

Agenda



Opening Remarks



Community Benefits Program



Buffalo Sewer Authority's Queen City Clean Waters Overview



Consultant Proposals & Requirements



Upcoming Capital Projects



Construction Bid Solicitations & Requirements



D/M/WBE Requirements & Certifications



Feedback and Q&A Session



Opening Remarks



Online Meeting



Microphones Muted



Utilize the Chat Feature



Live Q&A



Recorded Meeting



Closed Caption

The presentation and attendee list will be shared with all attendees.

Presenters

OWNER

BUFFALO SEWER AUTHORITY

Rosaleen Nogle, PE, BCEE
Principal Sanitary Engineer

PROGRAM MANAGEMENT TEAM

TYLin

Walt Walker, PE, ENV SP
Program Director

JMDavidson
Engineering, D. R. C.

Jaime Davidson, PE Collections System Advisor

Buffalo Sewer's Queen City Clean Waters



QUEEN CITY CLEAN WATERS









VISION

Clean waters and a resilient Buffalo.

MISSION



To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in the City of Buffalo.

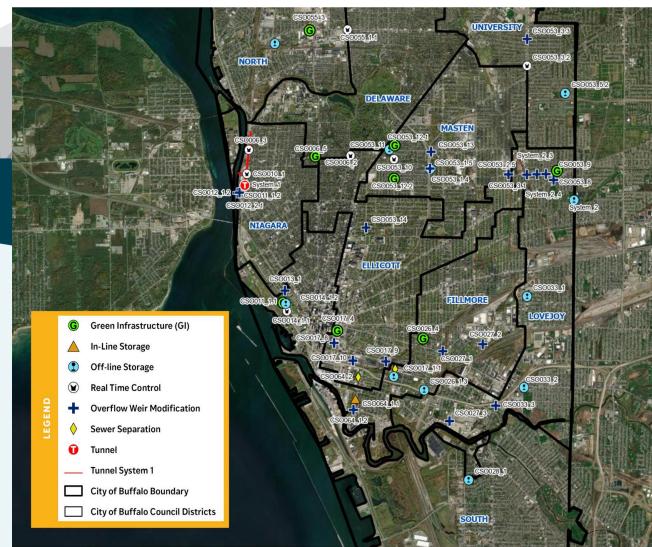


Queen City Clean Waters

PROGRAM OVERVIEW



buffalosewer.org/construction
-projects/queen-city-cleanwaters/



Types of QCCW Projects

Bird Island Treatment Facility Upgrades





Federal and state funding administered through NYSEFC and NYSDEC (grants, zero to low interest loans), Environmental Impact Bond, and BSA capital budget



Green Infrastructure (GI)



Real-time Control Smart Sewers and Sewer Improvements & Modifications



Upcoming QCCW Capital Projects for 2024 - 2025

- PROFESSIONAL SERVICES (DESIGN CONSULTANT RFP)
- CONSTRUCTION SERVICES (INVITATION TO BID)

Upcoming Projects – Overflow Weir (Sewer Patrol Point) Modifications

PROJECT NAME	LOCATION	TYPE OF CONTRACT	ESTIMATED DATE OF ADVERTISEMENT	OPINION OF PROBABLE CONSTRUCTION COST	PROJECT DESCRIPTION
CSO053_2.5 SPP337 Modification	Colorado & Scajaquada	Construction	Q3 2025	\$12,000,000	New diversion chamber50'+ drop shaft
CSO053_8 SPP341A Modification	Kerns & Genesee	Construction	Q3 2025	\$6,500,000	 Additional of 18" diameter underflow pipe Raise overflow weir 50'+ drop shaft
CSO053_3.1 SPP338 Modification	Bailey & Kerns			\$4,000,000	 Underflow orifice would be enlarged Raise overflow weir & length increased to 30 ft
CSO053_1.5 SPP336B Modification	Humboldt & Lark	Construction (Multiple sites as a single contract)			Remove orifice plateRaise overflow weir
CSO053_13 SPP165B Modification	Humboldt & Delavan		Q3 2025		 Upsize underflow orifice / new junction chamber Upsize underflow pipe to 36" (~1,000LF) Raise overflow weir
CSO053_14 SPP175/ 176/ 177 Modification	Michigan & Dodge- Riley- Glenwood				Raise 3 weirs

CSO053_2.5 SPP337 Modification

Location: Colorado & Scajaquada

Project Description:

- New diversion chamber
- New drop shaft ~50-55 ft deep to Scajaquada Tunnel.



CSO053_8 SPP341A Modification

Location: Kerns & Genesee

Project Description:

- Additional 18" underflow pipe
- Raise the overflow weir
- New drop shaft ~50-55 ft deep to
 Scajaquada Tunnel.

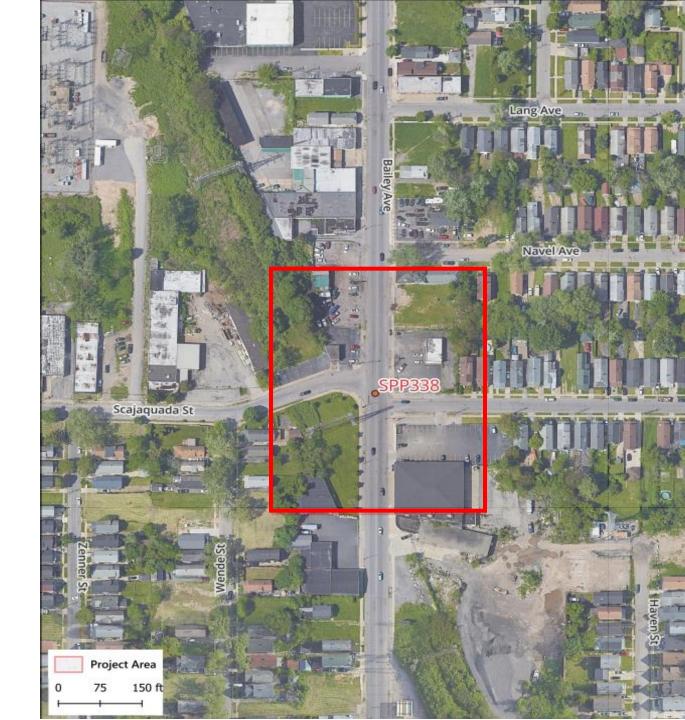


CSO053_3.1 SPP338 Modification

Location: Bailey & Kerns

Project Description:

- Enlarge underflow orifice
- Raise and lengthen weir



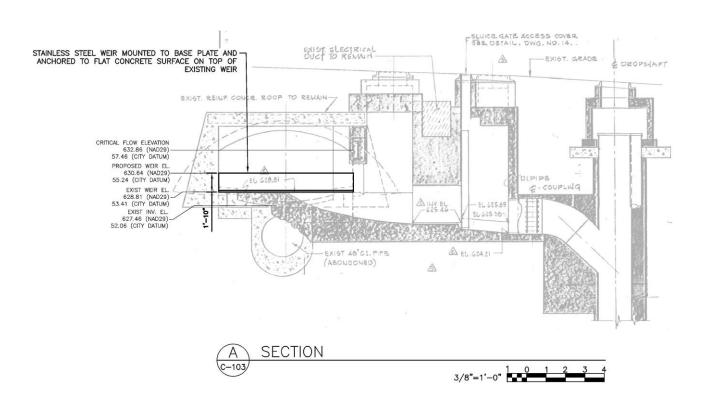
CSO053_1.5 SPP336B Modification

Location: Humbolt & Lark

Project Description:

- Remove the underflow orifice plate
- Raise the overflow weir

Bid Release Date: Q3 2025



*Sketch for illustrative purposes only and not representative of final design.

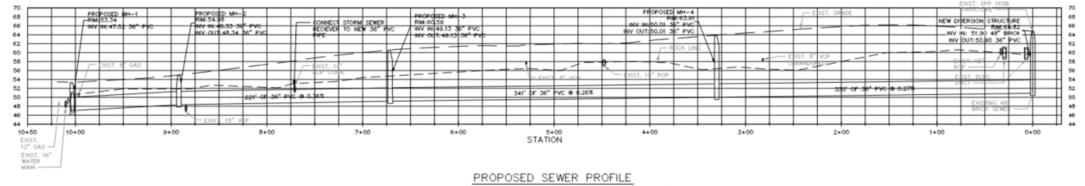


CSO053_13 SPP165B Modification

Location: Humboldt & Delavan

Project Description:

- Install new junction chamber
- Upsize the underflow pipe (on East side Humboldt from E. Delavan to Northland)
- Raise the overflow weir



CSO053_14 SPP175/ 176/ 177 Modification

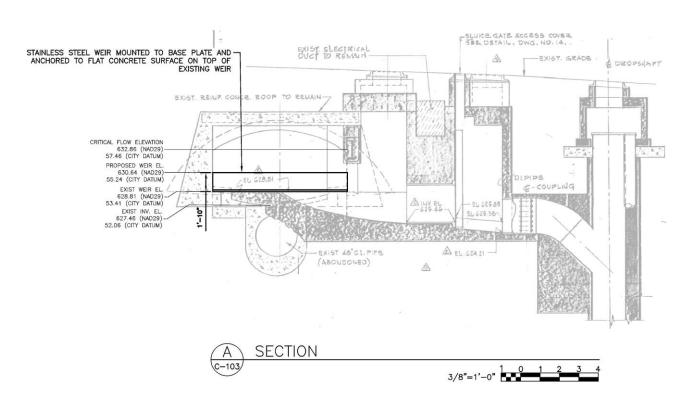
Location: Michigan & Dodge – Riley – Glenwood

Project Description:

Raise weirs at:

- SPP175 (Dodge St & Michigan Ave)
- SPP176 (Michigan Ave & Riley St)
- SPP177 (Michigan & Glenwood Aves)

Bid Release Date: Q3 2025



*Sketch for illustrative purposes only and not representative of final design.



Upcoming Projects – Facility and Offline Storage

PROJECT NAME	LOCATION	TYPE OF CONTRACT	ESTIMATED DATE OF RFP/ BID ADVERTISEMENT	OPINION OF PROBABLE CONSTRCTION COST	PROJECT DESCRIPTION
Sidney & Lark Offline Storage (OLS)	Sidney St & Lark St	Design	Q4 2024	\$27,720,000	 3.26 MG Tank under city-owned vacant lots Dewater via gravity to the Scajaquada Tunnel Interceptor
Edison & Martha Offline Storage (OLS)	Edison & Martha	Design	Q1 2025	\$37,240,000	 2.61 MG tank under Roosevelt Park Dewater via gravity to the Edison Avenue trunk sewer.
Breckenridge St CSO Control Project	Breckenridge St & West Ave	Construction	Q1 2025	\$20,000,000 - \$25,000,000	 Replace and reverse slope of Breckenridge St sewer to discharge to new sewer on West Ave New West Ave line will connect to a new drop-pipe manhole structure at Scajaquada Tunnel at West Ave and Lafayette Ave. New Breckenridge St line will reroute to Herkimer St to West Ave
Raw Wastewater (RWW) & Settled Wastewater (SWW) Pump Station Rehab	Bird Island WWTF	Construction	Phase 1: Q1 2025 Phase 2: Q3 2025	\$15,000,000- \$20,000,000 each	Pump and valve rehabilitation, impeller replacements, roof repairs, instrumentation & control improvements, electrical upgrades
South Buffalo Pump Station Rehab	Bailey Ave & Old Bailey Ave	Construction	Q3/Q4 2025	\$20,000,000- \$25,000,000	Process mechanical, structural, architecture, HVAC, electrical, sitework
Primary Treatment Renovation – Contract B (Rebid)	Bird Island WWTF	Construction	Q3 2025	\$60,000,000 - \$70,000,000	New High-Rate Disinfection Chlorine Contact Tank, High-Rate Disinfection Building, renovations to the existing Outfall Structure 001, HRD Influent and Effluent Conduits, modifications to the existing Bypass and Control Chamber and Primary Bypass Junction Chamber and gates.

CSO053_1.4 3.26 MG Sidney & Lark OLS

Location: Sidney St & Lark St

Project Description:

- 3.26 MG underground tank
- Corner of Sidney Street and Lark Street (city owned vacant lots)
- Dewater via gravity to the Scajaquada Tunnel Interceptor

RFP Release Date: Q4 2024



CSO053_5.2 Edison & Martha OLS

Location: Edison Ave & Martha Ave

Project Description:

- 2.61 MG buried concrete tank
- Diversion structure
- Tank inlet and outlet sewers

RFP Release Date: Q1 2025





Breckenridge St CSO Control Project

(FORMERLY BRECKENRIDGE & NIAGARA RTC)

Location: Breckenridge St & West Ave to Lafayette Ave & West Ave Project Description:

- Replace and reverse slope of Breckenridge St sewer to discharge to new sewer on West Ave
- New West Ave line will connect to a new drop-pipe manhole structure at Scajaquada Tunnel at West Ave and Lafayette Ave.
- New Breckenridge St line will reroute to Herkimer St to West Ave

Bid Advertisement Date: Q2 2025

Estimated Cost: \$20M-\$25M



South Buffalo Pump Station Upgrades

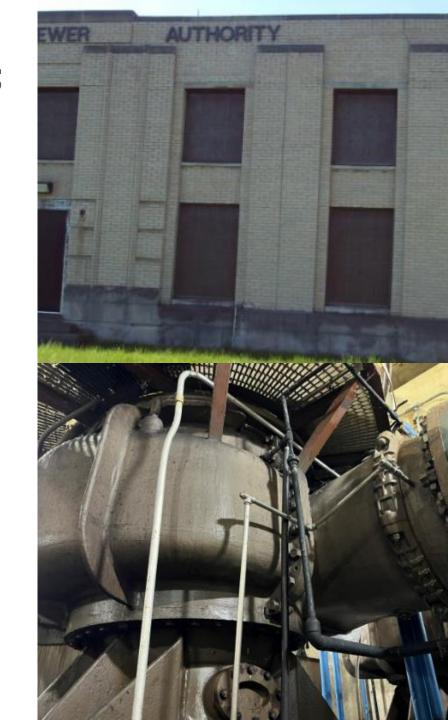
Project Description:

- Pump rehabilitation
- Seal water improvements
- Discharge chamber improvements
- HVAC system replacement
- Comprehensive structural & architectural rehabilitation
- Control room improvements
- Enhanced equipment removal
- Comprehensive control system upgrades
- Supporting plumbing, site, and electrical work

Bid Advertisement Date: Q3/Q4 2025

Estimated Cost: \$20M - \$25M





Raw Wastewater (RWW) & Settled Wastewater (SWW) Pump Station Upgrades Phase 1 & Phase 2

Project Description:

The Bird Island Wastewater Treatment Facility, including the RWW operational since 1938, initially served as a primary treatment plant.

Secondary treatment facilities, including SWW were added in the late 1970s due to the Clean Water Act and became operational in 1981.

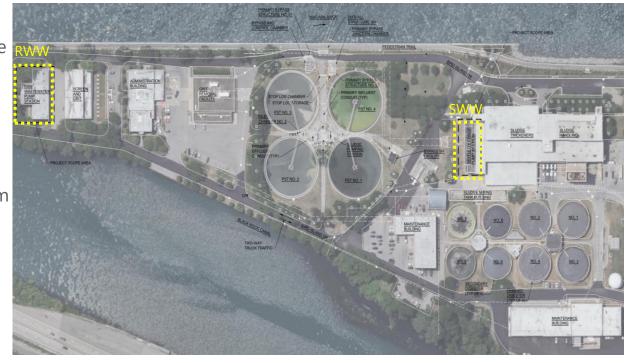
The project's goal is to restore full pump capacity to these aging pump stations.

Work includes the following:

- Mechanical Pump and Valve Rehab and Vacuum Priming System
- Electrical Motor Rehab;
- Instrumentation & Controls Pump Controls upgrade; and
- Structural/Architectural Roof Replacement/repair

Bid Advertisement Date: Phase 1 – Q1 2025 | Phase 2 – Q 3 2025

Estimated Cost: Phase 1 - \$15M - \$20M | Phase 2 - \$15M - \$20M





Primary Treatment Renovation - Contract B (Rebid)

- New High-Rate Disinfection (HRD) Chlorine
 Contact Tank and High-Rate Disinfection (HRD)
 Pump Station Building
- New connection and renovations to the existing Outfall Structure 001, HRD Influent and Effluent Conduits
- Modifications to the existing Bypass and Control Chamber and Primary Bypass Junction Chamber
- Replacement of gates at the Bypass and Control Chamber, Primary Bypass Structure No. 1 and 2.
- Update: Gate WW-17 replacement now to be performed under a separate contract.
- Bid Advertisement Date: Q3 2025
- Estimated Cost: \$60M-\$70M

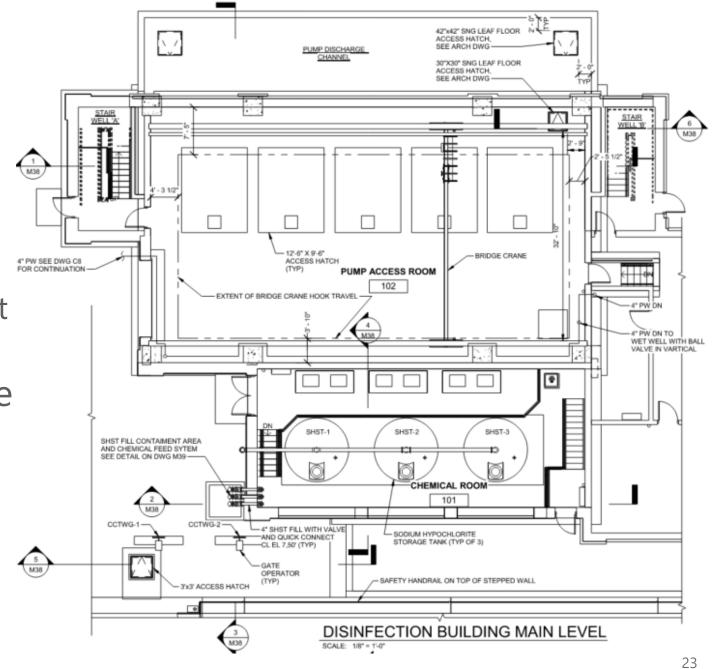


Future Rendering of New HRD Facility (left side) at Bird Island WWTF



HRD Pump Station

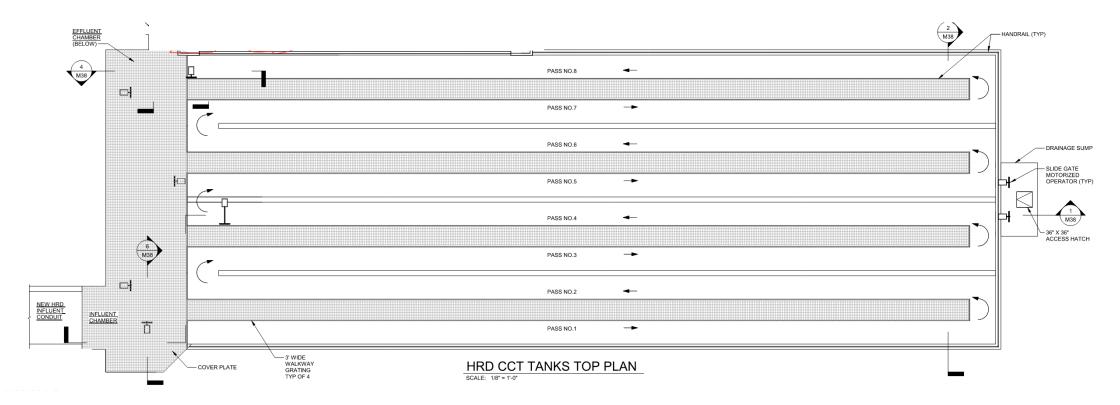
- -Pumping Station
 - 160 MGD firm capacity
 - Five (5) 40 MGDSubmersible Pumps
 - 3 Pumps on VFD, 2 constant speed
- -Chemical Feed and Storage
 - Three (3) 11,200 gallon storage tanks
 - Chemical feed pumps

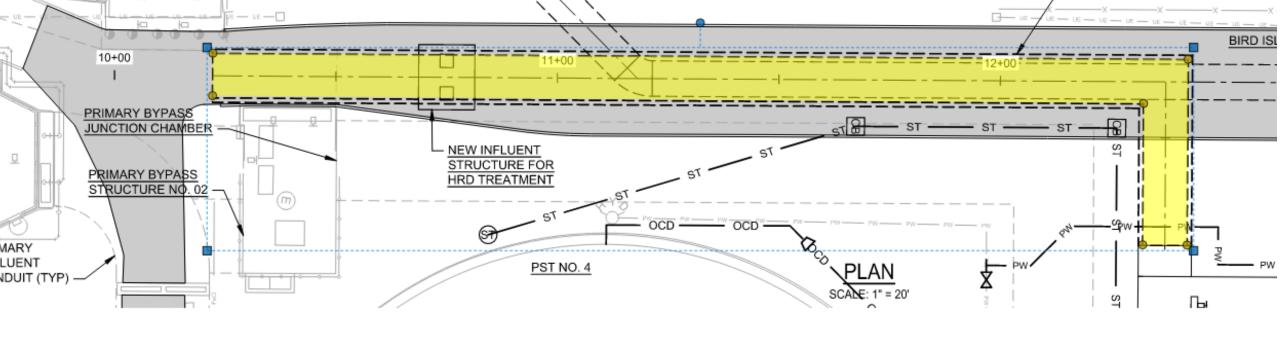




HRD Chlorine Contact Tank

- -5-minute contact time:
 - Channel Width: 6 ft
 - Channels Length: 120 ft
 - Water Depth: ~13 ft





Influent to HRD Conduit

- Flow

- Gravity

Average Flow: 74 MGD

- Max Flow: 160 MGD

Size

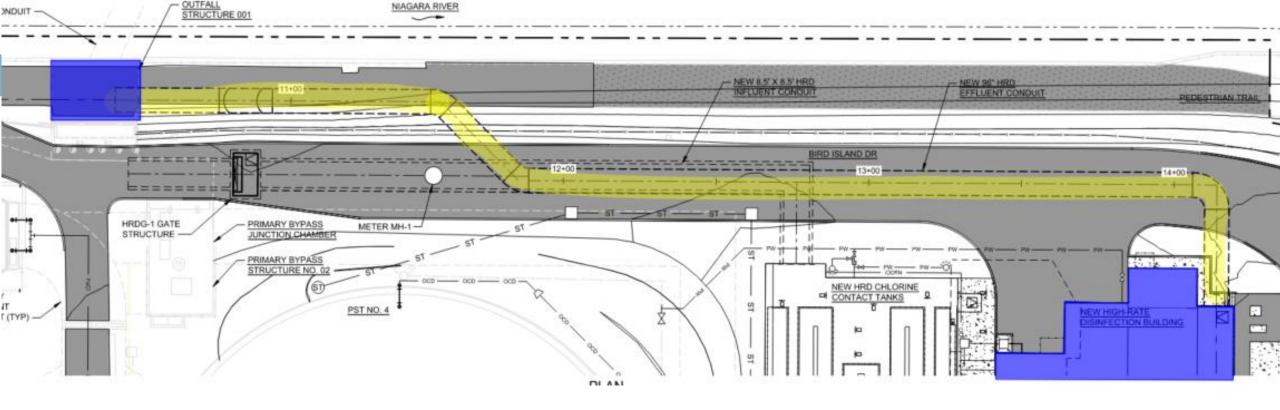
- 8.5′x8.5′

Structural

Material: Cast in Place Concrete

Steel piles





Outfall 001 Repair and Connection to HRD

- The HRD Pumping Station force main will tie into the existing Outfall 001 structure.
- The existing Outfall 001 overflow structure and conduit was inspected to verify they are structurally competent to facilitate the proposed renovation.

Primary Treatment Renovation Scope of Work – Potential Schedule of Quantities

NO.	ITEM	QUANTITY	UNIT
1B	Construction of a new Chlorine Contact Tank, High-Rate Disinfection Building, a new connection and renovations to the existing Outfall Structure 001, HRD Influent and Effluent Conduits, modifications to the existing Bypass and Control Chamber and Primary Bypass Junction Chamber, replacement of gates at the Bypass and Control Chamber, Primary Bypass Structure No. 1 and 2, and associated equipment, material and labor.	1	Lump Sum
2B	Negotiated Price: Emerson equipment and integration for the equipment associated with the High-Rate Disinfection System.	1	Lump Sum
3B	Allowance for the handling, removal, and legal disposal of unanticipated hazardous and non-hazardous (regulated) waste.	1	Lump Sum
4B	Allowance for the handling, removal, and legal disposal of unanticipated impacted soil and groundwater.	1	Lump Sum
5B	Allowance for the repair of existing pipelines.	1	Lump Sum
6B	Additional earth excavation	1,000	Cubic Yards
7B	Additional select fill	1,000	Cubic Yards
8B	Additional Class B Concrete	1,000	Cubic Yards
9B	Additional Steel Reinforcing	5,000	Pounds
10B	Additional Pile Length	2,000	Linear Feet



Summary: Major Work and Coordination items

- HRD PS and CCT

- Deep Excavation and Dewatering for Dewatering
- Electrical power supply from MegaStructure & Substation
- The new facility itself Pump station, CCT, and influent and effluent conduit
- Concrete
- trucking/delivery
- Coordinating shutdown for portion of Shoreline
 Trail to facilitate HRD Connection to Outfall 001
- Instrumentation & Controls coordination with Emerson for the Ovation Control System
- Long lead items: HRD pumps, MCC, control panels, WW gates





Future Construction Projects – Estimated Bid Dates

Type 1 (Weir Modifications / Gate Installation)	Cornelius Creek CSO Backwater Gate (2025) SPP 206A&B/ SPP 304 (August 2027) SPP 340 (October 2026) SPPs 023, 024, 296 (October 2027)			
Type 2 (Underflow Drop Shaft Modifications)	SPP 339 (October 2026)			
Type 3 (Upsized Underflow Pipe)	SPP 326 (October 2027)			
Off-Line Storage	East Delavan Sewer Project (December 2026) Schiller Park (8 MG) (December 2027) Erie Basin Marina (5.55 MG) (September 2028)			
Bird Island WWTF	Phase III: Secondary System Expansion (2026)			
Green Infrastructure	Hennepin Park (Fall 2025) Streetscape and Park Improvements (Fall 2025) Buffalo Public Schools Permeable Pavement and Rain Gardens (Fall 2025)			



Professional Services and Construction Bid Requirements

Typical Services Desired for Upcoming BSA Projects

Professional Services

- Engineering
- Civil/Mechanical
- Civil-Site, Structural,
 Geotechnical,
 HVAC/Plumbing,
 Instrumentation
- UndergroundStorage Tanks
- Deep Tunnels/Pipes
- Green Infrastructure+ Landscape Design

- Architecture
- Energy Efficiency
- CommunityEngagement andPlacemaking
- Grant Writing /Funding Support
- Growth, Inclusionand Partnership ofLocal Workforce andSuppliers

Construction

- General, Mechanical,Electrical Contracting
- Equipment Suppliers
- Electrical and Instrumentation
- Concrete
- Excavation/Dewatering
- Traffic Control
- Document Management
- Gate Installation
- Testing and Inspection

- Surveying and UtilityVerification
- Photography
- Pavement Sawcutting
- Trucking and MaterialProcurement
- Environmental Health &Safety
- Growth, Inclusion and
 Partnership of Local
 Workforce and
 Suppliers

Professional Services: Requests for Proposals (RFPs)

Typical Proposal Components

Cover Letter

Project Approach

Experience

Professional Team (Org Chart + Resumes)

Company Profile

DBE/MWBE Plan

Cost Proposal



BSA Evaluation Criteria

Demonstrated understanding of project requirements

Technical and creative quality of proposed approach, including community engagement and social impacts

Proposed schedule

Experience with comparable projects

Professional team organization and expertise

Company profile

Minorities, Women, and MBE/WBE/DBE firms as a percentage of the professional team



Typical Requirements for Construction Bids



General

- ✓ Bid Sheet(s)
- ✓ Equal Employment Opportunity
- ✓ Tax Exemption
- ✓ Non-Collusive Bidding Certification
- ✓ Insurances
- ✓ List of subcontractors
- ✓ DBE/MWBE Plan



Bonds

- ✓ Performance Bond 100%
- ✓ Maintenance Bond 10%



Liquidated Damages

- √ \$500 per day after time specified for Substantial Completion

 √ \$500 per day after time specified for time specified for time specified for the spec
- √ \$1,000 per day beginning 60 days after time specified for Substantial Completion

Supplier Diversity: Meaningful Inclusion of DBE/MWBE Firms

- DBE/MWBE must be certified in New York State
 - Typical DBE Goal: 20%
 - Typical MWBE Goal: 30%
- MWBE Certification in Erie County is a plus
- A DBE/MWBE Utilization Plan must be submitted with your Proposal Package:
 - https://efc.ny.gov/mwbe-forms

- Prime consultant or contractor must utilize DBE/MWBE suppliers/subcontractors that are certified on behalf of the New York State Certification Program:
 - NYS United DBE Certification Program
 - NYS MWBE Certification Program
- Buffalo Sewer is looking for Plans that are:
 - Reflecting a good-faith effort
 - Realistic and meaningful

PURPOSE



- Create economic opportunity for DBE/MBE/WBE firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms



DBE, MBE, WBE Resources

MINORITY-OWNED BUSINESS ENTERPRISE & WOMEN-OWNED BUSINESS ENTERPRISE



<u>MWBE - Business Growth Accelerator</u> <u>Program</u>

Mentor-Protégé Program

<u>Supply & Demand Utilization Factsheet</u>

DMWBD Event Speaker Form

NFTA Diversity Development (DBE)

BSU - M&WBE Resources

The MWBE Training Day Conference

Erie County-COB MWBE Certification

CERTIFICATION RESOURCES:

Buffalo Small Business Administration

*Buffalo Main Office:

130 S. Elmwood Ave., Suite 540, Buffalo, NY 14202 Phone: 716-551-4301

Women's Business Center at Canisius College

1901 Main Street, Science Hall, Buffalo, NY 14208 Phone: 716-888-8280

* Additional Resources: Service - Disabled Veteran-Owned Small Business (SDVOB) and other small business resources available at the Buffalo Main Office.



MWBE Training Day Conference – Buffalo, NY

- When: Oct 24th 8 am - 5:00 pm
- Where: **Buffalo Convention** Center
- **Ticket Prices:** \$40 - \$125



Secure your ticket @ The MWBE Training Day Conference Tickets

KEYNOTE SPEAKER

Financial Panel

Construction Pan

Building Partnersh

Vendor EXPO

Networking

Development

Get Certified!

MWBE CERTIFICATION SESSIONS



When:

- -Oct 22nd
- Oct 29th
- Nov 12th
- Nov 19th



Where:

Innovation Center-BNMC 640 Ellicott St. Buffalo, NY 14203









5:30PM-7:30PM Tuesday, October 22nd & 29th 2024 Tuesday, November 12th & 19th 2024



Innovation Center-BNMC 640 Ellicott St, Buffalo, NY 14203

Limited Space Available! Participation requires a prescreening interview. Scan the QR code to apply today!









Get Certified!

MWBE CERTIFICATION SESSIONS

Hosted by The Exchange at Beverly Gray Wednesdays, Jan 8-Feb 26, 2025

- Applications open for our January cohort of The Business of MWBE!
- Apply now as each applicant has to go through an interview process if you meet all qualifications.
- More information will be coming out soon.



THE BUSINESS OF MWBE: CERTIFICATION EDITION

January 8 - February 26, 2025 | Weekly on Wednesdays from 5:30-7:30 PM
The Exchange is proud to offer our FREE, biannual 8-week program for Buffalo
BIPOC small business owners seeking a NYS Minority and Women Business
Enterprise certification. A pre-screening interview is required for program
acceptance. Spots are limited, so scan the QR code to apply today!



JS CURRY & ASSOCIATES, LLC



THE EXCHANGE AT BEVERLY GRAY

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W W W . T H E E X C H A N G E A T B E V E R L Y G R A Y . O R G

Small Business Resources

BUFFALO STATE SMALL BUSINESS DEVELOPMENT CENTER (SBDC)

- Business Plan Development
- Funding Sources
- Exporting of Goods & Services
- Market Plan Development
- Invention Viability
- Compliance with Licensing & Regulation

https://sbdc.buffalostate.edu/sbdc-services



Small Business Resources (Cont.)

BSU - SBDC SERVICES

- Business Plan Development
- Small Business start ups
- Organizational structure
- Accounting
- Financial Planning
- E-commerce
- Cost analysis
- Loan Information
- Marketing
- Human Resources (HR)
- Employee Training
- And More!



Coming in 2025: Community Benefits Program

WHAT IS A COMMUNITY BENEFITS PROGRAM?



Leverage large scale Buffalo Sewer construction and professional services contracting to deliver positive economic, environmental, and social impacts for residents of our service area.



Elevate and support the work of local nonprofit organizations and schools that support shared education, environmental stewardship, workforce development, and economic goals



How:

Prime companies contracting with BSA are encouraged to assist nonprofit activity in the Buffalo community through workforce development, contracting, education, community improvements, financial or inkind contributions, volunteering and more.



Why:

The goal is to continually increase health, equity, sustainability, and opportunities throughout the Buffalo community through economic, environmental, and social impacts for residents



Potential Community Benefits Program Areas

- -Workforce Development
- Economic Development
- -Education
- Community and Environmental Health











Q&A

Contact Information

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Principal Sanitary Engineer, Buffalo Sewer Authority



Buffalo Sewer Authority Website



buffalosewer.org

Your <u>BEST</u> source of information!

- Consultant, Contractor, and Supplier Opportunities
- Construction Updates
- **FAQs**
- Board Meeting Minutes
- Public Participation Plans



Thank you!

GET IN TOUCH:







