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May 31, 2024

Re: Fuel System Upgrades
Clark County Airport
Clark, South Dakota
AIP #3-46-0009-017-2024
Helms #A-9350

Bid Opening: **June 5, 2024**
2:00 pm Local Time

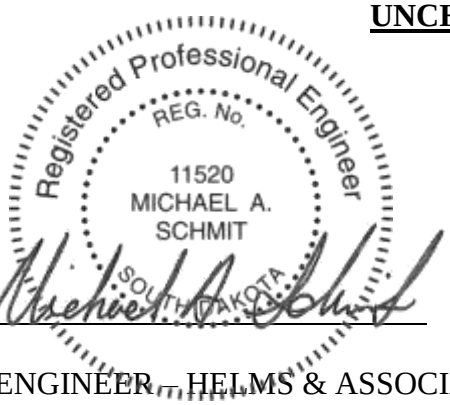
ADDENDUM NUMBER 1

The following modifications are made to the plans and specifications for the Fuel System Upgrades, Clark County Airport:

CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS

1. General Provisions, Item C-105 Mobilization, Pages 97-98, clarification that Mobilization shall be limited to 10 percent of the total project cost.

ALL OTHER ITEMS OF THE PLANS AND SPECIFICATIONS REMAIN UNCHANGED



BY:_____

PROJECT ENGINEER – HELMS & ASSOCIATES

Acknowledge receipt of the Addendum by inserting its number on the Bid Form. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as above.

DATE: May 31, 2024

PROJECT: Fuel System Upgrades
Clark County, South Dakota
DGR Project No. 733701

ADDENDUM NO. 1

This Addendum forms a part of the Contract Documents and modifies the Contract Documents, Specifications, and Drawings as described below. The Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form as failure to do so may subject the bid to disqualification.

Drawings

Sheet E8 (Details – 5,000 Gallon 100LL Avgas Cylindrical Tank – Side Elevation). Add components as indicated and revise as shown in Figure 1 below.

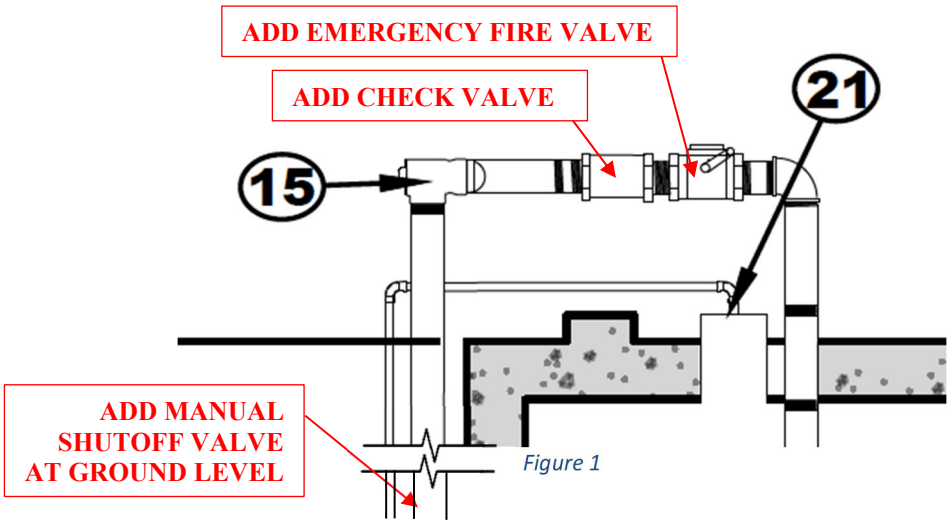


Figure 1

Sheet E8 (Details – 5,000 Gallon 100LL Avgas Cylindrical Tank – Side Elevation). Revise Keynote #1 (Suction Piping) text callout to: CUT PIPE 9" FROM TANK BOTTOM.

Sheet E8 (Details – 5,000 Gallon 100LL Avgas Cylindrical Tank – Side Elevation). Remove Keynote #12 label.

Sheet E8 (Details – 5,000 Gallon 100LL Avgas Cylindrical Tank – Tank Keynote #5). Revise keynote to: 6-INCH PRIMARY EMERGENCY VENT.

Sheet E8 (Details – 5,000 Gallon 100LL Avgas Cylindrical Tank – Tank Keynote #6). Revise keynote to: 3-INCH PRESSURE/VACUUM VENT.

Sheet E8 (Details – 5,000 Gallon 100LL Avgas Cylindrical Tank – Tank Keynote #12). Remove keynote.

Sheet E8 (Details – 5,000 Gallon 100LL Avgas Cylindrical Tank – Tank Keynote #14). Revise keynote to: 3-INCH OVERFLOW PREVENTION VALVE.

Specifications

Section 23 10 00-1.2 Quality Assurance (Manufacturer Qualifications). Remove entire sentence that states: "The system shall be manufactured at the factory and shipped complete to the site by a company that engages in this type of business on a regular basis."

Section 23 10 00-1.3 References, Item 12. Remove word "Installation" from description.

Section 23 10 00-1.4 Submittals (Operations & Maintenance Manuals, Item 1.b.). Revise description to: One (1) digital copy in PDF format of the operation and maintenance manuals loaded onto a universal serial bus (USB) storage device.

Section 23 10 00-1.5 Delivery, Storage, and Handling. Clarification. During initial fuel deliveries, a contractor's representative shall be on site to train and assist the owner on the procedures for operating the system. Regarding the point-of-sale (fuel management credit card system) an industry representative shall train the owner on-site, via phone, or using web-based tools.

Section 23 10 00-1.6 Warranty (Special Warranty – Electronic pumps and dispensers:). Replace both instances of "electronic pumps" with "pumps and motors".

Section 23 10 00-1.6 Warranty (Special Warranty – Dispenser sumps, pedestals, boots, sump adapters and related accessories:). Remove references to dispenser sumps, pedestals, boots and sump adapters and their associated warranty descriptions.

Section 23 10 00-2.1 Above Ground Storage Tanks (AST) – Aviation Fuel (Manufacturers: Item 1.d.). Revise to: O'Day Tank & Steel LLC.

Section 23 10 00-2.1 Above Ground Storage Tanks (AST) – Aviation Fuel (Capacities and Characteristics: Item 8.). Revise Item 8.e. to:

"Surface Preparation: (1) Coat 1: Atmospheric: SSPC-SP2/3/ISO8501-1:2007 St 2 or SSPC-SP WJ-3/NACE WJ-3L. Immersion: SSPC-SP10/NACE 2/ISO8501-1:2007 Sa 2.5 2-3 mil profile or SSPC-SP WJ-2/NACE WJ-2L. (2) Coat 2 & 3: SSPC-SP6/NACE 3, 2 mil profile."

Add Item 8.f. "Exterior Coating: (1) Coat 1: Epoxy one coat at 5-10 mil dry film thickness (DFT) per coat. Macropoxy 646 or equivalent. Color shall be semi-gloss white. (2) Coat 2 and 3: Acrylic two coat at 2-3 mil DFT per coat. Acrolon Ultra HP Polyurethane or equivalent."

Section 23 10 00-2.1 Above Ground Storage Tanks (AST) – Aviation Fuel (Capacities and Characteristics: Item 9.). Revise Item 9.a. to:

"Surface Preparation: SSPC-SP10/NACE 2 Near-White Blast Cleaning obtaining a minimum angular anchor profile of 2.0 mils. All surface must be clean, dry and free of oil, grease and other contaminants."

Revise Item 9.b. to:

"Interior Coating: An epoxy two-coat system at 4-6 mils dry film thickness (DFT) per coat (total 8-12 mils DFT) to meet the requirements of MIL-PRF-4556F. Epoxy coating shall be Tnemec 61 or equivalent.

Revise Item 9.c to include the requirement for a semi-gloss finish.

Remove Item 9.e. as requirements are now addressed in Item 9.b. above."

Section 23 10 00-2.2 AST Accessories. (Striker Plates:). Remove item as Striker Plates are not required.

Section 23 10 00-2.2 AST Accessories. (Clock Gauge and Overfill Alarm: Item 1.c). Clarification. Gauge shall read in feet and inches.

Section 23 10 00-2.2 AST Accessories. (Overfill Protection Valve: Item 1). Remove "AA" from model number. Contractor shall provide model number appropriate for their system design.

Section 23 10 00-2.2 AST Accessories. (Pressure/Vacuum (Normal) Vent). Revise item name to:

"Pressure/Vacuum Vent."

Section 23 10 00-2.2 AST Accessories. (Atmospheric (Updraft) Vent). Remove item as atmospheric (updraft) vent is not required.

Section 23 10 00-2.2 AST Accessories. (Anti-Siphon Valve). Revise description to:

"Morrison Model 910 or equivalent."

Section 23 10 00-2.2 AST Accessories. (Water Removal (Hand Pump), Item 1.) Remove reference to integral sump bowl

Revise Item 1.b 1" pipe size to 1/2".

Add to Item 1.b.(2):

"Install a Morrison 912 anti-siphon valve or equivalent under the hand pump. Valve shall be normally closed. Replace schedule 40 steel conforming to ASTM-A106 with 304 1/2" stainless steel pipe."

Section 23 10 00-2.3 AST Remote Fill and Spill Container (Fill Box) (Remote Fill Container Box, Item 2.a.). Morrison 715 Series is an acceptable alternative.

Section 23 10 00-2.3 AST Remote Fill and Spill Container (Fill Box) (Connection, Item 1.). Replace "Morrison 800F male" with "Morrison 800 Part B".

Add "or aluminum" to Item 1.b.

Section 23 10 00-2.4 Transport Off-Loading (Tank Filling) (Accessories – Drop Tube). Replace 6" with 9".

Section 23 10 00-2.4 Transport Off-Loading (Tank Filling) (Accessories – Inlet Diffuser). Remove item and descriptions as inlet diffuser is not required.

Section 23 10 00-2.5 Piping Systems. Add the following paragraph immediately after Section 23 10 00-2.5 Piping Systems.

"Pipe and fittings in contact with fuel must be stainless-steel, interior epoxy coated carbon steel, or carbon steel as indicated on the drawings. No zinc coated metals, brass, bronze, or other copper bearing alloys must be used in contact with the fuel. All carbon steel and stainless-steel underground piping must have an exterior protective coating and must be cathodically protected in accordance with impressed current cathodic protection systems (ICCP)."

Section 23 10 00-2.5 Piping Systems (Carbon Steel Piping). Remove in its entirety Carbon Steel Piping and replace with the following.

"Cabron Steel Piping shall meet API Spec 5L Grade B or ASTM A53/A53M, Type S Seamless Grade B, or Type E Electric Resistance Welded (ERW, high frequency) Pipe, Grade B, Schedule 40, for threaded or welded piping."

Section 23 10 00-2.5 Piping Systems (Stainless Steel Piping). Remove in its entirety Stainless Steel Piping and replace with the following.

"Stainless Steel Piping shall meet ASTM A312/A312M, Type S Seamless or Type E Electric Resistance Welded (ERW, high frequency) Pipe, Schedule 40, Type 304 or Type 304L for threaded or welded piping."

Section 23 10 00-2.5 Piping Systems (Fittings). Remove section in its entirety and replace with the following.

"All fittings and valves shall be constructed of carbon steel, epoxy lined carbon steel, stainless steel, or ductile iron, and be resistant to damage by fire. Valve seals and packing must be compatible with the product being used. Valves need not be coat. Provide protective coatings for aboveground fittings and valves as described in section 'Protective Coatings for Aboveground Piping'."

Section 23 10 00-2.5 Piping Systems (Valve Materials). Remove section in its entirety.

Section 23 10 00-2.5 Piping Systems (Quick Disconnect). Remove section in its entirety.

Section 23 10 00-2.5 Piping Systems (Joints). Mechanically attached joints shall not be permitted.

Section 23 10 00-2.5 Piping Systems. Clarification. Hydrostatic testing, ultrasonic testing, radiographic inspection and/or liquid penetrant testing is not required.

Section 23 10 00-2.7 Pumping Systems (Avgas). Remove reference to off-loading through filtration.

Section 23 10 00-2.7 Pumping Systems (Fuel Dispensing Cabinet, Item 6.). Revise description to: The cabinet shall have a roll up or hinged front lockable (keyed) door to allow access to major components and allow for filter changes. Door shall be lockable via padlock. Padlock provided by Owner.

Section 23 10 00-2.7 Pumping Systems (Fuel Dispensing Cabinet, Item 7.). Revise description to: 14-Gauge Stainless Steel Cabinets with front roll up or hinged lockable (keyed) doors and removable or hinged side panels to allow access to major components and allow access to major components and for filter changes. Door shall be lockable via padlock. Padlock provided by Owner.

Section 23 10 00-2.7 Pumping Systems (Pump Motor, Item 1.a. Size: Baldor or equivalent). Remove 3450 RPM requirement.

Section 23 10 00-2.7 Pumping Systems (Pump Motor, Item 5. Options). Remove air eliminator requirement.

Section 23 10 00-2.7 Pumping Systems (Motor Starter). Add Contractors Option: Installing the motor starter on the Fuel System Load Center Pedestal in lieu of in the Fuel Dispensing Cabinet (hazardous location) is an acceptable contractor's option. Enclosure shall be rated minimum NEMA 3R if installed on the Fuel System Load Center Pedestal.

Section 23 10 00-2.7 Pumping Systems (Motor Starter, Item 2. Starter Type: Non-combination). Clarification: Power. Power is single-phase 120/240V. Any references to three-phase power shall be removed.

Section 23 10 00-2.7 Pumping Systems (Electric Rewind Refueling Hose Reel). Replace Hannay Model 6032-19-21 with Hannay. Revised capacity shall be a minimum of 65 feet.

Section 23 10 00-2.7 Pumping Systems (Refueling Flexible Hoses). Revised hose length shall be 65 feet.

Section 23 10 00-2.7 Pumping Systems (Pressure Fueling Nozzle). Remove all references to single point fueling.

Section 23 10 00-2.7 Pumping Systems (Pressure Fueling Nozzle, Item 4). Remove all references to single point fueling.

Section 23 10 00-2.7 Pumping Systems (Pressure Fueling Nozzle, Item 5). Remove item in its entirety.

Section 23 10 00-2.7 Pumping Systems (Pressure Fueling Nozzle, Item 6). Remove item in its entirety.

Section 23 10 00-2.7 Pumping Systems (Pressure Fueling Nozzle, Item 9). Remove item in its entirety.

Section 23 10 00-2.7 Pumping Systems (Pressure Fueling Nozzle, Item 12). Remove item in its entirety.

Section 23 10 00-2.7 Pumping Systems (Pressure Fueling Nozzle, Item 14). Remove item in its entirety.

Section 23 10 00-2.7 Pumping Systems (Valves, Item 4. Foot Valve). Remove item in its entirety.

Section 23 10 00-2.7 Pumping Systems (Valves, Item 7. High Level Shut-Off Valve). Remove item in its entirety.

Section 23 10 00-3.2 AST Installation. (Install tank bases and supports). Replace STI R912 with PEI RP-200.

Section 23 10 00-3.3 Piping Systems. (Testing). Revise both instances of text that reads "pneumatic and hydrostatic" to read "pneumatic or hydrostatic". Remove reference to "ASME B31.3, ".

Section 23 10 00-3.3 Piping Systems. (Performance Testing, Item 3). Remove item in its entirety.

Section 23 10 00-3.3 Piping Systems. (Performance Testing, Item 5). Revise item to

"Connect piping to equipment with flanged ball valve and union.

Section 23 10 00-3.4 Labeling and Identification. (Decals). An engraved placard is not required.

Section 23 10 00-3.8 Testing. (Pressure Testing of Piping). Clarification. After on-site installation, pressure test per manufacturer's installation instructions.

Section 23 10 00-3.8 Testing. (Pressure Testing of Piping). Clarification. Test leak detection for accuracy by manually operating sensors.

Section 23 10 00-3.8 Testing. (Pressure Testing of Piping). Remove requirement to bleed air from fuel piping using manual air vents.

Section 23 10 00-3.9 Training. (Contractor Furnished Training, Item 1). Revise item to

"The contractor shall ensure that proper training is provided for operation and maintenance of the tank, piping system, pumping system, point-of-sale (fuel management credit card system) and all associated fueling systems."

Section 23 10 00-3.9 Training. (Contractor Furnished Training, Item 2). Revise item to

"The training should be up to eight (8) hours (time may be varied as needed) and should be coordinated with training and start-up of the fueling system."

This addendum shall become a legal and binding part of the contract documents. All Bidders shall agree to accept the revisions indicated and prepare proposals in accordance therewith.

DGR Engineering

By Brian D. Meyer
Brian Meyer, PE