DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Board of Directors
Meeting of the
Environmental Quality and Operations Committee

Thursday, April 15, 2021
9:30 a.m.

Microsoft Teams Meeting
Join on your computer or mobile app
Click here to join the meeting
Or call in (audio only)
+1 202-753-6714,,460683521#
Phone Conference ID: 460 683 521#

9:30 a.m.	**I.**	**Call to Order**	Adam Ortiz Chair
	II.	**Roll Call**	Linda Manley Board Secretary
9:35 a.m.	**III.**	**AWTP Status Update**	Aklile Tesfaye
		1. BPAWTP Performance	
9:45 a.m.	**IV.**	**DC Clean Rivers Update**	Carlton Ray
10:05 a.m.	**V.**	**Action Items**	Joel Grosser/Len Benson

Joint Use

1. Contract No.: 18-PR-CFO-56 - Permit Information Management System, Oracle
2. Contract No.: GS00Q17NSD3009 – IT Voice and Data Services, Verizon
3. Contract No.: 10039 – Geographic Information System (GIS) Software Maintenance, Environmental Systems Research Institute
4. Contract No. 170130 - Soldiers' Home Reservoir Upgrades, American Contracting & Environmental Services, Inc.
5. Contract No.: 180080 - Reclaimed Final Effluent Pump Systems (RFEPS) Upgrades, Ulliman Schutte Construction LLC
6. Contract No: 130180 - Gravity Thickener Upgrades Phase 2, Ulliman Schutte Construction LLC

Non-Joint Use

1. Contract No.: 170070 – Small Diameter Water Main Replacement 14C, Fort Myer Construction Corp.
2. Contract No. N/A: Replacement of Water Mains on Massachusetts Ave, District Department of Transportation (DDOT)

10:35 a.m.	**VI.**	**DC Clean Rivers Rock Creek Virtual Tour**	Seth Charde
10:50 a.m.	**VII.**	**Other Business / Emerging Issues**	
10:55 a.m.	**VIII.**	**Executive Session**	Adam Ortiz Chair
11:00 a.m.	**IX.**	**Adjournment**	

Follow-up Items from Prior Meetings:

1. *VP, DC Clean Rivers: Schedule a virtual tour of GI Sites* ***[On Current Agenda]***
2. *Director, Wastewater Engineering: Provide the Committee with more information on the estimated power generation and consumption at the Blue Plains AWTP.* ***[Target: May 2021]***
3. *SVP, CIP Project Delivery: Provide a compilation of general planning and engineering services contracts executed in 2020 as well as a status update on DC Water's strategy to gradually bring these types of services in-house.* ***[Target: July 2021]***

The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(2); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4)(A); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop members of a public body and staff under D.C. Official Codes § 2-575(b)(12); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.

Wastewater Operations

Blue Plains Advanced Wastewater Treatment Plant – March 2021

Accomplishments & Priorities

Proactive Electrical Maintenance Keeps More Than Just the Lights on at Blue Plains.

With over 40,000 assets used to process wastewater and solids, the Blue Plains Advanced Wastewater Treatment Plant is one of the largest single point users of electricity for the regional utility, Pepco. The plant's huge electrical demand is distributed by a complex system that begins with three 24 Mega Watt (MW) \ 69 kilovolt (kV) transformers that step down the incoming electrical voltage from the grid and distribute to the different Area Substations across the plant. The three transformers are the three pillars upon which the Blue Plains Electrical system is built upon. While a confident level of redundancy is built in, it is critical we always maintain functionality of these transformers.

Recently, planned inspections identified the need for proactive work to extend the life of two of the three transformers, installed in 1992. The oil filled transformers use a nitrogen blanket, and the team had noticed small oil leaks and pressure losses during inspections. With the support of DC Water's Procurement team, the electrical team secured funding and identified an experienced vendor for the complex high voltage work. In early March, the electrical load of the plant was switched to Transformers B & C, and work began on Transformer A. The detailed plan involved re-gasketing and replacement of sunlight damaged components and contact points on the low tap changer. After the work on Transformer A, similar maintenance was conducted on Transformer B. For an idea of size, the transformers each contain almost 6500 gallons of oil. Transformer C, installed in 2013, did not display a need for this work at this time. During the work on Transformer B, air bubbles were noticed, indicating partial seal failure, requiring upgrades to the unit's bushings. A typical 12-week lead time for parts was reduced to just one week through a diligent approach by the Maintenance Services team with the support of the Materials Management (Procurement Department), allowing the work to be conducted promptly.

After three weeks of meticulous work, both transformers were tested and subsequently put under load to return to full service. This was a unique piece of proactive maintenance on two large and critical assets, that extends their life and keeps Blue Plains resilient to electrical risks.

Accomplishments & Priorities

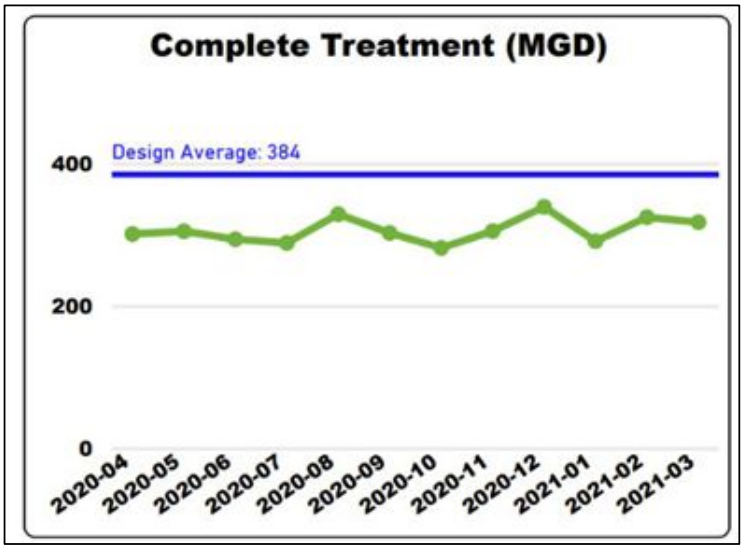
The team: Ray Thompson, Foreman - High Voltage Power Distribution, Sam Wahba - Manager Wastewater Treatment Electrical Maintenance and Scott Perry - Manager Maintenance & Services Parts Materials (Procurement).

Figure 1. Ray Thompson, Foreman, High Voltage Power Distribution, manages the day-to-day activities of DC Water's High Voltage maintenance contractor, which performs preventive maintenance inspections on critical electrical systems, including the three incoming transformers.

Operational Performance

Blue Plains Complete Treatment Performance: The plant performance for the month of March 2021 was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average flow through complete treatment (Outfall 002) was 317 MGD. The volume of captured combined flow treated through the Wet Weather Treatment Facility (WWTF) and directed to Outfall 001 was 30 Million Gallons (MG).

Figure 2. Monthly Average Influent Flow Trend to Complete Treatment (MGD)



Operational Performance

Wet Weather Treatment Facility (WWTF) Performance: In March 2021, a total of 142 million gallons (MG) of combined wet weather flow, captured in the tunnel system, was treated through the WWTF. There was measured overflow to the was approximately 3 MG (Table 1).

Table 1. Wet Weather Treatment Facility (WWTF) Performance

	March 2021 (Draft)	Calendar Year 2021 (Through March)
Total Precipitation, inches (DCA gauge)	2.18	8.77
Total Volume Captured in the Anacostia Tunnel, MG	142	345
Measured Overflow, MG	3	3
Percent Captured**	98%	99%
Screenings and Grit Capture, tons	275	762

Note

*Based on preliminary data.

**Expected Capture ~80%

Class A Biosolids Production: In March, biosolids hauling averaged 350 wet tons per day (wtpd). All biosolids produced during the month met Class A Exceptional Quality (EQ) requirements required by EPA. Fecal Coliform values on daily process monitoring samples remained below the 1,000 MPN*/gram required for Class A biosolids - consistent with the low levels measured historically.

*Most Probable Number (MPN) per gram measures statistical probability of number of organisms

Bloom Marketing: The average quantities of Class A biosolids transported and applied on farms and the quantities marketed as Bloom are shown on the graph below. In February, Blue Drop sold approximately 1,100 wet tons* of Bloom (Figure 3). The remaining 9,750* wet tons not sold into the market were land applied through DC Water (through Blue Drop) and WSSC contracts.
*Based on preliminary data.

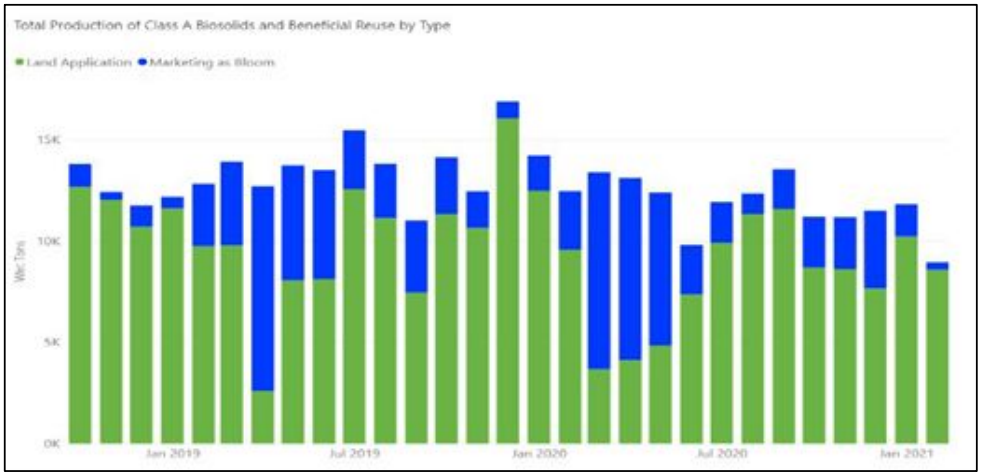
Bloom Outreach: Many customers have a cyclical need for Bloom due to weather constraints, project cycles, regulatory limits on fertilization, and/or the ability to work Bloom into the soil. The spring season is usually the busiest because customers can again use fertilizer and the growing season begins. In anticipation of the spring season, Blue Drop hosted four webinars on Bloom for various customer segments, in conjunction with the member associations for these segments. In addition, Blue Drop launched a Google ad campaign for each segment, totaling more than 1,300 clicks in the last 7 days, conducted a call-a-thon by the sales team in February, reaching out to more

Operational Performance

than 200 leads, placed ads in the leading agriculture publication, and shared an April Fools marketing campaign that brought more than 300 visitors to Blue Drop's website.

The largest customer segment in the spring is agriculture. Historically farms have purchased 50% or more of their orders in the spring. For the spring, the goal is to move 20,000 tons of fresh material to farms. Landscapers and resellers purchase material when they win projects, and we expect to sell about 1,800 cubic yards of blends. Construction customers, like South Capitol Bridge, will continue to pick up material as needed for projects. Retailers purchased bags at the end of winter for the spring season. The number of retailers carrying bags has tripped and Blue Drop is now offering a map of all retailers and resellers carrying Bloom on its website.

Figure 3. Tons of Class A Biosolids Produced Marketed as Bloom (blue) and Land Applied (green)



Bloom Benefits Example: Blue Drop is developing markets in the construction and landscaping industry. During a recent webinar DC Water staff presented Bloom success stories along with one of the contractors, Urban Zink, who has been buying Bloom for its athletic fields and other restoration construction projects. Urban Zink is convinced that Bloom is the best product and the best value for their business and were an early adopter of Bloom use. The webinar highlighted the benefits of Bloom use to an audience of potential new users and buyers. The audience had an overwhelmingly positive reaction, and we intend to continue this type of outreach. The graphic below from the Urban Zink presentation shows an athletic field (center) recently restored with Bloom, and for comparison an additional field (top) that has not yet undergone restoration (Figure 4)

Operational Performance	**Figure 4. Athletic Field (center) recently restored with Bloom** 

District of Columbia Water and Sewer Authority
David L. Gadis, CEO and General Manager

Briefing on:

DC Clean Rivers Project Quarterly Update

Briefing for:

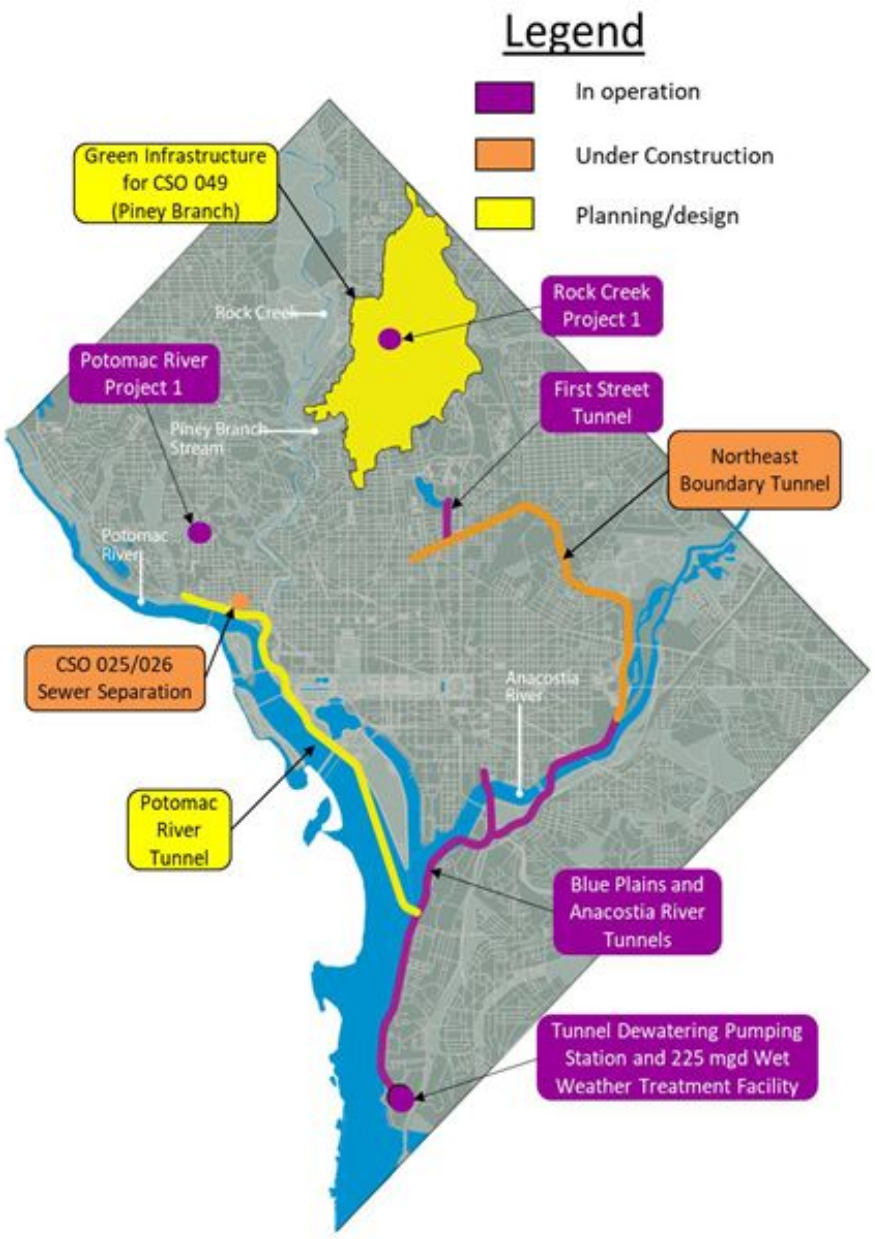
Environmental Quality & Operations Committee Meeting

April 15, 2021

DCWATER.COM

Project Status

- Anacostia River tunnel system commissioned March 20, 2018 (100 million gallons)
  - More than 10 billion gallons captured to date!
- Northeast Boundary Tunnel under construction
  - Mining is 96% complete
- GI Program
  - Next GI project in Rock Creek, RC-B design underway. Procurement of Contractor and CM underway
  - Two GI maintenance contracts were awarded in February 2021.
- CSO 025/026 Sewer Separation Project awarded
  - NTP issued on January 28, 2021
  - Preconstruction submittal process ongoing
- Potomac River Tunnel Projects
  - Contract A - SOQs received February 9, 2021
  - Contract B - Project Review Board Meetings held March 8 – 11, 2021



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Anacostia Tunnel System Performance Since March 20, 2018

Month	Rainfall, DCA Gauge (in)	Volume Captured by Tunnel (MG)	Measured Overflow (MG)	% captured
March 20 -31, 2018	1.48	20	0	100%
April 2018	3.59	249	10	96.0%
May 2018	8.73	860	13	98.5%
June 2018	5.21	265	47	85.0%
July 2018	9.73	679	260	72.3%
August 2018	5.19	334	14	95.9%
September 2018	9.73	784	116	87.1%
October 2018	3.06	164	0	100%
November 2018	7.57	777	5	99.3%
December 2018	5.82	468	100	82.3%
January 2019	3.30	259	0	100%
February 2019	3.52	74	0	100%
March 2019	4.00	337	46	87.9%
April 2019	2.24	77	0.1	99.9%
May 2019	4.97	311	1	99.7%
June 2019	4.27	134	0.1	100%
July 2019	6.49	339	77	81.4%
August 2019	1.99	186	22	89.3%
September 2019	0.25	19	0	100%
October 2019	6.66	450	18	96.2%
November 2019	1.37	55	0	100%
December 2019	2.80	80	0	100%
January 2020	2.79	150	0	100%
February 2020	3.21	143	0.6	99.6%
March 2020	2.31	38	0	100.0%
April 2020	6.30	338	127	72.7%
May 2020	2.49	169	0	100.0%
June 2020	3.51	205	0	99.9%
July 2020	6.51	265	2	99.2%
August 2020	8.73	463	52	89.8%
September 2020	5.53	267	186	59.0%
October 2020	4.86	264	6	97.6%
November 2020	6.14	456	25	94.7%
December 2020	4.96	430	0	100%
January 2021	1.93	56	0	100%
February 2021	4.66	147	0	100%
March 2021 (DRAFT)	2.18	142	3	100%
Total	**168.08**	**10,450**	**1,133**	**90.2%**

Over **10 billion** gallons captured to date

Over 5,417 tons of trash, debris, and other solids captured

Exceeding predicted capture rate (90%>80%)

First year in operation was the wettest year on record for the District of Columbia

Trash, Debris and Solids Removal from Screening Shaft at Tunnel Dewatering Pumping Station

Managing Program Through Covid

- Clean Rivers Office Staff
  - Staff are teleworking
- Clean Rivers Field Staff
  - Procedures in place for field staff monitoring construction sites to work out of specific offices and to not travel between multiple construction sites to minimize the risk of affecting other groups
- Construction Contractors
  - Working with our construction contractors to identify and implement procedures to minimize contact and spreading of the virus while allowing work to continue
  - Daily temperature checks/assessment of work force performed
  - Personal protective equipment, social distancing and cleaning protocols observed
  - No visitors or tours of tunnel
  - Contact tracing and isolation for affected staff
  - Conditions established for staff to return to work after illness
- Northeast Boundary Tunnel Contractor reserved its rights for impacts due to Covid
  - Confined environment in tunnel presents unique challenges
  - Resolving project impacts monthly with no reservation of rights. How pandemic plays out in the future may affect the rights reservation
  - Working with team to minimize impacts on construction
- Vaccinations are becoming more readily available

Construction has not been stopped and we continue to meet consent decree deadlines:

- **Potomac GI Practicability Assessment approved by EPA February 8, 2021**
- **CSO 025/026 Notice to Proceed issued January 28, 2021**
- **Northeast Boundary Tunnel excavation and lining 96% complete**
- **Potomac River Tunnel design continues**

Division J – Northeast Boundary Tunnel Construction Progress - Tunnel

- Tunnel Boring Machine (TBM) has excavated 25,560 feet (96%) and 4,256 tunnel segment rings installed.
- Hyperbaric Intervention carried out at STA 236+65 to replace 21 cutterhead ripper tools, completed on January 26th.
- Successfully completed tunnel excavation under the T Street and Pumping Station sites.
- Open Air Intervention carried out at STA 251+58 (Pumping Station site) to replace all worn cutterhead tools, completed on February 24th.
- Successfully completed tunnel excavation under the Florida Ave site on March 26th.
- TBM excavated underneath 4 of 6 main water lines along Rhode Island Ave.
- Currently excavating under Rhode Island Ave.

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Northeast Boundary Tunnel Video

Division J – Northeast Boundary Tunnel Construction Progress – Mt. Olivet Road

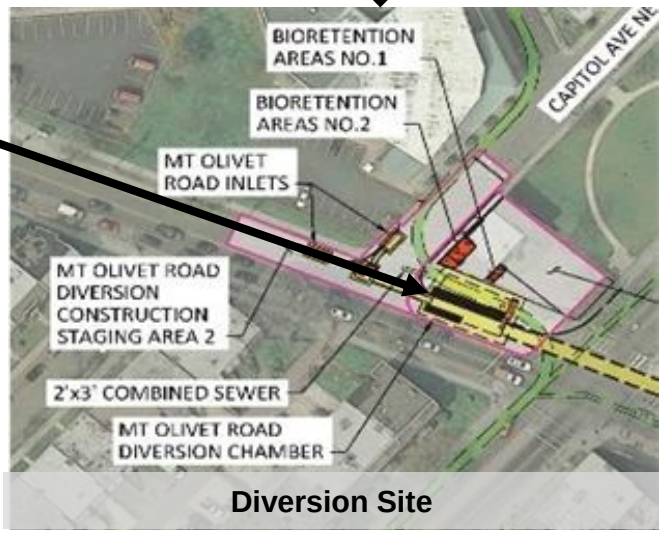
Drop Shaft Site

- Completed Adit permanent liner construction and started shaft hydraulic/internal structures construction.
- Completed Ventilation Control Vault (VCV) excavation.
- Started Approach Channel (AC) excavation and support of excavation (SOE) installation.

Diversion Site

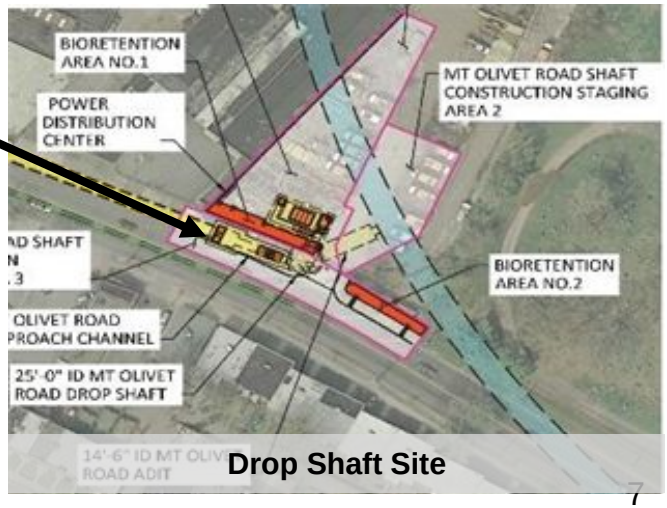
- Installed Near Surface Structures pile SOE system.
- Started Diversion Chamber (DC) excavation & SOE installation.

Diversion Chamber Excavation & SOE Installation



Diversion Site

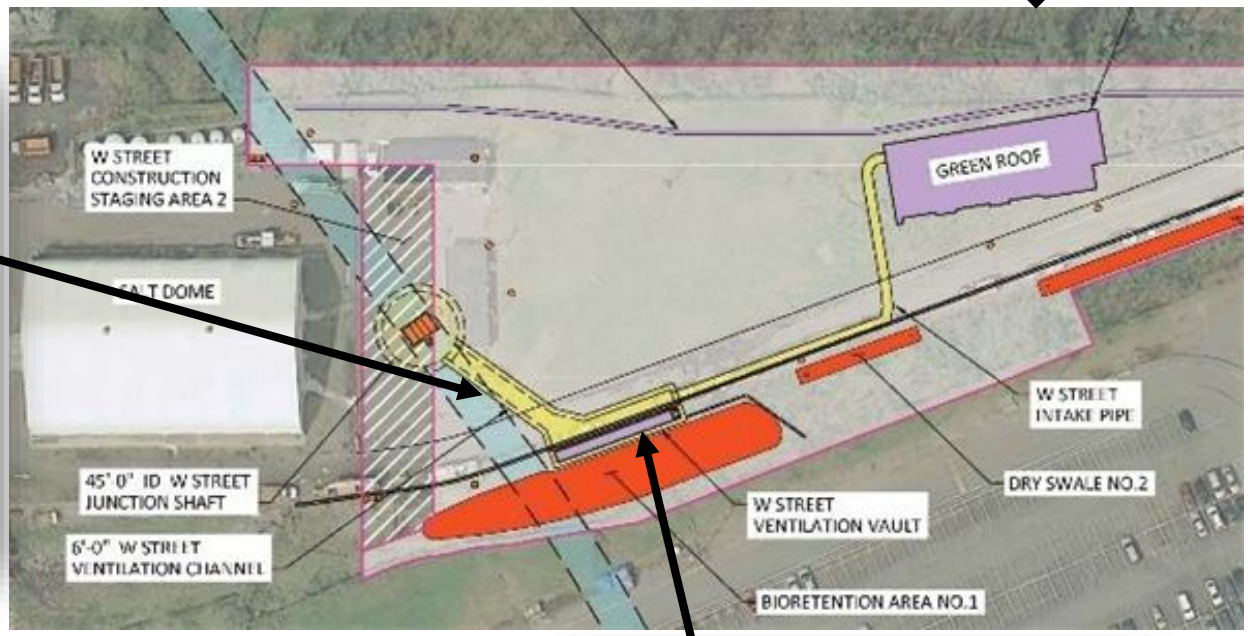
Approach Channel Excavation & SOE Installation



Drop Shaft Site

Division J – Northeast Boundary Tunnel Construction Progress – W Street

Ventilation Channel



- Completed excavation of Ventilation Channel (VC) and Ventilation Vault (VV).
- Completed base slab installation of VC/VV.
- Began Ventilation Control Facility excavation.

Ventilation Vault

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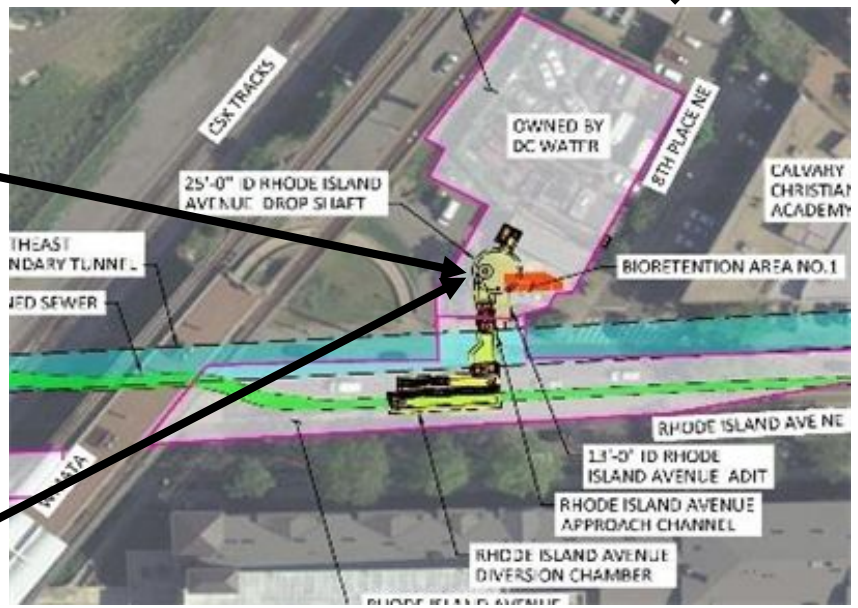
Division J – Northeast Boundary Tunnel Construction Progress – Rhode Island Ave

Drop Shaft

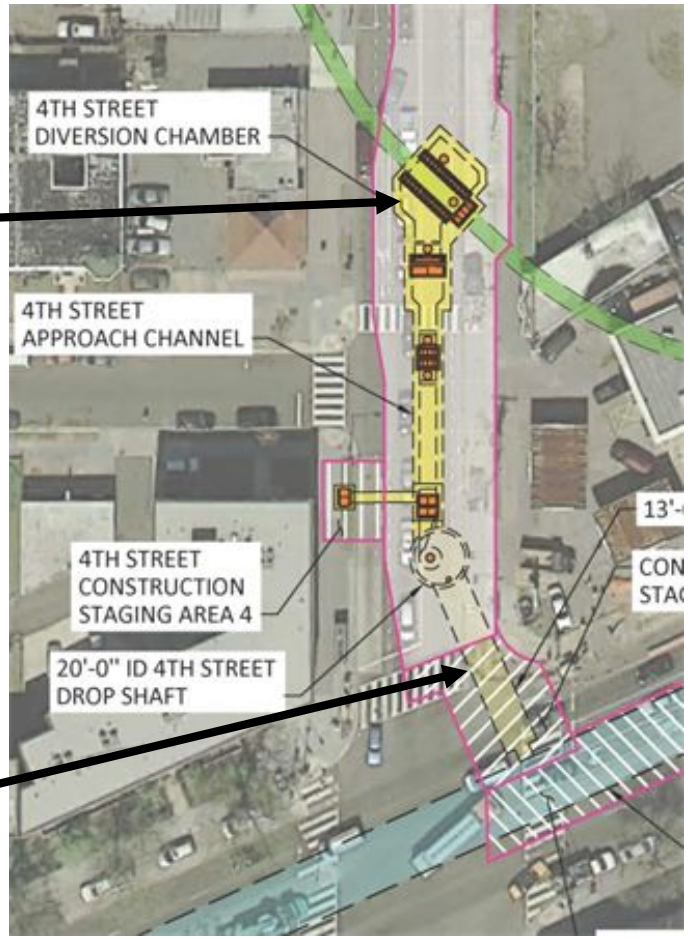
Drop Shaft



- Completed the jet grout base plug for the Diversion Chamber
- Completed Drop Shaft excavation and installation of base slab
- Completed Drop Shaft concrete liner lifts 1-2

Division J – Northeast Boundary Tunnel Construction Progress – 4th Street

Diversion Chamber Roof Slab



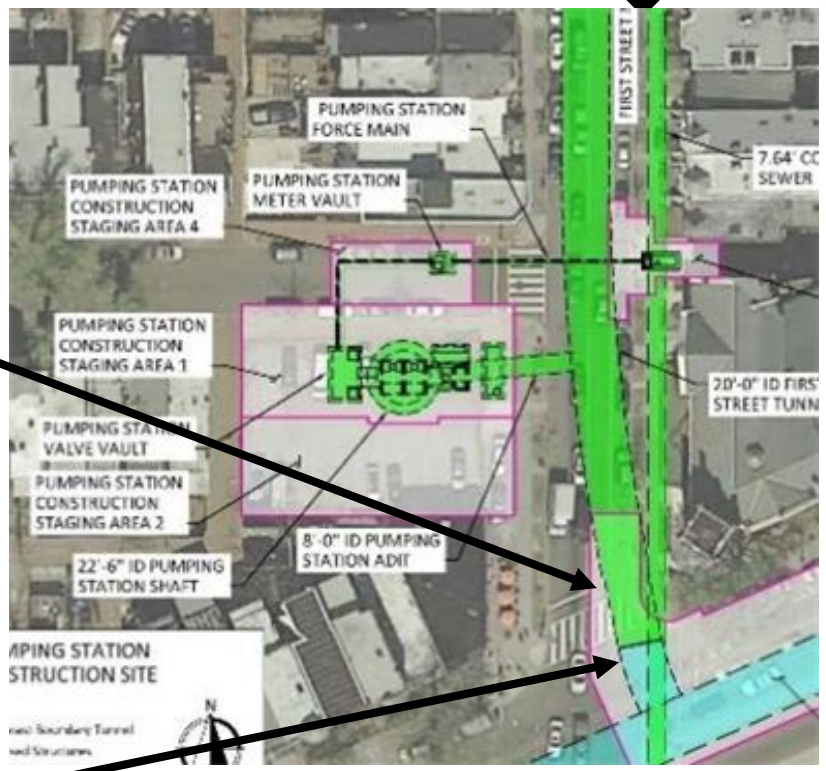
- Completed Adit permanent liner
- Completed Diversion Chamber interior walls and roof slab
- Resumed Approach Channel excavation

Adit Concrete Liner

Division J – Northeast Boundary Tunnel Construction Progress – Pumping Station

First Street Road Restoration – Pouring Concrete Base

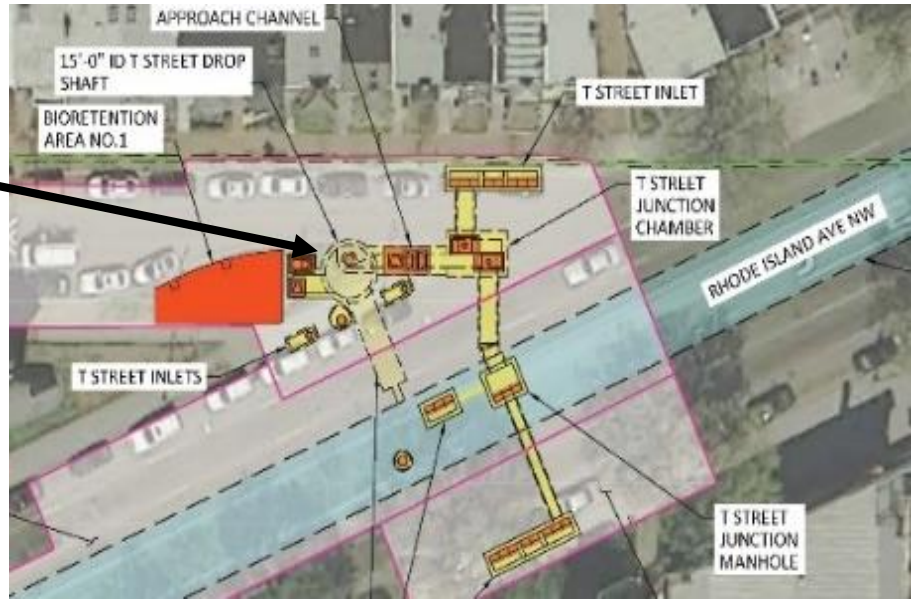
Rhode Island Avenue Road Restoration – Concrete Base



- Completed Road restoration concrete sub-base
- Started temporary asphalt top coat

Division J – Northeast Boundary Tunnel Construction Progress – T Street

Shaft CIP Liner Rebar Installation Elev. 28.5



- Completed excavation of shaft to Elev 28.5
- Started installation of shaft reinforcing and formwork for final concrete liner
- Completed soldier pile installation for Vent Vault and STDSWR4

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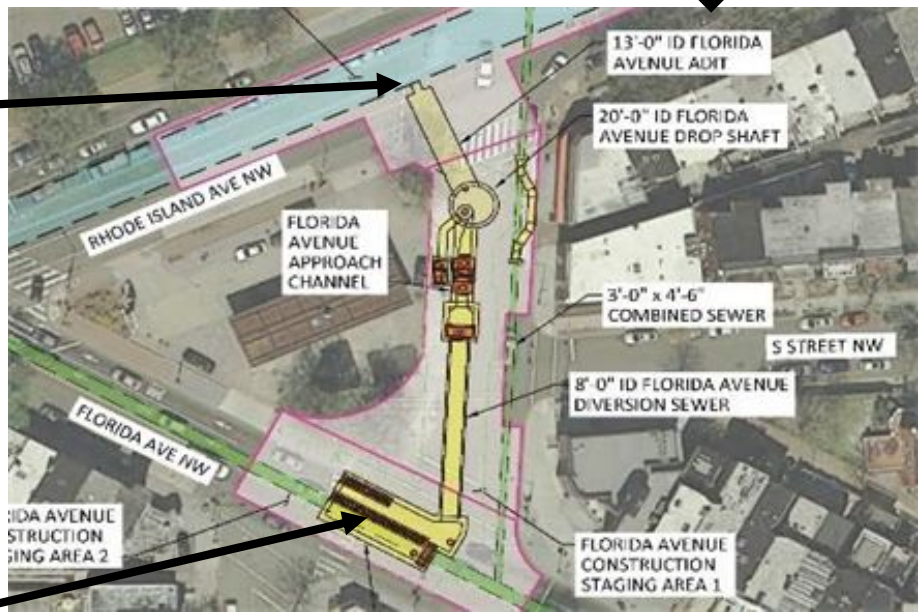
Division J – Northeast Boundary Tunnel Construction Progress – Florida Ave

Adit/Tunnel Connection Ground Improvement



Diversion Structure Construction

- Completed Drop Shaft concrete liner lifts 4 through 7.
- Completed jet grouting for the Adit/Tunnel connection
- TBM excavated tunnel through jet grouted zone
- Continued excavation of the Diversion Chamber

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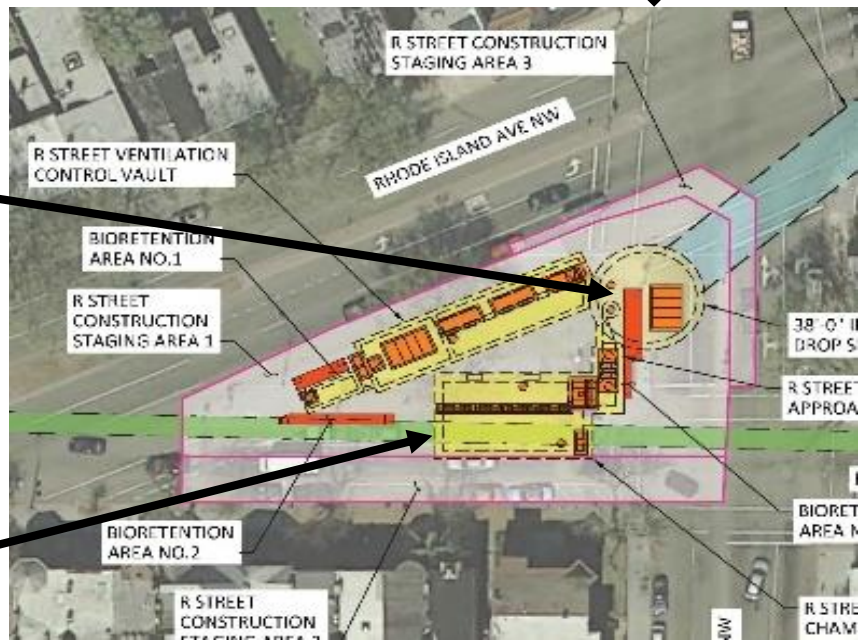
Division J – Northeast Boundary Tunnel Construction Progress – R Street

Drop Shaft CIP Liner Installation

Permeation Grouting



- Completed permeation grouting where the existing sewer ties into either side of the Diversion Chamber support of excavation system
- Completed shaft concrete liner lifts 1 through 3
- Continue installing shaft concrete liner

Division J – Northeast Boundary Tunnel Public Outreach Efforts

Partnerships with Main Street Organizations	**Extension of Memoranda of Agreements** Currently coordinating to extend (MOAs) for another 12 months with emphasis on direct assistance/grants. **Monthly Coordination Meetings** Coordination on-going with Main Streets as pandemic–impacted restaurants prepare to re-open as outdoor dining restrictions are lifted. **Lunch Purchase Program** Coordinating with Main Street organizations to provide lunches to construction site personnel purchased from local small businesses impacted by NEBT construction. To date 3 lunch events have served locally purchased meals to crews at 6 construction sites.
Key Virtual Meetings and Issues	**Tunnel Forums** Two meetings are scheduled in April for residents. **Attended regular monthly ANC 5E virtual meeting** **Assisted Office of Marketing and Communications and Government Affairs** with coordinating GM's response to ANC 5E letter about extended working hours, noise and traffic at the Florida Ave. NW construction site.
Commuter Outreach Program	**Commuter Outreach via Media Advertising** Coordinating next phase of commuter outreach program through local radio stations, WHUR and WAMU based on availability of airtime.

Lunch Purchase Program for Crews at T Street and Pumping Station Construction Sites

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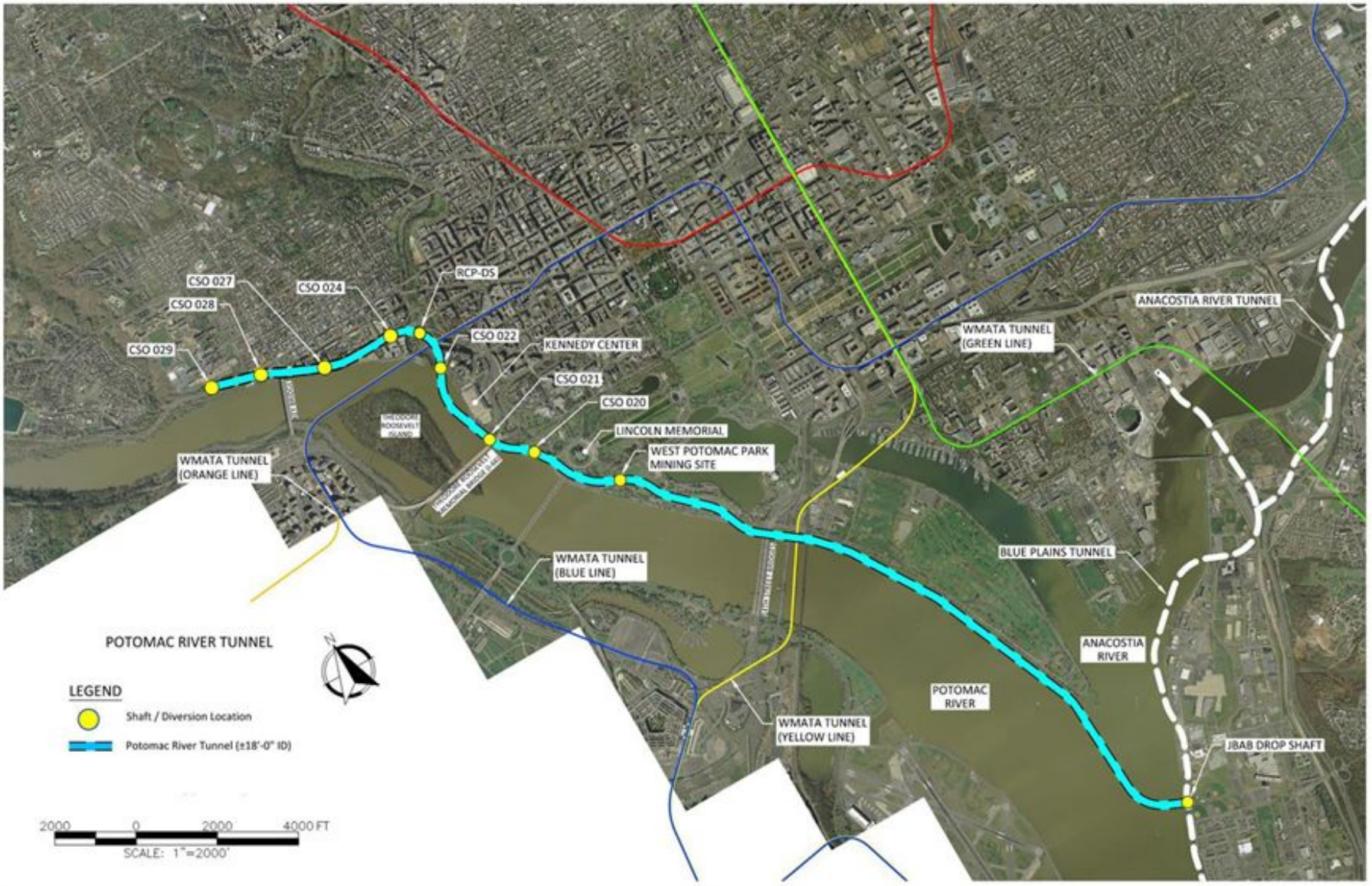
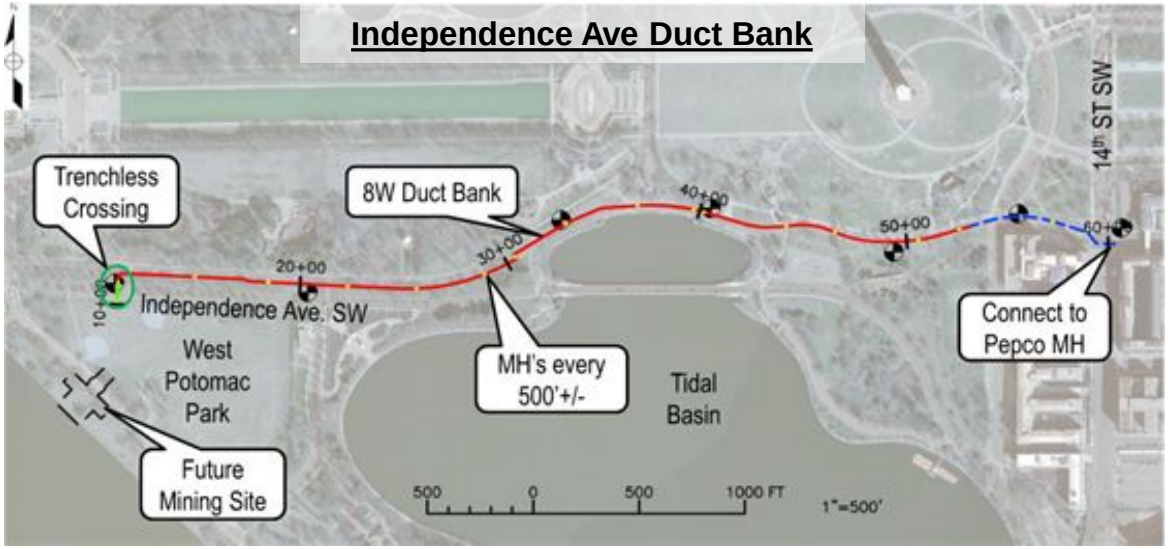
Potomac River Tunnel Projects



Potomac River Tunnel Contract A Advanced Utility Construction Project

- Schedule for installation of electrical power to tunnel construction sites:
  - SOQ responses to RFQ: Received February 9
  - RFP: Issued March 12
  - Technical Collaboration: April 5 – 9
  - Technical Proposals Due: May 6
  - Contract Award: July 2021
  - Construction: July 2021 – December 2022
- Ongoing coordination with Pepco, Washington Gas, Verizon, and other communication utilities
- Other relocations to be performed by individual utilities throughout calendar 2021, 2022



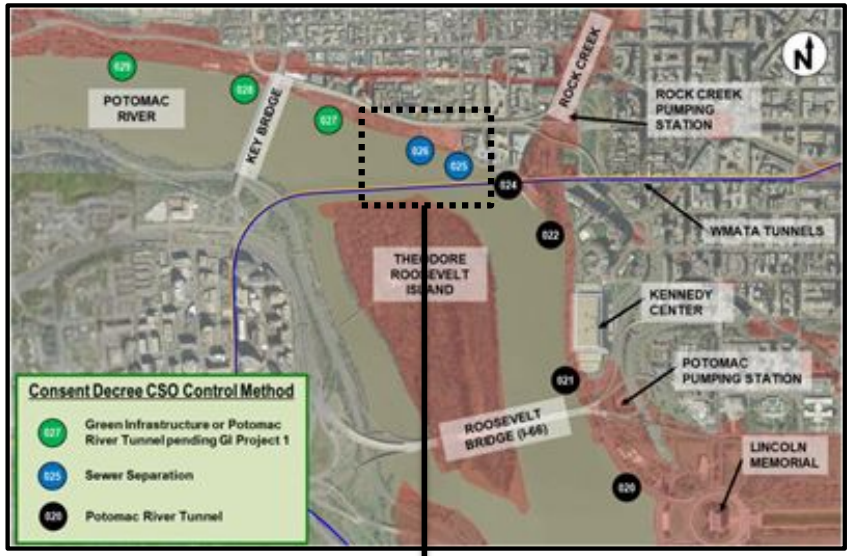
Potomac River Tunnel Contract B Tunnel System Construction Project

- Design Update
  - 60% contract documents distributed to DC Water, and comments received February 26
  - Project Review Board meetings held March 8 – 11, 2021
  - Ongoing geotechnical borings investigation and other subsurface investigations continue along the tunnel alignment
  - Coordinating with various external stakeholders, including other utilities, NPS, DDOT, WMATA, Georgetown University, and community groups
    - Follow-up meetings are being scheduled with stakeholders and agencies to finalize agreements for 90% design.
- Schedule
  - Tunnel Contract (Best Value Design-Build):
    - Industry Outreach: May-June 2021
    - 90% RFP: December 2021
    - 100% RFP: June 2022
    - Award, Begin Construction: Summer 2023
    - Place in Operation: February 2030

CSO 027 Site – Construction-Phase and Post-Construction Renderings

CSO 025/026 Sewer Separation Project

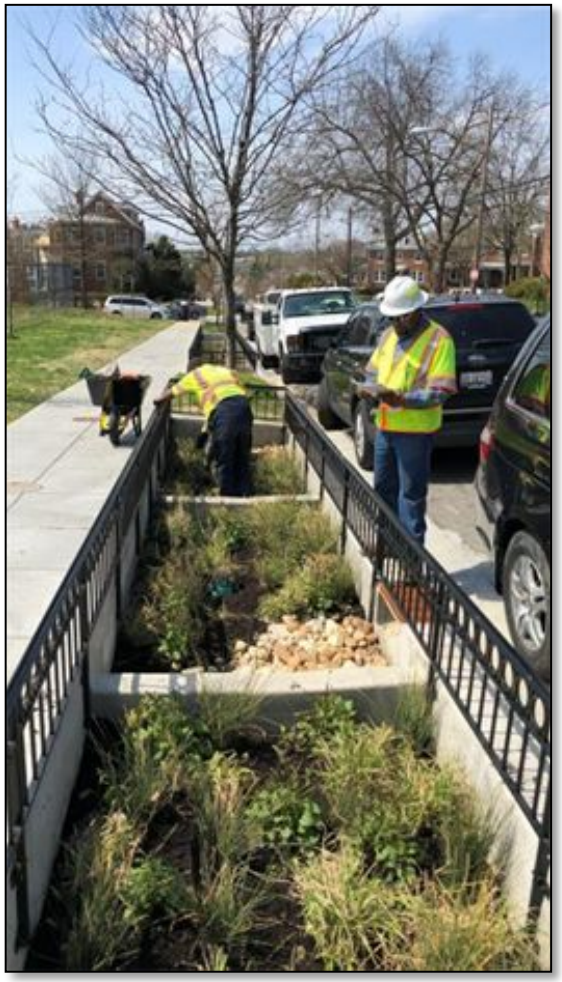
- Anchor Construction Corporation received Notice to Proceed January 28, 2021
- Preconstruction submittal process is ongoing
- Expected start of construction is May 2021
- Ongoing coordination with the District and utility agencies prior to start of construction.
  - WGL subcontractor (InfraSource) currently relocating gas lines at project sites
- Continued community outreach to engage Advisory Neighborhood Commission (ANC), Georgetown Business Improvement District (BID), and community prior to start of construction.
  - Preconstruction Community Meeting at 6:30 PM, on April 20, 2021
  - Relocation of Streateries (Susheria Streatery will be relocated)



GI Program
Practicability Results and Next Steps

✓ Rock Creek - Completed

- Practicability Assessment approved by EPA on November 10, 2020
- Non-Material Consent Decree Modification filed in Federal Court on 12/22/20
- ***Hybrid approach*** of gray and green moving forward (same as approved by DC Water Board in June 2020)
- Same schedule, mix of technologies, degree of control and performance as LTCP
- Next Rock Creek GI contract (RC-B) for 22 acres in procurement (RFQ phase). NTP anticipated in December 2021 pending Board approval.



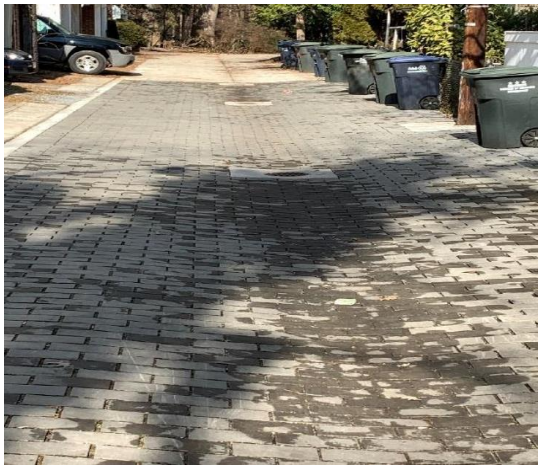
✓ Potomac River – Completed

- Practicability approved by EPA on February 8, 2021
- DC Water recommended that ***GI is impracticable*** on the Potomac due to historic District
- ***All gray approach*** moving forward. Will extend Potomac Tunnel to CSO 029 (same as approved by DC Water Board in June 2020)

GI Maintenance
Ongoing Contracted Maintenance

✓ **Contract No. 200060 – Anchor Construction Corporation**

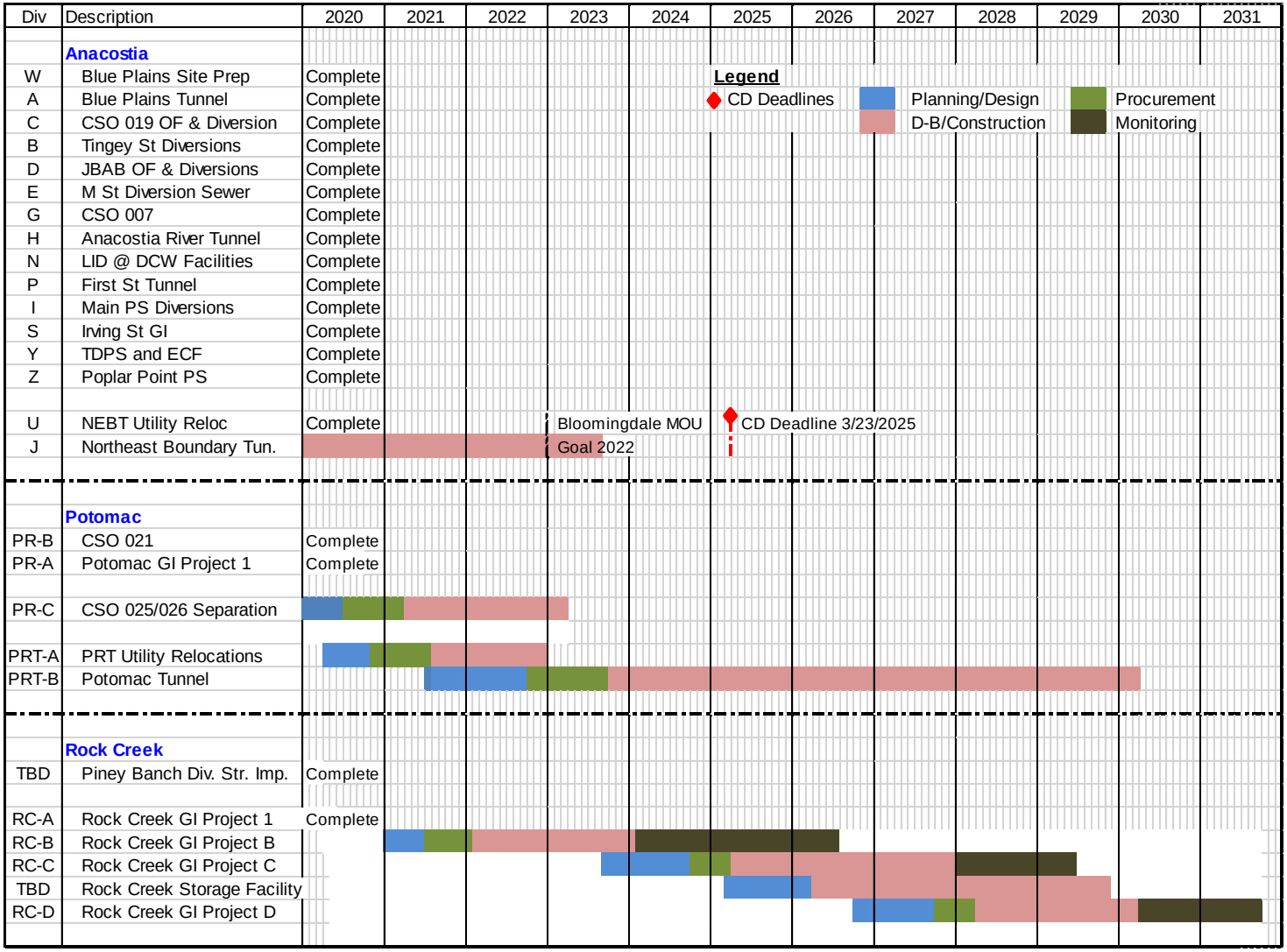
- Contract awarded February 1, 2021 in the amount of $1,599,454.00
- First year purchase order executed in the amount of $533,151.33 for the period February 1, 2021 through September 30, 2021
- Maintenance activities are underway



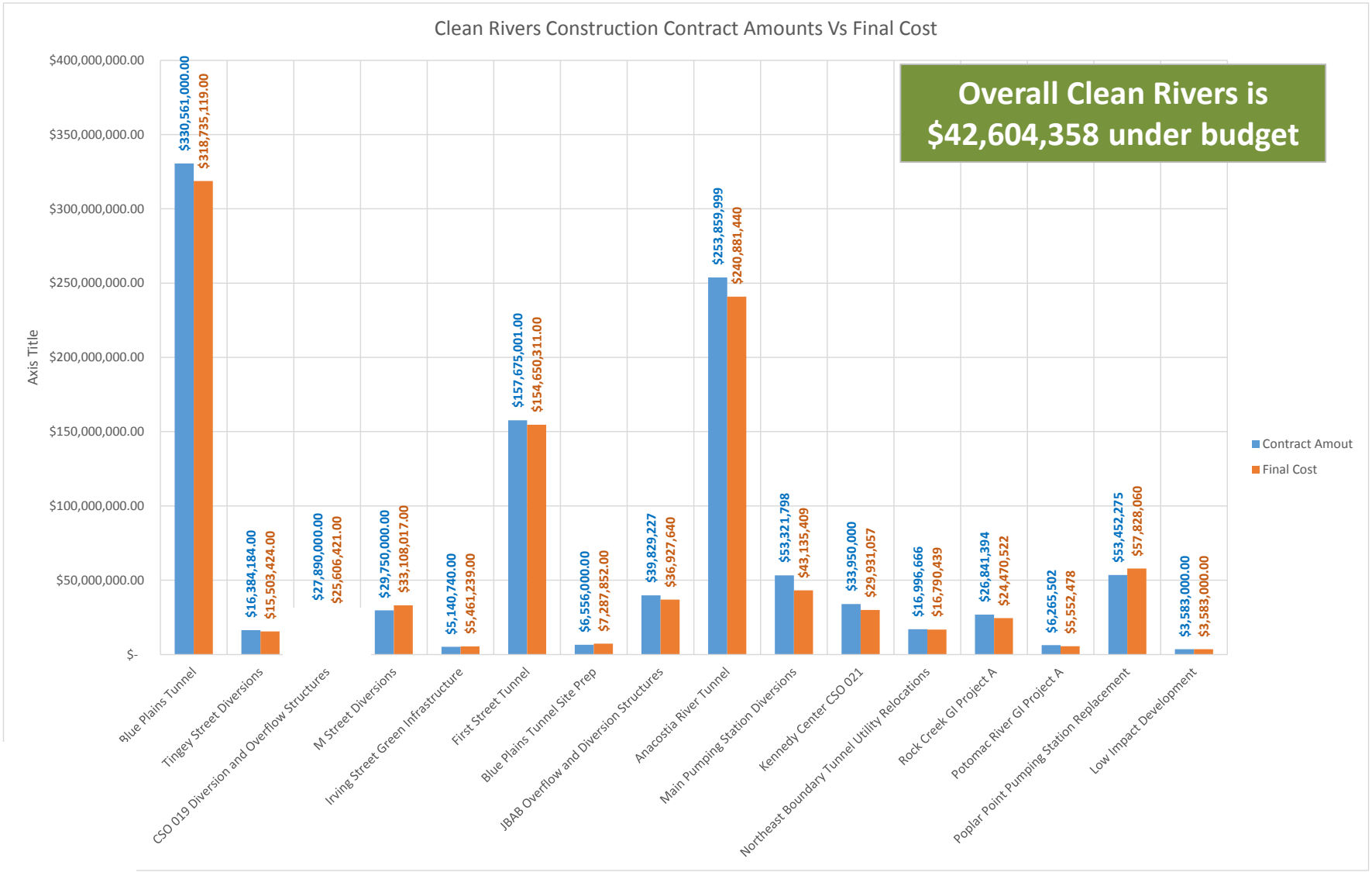
✓ **Contract No. 200070 – National Service Contractors, Inc (NSC)**

- Contract awarded February 1, 2021 in the amount of $2,188,090.00
- First year purchase order executed in the amount of $729,363.33 for the period February 1, 2021 through September 30, 2021
- Maintenance activities are underway

DC Clean Rivers Schedule

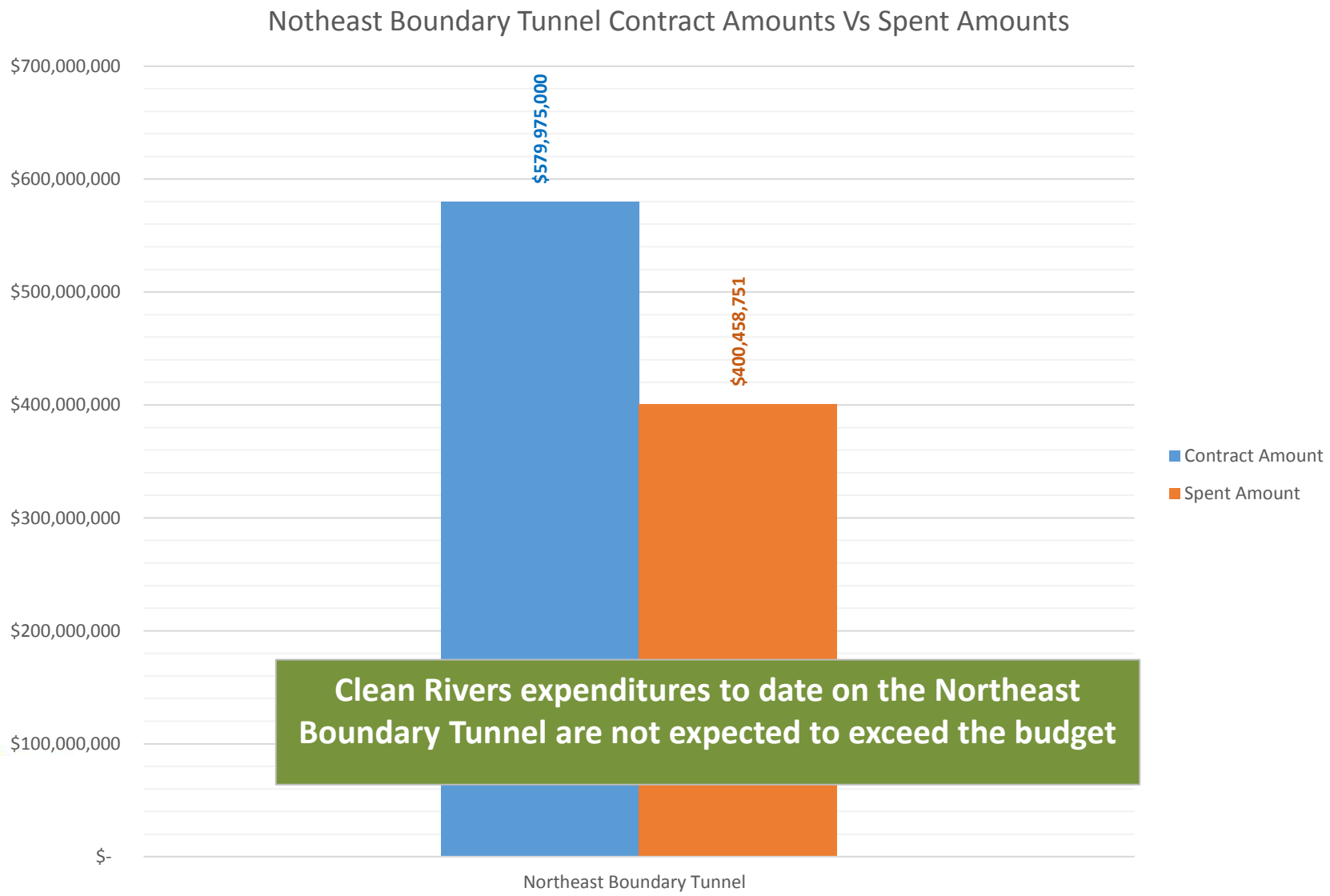


Clean Rivers Budget for Completed Contracts



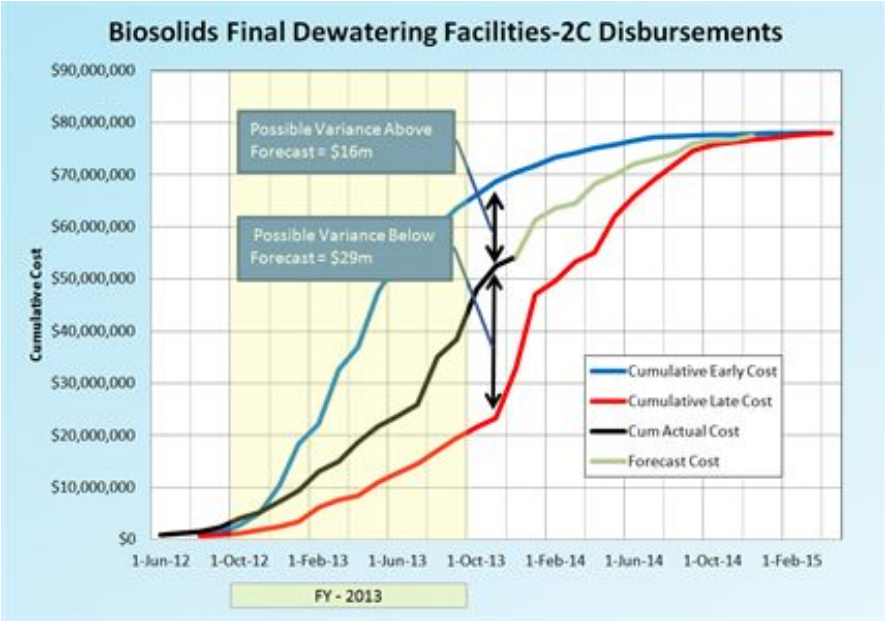
23

Clean Rivers Budget for Northeast Boundary Tunnel



Clean Rivers Disbursements

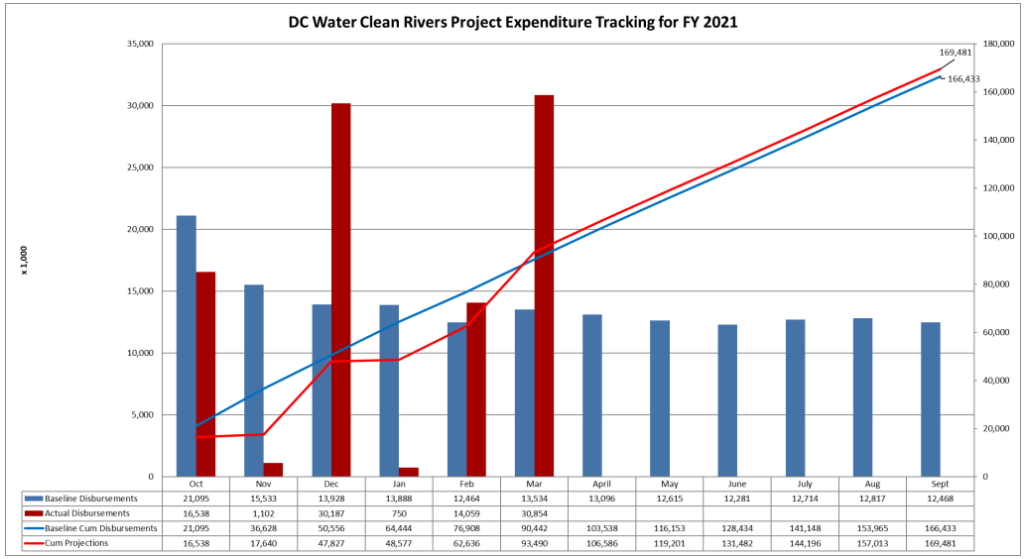
Contractor can complete noncritical work early or late and still be on time; two different curves.



"A comparison of actual disbursements with projected disbursements is not an accurate indicator of project, program, service area or CIP health!"

Source: Dave McLaughlin, March 2014 presentation to EQ&SS and Finance & Budget Committees

Clean Rivers slightly exceeded its planned disbursements for fiscal year 2020



- During November and January, no significant payments were posted to the system due to delayed submittal of invoices by the Northeast Boundary Tunnel Design Builder.
- During December and March two invoices by the Northeast Boundary Tunnel Design Builder posted.
- DCCR expects to meet its spending goal for FY2021.

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION

Permit Information Management System (PIMS) Software (Non-Joint Use)

Approval to modify Oracle ERP Contract No. 18-PR-CFO-56 to add Oracle Permit Information Management System (PIMS) Software in the amount of $1,118,426.65 for software subscription up to 8 years and 3 years of managed care service and $1,438,226.24 for system implementation.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Oracle America, Inc. 500 Oracle Parkway Redwood Shores, CA 94065	N/A	N/A

DESCRIPTION AND PURPOSE

Original Contract Value:	$496,793.90
Base-Term of Contract:	05-15-2019 – 05-14-2020
No. of Option Years in Contract:	9
Option Period Total Value:	$5,251,013.69
Option Period Date:	05-15-2020 – 05-14-2029
Option Period Modification:	**$2,556,652.89**
Option Period Date:	**05-15-2021 – 05-14-2029 (OY2 through OY9)**
Total Contract Value:	**$8,304,460.48**

Purpose of the Contract:

The purpose of this contract action is to add the software subscription fee of the Oracle Permit Information Management System (PIMS) Software up to 8 years, the system implementation cost, and 3 years of managed care service to the original Oracle ERP Contract No. 18-PR-CFO-56 that was executed on 5/15/2019. The software subscription will be renewed and paid annually.

Contract Scope:

The Oracle Permit Information Management System (PIMS) provides permit application processing, plan review, inspections, timekeeping, payment processing, financial account balances, refund requests and processing, and account overages. The software subscription will include all updates, patches, fixes, maintenance, support, and database during the term of the contract. The requested funding also includes implementation, integration, licenses, stabilization, and 3 years of managed care service.

The Oracle PIMS was selected to provide seamless integration with Oracle ERP and other DC Water applications such as IBM Maximo, GIS, Live Link (Document Management) and Bluebeam. The Oracle PIMS can process permits efficiently by streamline the permit project lifecycle to move between phases, people, and departments with accurate and up to date information.

Operating	SaaS fee after implementation	$1,030,426.65
	Managed Care Service	$88,000.00
	Total Operating	**$1,118,426.65**

Capital	Implementation	$1,000,000.00
	Allowance	$200,000.00
	SaaS fee during implementation	$230,226.24
	3-mos stabilization support after Go-Live	$8,000.00
	Total Capital	**$1,438,226.24**

Spending Previous Year (on ERP):

Cumulative Contract Value: 05-15-2019 – 05-14-2029: $5,747,807.59
Cumulative Contract Spending: 05-15-2019 – 05-14-2021: $857,763.31

Contractor's Past Performance:

According to the COTR, the Contractor's quality of product and services, timeliness of deliverables; conformance to DC Water's policies, procedures and contract terms; and invoicing all meet expectation and requirements.

No LSBE participation

PROCUREMENT INFORMATION

Contract Type:	Goods / Services	**Award Based On:**	Best Value
Commodity:	Software	**Contract Number:**	18-PR-CFO-56
Contractor Market:	Open Market with Preference Points for LBE and LSBE participation		

BUDGET INFORMATION

Funding:	IT ESC/LSC Capital Equipment	**Departments:**	Information Technology
Service Area:	DC Water Wide	**Department Heads:**	Thomas Kuczynski

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100%	$1,438,226.24
Washington Suburban Sanitary Commission	0%	$0.00
Fairfax County	0%	$0.00
Loudoun Water	0%	$0.00
Other (PI)	0%	$0.00
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$1,438,226.24**

BUDGET INFORMATION

Funding:	Operating	**Departments:**	Permit Operations
Service Area:	DC Water Wide	**Department Heads:**	Brian T. McDermott

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100%	$1,118,426.65
Washington Suburban Sanitary Commission	0%	$0.00
Fairfax County	0%	$0.00
Loudoun Water	0%	$0.00
Other (PI)	0%	$0.00
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$1,118,426.65**

Armon Curd Digitally signed by Armon Curd DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Customer Service, cn=Armon Curd, email=Armon.Curd@dcwater.com Date: 2021.04.07 13:45:17 -04'00'
_____/_____
Armon Curd Date
EVP of Customer Experience

Leonard Benson Digitally signed by Leonard Benson DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Engineering, cn=Leonard Benson, email=Leonard.Benson@dcwater.com Date: 2021.04.07 14:11:53 -04'00'
_____/_____
Leonard R. Benson Date
Senior Vice President of CIP Project Delivery

Digitally signed by Dan Bae DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae Date: 2021.04.07 16:07:50-04'00'
_____/_____
Dan Bae Date
VP of Procurement and Compliance

Matthew T. Brown Digitally signed by Matthew T. Brown Date: 2021.04.08 10:50:13 -04'00'
_____/_____
Matthew T. Brown Date
CFO and EVP of Finance and Procurement

_____/_____
David L. Gadis Date
General Manager and CEO

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES TASK ORDER AWARD FUNDING
For Telecommunication Services
(Joint Use)

This action is to fund the Task Order Award of IT Voice and Data services under the GSA's Enterprise Infrastructure Solutions (EIS) contract to Verizon Business Network Services for the Base Year plus two Option Years in the total amount of $2,079,700.00.

CONTRACTOR/SUB/VENDOR INFORMATION		
PRIME: Verizon Business Network Services 22001 Loudoun County Parkway Ashburn, VA 20147	**SUBS:** N/A	**PARTICIPATION:** N/A

DESCRIPTION AND PURPOSE

Base Period Contract Value:	$672,843.00
Base Contract Period:	1 Year
No. of Option Years:	2
Anticipated Base Period Start Date:	05-30-2021
Anticipated Base Period Completion Date:	05-29-2022
Proposal Closing Date:	03-01-2021
Proposals Received:	2
Proposal Price Range:	$672,843.00

Purpose of the Task Order:

Provide Telecommunication Services throughout the Authority.

Task Order Scope:

Provide Analog Telephone Services, Voice Over IP, Toll Free Service, Transparent LAN Services (TLS) SCADA Network integration with Enterprise (TLS), Internet access, Ethernet Transport Service (ETS), Direct Inward Dialing service, Security Service, Data Network Circuits and other Telecommunication Services throughout the Authority consisting of over 5,300 service instances/connections. This Task Order Award under the GSA's EIS telecommunications contract will provide the "Like for Like" transition of telecommunication services currently provided by Verizon to DC Water on GSA's expiring Washington Interagency Telecommunications System (WITS) 3 and Networx contracts.

Supplier Selection:

Procurement issued a Task Order solicitation to the nine suppliers on the GSA Enterprise Infrastructure Solutions (EIS) contract. Two firms responded, one firm's proposal was deemed non-responsive and disqualified. Based on Verizon Business Network Services responsive proposal and their satisfactory service to DC Water on the current GSA contracts, Verizon Business Network Services was selected for the Task Order Award.

PROCUREMENT INFORMATION

Contract Type:	GSA EIS IDIQ	**Award Based On:**	Best Value
Commodity:	Good and Services	**Contract Number:**	GS00Q17NSD3009
Contractor Market:	GSA EIS IDIQ Vendors		

BUDGET INFORMATION

Funding:	Operating	**Department:**	Information Technology
Project Area:	DC Water Wide	**Department Head:**	Thomas L. Kuczynski

ESTIMATED USER SHARE INFORMATION

User – Operating	Share %	Dollar Amount
District of Columbia	87.73%	$1,824,520.81
Washington Suburban Sanitary Commission	9.22%	$191,748.34
Fairfax County	1.76%	$36,602.72
Loudoun County	0.80%	$16,637.60
Other (PI)	0.49%	$10,190.53
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$2,079,700.00**

Armon Curd Digitally signed by Armon Curd DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Customer Service, cn=Armon Curd, email=Armon.Curd@dcwater.com Date: 2021.04.05 14:49:18 -04'00'

Armon Curd Date
EVP of Customer Experience

Digitally signed by Dan Bae DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae Date: 2021.04.05 15:12:39-04'00'

Dan Bae Date
VP of Procurement and Compliance

Matthew T. Brown Digitally signed by Matthew T. Brown Date: 2021.04.06 12:46:16 -04'00'

Matthew T. Brown Date
CFO and EVP of Finance and Procurement

David L. Gadis Date
CEO and General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION

IT SOFTWARE MAINTENANCE RENEWAL
(Joint Use)

Approval to extend the Enterprise Agreement (EA) for three (3) years in the total amount of $987,000.00 to renew the Geographic Information System (GIS) Software Maintenance.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Environmental Systems Research Institute, Inc. 380 New York Street Redlands, California, 92373	N/A	N/A

DESCRIPTION AND PURPOSE

Original Period Contract Value:	$962,000.00
Original Contract Dates:	08-14-2018 – 08-13-2021
Contract Modification No. 1 Value:	$987,000.00
Contract Modification No. 1 Dates:	08-14-2021 – 08-13-2024

Purpose of the Contract:
DC Water's Department of Information Technology requires ongoing usage of Geographic Information System (GIS) software which is needed to present various operational assets including water mains, sewer systems, pipes, hydrants, valves etc. on a map to conduct daily operations.

Contract Scope:
The scope of the Enterprise Agreement with ESRI covers the Enterprise License for access to the GIS software products and maintenance for the software listed below:

ArcGIS Desktop	ArcGIS Developer Subscription
ArcGIS Enterprise	ArcGIS Runtime Standard
Insights in ArcGIS Enterprise	ArcGIS Enterprise User Type Term Licenses

The GIS software also tracks DC Water material assets include pipes, hydrants, values etc. on the map. The Information Technology team works closely with departments in DC Water to ensure that the critical information and operational issues like main breaks, pipe breaks, water quality etc. are up to date and accessible to staff and contractors.

Spending Previous Years:

Cumulative Contract Value:	08-14-2018 – 08-13-2021: $962,000.00
Cumulative Contract Spending:	08-14-2018 – 03-30-2021: $962,000.00

No LSBE Participation

PROCUREMENT INFORMATION

Contract Type:	Goods & Services	**Award Based On:**	Sole Source
Commodity:	GIS System Software	**Contract Number:**	10039
Contractor Market:	Sole Source Contract Award		

BUDGET INFORMATION

Funding:	Operating	**Department:**	Information Technology
Project Area:	DC Water Wide	**Department Head:**	Thomas Kuczynski

ESTIMATED USER SHARE INFORMATION

User – Operating	Share %	Dollar Amount
District of Columbia	87.73%	$865,895.10
Washington Suburban Sanitary Commission	9.22%	$91,001.40
Fairfax County	1.76%	$17,371.20
Loudoun County	0.80%	$7,896.00
Potomac Interceptor	0.49%	$4,836.30
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$987,000.00**

Armon Curd Digitally signed by Armon Curd DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Customer Service, cn=Armon Curd, email=Armon.Curd@dcwater.com Date: 2021.04.06 13:24:48 -04'00'

Armon Curd Date
EVP, Customer Experience

Digitally signed by Dan Bae DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae Date: 2021.04.06 17:17:08-04'00'

Dan Bae Date
VP of Procurement and Compliance

Matthew T. Brown Digitally signed by Matthew T. Brown Date: 2021.04.07 10:17:04 -04'00'

Matthew T. Brown Date
CFO and EVP of Finance and Procurement

David L. Gadis Date
CEO and General Manager

DC WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

CONSTRUCTION CONTRACT CHANGE ORDER:

Soldiers' Home Reservoir upgrades (Non-Joint Use)

Approval to execute Change Order No. 10 for $352,440.00. The modification exceeds the Chief Executive Officer's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
American Contracting & Environmental Services, Inc. 10330 Old Columbia Rd, Ste 102, Columbia, MD 21046	Empire Landscape, LLC Silver Spring, MD	MBE	4.2%
	Matadi Construction, LLC Silver Spring, MD	MBE	2.0%

DESCRIPTION AND PURPOSE

Original Contract Value:	$5,401,000.00	
Value of this Change Order:	$352,440.00	
Cumulative CO Value, including this CO:	$1,280,636.00	
Current Contract Value, including this CO:	$6,681,636.00	
Original Contract Time:	420 Days	(1 Years, 2 Months)
Time extension, this CO:	171 Days	
Total CO contract time extension:	171 Days	(0 Years, 6 Months)
Contract Start Date (NTP):	10-09-2019	
Anticipated Contract Completion Date:	05-21-2021	
Cumulative CO % of Original Contract:	23.7%	
Contract completion %:	75.0%	

Purpose of the Contract:

To upgrade and rehabilitate the Soldiers' Home potable water reservoir.

Original Contract Scope:

The original contract scope includes installation of a new impervious membrane system on the reservoir roof, installation of a new irrigation system and perimeter drain, internal repairs of structural concrete, piping modifications and ventilation improvements.

Previous Change Order Scope:

- Electrical conduit material changes and T&M work for design conflicts with electrical duct bank raceway
- Demolition and replacement of existing 30-in and 48-in steel concrete-encased pipes with ductile iron pipe sections
- Additional reservoir crack repairs greater than three thousand linear feet
- Various smaller change items

Current Change Order Scope:

The scope of this change order is to extend the time for completion by 171 calendar days. Of these 171 calendar days, 99 calendar days are compensable, and 72 calendar days are non-compensable. The negotiated daily rate is $3,560.00 for a total amount of $352,440.00.

Underground piping modification work was impacted by an existing concrete encasement around the pipes over a length of 129 LF. Previous change orders were issued to the contractor to remove the concrete-encased pipe sections and replace with new pipe sections to enable performance of the contract work. Time impacts caused by PEPCO's inability to work on Armed Forces Retirement Home (AFRH) private property for 41 calendar days and a time impact caused by weather for 3 calendar days are also included in the scope of this change.

Federal Grant Status:

- Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	**Award Based On:**	Lowest responsive, responsible bidder.
Commodity:	Construction	**Contract Number:**	170130
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Engineering and Technical Services
Service Area:	Water	**Department Head:**	Craig Fricke
Project:	FA		

USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$ 352,440.00
Washington Suburban Sanitary Commission	0.00%	$
Fairfax County	0.00%	$
Loudoun County & Potomac Interceptor	0.00%	$
Total Estimated Dollar Amount	**100.00%**	**$ 352,440.00**

Leonard Benson

Digitally signed by Leonard Benson
Date: 2021.04.06 14:37:40 -04'00'

Leonard R. Benson / Date
SVP and Chief Engineer

Digitally signed by Dan Bae
DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
Date: 2021.04.07 08:32:43-04'00'

Dan Bae, VP / Date
Procurement and Compliance

Matthew T. Brown

Digitally signed by Matthew T. Brown
Date: 2021.04.07 18:50:59 -04'00'

Matthew T. Brown / Date
CFO and EVP
Finance and Procurement

David L. Gadis / Date
CEO and General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

CONSTRUCTION CONTRACT:

RECLAIMED FINAL EFFLUENT PUMP SYSTEMS (RFEPS) UPGRADES

(Joint Use)

Approval to execute a construction contract for $ 14,976,800.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
Ulliman Schutte Construction, LLC 9111 Springboro Pike Miamisburg, OH 45342	Hi-Mark Construction, LLC Washington, DC	MBE	28.0%
	MAC Electric, LLC Sparrows Point, MD	MBE	6.0%
	Com-Bro Contracting, Inc. Elkridge, MD	MBE	3.0%
	Monumental Concrete Washington, DC	MBE	0.1%
	Ideal Electric Supply Corp. Washington, DC	WBE	7.0%
	Robnet, Inc. Baltimore, MD	WBE	0.1%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	$ 14,976,800.00	
Contract Time:	1032 Days	(2 Year, 10 Months)
Anticipated Contract Start Date (NTP):	07-01-2021	
Anticipated Contract Completion Date:	04-28-2024	
Bid Opening Date:	01-28-2021	
Bids Received:	3	
Other Bids Received		
American Contracting and Environmental Services, Ich.	$ 14,747,000.00	
WM Schlosser Co, Inc	$ 16,722,000.00	

Purpose of the Contract:

Replacement of the High and Low Pressure Reclaimed Final Effluent Pumps and auxiliary equipment which are critical to the operation of all processes at Blue Plains.

Contract Scope:

- Replacement of the three (3) high and three (3) low Pressure Reclaimed Final Effluent Pumps with new vertical turbine pumps.
- Replacement of pump motors and variable frequency drives for each High- and Low-Pressure Pump
- Demolition and modifications to the associated piping, miscellaneous repairs and upgrades including structural, electrical, Instrumentation and Control (I&C), as well as HVAC improvements.

Federal Grant Status:

- This Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	**Award Based On:**	Best Value
Commodity:	Construction	**Contract Number:**	180080
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Department of Wastewater
Service Area:	Wastewater	**Department Head:**	David Parker
Project:	IY		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.22%	$ 6,173,436.96
Federal Funds	0.00%	$
Washington Suburban Sanitary Commission	45.84%	$ 6,865,365.12
Fairfax County	8.38%	$ 1,255,055.84
Loudoun County & Potomac Interceptor	4.56%	$ 682,942.08
Total Estimated Dollar Amount	**100.00%**	**$14,976,800.00**

Leonard Benson
Digitally signed by Leonard Benson
DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Engineering, cn=Leonard Benson, email=Leonard.Benson@dcwater.com
Date: 2021.04.06 14:45:22 -04'00'

_____/_____
Leonard R. Benson Date
SVP, CIP Project Delivery

Digitally signed by Dan Bae
DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
Date: 2021.04.07 08:32:16 -04'00'

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Dan Bae, VP Date
Procurement & Compliance

Matthew T. Brown
Digitally signed by Matthew T. Brown
Date: 2021.04.07 18:53:54 -04'00'

_____/_____
Matthew T. Brown Date
CFO and EVP
Finance & Procurement

_____/_____
David L. Gadis Date
CEO & General Manager

DC WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

CONSTRUCTION CONTRACT CHANGE ORDER:

Gravity Thickener Upgrades Phase 2
(Joint Use)

Approval to execute Change Order No. 10 for $1,500,000.00. The cumulative modifications will exceed the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
Ulliman Schutte Construction, LLC 14420 Albermarle Point Place, Suite 110, Chantilly, VA 20151 **Headquarters** Miamisburg, OH 45342	Hi-Mark Construction Group, Inc. Middletown, OH	MBE	26.4%
	GE Frisco Co. Inc. Upper Marlboro, Maryland	MBE	4.4%
	Monumental Concrete, LLC Washington, DC	MBE	0.3%
	Ideal Electrical Supply Corp. Washington, DC	WBE	5.6%
	Elite Hauling Group, Inc. Clinton, Maryland	WBE	0.1%

DESCRIPTION AND PURPOSE

Original Contract Value:	$60,390,000.00	
Value of this Change Order:	$1,500,000.00	
Cumulative CO Value, including this CO:	$2,479,838.00	
Current Contract Value, including this CO:	$62,869,838.00	
Original Contract Time:	1,500 Days	(4 Years, 11 Months)
Time extension, this CO:	0 Days	
Total CO contract time extension:	0 Days	
Contract Start Date (NTP):	09-12-2019	
Contract Completion Date:	10-23-2023	
Cumulative CO % of Original Contract:	4.11%	
Contract Completion %:	37.19%	

Purpose of the Contract:

Upgrades to the major equipment and systems serving the primary sludge screening, degritting and gravity thickening facilities that have reached the end of their service life and are currently operating ineffectively.

Original Contract Scope:

- Replacement of primary sludge screening system.
- Replacement of previously decommissioned primary sludge degritting system.
- Restoring previously decommissioned Gravity Thickeners 5-6 to service to increase the operating capacity of the facility to accommodate additional solids generated by the new Enhanced Clarification Facility.
- Full rehabilitation of Gravity Thickeners 1-4 and 7-10, four (4) of which are currently out of service due to failed equipment.
- Installation of covers and ventilation system for Gravity Thickeners 1-10.
- Installation of associated degritter feed pumps, sludge pumps and scum pumps.
- Piping site work, concrete repairs and coatings, electrical upgrades, instrumentation upgrades and all appurtenant work.

Previous Change Order Scope:

- CO-01 through CO-09 were previously executed to address necessary and prudent changes required to maintain the design intent and facilitate the rehabilitation of the Gravity Thickener tanks.

Current Change Order Scope:

The $1,400,000.00 allowance under Bid Item No. 23 has been reduced, due to ten prior executed Work Change Directives (WCD's). The remaining bid allowance is deemed inadequate to fund anticipated potential changes that may be executed as WCD's under this contract. This change is an administrative change to unilaterally increase Bid Item No. 23 "Bid Allowance" by $1,500,00.00 to avoid delays in the completion of the contract work. All directives for authorization to use the bid allowance remain unchanged. This change has no impact on contract end date.

Federal Grant Status:

Construction Contract is eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	**Award Based On:**	Lowest responsive, responsible bidder.
Commodity:	Construction	**Contract Number:**	130180
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Wastewater Engineering
Service Area:	Wastewater	**Department Head:**	David Parker
Project:	BX		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	32.21%	$ 483,150.00
Federal Funds*	9.01%	$ 135,150.00
Washington Suburban Sanitary Commission	45.84%	$ 687,600.00
Fairfax County	8.38%	$ 125,700.00
Loudoun County & Potomac Interceptor	4.56%	$ 68,400.00
Total Estimated Dollar Amount	**100.00%**	**$ 1,500,000.00**

Leonard Benson

Digitally signed by Leonard Benson
DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Engineering, cn=Leonard Benson, email=Leonard.Benson@dcwater.com
Date: 2021.04.06 14:30:30 -04'00'

Leonard R. Benson / Date
SVP, CIP Project Delivery

Matthew T. Brown

Digitally signed by Matthew T. Brown
Date: 2021.04.08 08:03:51 -04'00'

Matthew T. Brown / Date
CFO and EVP
Finance & Procurement

Digitally signed by Dan Bae
DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
Date: 2021.04.08 07:47:18-04'00'

Dan Bae, VP / Date
Procurement & Compliance

David L. Gadis / Date
CEO & General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

CONSTRUCTION CONTRACT:

Small Diameter Water Main 14C
(Non-Joint Use)

Approval to execute a construction contract for $11,639,133.75

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
Fort Myers Construction Corporation 2237 33rd St NE Washington, DC 20018	Aves Construction Corporation Temple Hills, MD	MBE	23.3%
	United Construction Washington, DC	MBE	8.7%
	Royal Cons Materials Mclean, VA	WBE	10.0%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	$11,639,133.75
Contract Time:	550 Days (1 Year 6 Months)
Anticipated Contract Start Date (NTP):	06-08-2021
Anticipated Contract Completion Date:	12-10-2022
Bid Opening Date:	02-03-2021
Bids Received:	8
Other Bids Received	
Capitol Paving of D.C., Inc	$12,004,075.00
Sagres Construction Corp	$12,377,217.00
Garney Construction	$12,514,539.50
Anchor Construction	$13,685,234.00
Spiniello Companies	$14,273,300.00
Civil Construction LLC	$14,385,477.00
Old Line Construction	$14,876,233.00

Purpose of the Contract:

Replacement of small diameter water mains that have experienced failures, or have a history of low water, or water quality issues across various locations within the District of Columbia.

Contract Scope:

- Replace 3.52 miles of water mains ranging from six inch to twelve inches diameter and associated valves and appurtenances.
- Replace copper water services 2 inch and smaller in public and private space.
- Replace curb stop /curb stop box, meter box and penetration through building wall and connection to first fitting inside the building including installation of a shut-off valve and pressure reducing valve.
- Provide permanent pavement and surface restoration.

Federal Grant Status:

- Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Unit Price	**Award Based On:**	Lowest responsive, responsible bidder
Commodity:	Construction	**Contract Number:**	170070
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Engineering and Technical Services
Service Area:	Water	**Department Head:**	Craig Fricke
Project:	F2,BW		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$11,639,133.75
Federal Funds	0.00%	$0.00
Washington Suburban Sanitary Commission	0.00%	$0.00
Fairfax County	0.00%	$0.00
Loudoun County & Potomac Interceptor	0.00%	$0.00
Total Estimated Dollar Amount	**100.00%**	**$11,639,133.75**

Leonard R. Benson / April 7, 2021

Leonard R. Benson, Date
SVP, CIP Project Delivery

Dan Bae / April 7, 2021

Dan Bae, VP, Date
Procurement and Compliance

Matthew T. Brown / April 7, 2021

Matthew T. Brown, Date
CFO and EVP
Finance and Procurement

{{Sig_es_:signer1:signature}} / {{$fx }}

David L. Gadis, Date
CEO and General Manager

{{#fx=Dte_es_:signer1:date:format(date,"mmmm d, yyyy"):font(name=Arial, color=#000000, size=10)}}

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS FACT SHEET

ACTION REQUESTED

PARTIPCATION IN DDOT PROJECT:

DDOT - Replacement of Water Mains on Massachusetts Ave from 20th St NW to Waterside Dr, NW

(Non-Joint Use)

Approval to participate in DDOT's Massachusetts Ave to Waterside Dr Water Mains project under the terms of the 2002 Memorandum of Agreement (MOA) between District of Columbia Department of Transportation (DDOT) and DC Water for an amount up to $1,545,000.00. This amount exceeds the General Manager's approval authority.

PARTY INFORMATION

PARTY:	SUBS:	PARTICIPATION:
District Department of Transportation 55 M Street, SE, Suite 400, Washington, DC 20003	MBE and WBE fair share objectives will follow DDOT goals.	

DESCRIPTION AND PURPOSE

Value, Not-To-Exceed:	$1,545,000.00	
Time:	639 Days	(1 Years, 9 Months)
Anticipated Start Date:	05-10-2021	
Anticipated Completion Date:	02-08-2023	

Purpose of DC Water's Participation:

To provide for replacement of water mains by DDOT as part of DDOT's Roadway Improvements along Massachusetts Ave NW and Waterside Drive NW Project.

Scope of DC Water's Participation: :

- DC Water prepared design plans to include Replacement of Water Mains along Massachusetts Ave NW, between 20th Street NW and Waterside Drive NW in DDOT's Roadway Improvements along Massachusetts Avenue NW.
- DDOT competitively bid the project and awarded a contract to Milani Construction, LLC, who is constructing the improvements.
- The scope of the agreement provides for bidding and Replacement of Water Mains, and compensation by DC Water for actual work constructed.

  The Replacement of Water Mains will replace about 2,100-LF of 6-in to 12-in water mains, 55-LF water service pipes, and installation of valves, fire hydrants and water meters.

Federal Grant Status:

- Work under this MOU is not eligible for Federal grant funding assistance.

AGREEMENT INFORMATION

Contract Type:	MOU	**Award Based On:**	N/A
Commodity:	Construction	**Contract Number:**	N/A

BUDGET INFORMATION

Funding:	Capital	**Department:**	Engineering and Technical Services
Service Area:	Water	**Department Head:**	Craig Fricke
Project:	KE		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$ 1,545,000.00
Federal Funds	0.00%	$
Washington Suburban Sanitary Commission	0.00%	$
Fairfax County	0.00%	$
Loudoun County & Potomac Interceptor	0.00%	$
Total Estimated Dollar Amount	**100.00%**	**$ 1,545,000.00**

Leonard Benson

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DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Engineering, cn=Leonard Benson, email=Leonard.Benson@dcwater.com
Date: 2021.04.07 08:58:17 -04'00'

_____/_____
Leonard R. Benson Date
SVP, CIP Project Delivery

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DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
Date: 2021.04.07 09:30:07-04'00'

_____/_____
Dan Bae, VP Date
Procurement & Compliance

Matthew T. Brown

Digitally signed by Matthew T. Brown
Date: 2021.04.08 12:13:26 -04'00'

_____/_____
Matthew T. Brown Date
CFO and EVP
Finance & Procurement

_____/_____
David L. Gadis Date
CEO & General Manager

District of Columbia Water and Sewer Authority
David L. Gadis, CEO and General Manager

DC CLEAN RIVERS PROJECT

Rock Creek Project Green Infrastructure Virtual Tour

Briefing for:

Environmental Quality & Operations Committee Meeting

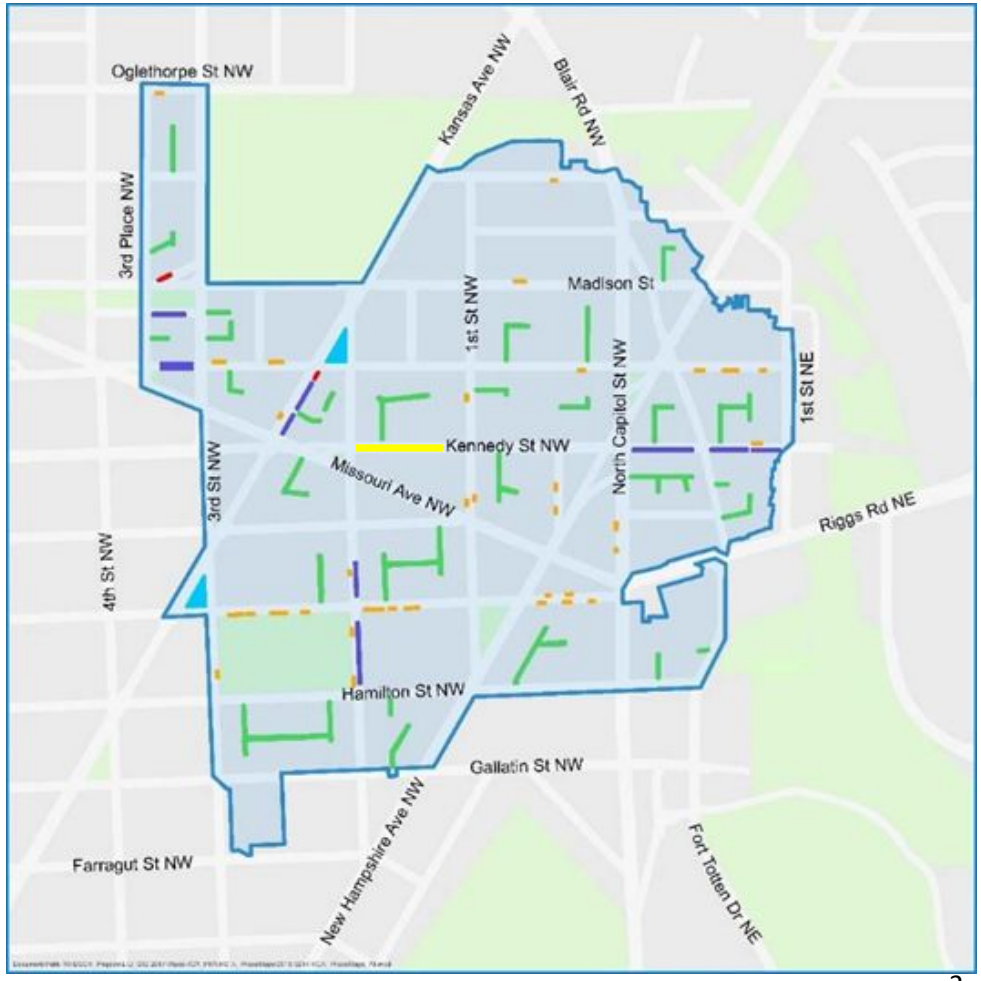
April 15, 2021

DCWATER.COM

Rock Creek Green Infrastructure

Number and Distribution of GI Facilities:

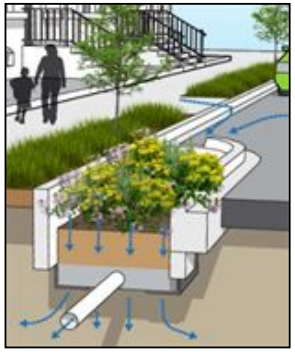
- Planter Bioretention – 36
- Curb Extension Bioretention - 2
- Parking Lane Permeable Pavement - 8
- Alley Permeable Pavement – 31
- GI Park – 2
- Kennedy Street



2

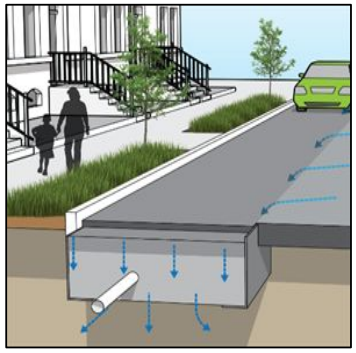
Green Infrastructure:
Program Drivers

- Volume Management (Gallons)
  - Control Combined Sewer Overflows
- Cost Effectiveness
  - Responsibility to Rate Payers
- Maintenance/Asset Management
  - Safety
  - Aesthetics
  - Performance
- Outreach
  - Build Public Awareness and Stewardship
- Triple Bottom Line Benefits
  - Deliver Multiple Benefits to the Community

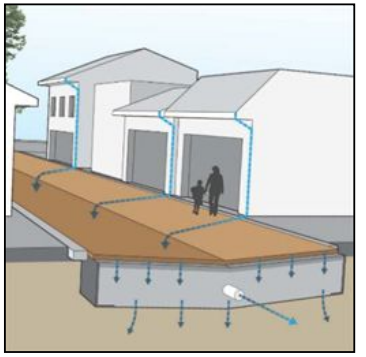


Curb Extension Bioretention

Planter Bioretention



Permeable Parking Lane



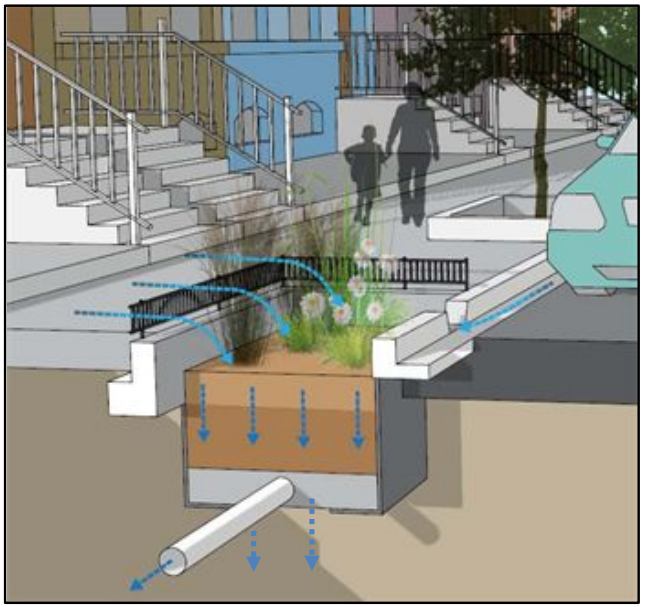
Permeable Alley

3

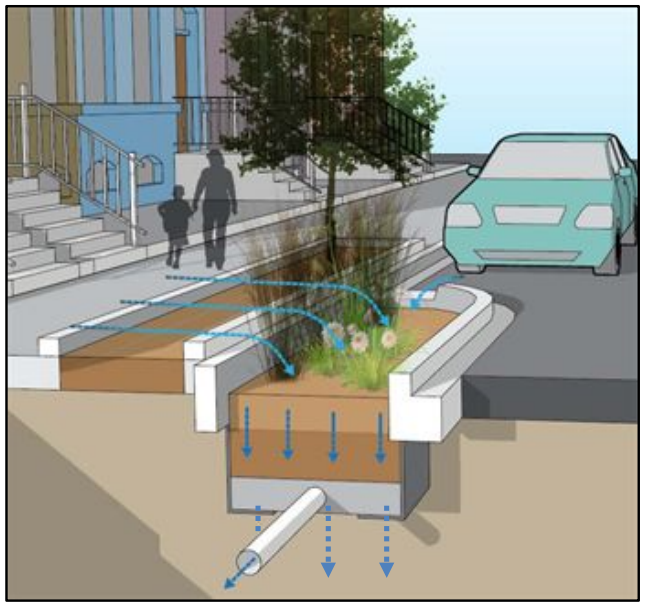
Typical Bioretention

Two Applications in Right of Way:

- Planter Bioretention
- Curb Extension Bioretention



Planter Bioretention in Tree Planter



Curb Bioretention in Parking/No Parking Lane

Typical Bioretention

Physical Components

Inlet with Energy Dissipation (Downstream Outlet Not Shown)

Safety Fence

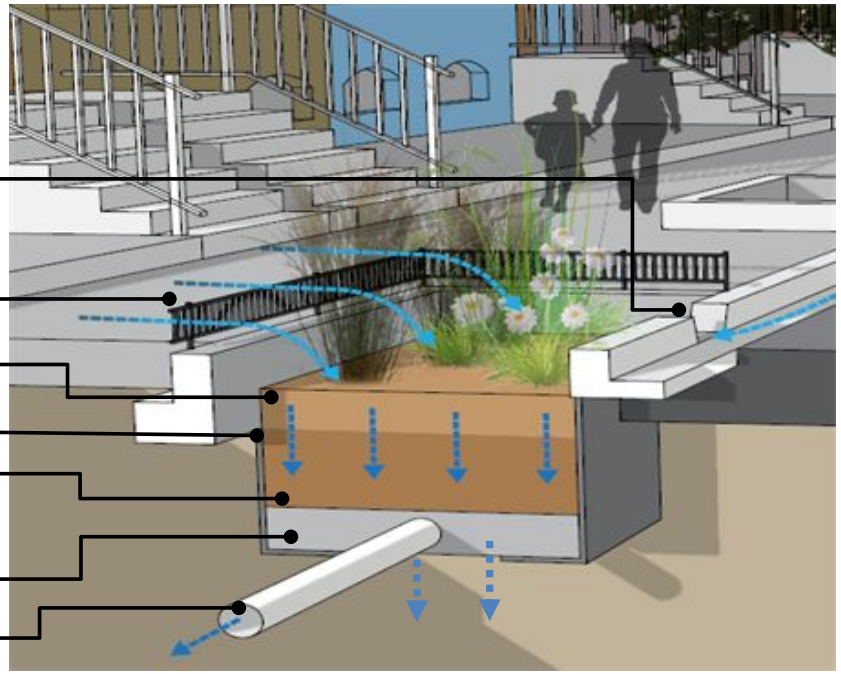
Bioretention Soil Media

Impermeable Liner

Choker Layer to Prevent BSM Migration

Aggregate Layer for Storage

Perforated Underdrain Connects to Solid Pipe to Sewer



Planter Bioretention in Tree Planter

Typical Sizing

- Approximate width: Width of planter strip and or parking lane (for curb extension bioretention)
- Approximate Depth: 5”
- Approximate Length: 20’-40’

5

Bioretention

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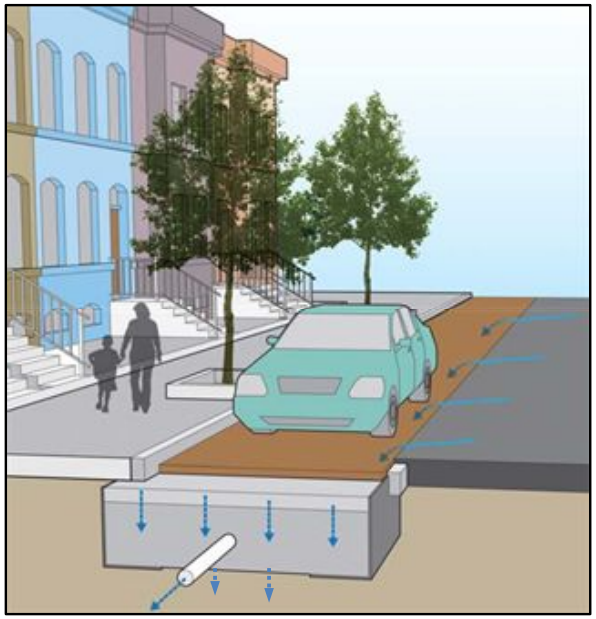
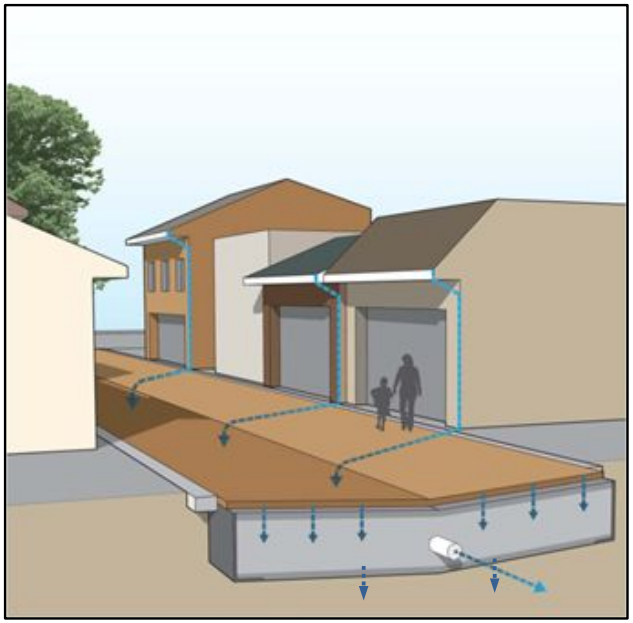
Typical Permeable Pavement

Two Applications in Right of Way:

- Parking Lane Permeable Pavement
- Alley Permeable Pavement



Permeable Pavement in Parking Lane



Permeable Pavement in Alley

Typical Permeable Pavement

Physical Components

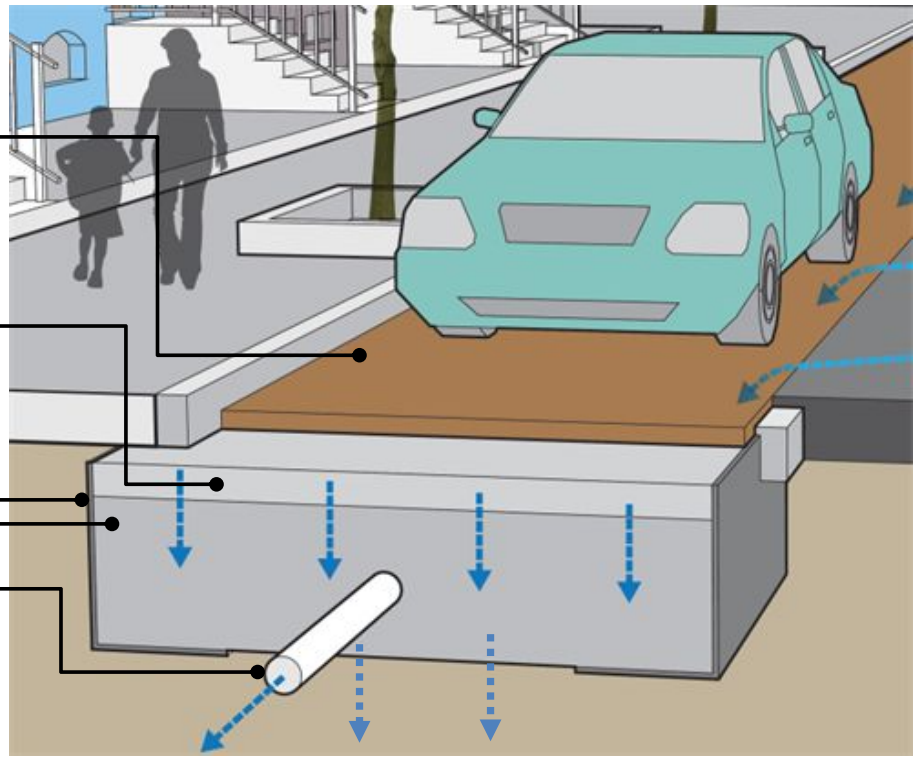
Permeable Pavement (Type to be Selected Based on Site-Specific Conditions)

Choker Layer to Prevent Sediment Migration

Impermeable Liner

Storage Layer

Perforated Underdrain connects to Solid Pipe to Sewer



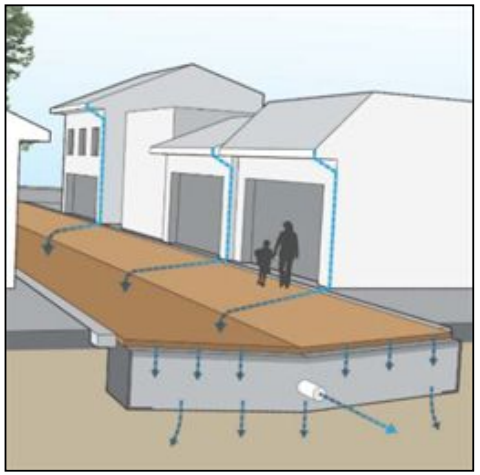
Permeable Pavement in Parking Lane

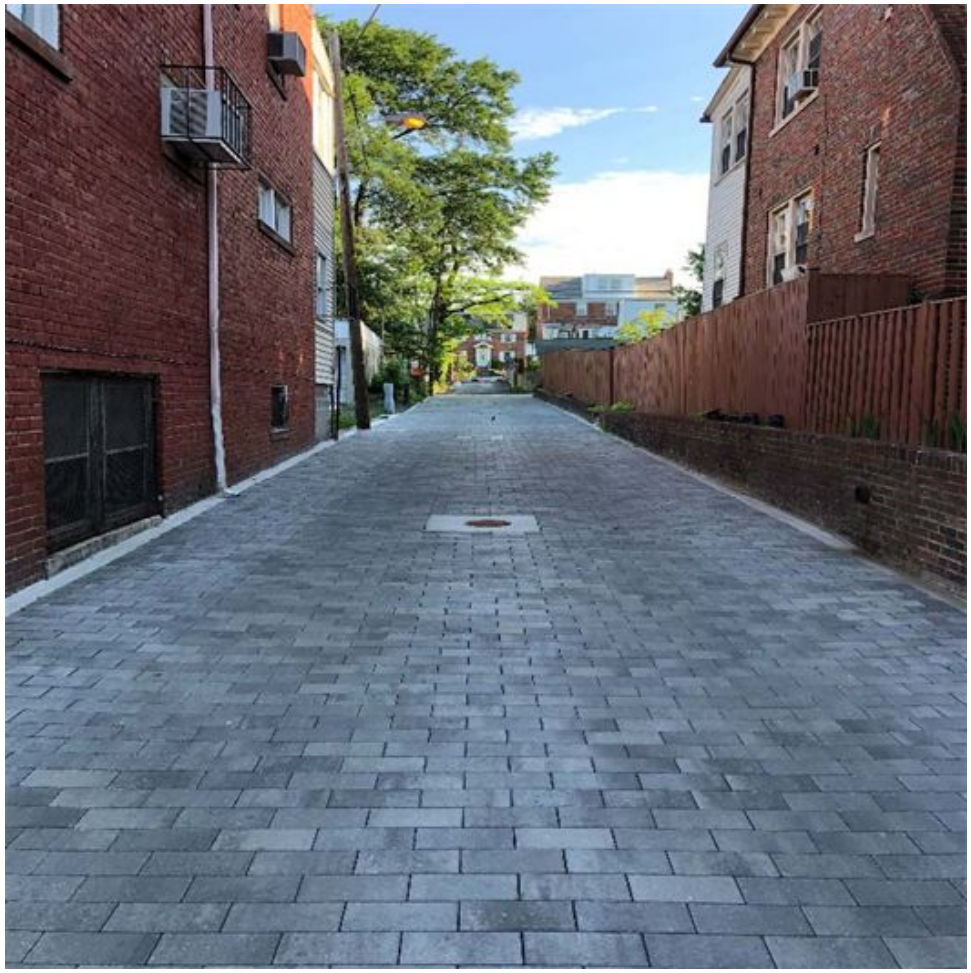
Typical Sizing

- Approximate width: Width of parking lane/alley
- Approximate Length: Up to entire length of parking lane/alley
- Approximate Depth: 3'-4'

8

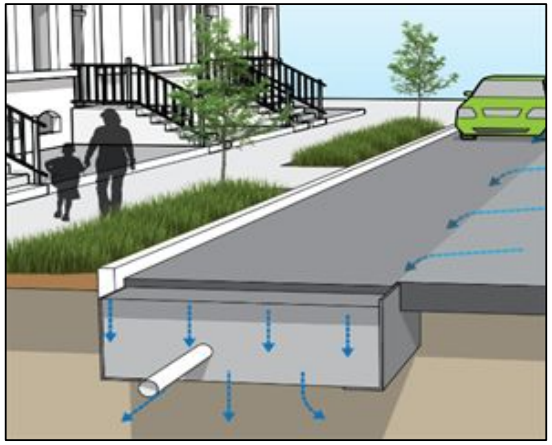
Alley Permeable Pavement





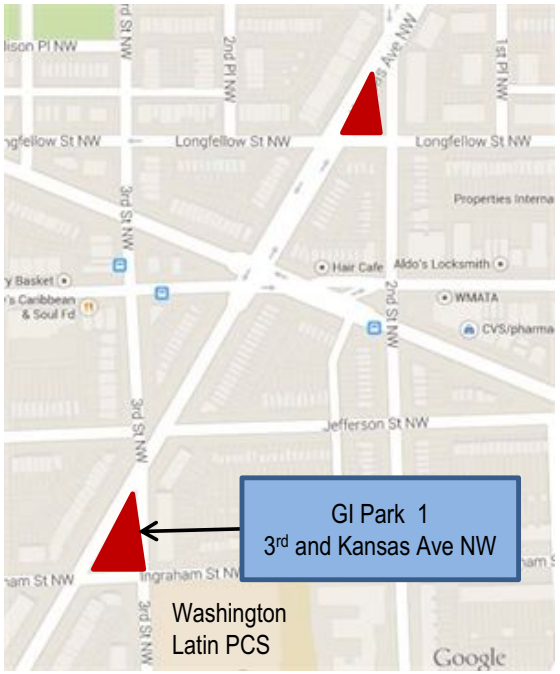
9

Parking Lane Permeable Pavement



Background:
Kansas Avenue GI Challenge Parks Project

3rd & Kansas Park Pre-construction condition 2013



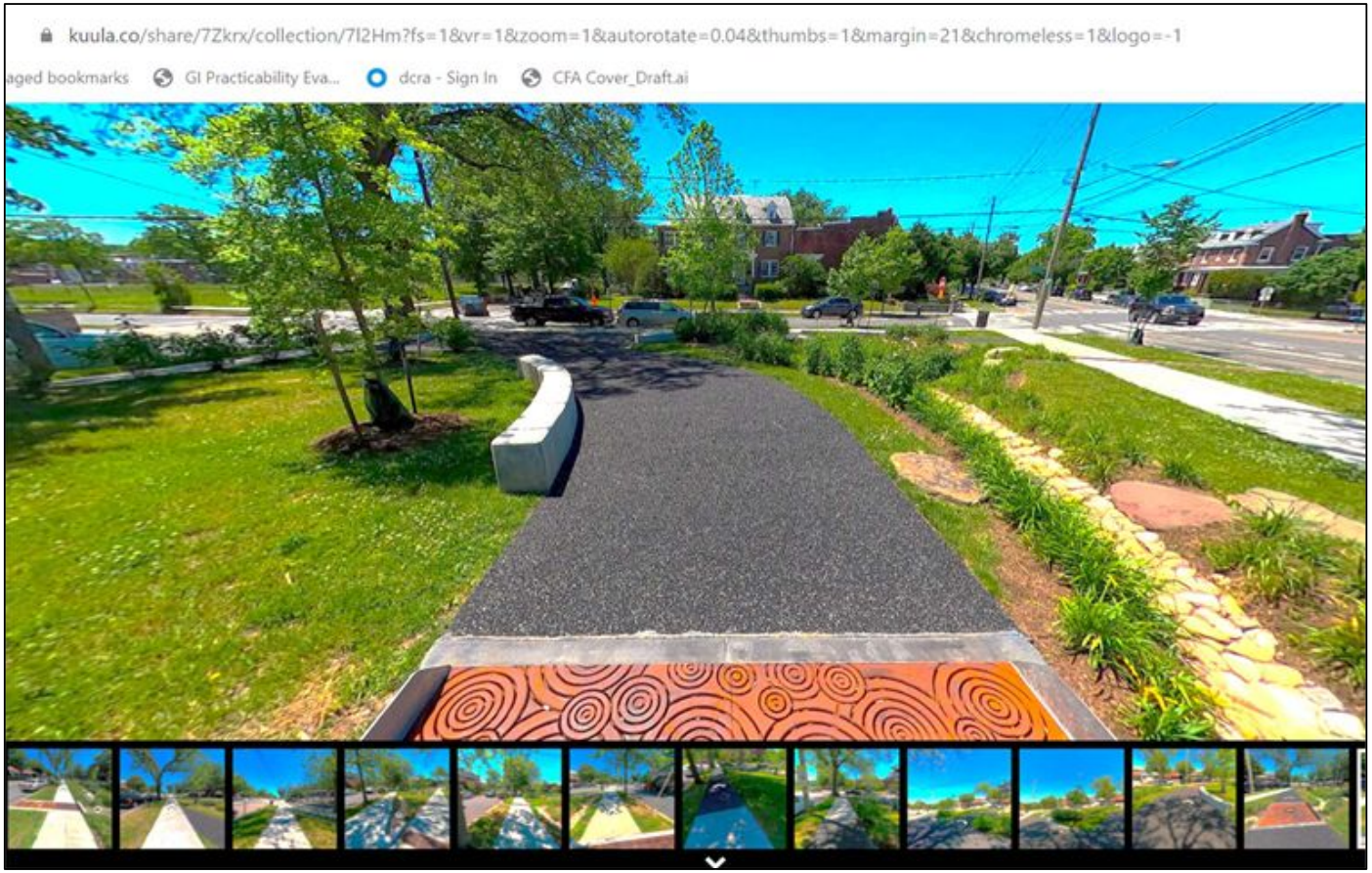
3rd Street Park Concept Plan

12

3rd Street Park: Post-Construction (July 2019)

3rd Street Park: Post-Construction (July 2019)

GI Park: Kansas and 3rd Street NW: (June 2020) Virtual Tour Link

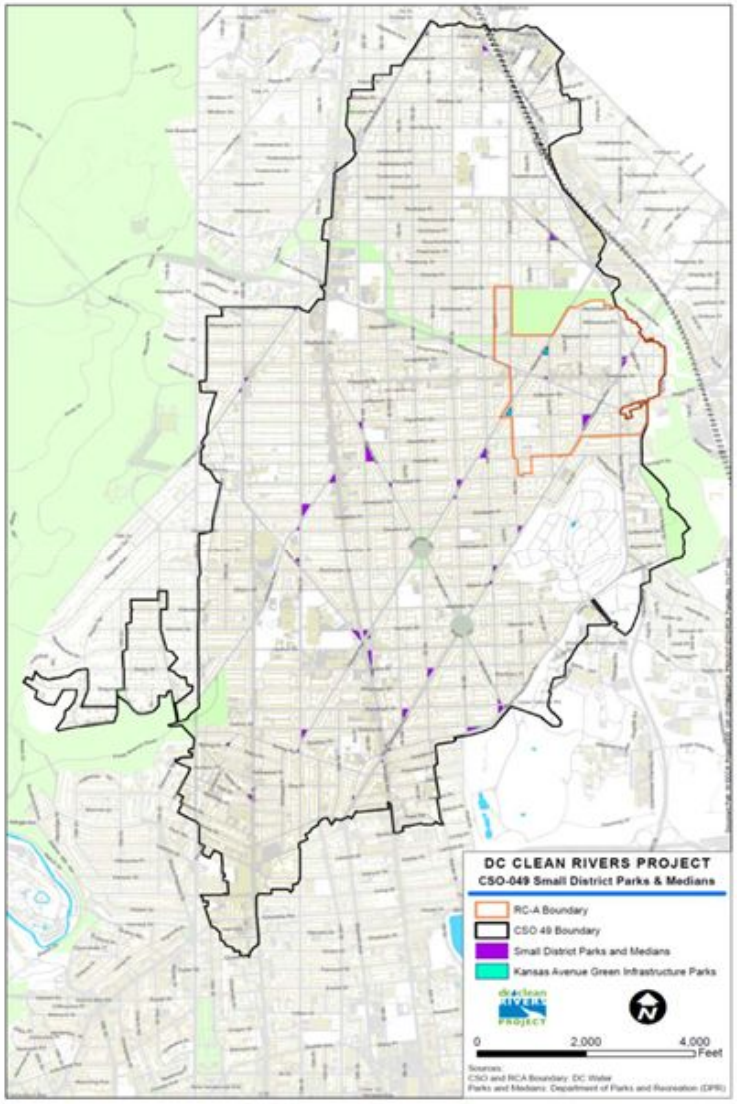


Note: For formatting reasons, link provided to EQ&Ops Committee via email

Future GI Parks in the Rock Creek Sewershed

Future Rock Creek Green Infrastructure Park Opportunities:

- Approximately 45 additional small parks and medians in the Rock Creek Sewershed with GI potential.
- The GI Parks submittal to the U.S. Commission of Fine Arts (CFA) introduced the option for a Master Plan approach, which was supported in concept.
- DC Water is considering various procurement mechanisms for Park implementation under future phases of the Program.



GI Challenge Streetscape
100 Block Kennedy Street NW - Concept Plan

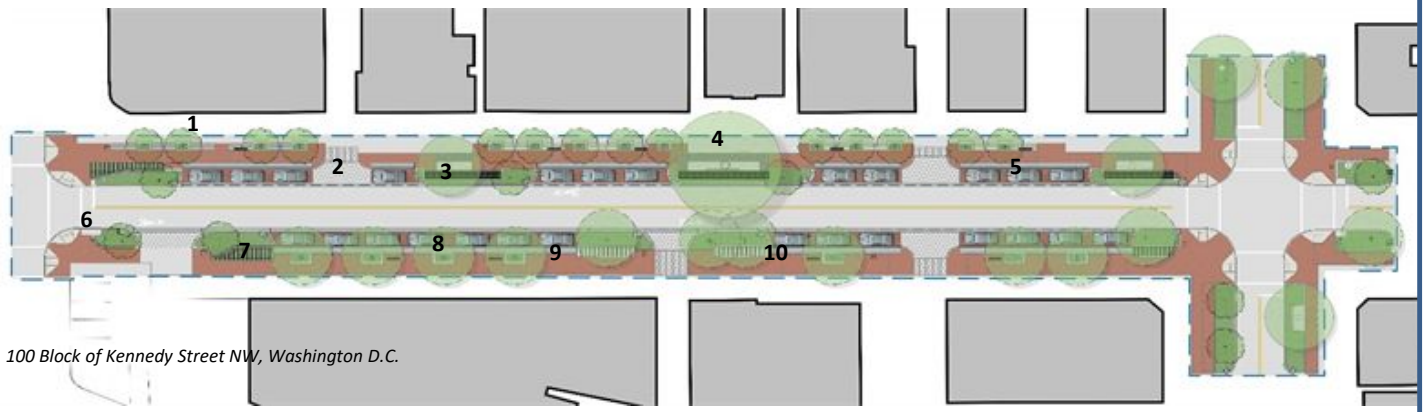
1) Landscape Infiltration Gaps

2) Shared Streets

3) Grated Boardwalk Crossings

Established Trees

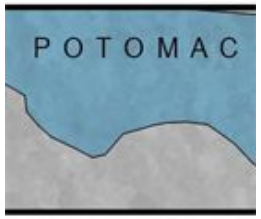
5) Permeable Parking Lanes



100 Block of Kennedy Street NW, Washington D.C.

6) Bioretention Curb Extension

7)Public Art / Education



8) New Street Trees

9) Recessed Landscape Planters

Kennedy Street Background

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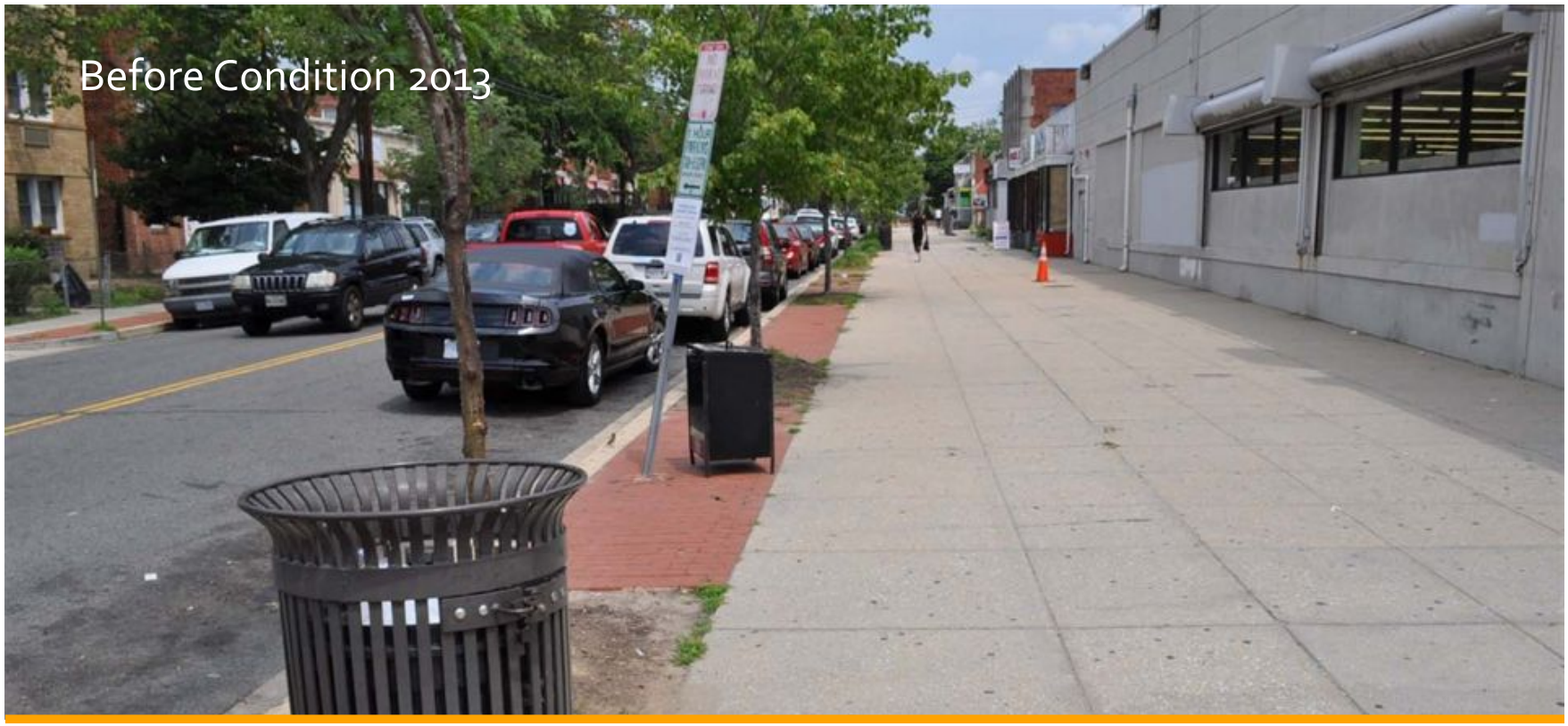

Kennedy Street

Pre-Design Conditions

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19

Kennedy Street

Pre-Design Conditions

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20

Kennedy Street

Pre-Design Conditions

dc clean RIVERS PROJECT

Kennedy Street

Pre-Design Conditions

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22

Kennedy Street

Pre-Design Conditions

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23

Kennedy Street

Pre-Design Conditions

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GI Challenge Streetscape
100 Block Kennedy Street NW - Concept Plan

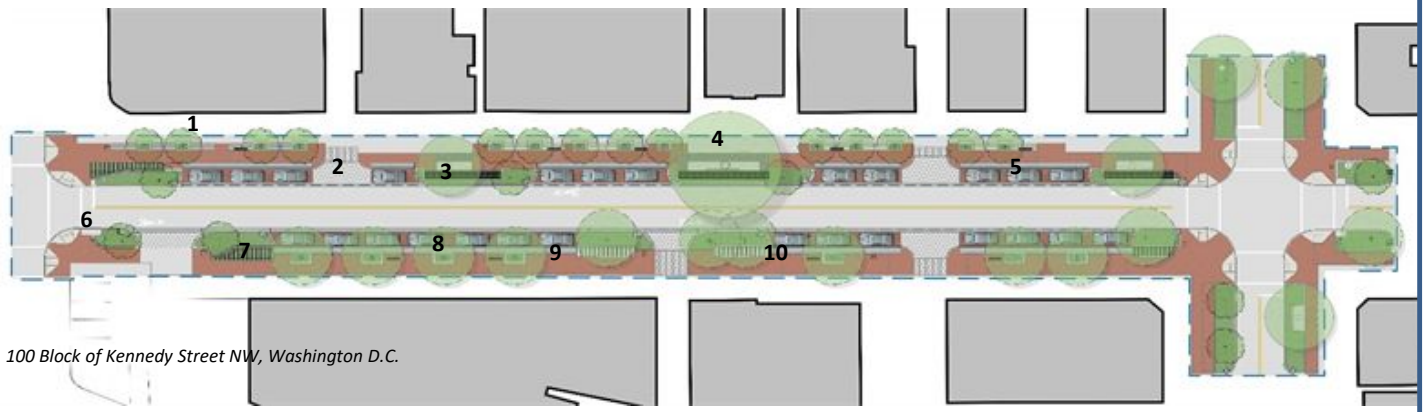
1) Landscape Infiltration Gaps

2) Shared Streets

3) Grated Boardwalk Crossings

Established Trees

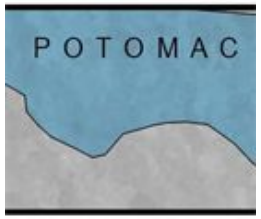
5) Permeable Parking Lanes



100 Block of Kennedy Street NW, Washington D.C.

6) Bioretention Curb Extension

7)Public Art / Education



8) New Street Trees

9) Recessed Landscape Planters

Post-Construction Photos

June 2019

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26

Post-Construction Photos

June 2019

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27

Post-Construction Photos

June 2019

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28

Post-Construction Photos

June 2019

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29

Post-Construction Photos

June 2019

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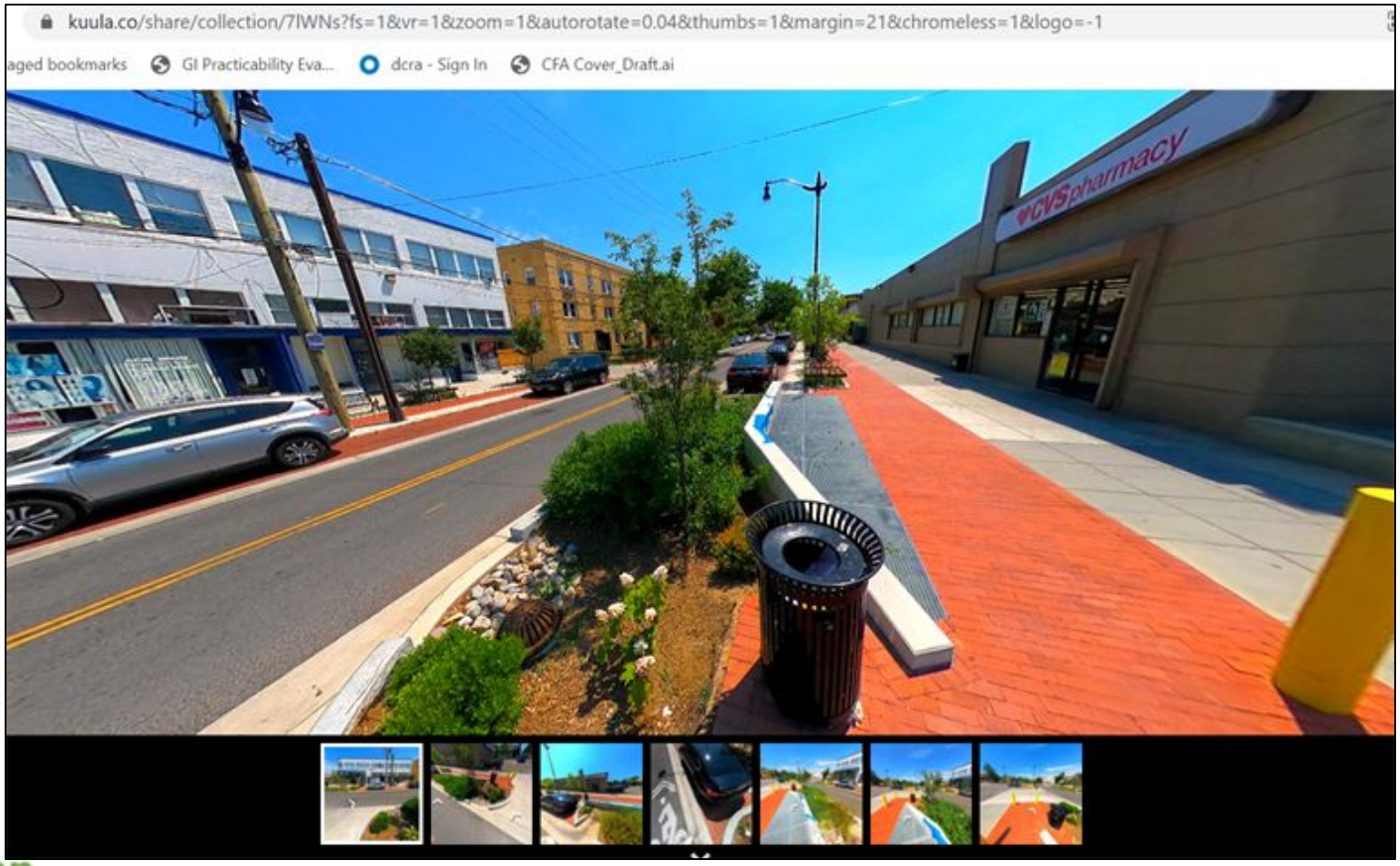
Kennedy Street Virtual Tour Link (June 2020)



Note: For formatting reasons, link provided to EQ&Ops Committee via email

Performance

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Post-Construction
Performance

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Post-Construction
Performance

Post-Construction
Performance

Flow and Rainfall Monitoring Sites

Post-Construction Performance

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Periods of Record

Pre-construction

	2015																				2016							
	August				September				October					November				December				January				February			
Instrument/Week	1	2	3	4	1	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Flowmeter																													
Rain Gauge																													

	2016																															
	March					April				May				June					July				August					September				
Instrument/Week	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	5	1	2	3	4
Flowmeter																															
Rain Gauge																															

Uptime
Flowmeter: 100%
Rain gauge: 98.2%

Post-construction

	2019																															
	April					May					June				July				August				September				October					
Instrument/Week	1	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Flowmeter																																
Rain Gauge																																

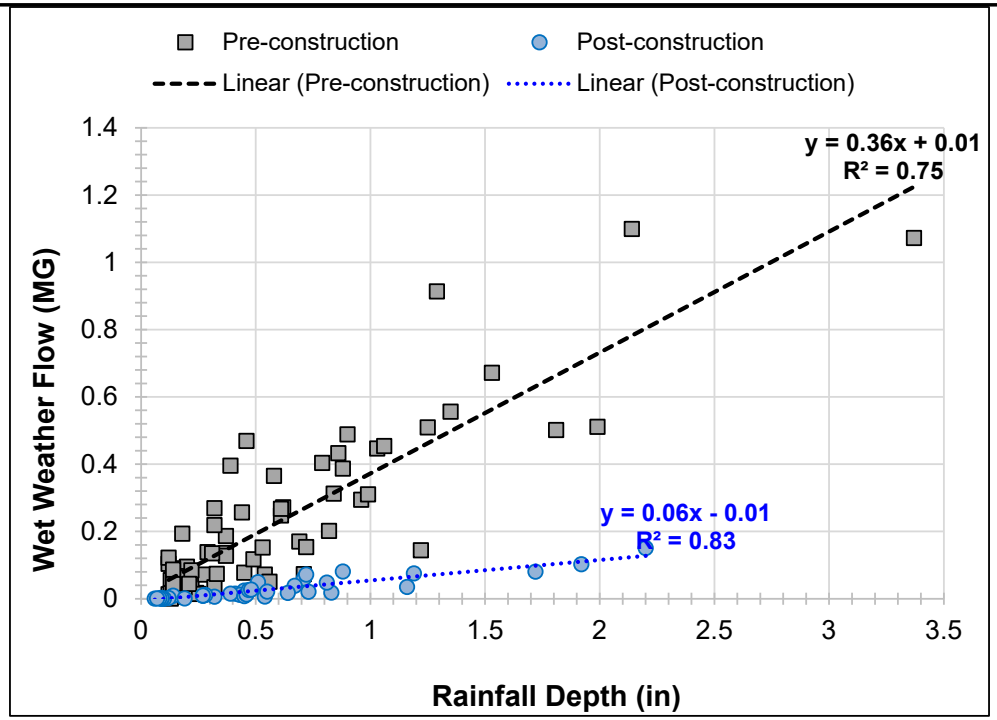
Uptime
Flowmeter: 100%
Rain gauge: 100%

Legend

- Continuous flow signal
- Continuous rainfall signal
- Rain gauge out-of-service

Post-Construction Performance

Pre- vs Post- Construction Performance



83% REDUCTION IN THE VOLUME OF WET WEATHER FLOW!

Post-Construction Performance

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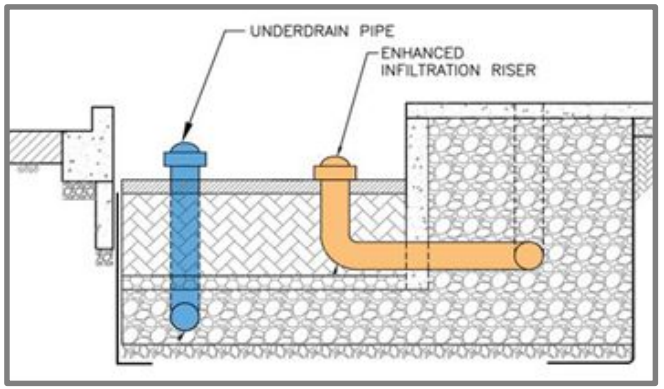
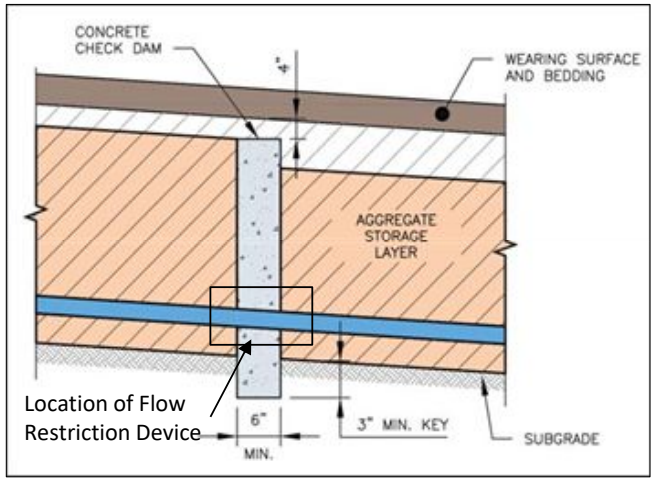
GI Challenge and the Long Term Control Plan:
Informing the DC Clean Rivers GI Program

- Design Standards
  - Sediment Control (Filter baskets, Sump Inlets)
  - Underdrain Disconnect Valves
  - Subsurface Weirs/Check Dams
  - Surface Capture and Distribution
  - Subsurface Distribution
  - Tree Protection and Soil Volume
  - Aggregated capture
  - Treatment Train
  - Plant Selection
  - Maintenance Optimization
  - Revealed Stormwater Management



Example of Enhanced Infiltration System in a Bioretention Facility

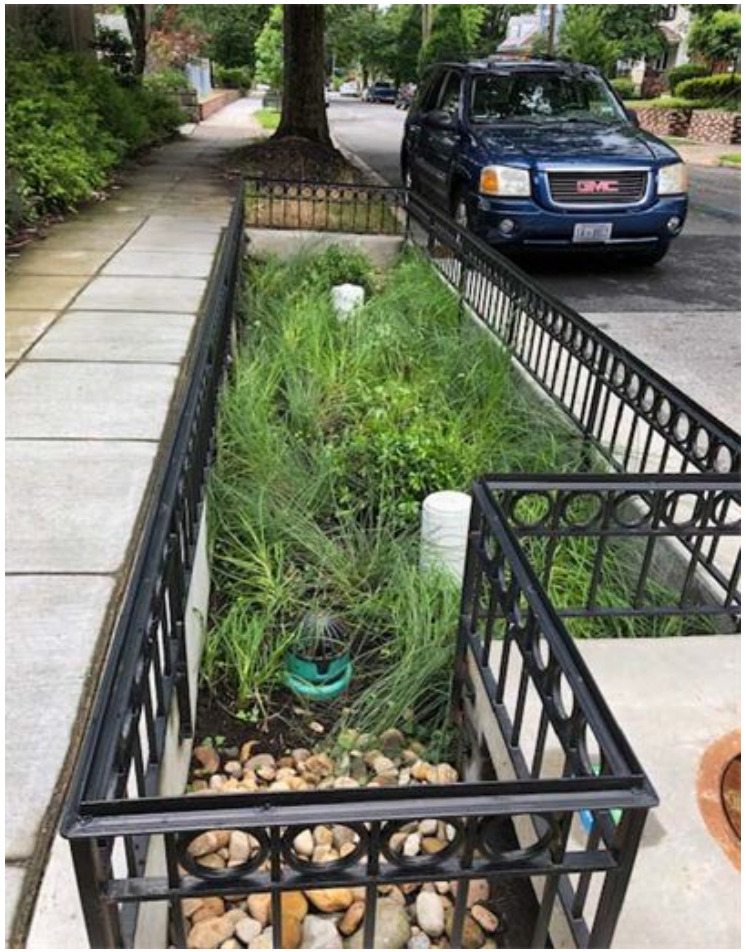


Example Check Dam to slow flow in a GI Facility

Questions?

Seth Charde
Senior Advisor, Green Infrastructure
DC Clean Rivers Project

DC Water and Sewer Authority
Phone: 202-787-4730
Email: Seth.Charde@dcwater.com



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