

NOTICE OF POTENTIAL SUBCONSULTANT SCOPES OF WORK

Contract:

Request for Proposals for Performance of Expert Professional Services for The New Jersey Marine Terminal Rehabilitation of Fire Protection Systems Stage III-Design/Contract Documents and Stage IV-Post Award Services During 2023 Through 2028 (RFP# 6000001647)

Description of Work:

The services of the Consultant shall generally consist of providing expert planning, design, engineering and support services necessary for rehabilitation of the Fire Protection Systems at Buildings 111, 255, 260, 263 and 301 at Port Newark, New Jersey.

Participation Goal:

20% (MBE), 10% (WBE) and 3% (SDVOB). The Port Authority's affirmative contracting goals have been established to address past behavior which has resulted in current racial and gender disparities relative to available counterparties.

Lead Disciplines:

- **Mechanical** – The services of the consultant shall generally consist of preparing Final Design and Contract Documents (Stage III) and performing Post Award Services (Stage IV) related to the replacement of the fire protection and fire alarm system based on the Stage I report in Building 111, 255, 260, 263, and 301 at Port Newark.
- **Project Management** – Overall coordination of the project including management of all disciplines and subconsultants.

Supporting Disciplines:

- **Architecture** – Develop drawings / standard details of any removals of walls, partitions, ceilings to facilitate inspection and / or rehabilitation of piping, sprinklers, and any related equipment. Coordinate with the Authority and develop drawings / details for flood mitigation measures for the protection of critical fire protection equipment / infrastructure. Provide any miscellaneous standard details for fire stopping, pipe / vent, wall penetrations as required.
- **Civil**- Provide general civil engineering design services required including, but not limited to, site removals, site and utility plans, sections and details and pavement restoration details, utility relocation if required, and temporary support and protection during construction of existing utilities to remain.
- **Electrical**– Provide all required fire alarm components associated with the upgrades to the fire protection system. Coordinate with Architecture, Structural, and Mechanical HVAC/ PFP scope of work to modify existing electrical/mechanical equipment and infrastructure as needed. Replace all tamper switches, flow switches, and other devices associated with the fire sprinkler rehabilitation work.
- **Environmental**– Provide environmental design services to include preparation of contract drawings for the removal/abatement (as applicable), for all hazardous materials to be impacted by this construction. The materials include, but are not limited to, asbestos, lead-containing paint, universal wastes, PCB-containing materials, and other hazardous materials.

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- **Fire Protection** - Provide all required fire suppression components associated with the upgrade to the fire protection system. In addition, any existing deficiencies in the fire protection system shall be corrected to provide a fully functioning fire protection system. Design calculations for design review/audit shall be submitted at the final drawing review. All new components shall be compatible with existing system. Fire protection system work shall be coordinated with Architectural, Civil, Electrical, Environmental, Geotechnical, HVAC, Structural, and Traffic scope of work to modify existing fire protection equipment and infrastructure as needed.
- **Geotechnical** engineering design services will be provided by the Authority. Provide investigation, site survey, borings (if necessary), geotechnical work associated with the fire protection system outside of the buildings. Consultant shall coordinate the design with Authority engineers.
- **HVAC** – Provide HVAC engineering design services to identify Mechanical equipment requiring modification, alteration, or relocation to keep these systems functional during upgrade of fire protection work including electric and gas unit heaters, radiant infrared heaters, supply air diffusers and return air registers, exhaust fans, and HVAC ductwork. Incorporate HVAC equipment fan shutdowns into the Fire Alarm design. Coordinate with Electrical/Fire Alarm, and Fire Protection requirements.
- **Resilience and Sustainable** engineering design services will be provided by the Authority. Develop a sea level rise-adjusted design flood elevation (SLRDFE) per the Authority Climate Resilience Guidelines and design measures to meet the SLRDFE for flood-vulnerable assets. Include a drawing note with the project SLRDFE broken out by base flood elevation, freeboard, and sea level rise adjustment. Note the National Flood Insurance Rate Map with panel and year from which the base flood elevation was derived. Consultant shall coordinate the design with Authority engineers.
- **Structural** –Provide design services of main and branch sprinkler pipe vertical hanger attachment and main sprinkler pipe seismic bracing to attach to existing structural framing only. Use beam clamps instead of c-clamps for steel I beam vertical hanger attachments. C-clamps will not be accepted by the structural department. Coordinate with other disciplines and the Stage 1 report for the subject buildings.
- **Traffic** engineering design services will be provided by the Authority. Consultant shall coordinate the design with Authority Engineers.

Please note: The disciplines included on this document may not be exhaustive and is to be used for informational purposes only.