

## **Statement of Work**

### **657A4-17-10 FCA Replace Switch Gear, Feeders and Transformers**

#### **Purpose**

Purpose of this Statement of Work is to replace the existing Medium Voltage (13,800 Volt) switch gear, feeders, and 6 out of 10 transformers.

#### **Scope of Work**

The scope of this work involves all items relating to the following:

##### **GENERAL INTENTION**

- A. Contractor shall completely prepare site for building operations, including demolition, removal, and disposal of existing structures, and furnish labor and materials and perform work for Replace Switchgear, Utility Feeders and Transformers for the John J. Pershing Medical Center as required by drawings and specifications.
- B. There will be only one organized site visit on a date and time to be announced later. The site visit will be held at the John J. Pershing VA Medical Center, Bldg. 8, 1500 N. Westwood Blvd., Poplar Bluff, Missouri. Contractors are highly encouraged to attend the pre-bid site visit to fully understand their responsibilities.
- C. Offices of OWH Architects, as Architect-Engineers, will render certain technical services during construction. Such services shall be considered as advisory to the Government and shall not be construed as expressing or implying a contractual act of the Government without affirmations by Contracting Officer or his duly authorized representative.
- D. Before placement and installation of work subject to tests by testing laboratory retained by the contractor, the Contractor shall notify the Contracting Officer's Representative COR in sufficient time to enable testing laboratory personnel to be present at the site in time for proper taking and testing of specimens and field inspection. Such prior notice shall be not less than three work days unless otherwise designated by the COR.

#### **Requirements**

The requirements of this work include, but are not limited to the following:

- A. Site Investigation
  - 1. Perform initial site investigation with the Integrated Project Team and the Architect-Engineering firm OWH.
  - 2. Review present conditions of grounds, existing structures, power poles and conduit feed system.
  - 3. Take note of discrepancies/correlations between this statement of work and the needs of the project.
  - 4. Attend pre-installation meeting with IPT to discuss planning and phasing of the project. Ensure that construction phasing and sequence of operations minimize any and all disruptions to the Medical Center Operations.

5. Work with the Contracting Officer's Representative (COR) to discuss and conform to the requirements listed in the PCRA, ICRA and ILSMs, as needed
6. Discuss rental of mobile generators as necessary for the duration of the work.
7. Discuss installation site safety and security features
8. Define schedule and milestones
9. Discuss utility shutdowns
10. Contractor and IPT to agree on date to begin installation.
11. Review specification questions

B. Mobilization and Demobilization

1. Description: This item shall consist of all labor, materials, and equipment necessary for mobilizing to and demobilizing from the project site. This item shall also consist of all necessary clean up to bring the construction site footprint back into existing or better conditions (site grading, and sodding) as approved by the COR. This item shall also include the procurement of any and all necessary insurance and bonding requirements for the project.
2. Obtain all necessary permits and clearances from the utility provider, Poplar Bluff Municipal Utilities.
3. Repair areas damaged by site preparation activities to previous condition or better, per the direction of the COR

C. Demolition of existing Structures

1. Description: This item shall consist of all labor, materials, and equipment necessary for the removal and disposal (offsite) of the existing brick pavilion and access walk ways and associated concrete foundations. This item shall also consist of the removal and disposal (offsite) of all existing electrical lighting, wiring, conduit, junction boxes, receptacles, panel boxes and any other electrical items associated and/or connected to the existing canopy.
2. Description: This item shall consist of all labor, materials, and equipment necessary for the removal and disposal (offsite) of the existing demolish switch gear building.

D. Installation of Switch Gear

1. Install switch gear as per manufacture instruction including conduit, footer, grounding mounting slab fencing and other details called out by the A & E firm.
2. Provide submittals for approval by the A & E firm and the COR prior to the purchase of any electrical devices.
3. Ensure conduit runs and sequence conforms to the best practices for this site with the least impact on the Medical Center as possible.

E. Replacement of Main Feeders

1. Replace the alternate / Primary feeders from the main utility feed on Westwood drive to the new Switch Gear building.
2. The contractor Shall decide the sequence for the feed replacement based on the site survey.
3. The feed to building 18 – the existing switch gear building must stay active during this process.

**F. Replacement of feeders to Transformers**

1. Replace the feeders from the switch gear to the transformers.
2. Coordinate the timing of the feeder replacement to have the least impact on the Medical Center as possible.

**G. Replace transformers**

1. Replace the selected transformers in conjunction with their perspective feeder replacement.
2. Ensure the phasing of the system stays consistent.

**GOVERNMENT-FURNISHED DESIGN CRITERIA**

The Contractor shall construct this project to conform to the specifications and requirements of the VA Design Specifications at the VA website:

<http://www.cfm.va.gov/til/spec.asp>.

Other design criteria relevant to this project that are not contained within the VA Design Specifications must be obtained by the Construction Contractor and comply with all applicable code requirements, and all Federal, State, and Local laws, rules, and regulations.

**GOVERNMENT FURNISHED-DRAWINGS**

The government shall provide, at the request of the Construction Contractor, any required drawings for informational purposes regarding this project. Any drawings taken off the premises must be returned undamaged, and, if possible, returned along with an electronic copy via email in .PDF format to the Contracting Officer. Any drawings that are currently in electronic format shall be sent to the Construction Contractor via email through the Contracting Officer.

**DELIVERABLES**

Seven (7) deliverable deadlines and their submission requirements are stated below:

<b>Project</b>	<b>Deliverable Requirements</b>	<b>Deadlines after Notice to Proceed</b>
Remove and Replace Existing MV Switch Gear	1. Demolition Plan	60 days
Replace Feeders	2.Engineer Stamped Steel Frame Switch Gear building and Foundation Plans/Details 3. Dig Plan 4. Safety Plan	
Replace Transformers	5. Pedestrian safety incursion plan	
Commence Installing New switch gear.	6. Break Ground and site prep	120 Days
Complete Project	7. Finish Commissioning of all circuits and transformers. Punch List is complete.	180 Days

**SUBMITTALS**

The contractor will provide submittals as directed by the Contracting Officer and COR through the A & E Firm.

Consult Technical Specifications for all required submittals and shop drawings.

The Contracting Officer and COR will have seven (7) days to review the submittals and provide feedback. If the submittal is found unacceptable by the Contracting Officer or COR, the contractor will provide a new submittal for the item found unacceptable within three days after the notice from the Contracting Officer.

## **TESTING**

The contractor will engage an independent testing agency to provide all required laboratory and field testing and reporting as required in the specifications. Breaker trip test, High Voltage Insulation, and Field grounding tests are just some of the tests expected.

## **AS-BUILTS**

The contractor shall utilize the drawings provided by OWH and the Transformer Suppliers of the contractor's choice. The contractor shall maintain 2 copies of all shop drawings on site that are being utilized as "As-Built" drawings to maintain all field changes performed during construction. The Contractor shall submit these "As-Built" Drawings to the Contracting Officer/Contracting Officer's Representative upon completion of the project.

Electronic drawing files of the existing facility may be provided as needed. Contractor may submit a written request for access to these files.

## **Location of Work**

The location of work shall be on the Campus of John J. Pershing VA Medical Center located at 1500 Westwood Blvd. Poplar Bluff Missouri, 63901.

## **Period of Performance**

Work shall be completed within 6 months after the Notice to Proceed is issued by the CO.

## **Deliverables Schedule**

Deliverables shall be submitted per the specifications applicable to this project.

The contractor shall provide as-built drawings, testing information, and any other applicable items and documents related to the project to the COR on a compact disk at the completion of the project,

## **Applicable Codes, Policies, Regulations, or Directives**

All applicable local, state, and federal regulations shall be met. All policies, regulations, and directives of the VA and the medical center shall be met. National codes and standards covering this project shall be met. Applicable items are stated below, but are not limited to:

- A. International Building Code (IBC)
- B. OSHA – CFR 1926
  - 1. All applicable subparts

2. OSHA 10 Hour Completion by workers.
3. OSHA 30 Hour Course Completion by Supervisors and superintendent.

C. Infection Control Risk Assessment (ICRA)

D. Interim Life Safety Measures (ILSM)

E. NFPA

1. NFPA 70 - National Electric Code
2. NFPA 99 – Health Care Facilities Code
3. NFPA 101 – Life Safety Code
4. NFPA 13 – Sprinkler Standard
5. And others as necessary.....

## **PRIVACY AND SECURITY REQUIREMENTS**

Contractor work on site will follow PM 001-136D-17 Physical Access Control for Physical and Information Security.

Prior to contractor's arrival on site, the COR will coordinate with Police Service to identify the number and names of contractors so that the Police Service can provide temporary badges. Additionally, the COR is responsible for coordinate with the service to arrange escorts.

Contractor will complete "VA Privacy Training for personnel without access to VA computer information systems or direct access to use to VA sensitive information" prior to arriving beginning work. The COR will maintain a copy of training for all contractors in the contract folder.

## **Special Requirements**

The contractor shall procure a temporary mobile generator to selected sites on campus for the duration of the project if possible. The mobile Generator shall match the voltage requirements and meet the minimum ampacity requirements of the circuit(s) to be supplied. There may be some cases where the feed pull and the replacement of the transformer will be within tolerable limits to avoid temporary power supply. This determination will be on a case by case basis.

- A. Building 6 and the power supply to the server inside of the facility must be without power for as little time as possible. The emergency power system can be used to supply power during those outages if carefully coordinated.
- B. Several life safety emergency circuits can interfere with temporary power. Coordinated sequencing of events is paramount.
- C. Work will be required After normal working hours for several the tasks needed for this project.

## **Miscellaneous**

Specifications applicable to this project are stated below. Edited specifications shall be provided to the contractor prior to the pre-installation meeting through a modification to this contract. Any additional specifications not shown below, but found during the site investigation to be needed, has been edited by the VA and provided to the contractor before work begins.

	<b>DIVISION 00- SPECIAL SECTIONS</b>	<b>DATE</b>
00 01 15	List of Drawing Sheets	02-17
	<b>DIVISION 01 - GENERAL REQUIREMENTS</b>	
01 00 00	General Requirements	11-15
01 33 23	Shop Drawings, Product Data, and Samples	07-15
01 35 26	Safety Requirements	10-14
01 42 19	Reference Standards	07-15
01 45 29	Testing Laboratory Services	06-15
01 57 19	Temporary Environmental Controls	01-11
01 91 00	General Commissioning Requirements	10-15
	<b>DIVISION 02 – EXISTING CONDITIONS</b>	
02 41 00	Demolition	02-15
	<b>DIVISION 03 – CONCRETE</b>	
03 30 00	Cast-in-Place Concrete	12-15
	<b>DIVISION 05 – METALS</b>	
05 50 00	Metal Fabrications	07-14
	<b>DIVISION 26 – ELECTRICAL</b>	
26 05 11	Requirements for Electrical Installations	01-16
26 05 13	Medium-Voltage Cables	12-12
26 05 26	Grounding and Bonding for Electrical Systems	12-12
26 05 33	Raceway and Boxes for Electrical Systems	05-14
26 05 41	Underground Electrical Construction	12-12
26 05 73	Overcurrent Protective Device Coordination Study	12-15
26 08 00	Commissioning of Electrical Systems	06-13
26 12 19	Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers	12-15
26 13 13	Medium-Voltage Circuit Breaker Switchgear	12-12
	<b>DIVISION 31 – EARTHWORK</b>	
31 20 11	Earthwork (Short Form)	10-12
	<b>DIVISION 32 – EXTERIOR IMPROVEMENTS</b>	
32 05 23	Cement and Concrete for Exterior Improvements	05-13
32 12 16	Asphalt Paving	09-15
32 31 13	Chain Link Fences and Gates	05-13
	<b>DIVISION 34 – TRANSPORTATION</b>	

34 71 13	Vehicle Barriers	05-13
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COR

VAMC Poplar Bluff MO

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