

SECTION 01 GENERAL REQUIREMENTS

PART 1 – GENERAL

1.01 RELATED REQUIREMENTS

- A. All Contract Documents are related to this Section

1.02 WORK COVERED BY CONTRACT

- A. Work under this Contract includes all design, material, permits, tools, labor and travel, if necessary, to complete the project detailed herein and located at the Nome National Guard Hangar in Fairbanks, Alaska. All work must be completed in accordance with the terms and conditions of the Contract Documents.
- B. The work at the National Guard Hangar includes designing and providing in complete and perfect working order a new diesel fuel fired standby generator system to supply power to the entire armory building, as seen in the attached map. The contractor shall provide all materials, appurtenances, and labor to provide for a standby power system that will automatically start and transfer from normal power to standby power upon a power failure and shut off when power is restored.
- C. Contractor must comply with all applicable Federal, State, and Local Regulations and Requirements including but not limited to; Unified Facilities Criteria (UFC), OSHA, NEC, and NFPA.
 - 1. The Standby Generator System is to be designed by a Professional Electrical Engineer, licensed to work in the State of Alaska and submitted for approval to the project manager.
 - 2. Generator size to be based on full load potential of the buildings plus 25 percent reserve/surge capacity
 - 3. Generator and pad placement, and all trenching shall be limited to within the clouded area indicated on the attached map
 - 4. Provide exterior rated corrosion resistant steel enclosure, sound rated per UFC 3-540-01 table 2-1 "Light Industrial".
 - 5. Generator set to include an onboard automatic battery charger, engine block heater, load bank and remote annunciation.
 - 6. Double walled secondary containment, UL 142 listed, steel, above ground, sub base fuel tank with a minimum local 72-hour capacity at full output.

7. Excavate as necessary and install 4 inches of compacted D1 Gravel on top of 4 feet of non-frost susceptible soil.
8. Excavate and install conduit and electrical wiring to new ATS.
9. Install concrete generator pad per the recommendations and sized using the formulas in the attached concrete pad recommendation sheet.
10. Generator pad to extend 6 inches each way past generator enclosure or skids whichever is further.
11. Top of concrete generator pad to be between and 6 and 8 inches above existing grade.
12. Chamfer all exposed edges of pad $\frac{3}{4}$ inches
13. Provide and install all pipe, valves, and fittings for fuel delivery as required by code.
14. Provide and install all conduit and wire.
15. Provide and install 400-amp, 120/240-volt, three phase automatic and manual transfer switch.
16. Backfill trenching and restore surface to original condition (top soil and seed or sod as necessary)

1.03 CONTRACT

- A. Construct the Work under a single lump sum Contract.

1.04 WORK BY OTHERS

- A. Other State projects may be scheduled to be under construction in the vicinity of the project. At this time, there are no known projects scheduled.
- B. Cooperate with other Contractors, Department Consultants, and the DEPARTMENT to minimize conflict with construction operations.

1.05 WORK SEQUENCE AND MILESTONES

- A. Upon receipt of Notice to Proceed (NTP) the CONTRACTOR will be expected to prepare submittals, a detailed project schedule and obtain required permits.
- B. All work shall be substantially complete by September 30, 2023.

- C. This is an active facility all work shall be coordinated with the Project Manager to minimize disruption to daily activities and to provide building access.
- D. Upon completion of project, contractor must demonstrate complete start up and operation procedures witnessed by the owner's representative.

1.06 CONTRACTOR'S USE OF PREMISES

- A. Coordinate use of the premises under direction of DEPARTMENT.
- B. Assume full responsibility for the protection of the facility, roads and grounds in the project vicinity from construction related activities.
- C. Obtain permission and pay for use of additional storage, Work or parking areas needed for construction operations.
- D. The project Site shall be kept clean and organized. Stored materials must always be secured and Foreign Object Debris (FOD) picked up daily.

1.07 SECURITY REQUIREMENTS

- A. When Contractor considers Work has reached Final Completion, submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and request Department of Military and Veterans Affairs perform final inspection.
- B. In addition to submittals required by the conditions of the Contract, provide submittals required by governing authorities, and submit a Final Statement of Accounting giving total Contract Price and sum due.

PART 2 – PRODUCTS

- A. Submit product data to project manager for approval prior to installation for all materials being installed.

PART 3 – EXECUTION

1. Comply with NFPA 70 Article 708 (Critical Operations Power Systems) requirements.
2. Comply with NFPA 110 level 2 criteria.
3. Comply with UFC 3-540-01; Engine Driven Generator Systems for Prime and Standby Power Applications, Chapter Two – Standby Power Generator Design Criteria.

END OF SECTION