

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2 SUMMARY

- A. Section includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Phased construction.
 - 4. Work by Owner.
 - 5. Access to site.
 - 6. Coordination with occupants.
 - 7. Work restrictions.
 - 8. Specification and drawing conventions.
- B. Related Sections:
 - 1. Division 01, 26 and 31 Specification Sections

1.3 PROJECT INFORMATION

- A. Project Identification: BNIA – Upgrade Cathodic Protection - Fuel Farm; NFTA Project No. 15BF0711
 - 1. Project Location: Buffalo Niagara International Airport, Buffalo, NY (Fuel Farm located at 275 Aero Drive, Buffalo, NY 14225)
- B. Owner: Niagara Frontier Transportation Authority (NFTA), 181 Ellicott St., Buffalo, NY 14203
- C. Design Engineer: C&S Engineers, Inc., 90 Broadway, Buffalo, NY 14203
- D. Cathodic Protection Subconsultant to Design Engineer: Valenti Technological Innovations, 5201 Dunhill Road, Fayetteville, NY 13066.
- E. Engineer (Construction): Designated NFTA Resident Engineer for the project or other construction-phase representative designated by the Owner.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of the Project is defined by the Contract Documents and consists of the following:

1. The lump sum base bid work includes (but is not limited to) all mobilization/demobilization, labor, material, tools, equipment, utility locating, supervision, testing, restoration, bonds, insurance, and maintenance/protection of traffic to complete cathodic protection upgrades at the Local Transfer Fuel Piping Galvanic System, Remote Transfer Fuel Piping Galvanic System, Tank Farm Support Structure Galvanic System, Tank Farm Impressed Current System, isolation valves, piping modifications, and elevation of existing fuel dispenser to allow the installation of a valve. General designated tasks within the Work include (but are not limited to) the following:
 - a. Fuel Piping Galvanic System, Local Transfer, Task 1 – Replace 2 existing testing stations, preserve and reinstall existing test station wiring, and install 2 additional magnesium anodes (for each test station).
 - b. Fuel Piping Galvanic System, Local Transfer, Task 2 - Install a new test station with 2 magnesium anodes for the MO gas piping. This installation will require bonded connections to existing piping.
 - c. Fuel Piping Galvanic System, Local Transfer, Task 3 - Install 2 new test stations and four (4) magnesium anodes (for the local dispensing piping test station) and six (6) magnesium anodes (for the receiving piping test station) in the grass island area adjacent to the roadway. One station will be for the piping to the fueling islands. The second station will be for the piping from the landside delivery area to the Fuel Farm. These installations will require bonded connections to existing piping.
 - d. Fuel Piping Galvanic System, Remote Transfer, Task 4 – Replace 4 existing test stations serving the original 12” transfer piping while preserving and reinstalling existing test station wiring. Install 6 magnesium anodes at each test station and extend the header cable into the new test station to supplement the existing cathodic protection.
 - e. Tank Farm Support System Galvanic System, Task 5 – Install a new test station with 4 magnesium anodes at the oil-water separator. This installation will require bonded connections to the oil-water separator.
 - f. Tank Farm Impressed Current System, Task 6 – Extend the existing rectifier negative lead to each of the 4 main tanks. The lead is currently affixed to framework supporting above ground pipes adjacent to the main tank area.
 - g. Tank Farm Impressed Current System, Task 7 - Replace the existing impressed current anodes around each of the four (4) main tanks – 5 high silicon cast iron anodes for each of the three (3) Jet A tanks, 4 high silicon cast iron anodes for the AV Gas Tank. The existing anodes of the impressed current system (tank area) can be abandoned in place unless they interfere with the installation of the cathodic protection upgrade. Existing anode and header cables are near the surface or visible within the loose stone and are to be removed. Install new anode and

connect lead wire to a new header cable that is also to be installed. Connect new header cable to the existing positive rectifier lead, originating from the Fuel Farm control building, at each respective tank. Existing lead at each tank is currently located in a junction box, adjacent to the tank that is to be removed for an underground splice to the new header cable.

2. Valve and Piping Work Task 8:

- a. Installation of isolation valves to ensure proper close-off of underground piping for periodic pressure testing. Installation of seven pressurization ports to introduce nitrogen for pressure testing piping, including gauges and valves as indicated.

3. Raising of Existing Dispenser Task 9:

- a. Fabricate steel pump support and hot-dip galvanize the support. Remove existing dispensing pump and install on support allowing the installation of the new isolation valve. Extend Class 1 Div 1 electrical connections as necessary. Verify proper operation of pump.

4. Existing Actuated Valves Task 10:

- a. Overhaul existing actuators as necessary for six operating valves. Inspect and replace worn or damaged valves as required for proper shut-off. Relocate actuated valves in offloading fuel trains as indicated and install isolation valves in former actuated valve positions. Extend Class 1 Div 1 electrical as required. Verify proper operation of relocated valves.

B. Type of Contract

- 1. Project will be constructed under a single prime contract.

1.5 PHASED CONSTRUCTION

- A. The Work shall be phased as required to maintain fueling operations on the field. Any required outages shall be carefully coordinated and planned to minimize impact to facility. Temporary fueling facilities may be required if a outage is planned for 8 hours or more. Construction and outages shall be ordered by product; Av-gas first, Mo-gas second, and Jet-A third.

1.6 WORK BY OWNER

- A. General: No work is to be performed by the Owner. Cooperate fully with Owner so work may be carried out smoothly, without interfering with or delaying work under this Contract or daily activities/operations by the Owner.

1.7 ACCESS TO SITE

- A. General: Contractor shall have limited use, subject to any Owner operational limitations/restrictions, of the Project site for construction operations during the construction period. Contractor's use of Project site is limited by Owner's right to conduct daily activities/operations and as otherwise indicated in the Contract Documents (including the General and Supplementary Conditions).
- B. Use of Site: Limit use of Project site to designated work and staging areas. Repair damage caused by construction operations. Do not disturb portions of site beyond areas in which the Work is indicated.

1.8 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy site and operate existing systems during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Provide not less than two week days notice to Owner of activities that will affect Owner's operations. Provide temporary fueling capabilities if outages are anticipated to be greater than 8 hours.

1.9 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations as set forth in the Contract Documents and as otherwise required by the Owner.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, except as otherwise indicated or approved by the Owner.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than 5 days in advance of proposed utility interruptions.
 - 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy/operations with Owner.
- E. Nonsmoking Building/Site: Smoking is not permitted within Owner buildings or on the Owner's project work site.
- F. Employee Identification: Provide identification tags for Contractor personnel working on the Project site. Require personnel to utilize identification tags at all times.
- G. Employee Screening: Comply with Owner's requirements regarding security and background screening of Contractor personnel working on the Project site.
 - 1. Maintain list of approved screened personnel with Owner's Representative.

1.10 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on the Drawings are described in detail in the Specifications. One or more of the following are used on the Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations.
 - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000