Attachment "A"

# 150 kW Generator Replacement
# Orange Police Station
# 314 Lambert Road, Orange CT
# **SCOPE OF WORK**

1. Contractor is responsible for obtaining all required building permits and for scheduling and coordinating all required inspections. Building permit fees shall be waived, except for the state educational fee ($0.26 per $1,000 construction value).
2. Submit reinforced concrete generator pad design structural drawings/calculations signed and stamped by a Connecticut licensed Professional Engineer. Generator pad to meet State of Connecticut Building Code and generator manufacturer's recommendations, including that the weight of the pad should be greater than or equal to the combined weight of the generator and its attached accessories. Design shall include generator anchor bolts. [Deduct Alternate 1]
3. Install concrete generator pad for existing 150 kW police station generator to be relocated to adjacent highway garage (308 Lambert Road). Pad shall be a minimum of 5 feet from the building and 10 feet from a window. Conduits to be installed from generator pad to building prior to pouring pad. Conduit sizes and locations to be coordinated by the Contractor to ensure compliance with the building code and with the generator connection locations. [Deduct Alternate 1]
4. Provide and connect a temporary 150 kW emergency generator and transfer switch for the police station during the generator replacement.
5. Relocate the existing 150 kW police station generator (Kohler Model 150ROZJ, 208/120V, 3-Phase, with subbase diesel fuel tank and weather/sound enclosure) to the new concrete generator pad at the adjacent highway garage.
6. The existing police station generator pad is expected to need to be extended approximately 2 feet for the new 150 kW generator. Submit reinforced concrete generator pad design structural drawings/calculations signed and stamped by a Connecticut licensed Professional Engineer. Generator pad to meet State of Connecticut Building Code and generator manufacturer's recommendations, including that the weight of the pad should be greater than or equal to the combined weight of the generator and its attached accessories. Design shall include generator anchor bolts and pinning of the extension to the existing pad. [Deduct Alternate 2]
7. Install concrete generator pad extension, including pinning, for the new 150 kW police station generator. Generator location relative to the existing conduits to be coordinated by the Contractor to ensure compliance with the building code and with the generator connection locations. [Deduct Alternate 2]
8. Furnish and install a new 150 kW generator with subbase diesel fuel tank and weather/sound enclosure on the extended police station generator pad. Generator shall be Kohler Model 150REOZJF, 150 kW, and shall be wired for 208/120V, 3-Phase. Refer to attached technical specification: 208/120V, 3-Phase, 150kW Engine Generator.
9. Remove and dispose of the existing automatic transfer switch in the police station building.
10. Furnish and install a new 208/120V, 3-Phase, 400A automatic transfer switch in the police station building. Refer to attached technical specification: 208/120V, 3-Phase, 400A Automatic Transfer Switch.
11. Install ground rods and wire as required by code and connect all wiring for the new 150 kW police station generator. This item shall include all conduit, wire, junction boxes, connectors, and other materials required for a complete, functional, code-compliant project.

12. Reconnect generator leads to change existing 150 kW generator relocated to highway garage from 208/120V, 3-Phase to 240/120V, 1-Phase. Manufacturer's voltage reconnection procedure shall be followed. Furnish and install manufacturer's voltage reconnection notice decal and affix a notice on the generator that the voltage has been changed from the nameplate. [Add Alternate 3]
13. Furnish and install a new 240/120V, 1-Phase, 400A automatic transfer switch in the highway garage building. Refer to attached technical specification: 240/120V, 1-Phase, 400A Automatic Transfer Switch. [Add Alternate 3]
14. Install ground rods and wire as required by code and connect all wiring for the relocated 150 kW highway garage generator. This item shall include all conduit, wire, junction boxes, connectors, and other materials required for a complete, functional, code-compliant project. [Add Alternate 3]
15. Contractor is responsible for crane service for installing new generator and for relocating existing generator.
16. Contractor is responsible for excavation, backfill, and restoration for generator pad and conduit installation.
17. Contractor is responsible for all labor, materials, equipment, tools, and supplies required for a complete, functional, code-complaint project.
18. Contractor is responsible for submitting a construction schedule to the town for review and approval.
19. Contractor is responsible for submitting drawings, calculations, technical data, product information, brochures, catalog cuts, operations and maintenance manuals, and other information on materials and equipment to be furnished under this contract to the town for review and approval.
20. Contractor to provide start up and testing, training of town personnel on generator operations and maintenance, and operations and maintenance manual(s) for all equipment.
21. Contractor is responsible for providing all required manufacturer's warranties to the town.