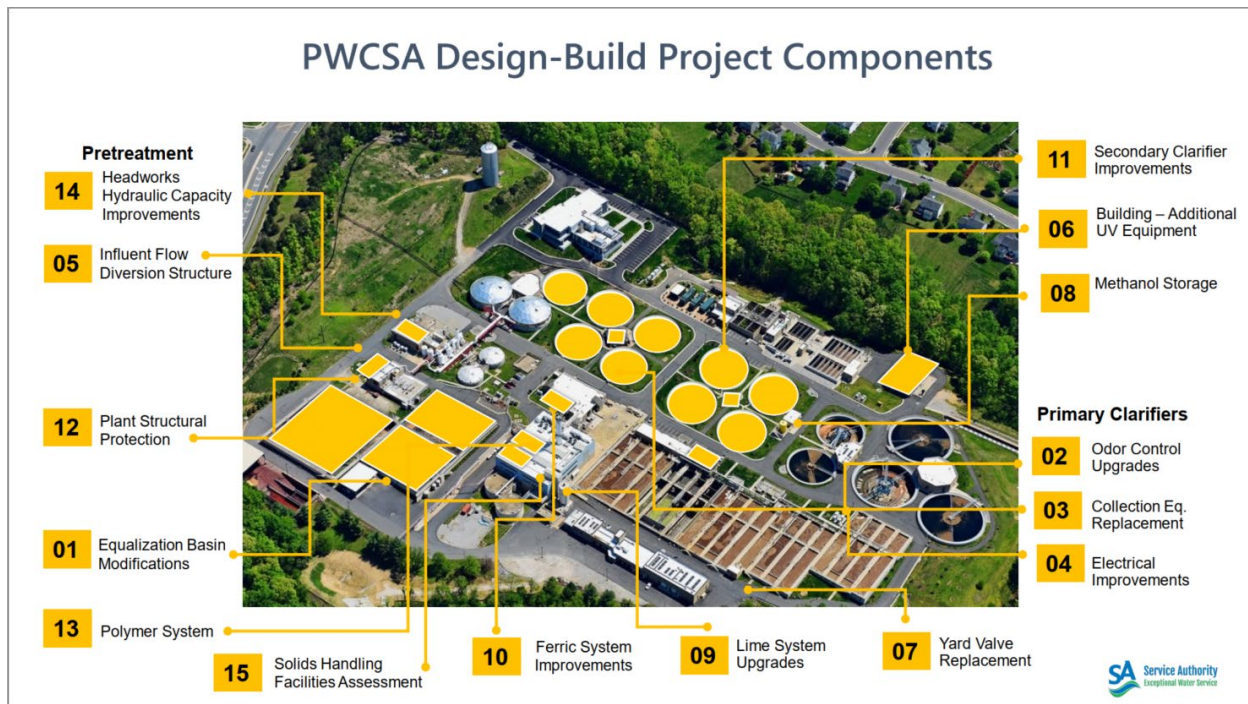


H.L. Mooney Advanced Water Reclamation Facility Wide Improvements

Design Build Contract # SA-2101

Owner's Consultant Contract # SA-2104

Project Description: This Prince William County Service Authority project includes the professional design, project management and construction services necessary to design and construct the Project. The Project is comprised of fifteen (15) components.



Project Website: <https://www.pwcsa.org/mooney-improvements>

Scope of Work:

- The Design-Builder shall provide preliminary design services to the Owner for various portions of the treatment processes at the H.L. Mooney Advanced Water Reclamation Facility (AWRF) as referenced herein. The Design-Builder shall prepare and submit conceptual and detailed designs to complete the 80% Construction Drawings and Construction Specifications, prepare a Guaranteed Maximum Price—Completion Stage proposal and negotiate a price for the Completion Stage. The Design-Builder shall provide optimized best value solutions, which include, but are not limited to the performance criteria detailed in the Conceptual Documents. The Design-Builder shall prepare and provide to the Owner detailed preliminary and final engineering reports. The Design-Builder shall prepare and submit all necessary documents and secure all agency and government approvals and permits to construct the Work. The Design-Builder shall plan the new improvements to work as system and to integrate the new improvements with the existing assets to function and work as a collective system.

- DB Contractor for design and construction of 15 wastewater related projects
- 2 Phases:
 - Phase 1: 15 components are brought to 80% design completion
 - Phase 2: 15 components are constructed or DB takes design to 100%
- Expected duration is approximately 48 months
- Owner's Consultant will assist in negotiating GMP for SA-2101B Completion Stage with DB, and 180 days in providing post construction phase services
- Owner's Consultant: Serves as the Service Authority's representative and on-site PM; perform design review services; coordinate, lead, facilitate, and attend workshops; review administrative documents and cost estimates; provide CM and inspection services; and provide technical guidance and expertise to the Project

Project benefits:

Critical Issues Addressed by the Project

- Replacing a significant amount of infrastructure at the end of its useful life
 - Approximately 70% of cost is for assets from 1980s
- Adding operational improvements and resiliency (Approx. 30% of cost)
 - Equalization Basins' Cleaning System
 - Primary Clarifier Odor Control
 - Influent Flow Diversion Structure
 - UV Building 4th Channel
 - Additional Methanol Storage

Project impact on residents/ customers

- Noise associated with construction
- Construction trucks accessing the plant.
- If any disruption to sanitary sewer service is required, notifications will be given to residents 24 hours in advance.
- Potential impact on traffic.
 - Our standard roadway and traffic matters are outlined below. The Design-Build team will be required to comply with Department of Environmental Quality (DEQ) Erosion and Sediment Control requirements to ensure all construction traffic does not track dirt on roads. The Service Authority included in the construction contract a provision for fees to be assessed if the Construction Contractor does not comply with these requirements. Regular project updates to the impact of traffic will be listed on the website Mooney Improvements.

1.2 Roadways and Traffic

A. Maintenance of Traffic

1. Maintenance of traffic shall conform to the requirements of the Right-of-Way Land Use Permit issued by VDOT and the requirements of other regulatory agencies having jurisdiction.

B. Maintenance of Roadways

1. The Contractor shall sweep and wash all paved roads that are used for hauling, in accordance with the requirements of the DEQ's Erosion and Sedimentation Control Handbook, or as directed by the Owner or Project Representative. At a minimum, the Contractor shall sweep and wash all paved roads at the Site daily.

2. The Contractor shall provide a wheel wash facility at locations adjacent to paved roads, in accordance with the requirements of the Virginia Erosion and Sedimentation Control Handbook, latest edition, or as directed by the Owner or Project Representative. All vehicles leaving unpaved roads must use the wheel wash facility before using paved roads.

C. Public Service Vehicles

1. Contractor shall ensure that school buses, postal service vehicles, trash collection vehicles, emergency vehicles, police, and other public service vehicles can conduct their business in accordance with the requirements of VDOT or other right-of-way permitting agency having jurisdiction, and in accordance with the requirements of specification section 01500 Construction Facilities and Temporary Controls.

D. Parking

1. The Contractor will make suitable parking arrangements for the use of all construction workers and others performing Work or furnishing services in connection with the Contract, to avoid any need for parking personal vehicles where they may interfere with public traffic, residents' use of private property, or construction activities

Project Duration: Approximately

Project Engineer:

Project Point of Contact (POC): Naeem Arshad
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