5.0 Hospital Ground Rehabilitation Work Scope

SCOPE OF WORK

GENERAL

1. Project Documentation and Reporting

Document the entire project through reports, to include pictures, submittals, and a daily field report. The reports must be typed; handwritten reports will not be accepted and submitted to the project manager and project team. Project report template should include at minimum the following categories:

- Project name
- Project manager
- Project summary
- Status date and percent completion
- Project key parameters and comments
- Project risks and issues
- Risk/issue description – Owner and status
- Conclusion

2. **Certifications and permits**
   The Offeror will be responsible for obtaining all certifications and permits with (support from WAPA personnel) necessary for completion of the project from the appropriate regulatory agencies.

3. **Environmental Considerations**
   All waste materials to include released product, oil contaminated soil, absorbent and all other materials must be properly handled and disposed of in accordance with applicable local and federal requirements at the expense of the Offeror, including required testing and documentation. Materials noted herein shall not be disposed of in the local landfills if material is determined to be hazardous.

Scope of Work

The scope of the work for this project includes the supply and install approximately 2,415 LF +/- of 12” C-900 PVC and approximately 770 LF +/- of 10” C-900 PVC water main

and all laterals and related valves, fittings, and hydrants in Hospital Ground on St. Thomas. The contractor is responsible for the cutting and capping or removal of all existing waterlines, hydrants and restoration of disturbed paved and landscaped areas. The price shall include all materials, equipment, and labor for a complete job in place. All work must comply with applicable federal, territorial, local laws, codes, orders and regulations. The contractor/offeror shall supply all the manpower, materials, tools, equipment, safety devices, knowledge, experience, and supervision to complete the project as shown on proposal drawing and noted in specifications but not limited necessarily to the following description:

1. **Verification of Existing Utilities**

   Representations of existing utilities, facilities, and structures in the Contract Documents are based upon the best available information. The Owner and the Authority will not be responsible for the completeness or accuracy thereof nor for any deductions, interpretations, or conclusions drawn there from. The Contractor shall verify to his/her own satisfaction by test pit, line tracing, or other means, the actual location of existing utilities prior to construction in their vicinity.

2. **12-inch Water Line Installation**

   Supply and installation of approximately 2,415 +/- LF of 12" AWWA C-900, DR-14 PVC water main. Install main as specified and/or shown on the drawings, including excavation, bedding, backfill, 95% compaction with 6" lifts verified with compaction testing reports, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place.

   a. Supply and installation of nine (9) 12" AVK gate valves.

3. **10-inch Water Line Installation**

   Supply and installation of approximately 770 +/- LF of 4" AWWA C-900, DR-14 PVC water main. Install main as specified and/or shown on the drawings, including excavation, bedding, backfill, 95% compaction with 6" lifts verified with compaction testing reports, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place.

   a. Supply and installation of nine (9) 10" AVK gate valves (including Hydrant valves).

1. **Insertion Valves**

   Supply and install insertion valves along with associated appurtenances and as shown on the drawings, including excavation, compaction, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place.

   a. Supply and installation of six (8) new 12" insertion valves.
   b. Supply and installation of nine (7) new 10" insertion valves.
   c. Supply and installation of nine (4) new 4" insertion valves.

2. **Service Connections**

Install as specified and/or shown on the design drawings and needed for operation, including corporation stops, curb stops, excavation, bedding, backfill, compaction, restraining devices, base paving, valve box and cover and all labor, equipment, and material for a complete job in place. Note not all service connections are shown on the plans.

a. Supply and installation of thirty-eight (38) +/- new 1-inch service connections.

b. Supply and Installation of one hundred and six (106) +/- new meter boxes

3. **Air Vacuum Release Assemblies**

Supply and install air release assembly along with associated appurtenances and as shown on the drawings, including excavation, compaction, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place.

a. Supply and installation of five (2) new air vacuum release assemblies.

4. **Acoustic Access Points**

Supply and install acoustic access points along with associated appurtenances and as shown on the design drawings, including excavation, compaction, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place. Should be installed within every 250 linear feet.

a. Supply and installation of fifteen (15) new acoustic access points.

5. **Hydrant Assemblies**

Supply and install fire and flushing hydrant assembly along with associated appurtenances and as shown on the design drawings, including excavation, compaction, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place.

a. Supply and installation of six (6) hydrants.

6. **Pipe Tee Fittings**

Supply and install tapping sleeves along with associated appurtenances and as shown on the design drawings/, including excavation, compaction, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place.

a. Supply and installation of four (4) new 12” x 12” Tee Fittings.

b. Supply and installation of two (2) new 10” x 10” Tee Fittings.

7. **Reducer Fittings**

Supply and install tapping sleeves along with associated appurtenances and as

shown on the design drawings/, including excavation, compaction, base, fittings, testing, etc. and all labor, equipment, and material for a complete job in place.

a. Supply and installation of one (1) new 6" Reducer Fittings

8. Site Restoration & Cleanup

Replace all roadway pavement, sidewalks, curb, landscape features and appurtenances in accordance with the Virgin Islands Department of Public Works (VIDPW) requirements. Repair any disturbance to private property to the property owners and VIWAPA's requirements. Clean up the work site and return to pre-construction state or better. All trenches must achieve 95% compaction with 6" lifts verified with compaction testing reports. All paved roads need to be resurfaced for a minimum of 8 feet wide.

9. Rock Excavation

Removal and disposal of rock encountered during construction. Rock removal shall conform to Specification Section 02316 Rock Removal.

a. Removal of rock has been assumed as seven hundred (700) cubic yards.

10. As-Builts

a. AutoCAD markup drawings of equipment and utilities at the completion of project.
b. PDF files of all as-builts.

11. GIS Recording

a. Shape files depicting Global Coordinate System of GCS_WGS_1984 to be assigned to ALL CAD and GIS data submittals.

b. Feature. Shape files and Tabular (excel) Survey Data to be submitted in separate data sets.

c. Point Feature (Valves, Curb stops, Meter boxes, fittings, ARV, Acoustic points, trace wire risers, hydrants, Sample points)

d. GPS coordinates (lat/long) must be included in the attribute table (along with all other relevant attributes that we want included) in Latitude/longitude in decimal degree format (no less than 6 decimal places)

e. Line features (Watermains, Service lines, etc) - coordinates need a Start (X,Y) and an End (X,Y) every 100' (or less if it is a short line such as a service line) This needs to be represented in a specific format when submitting the survey data set.

12. Cut, Cap, & Abandon

Cut existing water mains and laterals and install end caps as shown on the project drawings. Abandon Pipes in place unless they need to be removed to allow for installation of the new pipes.

a. Supply and installation of two (2) end caps.

b. remove and replace all pre-existing fire hydrants