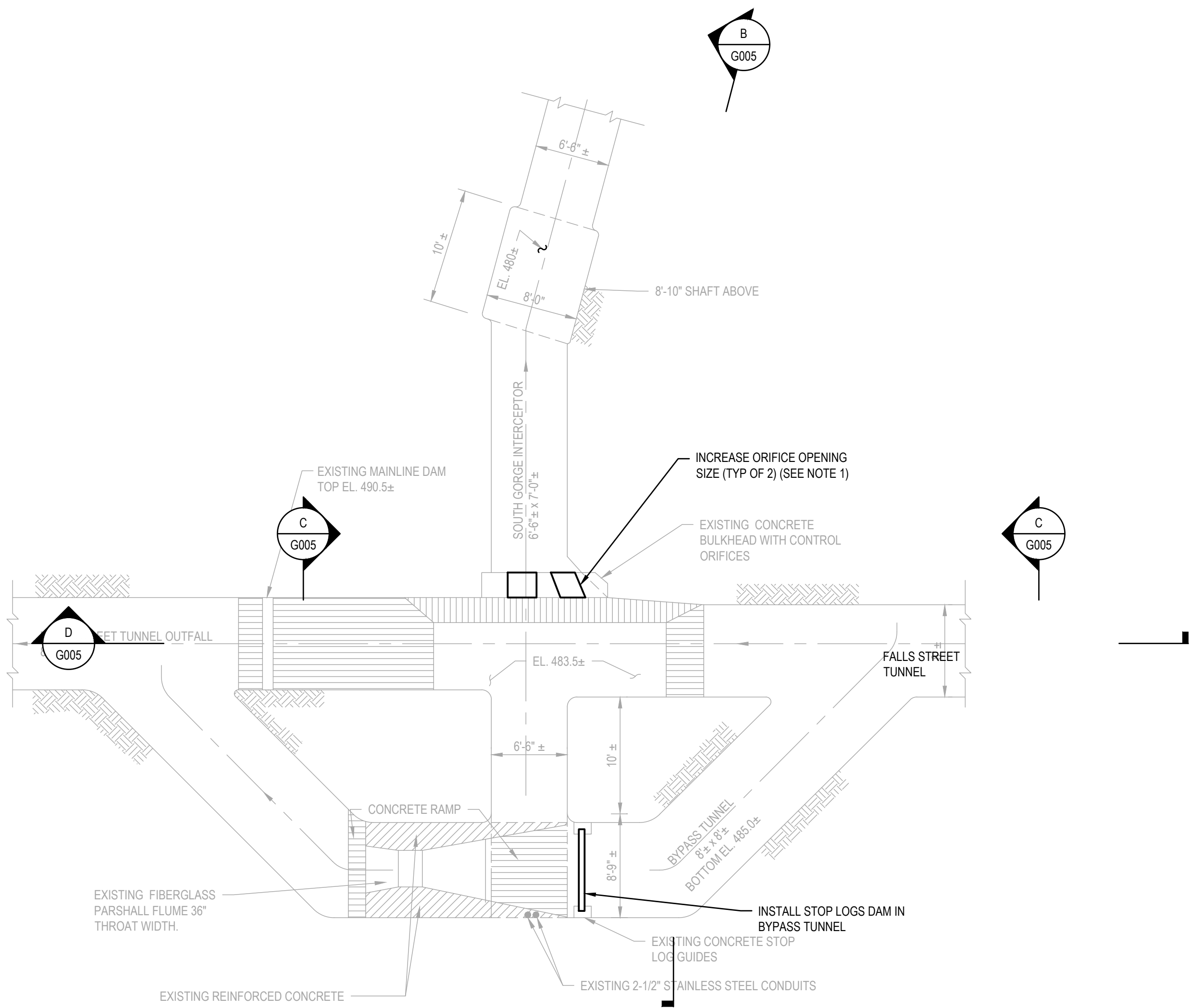
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- NOTES:**
1. ONSITE CONSTRUCTION ACTIVITY ALLOWED FROM 10/19/20 THROUGH 12/18/20.
 2. LANE 18: BUS LANE AVAILABLE FOR CONTRACTOR USE 7AM-7PM.
 3. LANE 17: AVAILABLE FOR CONTRACTOR USE UNTIL COMPLETION.
 4. LANE 16: MUST REMAIN OPEN FOR RV INSPECTION.
 5. LANE 15: MAY BE PERIODICALLY USED FOR INSTRUMENTATION CABINET ACCESS.

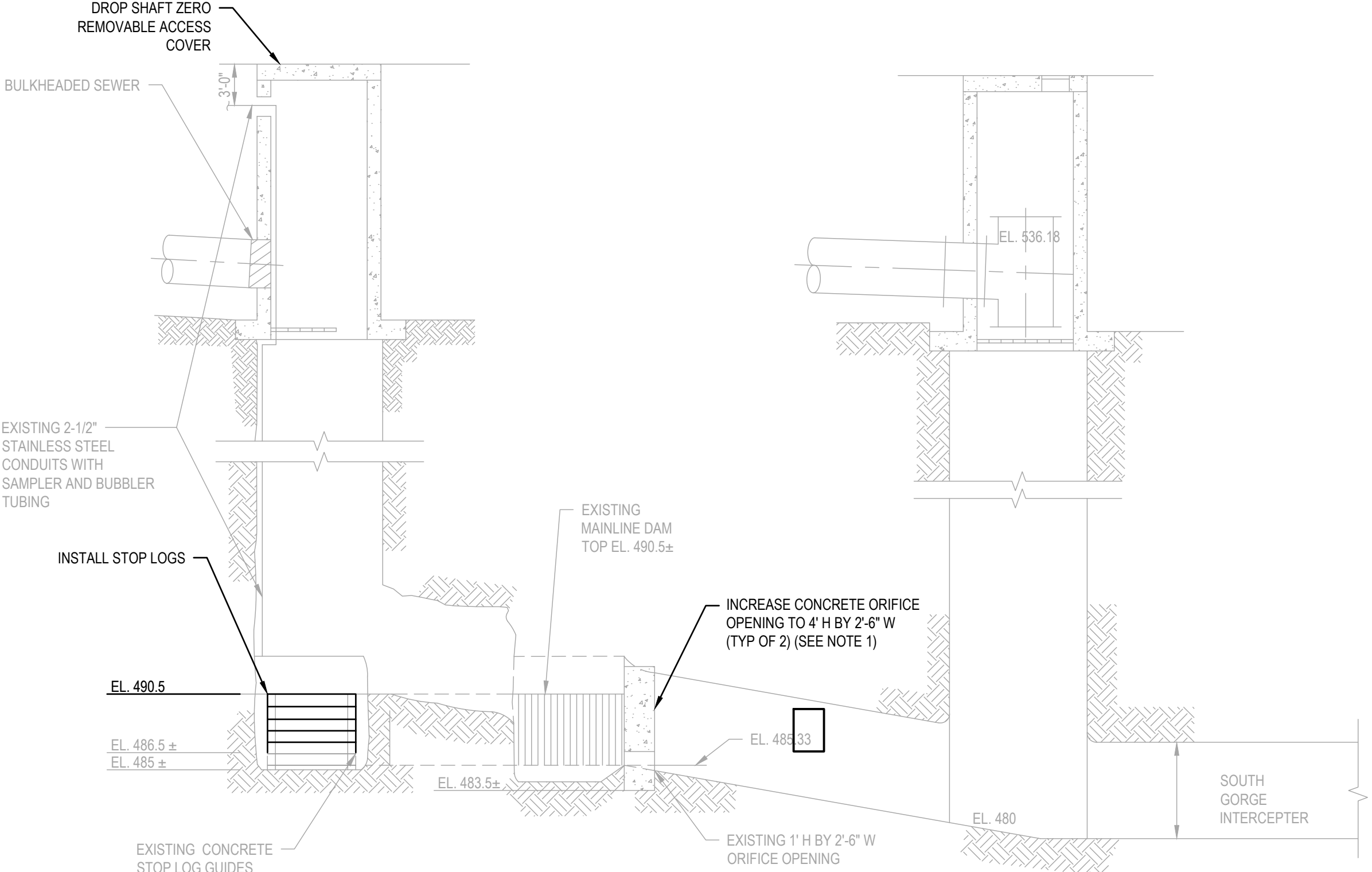
PRELIMINARY

				<div>Notes</div> <div>Underground facilities, structures, and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.</div> <div>It is violation of New York State education law for any person, unless acting under the direction of a licensed professional engineer, to alter an item on this drawing in anyway. If an item is altered, the altering engineer shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and date of such alteration and a specific description of the alteration.</div>		<div>Bar is one inch on original size sheet</div> <div>01" </div>				<div></div> <div>GHD Consulting Services Inc. 285 Delaware Avenue, Suite 500 Buffalo NY 14202 USA T 1 716 856 2142 F 1 716 856 2160 W www.ghd.com</div>		<div>Drawn J. MCCADDEN</div> <div>Designer D. WOOLLEY</div>		<div>Client NIAGARA FALLS WATER BOARD</div> <div>Project GORGE PUMP STATION REHABILITATION</div>	
C ISSUED FOR NYSDEC REVIEW				SAS RPL 1/10/20						<div>Drafting Check</div> <div>Design Check C. COWAN</div>		Title FALLS STREET TUNNEL DROP SHAFT ZERO SITE PLAN			
B ISSUED FOR 60% DESIGN REVIEW				SAS RPL 11/25/19						<div>Project Director R. LANNON</div> <div>Date JANUARY 2020</div>		Project No. 111-94110			
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No.		Issue		Drawn Approved Date											



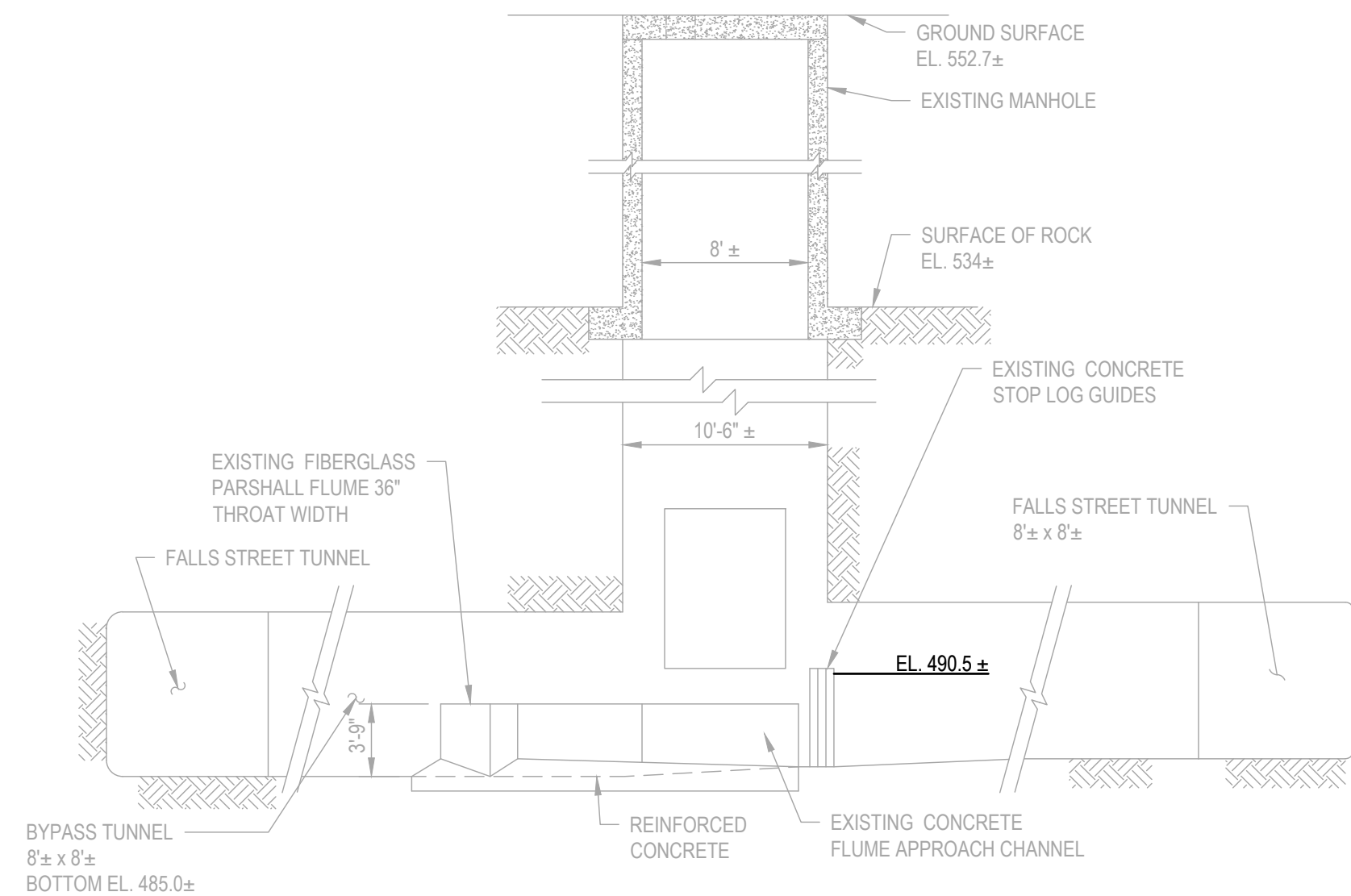
SECTIONAL PLAN

SCALE 1/8"=1'-0"



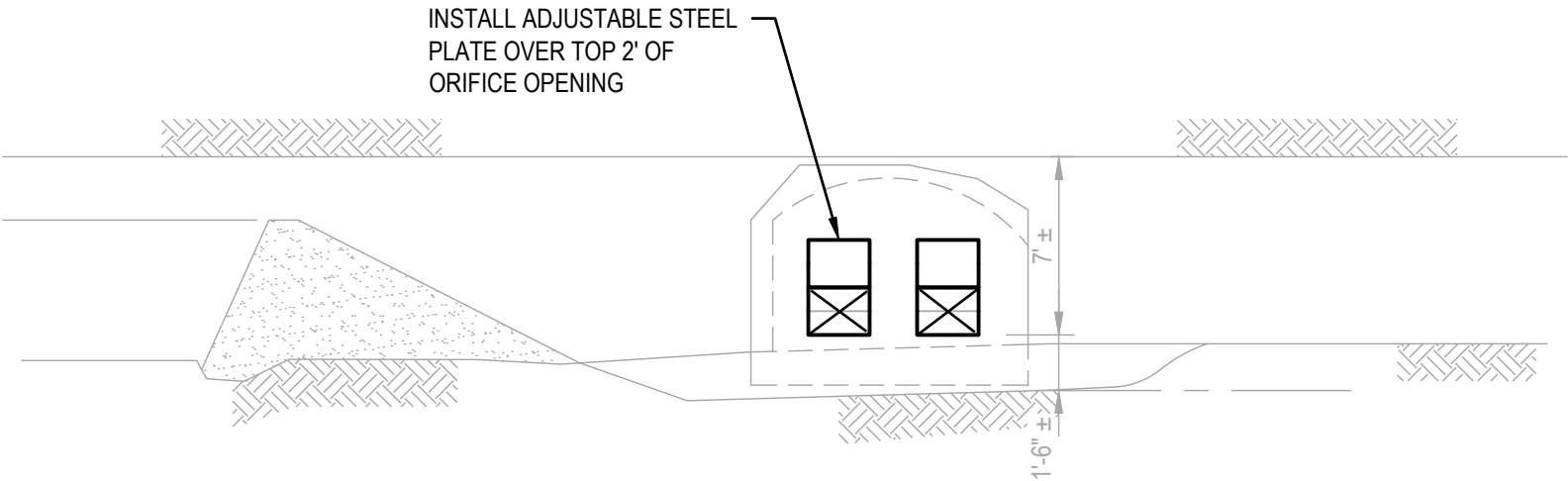
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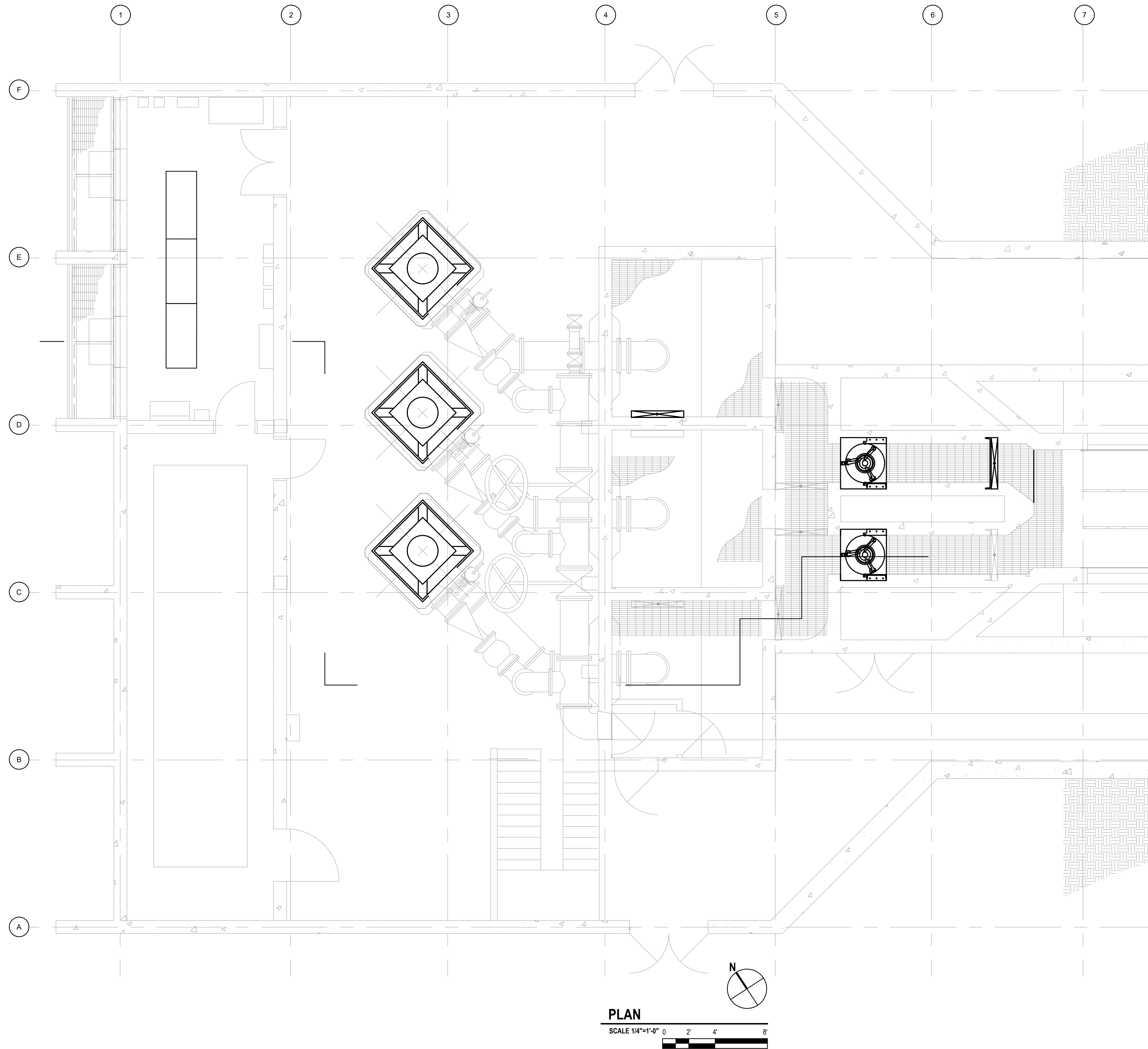


SECTION


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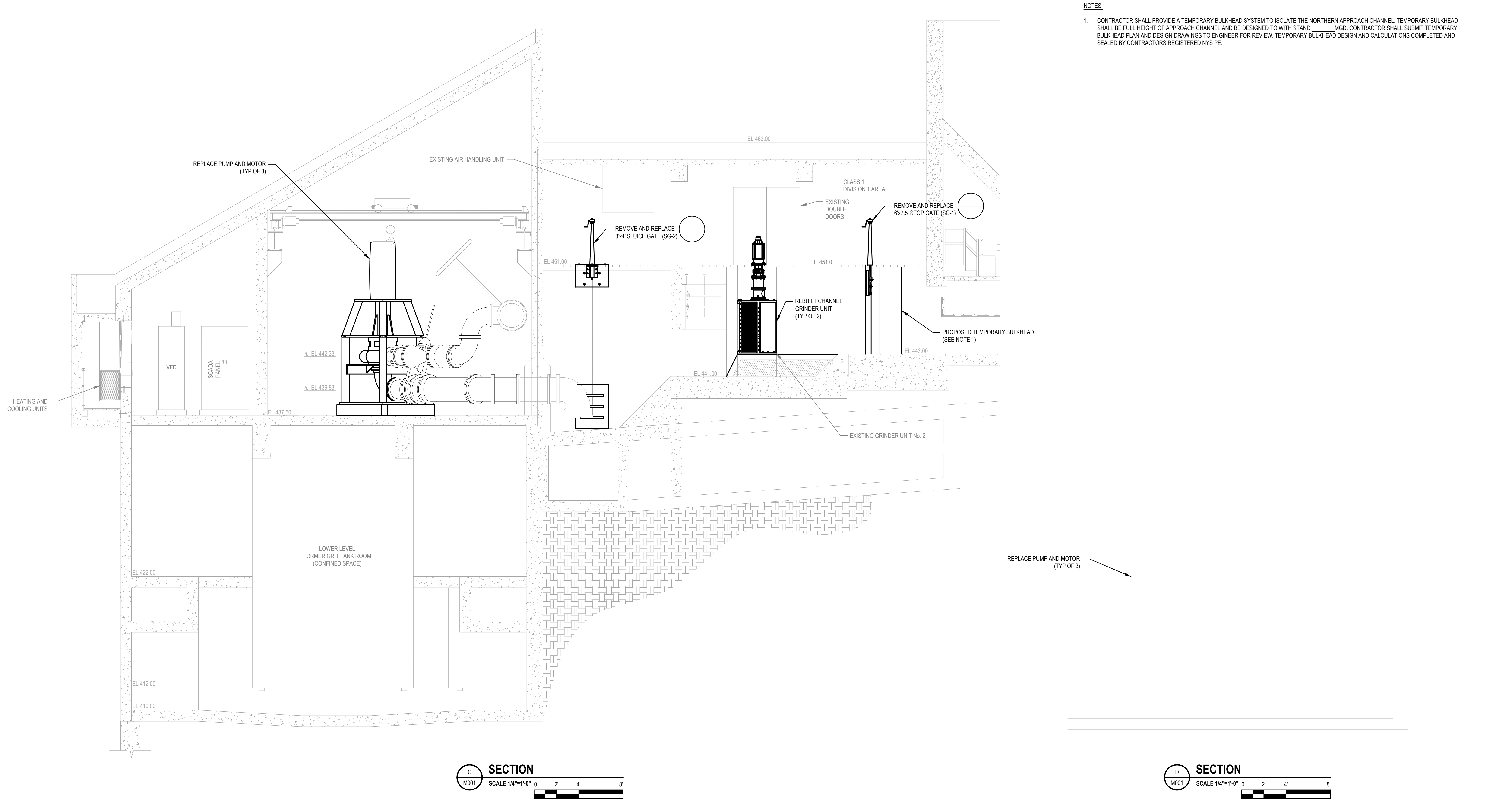



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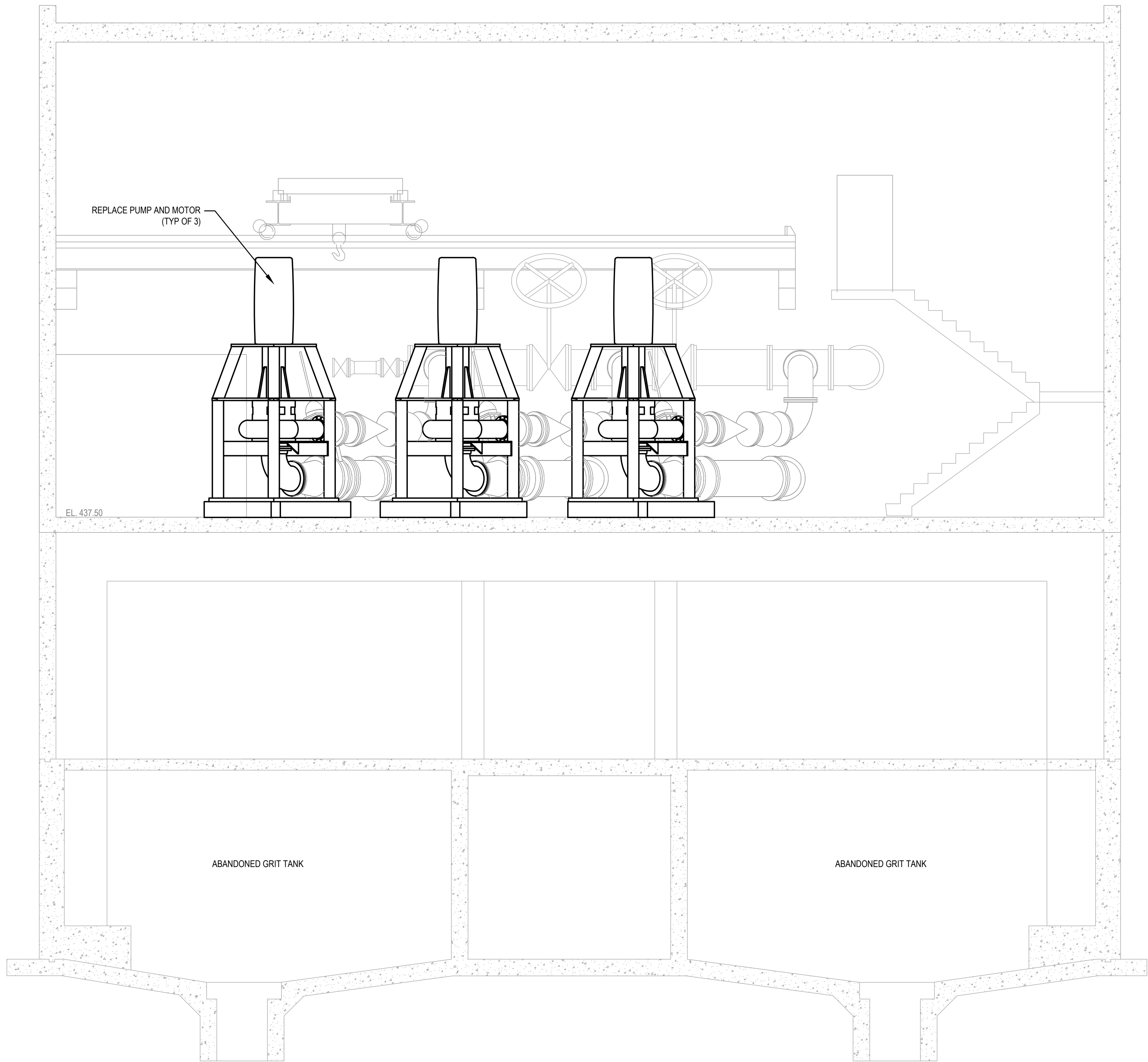


PRELIMINARY

				<div>Notes</div> <div>Underground facilities, structures, and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.</div> <div>It is violation of New York State education law for any person, unless acting under the direction of a licensed professional engineer, to alter an item on this drawing in anyway. If an item is altered, the altering engineer shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and date of such alteration and a specific description of the alteration.</div>	<div>Bar is one inch on original size sheet</div> <div>01" </div> <div>Reuse of Documents</div> <div>This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.</div> <div>© 2020 GHD</div>	<div></div> <div>GHD Consulting Services Inc.</div> <div>285 Delaware Avenue, Suite 500</div> <div>Buffalo NY 14202 USA</div> <div>T 1 716 856 2142 F 1 716 856 2160 W www.ghd.com</div>	DrawnM. GALLEY	DesignerD. WOOLLEY	ClientNIAGARA FALLS WATER BOARD
							Drafting Check	Design CheckC. COWAN	ProjectGORGE PUMP STATION REHABILITATION
C ISSUED FOR NYSDEC REVIEW							Project DirectorR. LANNON	DateJANUARY 2020	TitleGORGE PUMP STATION PUMP ROOM AND WET WELL PLAN
B ISSUED FOR 60% DESIGN REVIEW							This document shall not be used for construction unless signed and sealed for construction.		
A ISSUED FOR PRELIMINARY ENGINEERING REPORT							ScaleAS NOTED		
No.	Issue	Drawn	Approved	Date				Original SizeArch D	Sheet No.M001




				<p>Notes</p> <p>Underground facilities, structures, and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.</p> <p>It is violation of New York State education law for any person, unless acting under the direction of a licensed professional engineer, to alter an item on this drawing in anyway. If an item is altered, the altering engineer shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and date of such alteration and a specific description of the alteration.</p>	<p>Bar is one inch on original size sheet</p> <p>0 1"</p>	<p>Reuse of Documents</p> <p>This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.</p> <p>© 2020 GHD</p>	<div><p>GHD Consulting Services Inc. 285 Delaware Avenue, Suite 500 Buffalo NY 14202 USA T 1 716 856 2142 F 1 716 856 2160 W www.ghd.com</p></div>	Drawn M. GALLEY	Designer D. WOOLLEY	Client NIAGARA FALLS WATER BOARD	
								Drafting Check	Design Check C. COWAN	Project GORGE PUMP STATION REHABILITATION	
C ISSUED FOR NYSDEC REVIEW								Project Director R. LANNON	Date JANUARY 2020	Title GORGE PUMP STATION PUMP ROOM AND WET WELL SECTION	
B ISSUED FOR 60% DESIGN REVIEW								Project No. 111-94110			
A ISSUED FOR PRELIMINARY ENGINEERING REPORT											
No.	Issue	Drawn	Approved	Date							



SECTION
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PRELIMINARY

				<div>Notes</div> <div>Underground facilities, structures, and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.</div> <div>It is violation of New York State education law for any person, unless acting under the direction of a licensed professional engineer, to alter an item on this drawing in anyway. If an item is altered, the altering engineer shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and date of such alteration and a specific description of the alteration.</div>	<div>Bar is one inch on original size sheet</div> <div>01" </div> <div>Reuse of Documents</div> <div>This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.</div> <div>© 2020 GHD</div>	<div></div> <div>GHD Consulting Services Inc. 285 Delaware Avenue, Suite 500 Buffalo NY 14202 USA T 1 716 856 2142 F 1 716 856 2160 W www.ghd.com</div>	Drawn S. SEEKINS	Designer D. WOOLLEY	Client NIAGARA FALLS WATER BOARD			
							Drafting Check M. GALLEY	Design Check C. COWAN	Project GORGE PUMP STATION REHABILITATION			
							Project Director R. LANNON	Date JANUARY 2020	Title GORGE PUMP STATION PUMP ROOM AND WET WELL SECTION			
							This document shall not be used for construction unless signed and sealed for construction.					
No.	Issue	Drawn	Approved				Date	Scale AS NOTED	Original Size Arch D	Sheet No. M003		
C ISSUED FOR NYSDEC REVIEW				SAS	RPL	1/10/20	Project Title GORGE PUMP STATION REHABILITATION Project No. 111-94110					
B ISSUED FOR 60% DESIGN REVIEW				SAS	RPL	11/25/19						
A ISSUED FOR PRELIMINARY ENGINEERING REPORT				MRG	RPL	09/03/19						

NIAGARA FALLS WATER BOARD RESOLUTION # 2020-02-002

**AWARD OF THE HIGH VOLTAGE, SWITCHGEAR INSPECTION, AND
EMERGENCY WORK CONTRACT**

WHEREAS, the Niagara Falls Water Board (NFWB) has the need for High Voltage, Service, Switchgear Inspection, and Emergency Work at its facilities; and

WHEREAS, in order to promote efficiency, avoid delay, and reduce the costs associated with such service work it has found it useful and appropriate to pre-bid its labor and material rates for such work; and

WHEREAS, an invitation to bid for the necessary services was issued to contractors for the work; and

WHEREAS, the basis for the bids was estimated quantities of work, with the actual expenditure associated with this indefinite delivery / indefinite quantity contract to depend on its utilization; and

WHEREAS, two bids were received, with the low bid from Ferguson Electric Co., Inc., totaling \$803,200 for the estimated quantities of work; and

WHEREAS, Clark Patterson Lee, the Water Board's engineers for this project, have reviewed the bids and found Ferguson Electric Co., Inc., to be responsive to the bid and qualified to perform the work;

* CONTINUED ON NEXT PAGE *

NOW THEREFORE BE IT

RESOLVED, that on behalf of the Niagara Falls Water Board, its Executive Director hereby is authorized to contract with Ferguson Electric Co., Inc., on an indefinite delivery / indefinite quantity basis for High Voltage, Service, Switchgear Inspection, and Emergency Work at Niagara Falls Water Board Facilities from March 1, 2020 through February 28, 2022, with non-emergency procurements in excess of the Executive Director's purchasing authority to be subject to Board approval.

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

Water Board Budget Line or Capital Plan Item with Funds for this Resolution:

On February 24, 2020, 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 Brown	[]	[]	[]	[]
Board Member Forster	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Acting Chair Kimble	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Renae Kimble, Acting Chairperson

Sean W. Costello, Secretary to Board

February 18, 2020

Patrick Fama, Executive Director
Michael C. O'Laughlin Water Treatment Plant
5815 Buffalo Avenue
Niagara Falls, NY 14304

**RE: High Voltage, Service, Switchgear Inspection, and Emergency Work within the
Niagara Falls Water Board Facilities from March 1, 2020 through February 28,
2022.
Project No. 20170004
BID RECOMMENDATION**

Dear Mr. Fama:

We have completed our review of the bids received on February 13, 2020 for the above referenced project, which includes High Voltage, Service, Switchgear Inspection, and Emergency Work within the Niagara Falls Water Board Facilities from March 1, 2020 through February 28, 2022. A summary of the bids is provided below and a copy of our bid tabulation is enclosed for your information and review.

Bidder	Total Base Bid Price
Ferguson Electric, Co.	\$803,200
O'Connell Electric Co.	\$840,460

The apparent low bidder was Ferguson Electric Co. Inc. with an overall price of \$803,200.00.

Ferguson Electric Co., Inc. is an established firm that has worked on many building mechanical installations and service repair projects in Western New York.

Based on our review of submitted Base Bid, we recommend the Niagara Falls Water Board award this indefinite delivery/indefinite quantity contract to Ferguson Electric Co., Inc., based on a budget amount of \$803,200.00, with the actual cost of the contract to be based upon its utilization.



Per the contract documents, following is a summary of the process from award recommendation through construction:

- Step 1 - Notice of award, unexecuted agreement, and other supporting documents provided to Contractor.
- Step 2 – Within 15-days, Contractor to provide signed agreement and required bonds & insurance.
- Step 3 – Within 10-days, Owner to provide completed agreement to Contractor.
- Step 4 – Contract time to start immediately after effective date of agreement or if Notice to Proceed is issued at any time up to 30-days beyond effective date of agreement.
- Step 5 – Substantial completion of project to be on or before February 28, 2022.
- Step 6 – Completion of project to be on February 28, 2020.

Clark Patterson Lee looks forward to working with the Niagara Falls Water Board and the Contractor to successfully complete this project. If you have any questions or require any additional information, please contact me at (716)880-1264.

Very truly yours,

Clark Patterson Lee

Jay F. Meyers, P.E.
Civil Engineer

Enclosures

ELECTRICAL SERVICE CONTRACT
 NIAGARA FALLS WATER BOARD
 CONTRACT: 2020001
 BID OPENING FEBRUARY 13,2020

O'CONNELL ELECTRIC CO.

ITEM	DESCRIPTION	HOURS	COST	TOTAL
1	JOURNEYMAN ELECTRICIAN	2500	\$102.00	\$255,000.00
2	APPRENTICE ELECTRICIAN	2000	\$38.85	\$77,700.00
3	SWITCHGEAR INSPECTION	3600	\$118.50	\$426,600.00
4	SCADA TECHNICIAN	250	\$132.00	\$33,000.00
5	ARC FLASH ENGINEER	300	\$150.00	\$45,000.00
6	BUCKET TRUCK	80	\$39.50	\$3,160.00
TOTAL				\$840,460.00

FERGUSON ELECTRIC CO.

ITEM	DESCRIPTION	HOURS	COST	TOTAL
1	JOURNEYMAN ELECTRICIAN	2500	\$88.00	\$220,000.00
2	APPRENTICE ELECTRICIAN	2000	\$57.00	\$114,000.00
3	SWITCHGEAR INSPECTION	3600	\$118.00	\$424,800.00
4	SCADA TECHNICIAN	250	\$120.00	\$30,000.00
5	ARC FLASH ENGINEER	300	\$40.00	\$12,000.00
6	BUCKET TRUCK	80	\$30.00	\$2,400.00
TOTAL				\$803,200.00

RANKING

1	FERGUSON ELECTRIC	\$803,200.00
2	O'CONNELL ELECTRIC	\$840,460.00

NIAGARA FALLS WATER BOARD RESOLUTION # 2020-02-003

AWARD OF THE IN-PLANT MECHANICAL SERVICE CONTRACT

WHEREAS, the Niagara Falls Water Board (NFWB) has the need for In-Plant Mechanical Maintenance Services at its facilities; and

WHEREAS, in order to promote efficiency, avoid delay, and reduce the costs associated with such service work it has found it useful and appropriate to pre-bid its labor and material rates for such work; and

WHEREAS, an invitation to bid for the necessary services was issued to contractors for the work; and

WHEREAS, the basis for the bids was estimated quantities of work, with the actual expenditure associated with this indefinite delivery / indefinite quantity contract to depend on its utilization; and

WHEREAS, two bids were received, with the low bid from Mollenberg-Betz Mechanical Co., Inc., totaling \$214,000 for the estimated quantities of work; and

WHEREAS, Clark Patterson Lee, the Water Board's engineers for this project, have reviewed the bids and found Mollenberg-Betz Mechanical Co., Inc., to be responsive to the bid and qualified to perform the work;

* CONTINUED ON NEXT PAGE *

NOW THEREFORE BE IT

RESOLVED, that on behalf of the Niagara Falls Water Board, its Executive Director hereby is authorized to contract with Mollenberg-Betz Mechanical Co., Inc., on an indefinite delivery / indefinite quantity basis for In-Plant Mechanical Maintenance Services at Niagara Falls Water Board Facilities from March 1, 2020 through February 28, 2022, with non-emergency procurements in excess of the Executive Director's purchasing authority to be subject to Board approval.

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

Water Board Budget Line or Capital Plan Item with Funds for this Resolution:

On February 24, 2020, 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 Brown	[]	[]	[]	[]
Board Member Forster	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Acting Chair Kimble	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Renae Kimble, Acting Chairperson

Sean W. Costello, Secretary to Board

February 18, 2020

Patrick Fama, Executive Director
Michael C. O'Laughlin Water Treatment Plant
5815 Buffalo Avenue
Niagara Falls, NY 14304

**RE: In-Plant Mechanical Maintenance Services at Various Niagara Falls Water Board Facilities from March 1, 2020 through February 28, 2022.
Project No. 2020002
BID RECOMMENDATION**

Dear Mr. Fama:

We have completed our review of the bids received on February 13, 2020 for the above referenced project, which includes In-Plant Mechanical Maintenance Services at Various Niagara Falls Water Board Facilities from March 1, 2020 through February 28, 2022. A summary of the bids is provided below and a copy of our bid tabulation is enclosed for your information and review.

Bidder	Total Base Bid Price
Mollenberg-Betz Mechanical	\$214,000
Peterson Heating and Cooling	\$216,750

The apparent low bidder was Mollenberg-Betz Mechanical Co. Inc. with an overall price of \$214,000.00.

Mollenberg-Betz Mechanical Co., Inc. is an established firm that has worked on many building mechanical installations and service repair projects in Western New York.

Based on our review of submitted Base Bid, we recommend the Niagara Falls Water Board award the indefinite delivery / indefinite quantity contract to Mollenberg-Betz Mechanical Co., Inc. based on a budget amount of \$214,000.00, with the actual cost of the contract to be based upon its utilization.



Per the contract documents, following is a summary of the process from award recommendation through construction:

- Step 1 - Notice of award, unexecuted agreement, and other supporting documents provided to Contractor.
- Step 2 – Within 15-days, Contractor to provide signed agreement and required bonds & insurance.
- Step 3 – Within 10-days, Owner to provide completed agreement to Contractor.
- Step 4 – Contract time to start immediately after effective date of agreement or if Notice to Proceed is issued at any time up to 30-days beyond effective date of agreement.
- Step 5 – Substantial completion of project to be on or before February 28, 2022.
- Step 6 – Completion of project to be on February 28, 2022.

Clark Patterson Lee looks forward to working with the Niagara Falls Water Board and the Contractor to successfully complete this project. If you have any questions or require any additional information, please contact me at (716)880-1264.

Very truly yours,

Clark Patterson Lee

Jay F. Meyers, P.E.
Civil Engineer

Enclosures

IN PLANT MECHANICAL MAINTENANCE SERVICE CONTRACT
 NIAGARA FALLS WATER BOARD
 CONTRACT: 2020002
 BID OPEN: FEBRUARY 13, 2020

PETERSON HEATING AND COOLING

ITEM	DESCRIPTION	HOURS	COST	TOTAL
1	JOURNEYMAN PIPEFITTER	500	\$93.50	\$46,750.00
2	APPRENTICE PIPEFITTER	500	\$60.00	\$30,000.00
3	JOURNEYMAN SHEETMETAL	500	\$85.00	\$42,500.00
4	APPRENTICE SHEETMETAL	500	\$45.00	\$22,500.00
5	MATERIALS	1	\$75,000.00	\$75,000.00
	TOTAL			\$216,750.00

MOLLENBERG-BETZ

ITEM	DESCRIPTION	HOURS	COST	TOTAL
1	JOURNEYMAN PIPEFITTER	500	\$105.00	\$52,500.00
2	APPRENTICE PIPEFITTER	500	\$41.00	\$20,500.00
3	JOURNEYMAN SHEETMETAL	500	\$89.00	\$44,500.00
4	APPRENTICE SHEETMETAL	500	\$43.00	\$21,500.00
5	MATERIALS	1	\$75,000.00	\$75,000.00
	TOTAL			\$214,000.00

RANKING

1	MOLLENBERG-BETZ	\$214,000.00
2	PETERSON HEATING AND COOLING	\$216,750.00

NIAGARA FALLS WATER BOARD RESOLUTION # 2020-01-04

**BOARD'S REPRESENTATIVE ON AD-HOC COMMITTEE
TO STUDY FIRE HYDRANT REPLACEMENT**

WHEREAS, the Niagara Falls Water Board ("Water Board") maintains approximately 2,226 fire hydrants, and pursuant to Resolution 2019-09-004 established an ad-hoc committee to study fire hydrant replacement; and

WHEREAS, the ad-hoc committee includes Superintendent Bill Wright, Acting Supervisor of Pipes Michael Eagler, Sr., Sanitary Engineer Clayton Hotchkiss, and Senior Engineer Technician Adam Janzen; and

WHEREAS, the Board of Directors desires that one of its members also be assigned to participate in the ad-hoc committee to study fire hydrant replacement; and

WHEREAS, the Board's previous representative to the ad-hoc committee has been replaced by his appointing authority;

NOW THEREFORE BE IT

RESOLVED, that _____ shall be the Board's representative on the ad-hoc committee to study fire hydrant replacement.

Water Board Personnel Responsible for Implementation of this Resolution:
Superintendent

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

On February 24, 2020, 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 Brown	[]	[]	[]	[]
Board Member Forster	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Acting Chair Kimble	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Rena Kimble, Acting Chairperson

Sean W. Costello, Secretary to Board

NIAGARA FALLS WATER BOARD RESOLUTION # 2020-02-005

**REJECTING ALL BIDS FOR THE HEATING, VENTILATING,
AND AIR CONDITIONING SERVICES CONTRACT**

WHEREAS, an invitation to bid for Project No. 20190004, Heating Ventilating and Air Conditioning Services at Various Niagara Falls Water Board Facilities from February 1, 2020 through January 31, 2022, was issued to contractors, with said contract to be on an indefinite delivery / indefinite quantity basis; and

WHEREAS, five bids were received; and

WHEREAS, the Water Board no longer deems it in the best interests of the Water Board, necessary, or desirable to enter into a contract for the Heating Ventilating and Air Conditioning Services work at the present time;

NOW THEREFORE BE IT

RESOLVED, that all bids for Project No. 20190004, Heating Ventilating and Air Conditioning Services at Various Niagara Falls Water Board Facilities from February 1, 2020 through January 31, 2022, hereby are rejected.

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

Water Board Budget Line or Capital Plan Item with Funds for this Resolution:

On February 24, 2020, 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 Brown	[]	[]	[]	[]
Board Member Forster	[]	[]	[]	[]
Board Member Larkin	[]	[]	[]	[]
Board Member Leffler	[]	[]	[]	[]
Acting Chair Kimble	[]	[]	[]	[]

Signed By:

Vote Witnessed By:

Renae Kimble, Acting Chairperson

Sean W. Costello, Secretary to Board

Sean Costello

From: Nick Forster <forsternick@yahoo.com>
Sent: Monday, February 17, 2020 12:38 PM
To: Pat Fama; Sean Costello
Subject: Comp time

Pat,

Please provide for the February 24th board meeting a list of all comp time per pay period, NFWB employees, accrued from January 1st 2019 until present.

Include employees name, title and reason for compensatory time authorization and hours.

Sean,

Please insert this correspondence along with the requested information from Pat, in each board members packet for our February 24th meeting.

Thanks
Nick

Sean Costello

From: Nick Forster <forsternick@yahoo.com>
Sent: Thursday, January 30, 2020 7:31 AM
To: Sean Costello
Subject: Fw: Information request

Sean,

Please insert this request along with information Pat submits in our next board work session packet.

Thanks,
Nick

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Pat,

Please be prepared to provide the board with information regarding the status on the following questions at our next scheduled board work session.

1. The number of current part time employees, title, date of hire, hourly pay rate when hired:current hourly pay rate, if hourly pay rate increased, provide approvals of pay rate increase and date.
2. Number of employees that opt out of health insurance broken down in single and family plan's. Annual total cost of health care opt out. Criteria and a copy of the document that is utilized in determining health insurance opt out.
3. Cost broken down between a single and family health care opt out and reimbursement amount an employee receives.
4. The employee(s) name and title who reviews opt out health insurance documents and provides approvals.

Thanks,

Nick