



Capital Improvements Projects Breakout Session



Occupational Health & Safety

David Gill SMP, CHST, STS-C
Chief of Health & Safety



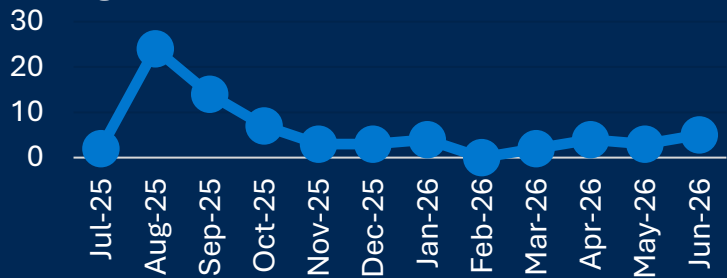
Confined Space Entry Stand-by Rescue Services

Commission-Wide



Project Size

The Contractor shall provide professional, fully equipped, standby confined space rescue services for permit-required entries throughout the WSSC Water service area.



— # of Confined Space Standby Rescues by Month

Project Services

- Full compliance with OSHA, ANSI, and WSSC Water safety protocols.
- Contractor must be certified through NFPA or equivalent in confined space entry rescue including SCBA or SAR.
- Annual confined space rescue training for WSSC Water staff and joint rescue drills.
- Monthly and annual documentation of all standby operations and training events.
- Contractor must provide all equipment to perform services.

Project Scope

- Standby coverage for up to 100 WSSC Water permit-required confined space entries annually.
- On-call mobilization for both pre-scheduled maintenance and emergency entries across Montgomery and Prince George's counties.
- On-site continuous atmospheric monitoring, pre-entry safety briefing, and active rescue presence throughout entries.
- Seamless hazard identification & safety planning aligned with WSSC Water teams.

Production Department

Amado Carsky
Division Manager, Asset Management



Water Quality Surveillance and Response

Multiple Locations



Project Size

To Be Determined

Project Services

- Perform contaminant risk assessments
- Develop standard Operating Procedures (SOPs)
- Provide training & execute emergency preparedness plans

Project Scope

- Establish a new Request for Proposals (RFP) for professional consulting services
- Support WSSC Water's Drinking Water Surveillance & Response System (EPA SRS Framework)

Temporary Staffing for Laboratory and Water Quality Division

Silver Spring, MD



Project Size

To Be Determined

Project Services

- Provide qualified personnel to maintain operational efficiency
- Support specialized laboratory and water quality functions
- Ensure continuity of critical laboratory and regulatory activities

Project Scope

Provide temporary staffing services to support the Laboratory and Water Quality Divisions through routine monitoring, analytical testing, and environmental laboratory operations

Asset Reliability Program Services

WSSC Water Production Facilities



Project Size

To Be Determined

Project Services

- Perform maintenance and reliability assessments
- Develop reliability transformation roadmap
- Provide programmatic implementation support
- Recommend standards and governance framework
- Recommend performance Measurement and Improvement metrics

Project Scope

Professional consulting services to support the foundational work for, and implementation of, the Production Asset Reliability Program

Information Technology

Sathish Calangi

Division Manager, Financial & Administrative Solutions

Neeraj Masson

Division Manager, Data and Analytics Solutions



EBS to Cloud SaaS Modernization

Montgomery and Prince George's Counties



Project Size

A multi-year journey to connect every employee to better data, smoother processes, and a more resilient future

Project Services

A fully managed, Cloud-powered SaaS ERP transformation — Incorporating full lifecycle implementation to team readiness

Project Scope

A fully integrated platform: Unifying HR, Payroll, Finance, and Supply Chain with real-time analytics

Restoration Services Management System

Montgomery and Prince George's Counties



Project Size

A single year project to modernize the administrative processes of restoration of roads and amenities after infrastructure construction projects

Project Services

Requirements, design, and build of application and workflows.

Project Scope

Full replacement of existing mainframe work order and manual tracking systems

Databricks & Azure Data Platform Modernization

Montgomery and Prince George's Counties



Project Size

A 6-month program to setup the data lake platform and migrate all Informatica PowerCenter workflows to Databricks on Azure

Project Services

Data architecture, ETL/ELT migration, lakehouse design, and DevOps enablement.

Project Scope

Implementation of a data lake platform , Unity catalog and Full replacement of Informatica PowerCenter with a centralized data lake for structured and unstructured data

General Services Department

Allison Wilson
Director



Parking Garage Dry Sprinkler System Replacement

Support Center (HQ) Building



Project Size

The work shall occur in a two (2) level underground parking garage and associated loading dock area, including areas containing EV charging stations.

Project Services

The new system will support fire protection for employee-owned vehicles as well as a mixed fleet of electric and conventional fuel-powered vehicles.

Project Scope

Demolition, removal and replacement of the existing dry pipe sprinkler system, one (1) Jockey Pump and two (2) air compressors. All installation must comply with all applicable codes.

Enterprise Document Management & Records Archiving

Support Center (HQ) Building



Project Size

Commission-wide modernization using IBM FileNet, 22M+ documents, multi-year enterprise effort

Project Services

Provide expert support to WSSC Water staff in managing, retaining, disposing, and securely handling information to strengthen our enterprise-wide records and information management strategy

Project Scope

Enterprise-wide governance, retention, digitization, workflow optimization, compliance, and system integration supporting a streamlined, sustainable document and records management program

HVAC Upgrades & Renovation IDIQ

Commission Wide



Project Size

Commission-wide, multi-year HVAC replacement and renovation IDIQ program

Project Services

Provide commission-wide HVAC system replacements and related improvements across Support Facilities, Water Filtration Facilities, Wastewater Resource Recovery Facilities, Pumping Stations, and all WSSC-leased spaces

Project Scope

Demolition, minor site civil, HVAC equipment installation, integration with WSSC's Building Automation System (BAS), electrical wiring, programing and other associated HVAC integration/improvements

Fire Suppression System Replacement

Four (4) WRRF Facilities



Project Size

The work shall occur in all four (4) existing methanol building located at WSSC's Wastewater Resource Recovery Facilities (WRRF)

Project Services

The new system enhances fire protection for the Methanol Building by utilizing green foam technology, providing effective fire suppression while supporting environmental sustainability

Project Scope

Demolition, removal, disposal and replacement of the existing fire suppression system with new synthetic EPA/MDE regulated systems. All installation must comply with all applicable codes

Spoils Hauling & Demolition Services

4 Depots at Anacostia, Lyttonsville, Temple Hills, and Gaithersburg



Project Size

The work will occur at all four (4) WSSC Water maintenance depots along with other project sites, requiring the removal and transportation of debris to approved landfills throughout Maryland

Project Services

Assist WSSC Water personnel in handling and disposing of debris from construction and repair sites to ensure safety standards are upheld and environmental stewardship objectives are met

Project Scope

Daily waste collection and transportation throughout the Commission to certified and licensed landfills, complying with all applicable laws, ordinances, rules, and regulations of the respective jurisdictions

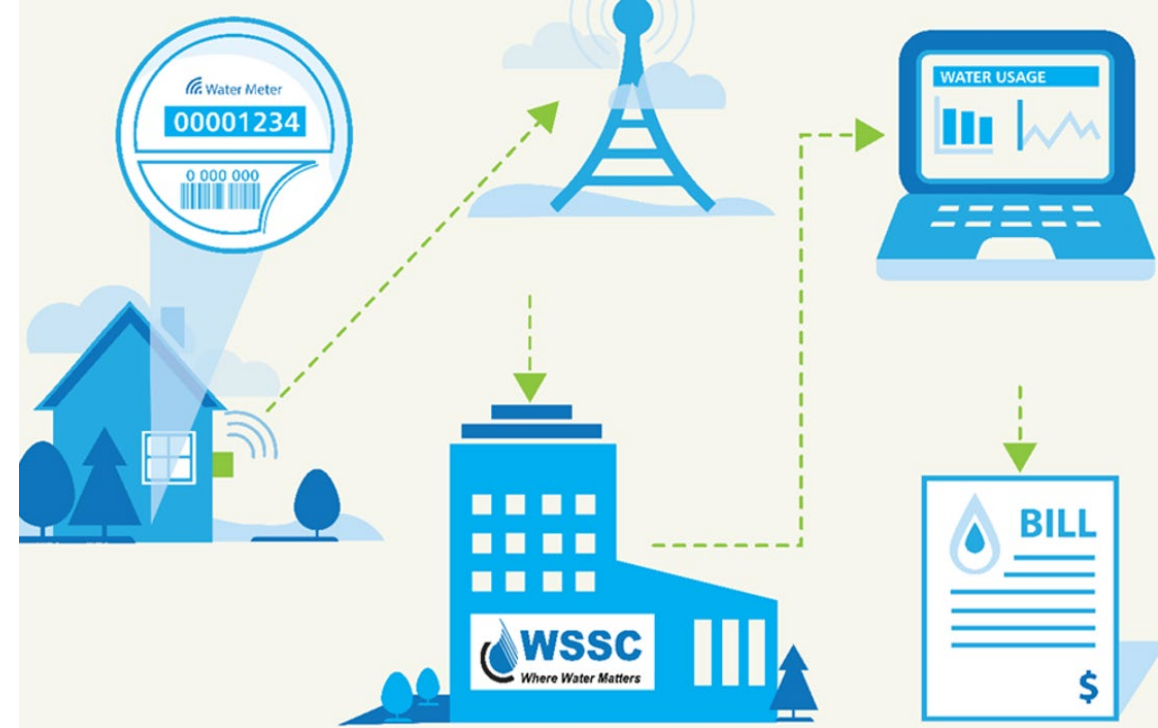
Utility Services Department

Glen Diaz
Director



Advanced Metering Infrastructure (AMI) Deployment

Montgomery and Prince George's Counties



Project Size

- 508,000 Endpoints
- Small Residential to Large Commercial Accounts
- 67% Inside Meters

Project Services

- Supply & Installation of Meters, Transmitters & Network Components
- Customer Usage Portal
- Software Integration
- Testing & Training
- System Maintenance
- System Enhancements

Project Scope

Contractor shall provide a Turnkey AMI Solution, including supply of metering hardware and network materials, customer portal, software integration, and installation across our 1,000 sq mile service area.

Locating and Marking Underground Facilities Services

Montgomery and Prince George's Counties



Project Size

Locating and marking all the Commission's assets (underground facilities) throughout Prince George's and Montgomery Counties within the WSSC Water Service Area.

Project Services

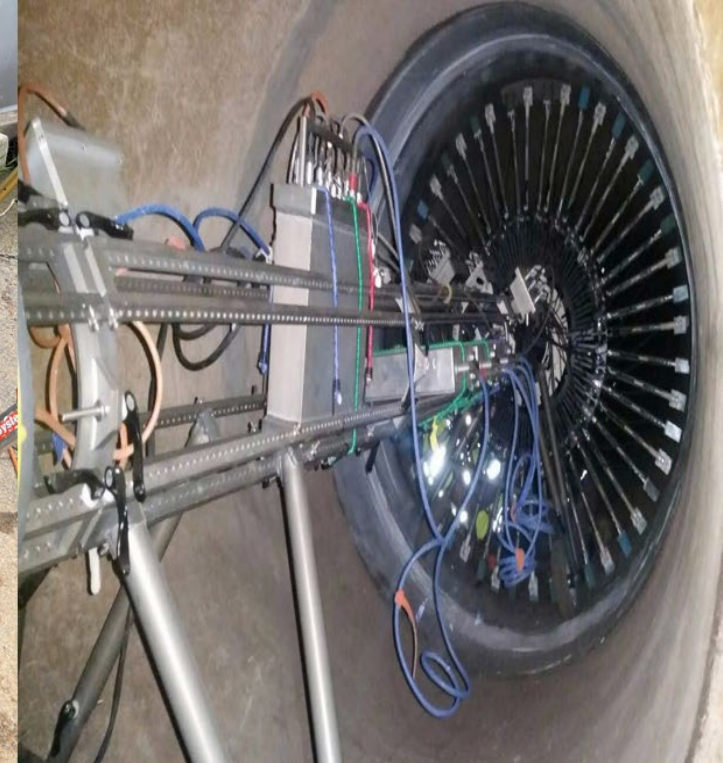
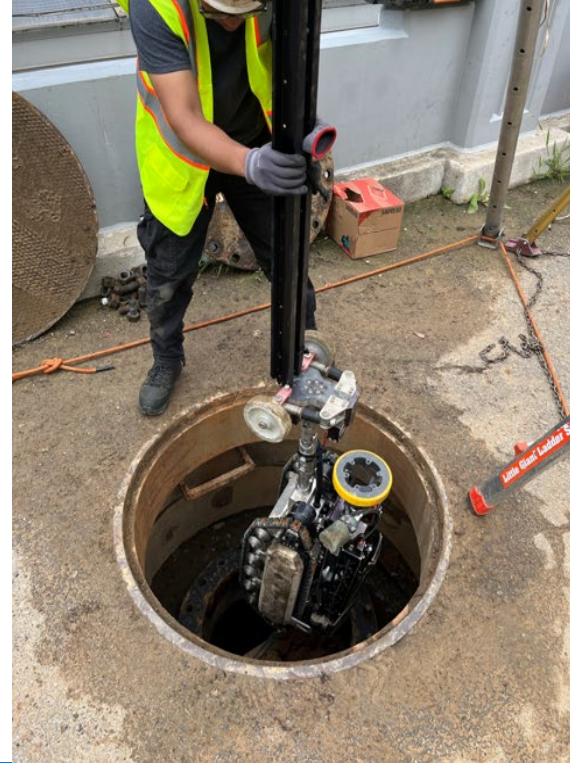
Locate, mark and status all the Commission's assets (underground facilities) throughout Prince George's and Montgomery Counties as per Title 12

Project Scope

- Provide a system for receiving, distributing, and responding to all miss-utility tickets for the Commission
- Identify, locate, mark and status all underground WSSC Water assets within the designated service area as per Title 12
- Offer a 24-hour contact for both routine, emergency locating services and to address any locate concerns

Metallic Main Condition Assessment Basic Ordering Agreement (BOA)

Montgomery and Prince George's
Counties



Project Size

Condition Assessment
Inspections for 6" to 96"
diameter Metallic Water Mains
throughout WSSC's distribution
network.

Project Services

Consultant will be responsible for
all engineering services
labor, parts, material and
equipment.

In addition to:

- Program Development
- Pipeline Assessment
- Technology Evaluation and
Recommendations

Project Scope

Assess and Recommend Pipeline
Condition Assessment
Technologies related to:

- Leak Detection
- Air/Gas Pockets
- Pipe Wall Deterioration
- Corrosion
- Structural Integrity

Transmission Main Specialized Repair Services

Montgomery and Prince George's Counties



Project Size

Provide specialized internal and external repair services for 16-inch and greater transmission mains, and associated structures throughout Prince George's and Montgomery Counties, on an as-needed basis.

Project Services

- Internal and external Fiber Reinforced Polymer (FRP) repairs,
- External post-tensioning tendons repairs,
- Installation of WEKO brand (or equal) seals,
- Rehabilitation of existing outlets, vaults,
- Dewatering, design services, and ventilation of repaired pipes

Project Scope

Repair services for transmission mains 16 inches and larger, including:

- PCCP
- RCP
- DIP
- Cast Iron Pipe
- Steel Pipe and
- associated structures

Flow Monitoring Services

Montgomery and Prince George's Counties



Project Size

At present, there are 234 area velocity meters, 37 depth meters, 7 pressure sensors, and 25 rain gauges installed across our 5,600-mile sanitary sewer system.

Project Services

- Field maintenance of flow & rain monitoring devices
- Maintain spare equipment inventory
- Provide Cloud-Based software/host platform
- Data analysis including I&I calculation
- Identify I&I source detection
- Annual reporting with GIS mapping

Project Scope

Provide service and maintenance for our existing sanitary sewer flow monitoring network, including data analysis and storage.

Sanitary Sewer Overflow (SSO) Consent Decree

Montgomery and Prince George's Counties



Project Size

The project consists of services to assist in reducing or eliminating sanitary sewer overflows (SSOs) and building backups within the WSSC Water Service area.

Project Services

- Investigations of BBK and SSO
- Inspections involving CCTV and manholes
- Conducting smoke tests
- Monitoring flow rates
- Performing hydraulic modeling
- Engaging with the public through outreach efforts

Project Scope

The research pinpointed the underlying reasons for basement backups, surcharges, and sanitary sewer overflows, and proposed measures to avoid these issues in the future.

Small Water Valve Condition Assessment

Montgomery and Prince George's Counties



Project Size

Approximately **75,000** small distribution system valves throughout Montgomery and Prince George's Counties, supporting WSSC Water's distribution network, system reliability, asset management, and emergency response.

Project Services

Inspection, exercising, condition assessment, operability testing, turn counts, GIS and asset verification, photo documentation, minor maintenance, and repairs of small distribution system isolation valves.

Project Scope

Assess small distribution system isolation valves; verify asset information; perform minor maintenance and repairs; identify deficiencies; and provide reporting to support reliable system operations, emergency response, and long-term asset management.

Utility Services Upcoming Contracts

Solicitation Name	Estimated Advertisement Month	Estimated Contract Value
Locating and Marking Underground Facilities Services	August 2026	TBD
Metallic Main Condition Assessment BOA	October 2026	TBD
Transmission Main Specialized Repair Services	November 2026	TBD
Flow Monitoring	November 2026	TBD
Sanitary Sewer Overflow Consent Decree	January 2027	TBD
Small Water Valve Condition Assessment	January 2027	TBD

Planning Division

Tom Hilton
Planning Division Manager



Regional Water Supply Resiliency Project (Secure the Source)



Project Size

To Be Determined

Project Services

Consultant Services:

- Planning and Engineering
- Geotechnical Investigations
- Environmental Investigations
- Public Outreach and Engagement

Project Scope

Development of a Regional Water Supply System that will benefit the entire Metropolitan Region which will provide several weeks of back-up emergency water supply

WRDA Section 203 Feasibility Study and 35% Design

Water Planning Basic Ordering Agreement

Multiple Locations



Contract Size

\$9 million est.

Contract Services

Consultant Services:

- Planning and Modelling
- Optimization
- Analysis

Contract Scope

- Update and calibrate the all-pipes water model
- Perform capacity analyses of the water delivery system
- Water quality modelling
- Employ the utilization of optimization tools
- Develop water demand projections

Enterprise Asset Management Division

Tamrat Bedane, Section Manager

Frederick King, Project Manager



Business Case Evaluation Basic Ordering Agreement



Contract Size

This will be a \$6 million **est.**
3 Year Base Term Contract **est.**

Contract Services

- Architecture and Engineering
- Facilities/Real Property Management
- Non-asset solutions
- Software Evaluation Services
- Public / Community outreach
- Capital Improvement Program Controls
- Economic Analysis
- Software
- Review and Determine Requirements
- Permit and Site Requirements
- Develop and Prepare Documentation
- Environmental and Site Assessments
- Optimization Efforts

Project Scope

Professional services are required to support the WSSC Water's EAMD with the development of business case evaluations.

Accelerated Sewer System Inspection Technology



Contract Size

\$1,000,000 Base Term **est.**

\$1,000,000 Option Term **est.**

Contract Services

Purchase an accelerated sewer system inspection technology to expand the condition assessment technologies currently being used in WSSC Water's gravity sewer system

Project Scope

Free-floating inspection device equipped with advanced sensors to deliver precise, location-referenced data to help WSSC analyze sewer conditions and wastewater quality along the flow path.

Predictive Water Main Break Model and Asset Management Tools



Contract Size

- 3 yr Base Term + Option Years
- Contract Purchase Agreement
- 1-2 Awardees

Contract Services

- Water Main Prediction Model
- Asset Management Tools
 - Decision Support System (DSS)
 - Visualizer
 - Analysis Tools
 - SAMP Report Generation

Project Scope

- Vendor to provide Water Main Predictions using WSSC Data
- Evaluation of Vendor Predictions against actual break accuracy score
- Software Demos

Facility Design and Construction

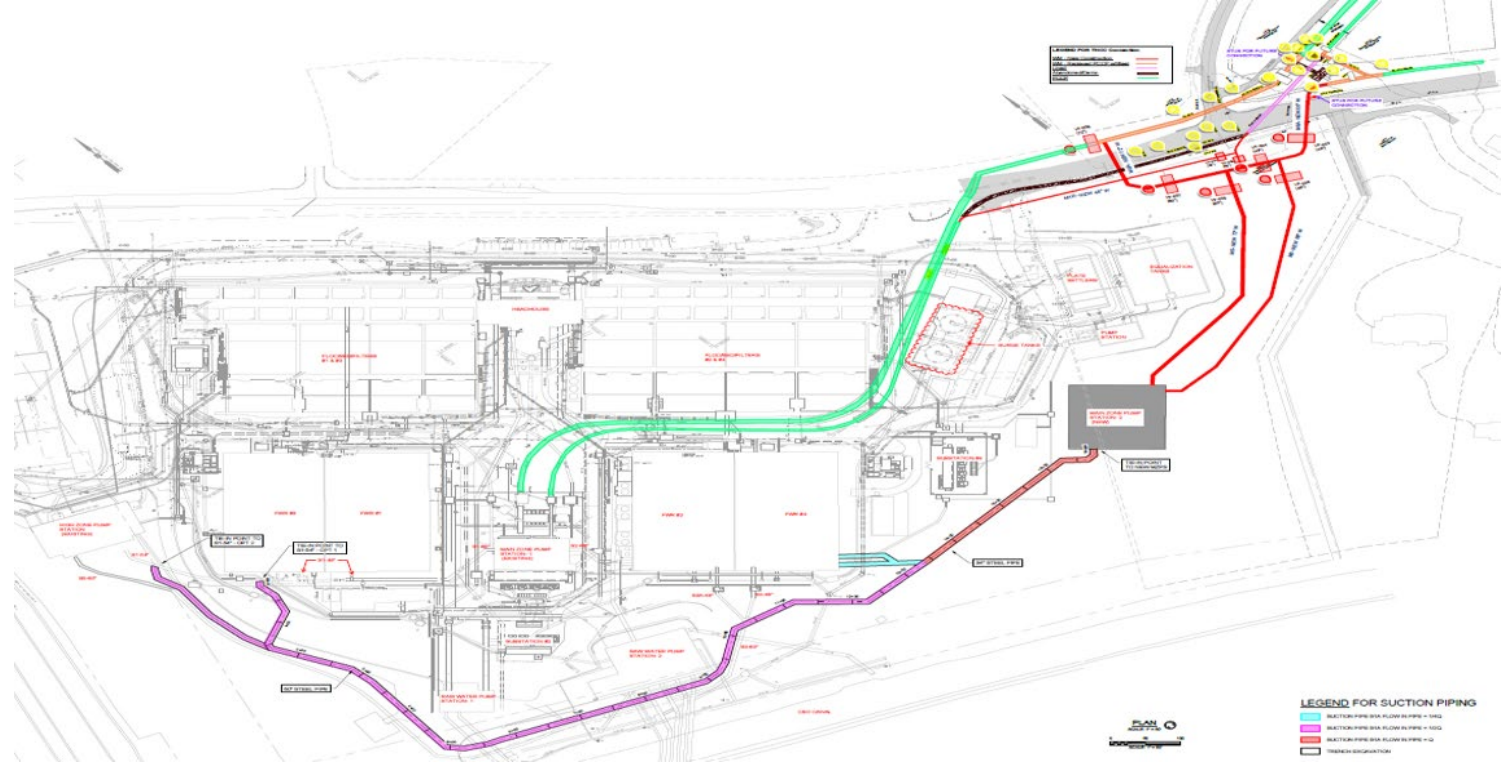
Austin Freeman, Acting Division Manager

Claude Modise, Section Manager



Potomac Water Filtration Plant Main Zone Redundancy Project

Montgomery County, MD



Project Size

\$150 million **est.**

Contract Services

1. Preconstruction Phase Services (CMAR)
 - Constructability reviews
 - Scheduling
 - Cost estimating
 - Risk Identification and Mitigation
2. Construction Phase Services
 - Construction (CMAR)
 - Construction Management
 - Design Services During Construction

Contract Scope

New Main Zone Pumping Station (MZPS) with a 170 MGD capacity

New large-diameter suction mains connecting the Finished Water Reservoirs to the new MZPS,

New discharge mains from the new MZPS to the Tack House Court Complex.

Western Branch Main Substation Replacement

Prince George's County, MD



Contract Size

\$40 million **est.**

Contract Services

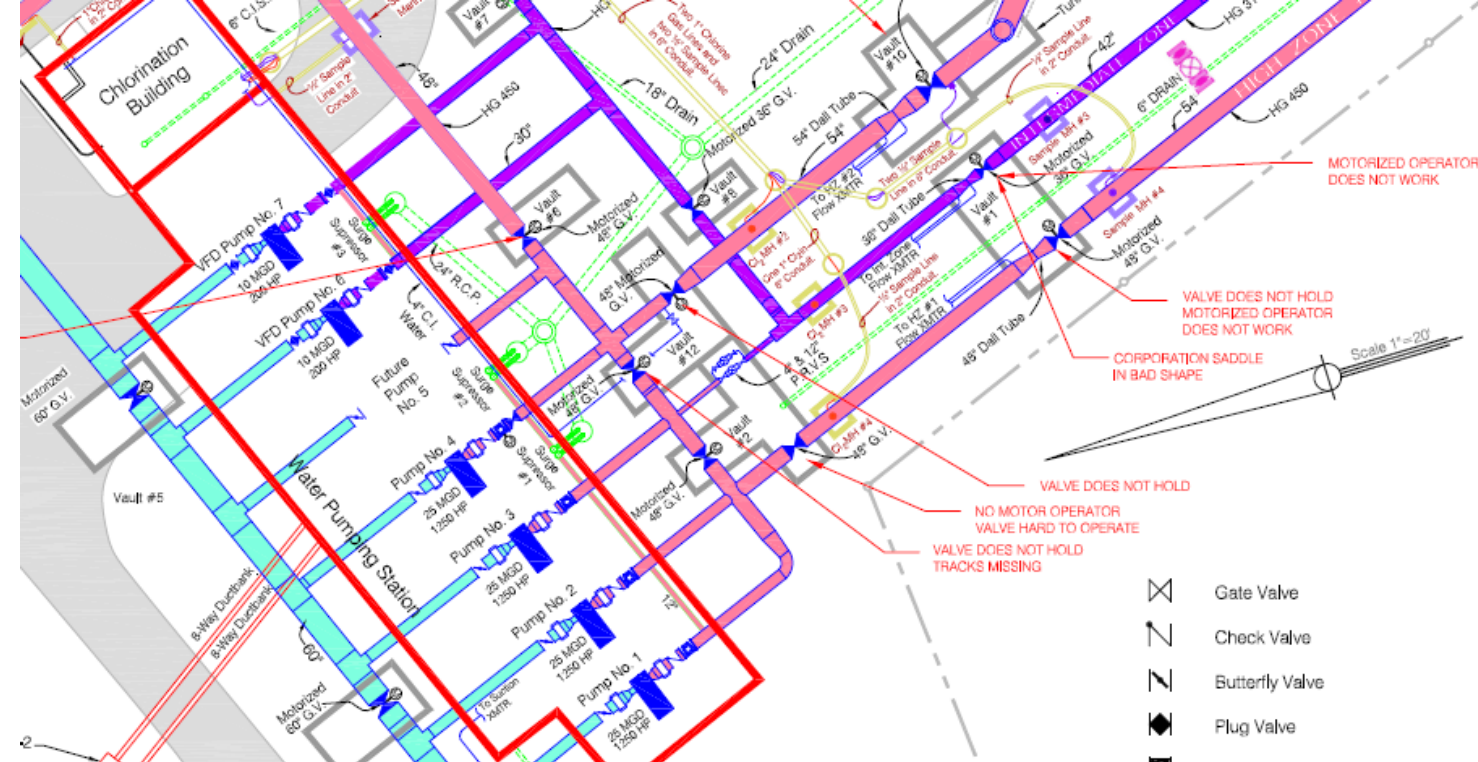
Construction Phase Services

- Design
Services during Construction
- Construction Management
- Construction

Contract Scope

- Replace main substation and provide back-up power
- Major equipment to be replaced: transformers and switchgear
- Provide 2, >2250 KW diesel generators with subbase fuel tank

Central Avenue Water Pump Station Vault Replacement



Contract Size

\$30 million **est.**

Contract Services

Construction Phase Services

- Design
- Services during Construction
- Construction Management
- Construction

Contract Scope

Upgrade infrastructure on the discharge side of the facility,

- including 10 large diameter valves (36", 48", 54")
- PCCP yard piping (30", 36", 48", 54")
- 7 structural concrete vaults, and
- decommission chlorine sampling system
- Replace PCCP with Zinc coated DIP

Bradley Hills Standpipe 1 & 2 Rehabilitation



Contract Size

\$13 million est.

Contract Services

Construction Phase Services

Contract Scope

- Site work including demolition, fencing, piping and vault
- Structural steel upgrades OSHA, Foundation
- Abrasive blasting & coating

Carsondale Wastewater Pump Station Rehabilitation



Project Size

N/A

Contract Services

Construction Phase Services
which includes:

- Design Services during Construction
- Construction Management
- Construction

Project Scope

- Installation of wet pit pumps
- Conversion of existing dry well to vault
- Concrete construction
- New electrical building
- Pipes, Valves, Generator
- Electrical, Mechanical, Instrumentation/Control
- Site work

Western Branch Process Train Improvements



Project Size

N/A

Project Services

Construction Phase Services
which includes:

- Design Services during Construction
- Construction Management
- Construction

Project Scope

- Rehabilitation of aging concrete structures at HRAS, NAS, DNAS
- Clarifier Launderers, diffuser, Blowers, Mixers, MCC
- Hydrograv Adapt System
- DENSE hydrocyclones
- Piping, HVAC, Electrical & Instrumentation systems
- Sitework

Pipeline Construction Division

Brent King
Section Manager



Corrosion Construction Services

Multiple Locations



Contract Size

Approximately \$30 million **est.**
to be bid over three years

Contract Services

- Cathodic Protection is a corrosion control measure used to extend the service life of pipelines and structures
- This contract includes the installation of Cathodic Protection systems on existing WSSC assets
- New cathodic protection systems can be installed while water mains remain in services

Project Scope

Includes the repairing of existing corrosion control systems or installation of new corrosion control which will primarily be a cathodic protection system on existing metallic water and/or sewer mains at multiple locations throughout Prince George's County and Montgomery County, Maryland on as-needed basis remain in service

Street Repair Services

Multiple Locations



Contract Size

Approximately \$85 million **est.**
to be bid over one year

Contract Services

Ensures roadways and sidewalks are restored to jurisdictional standards while maintaining public safety and minimizing disruptions to residents, businesses, and motorists.

Project Scope

Includes grading, subbase preparation, hauling, traffic control, and removal, replacement, and resurfacing of concrete and bituminous concrete roadways, driveways, sidewalks, curbs, gutters, and shoulders disturbed by WSSC Water operations within Montgomery and Prince George's Counties Maryland on as-needed basis.

Construction Contract Management Support Services

Multiple Locations



Contract Size

Approximately \$50 million **est.**
to be bid over two years

Contract Services

Supports the successful delivery of capital projects, maintains construction quality and regulatory compliance, and protects public health and safety

Project Scope

Includes consultant construction contract management and inspection services, within Montgomery and Prince George's Counties Maryland, on an as-needed basis associated with the following programs: water reconstruction, large-diameter water pipe & large valve rehabilitation, sewer reconstruction, and trunk sewer reconstruction

