

PROJECT # 8R009RZ
MACC # N40085-08-B-0457
MAXIMO# 4103632

TITLE: INSTALLATION OF ADDITIONAL RECEPTACLES FOR NEW
TRAINING AIDS BUILDING AS4100

ATTACHMENTS:

1. Drawings

SCOPE OF WORK: The contractor shall provide all material, labor, equipment, and supervision required to accomplish the following:

General description – The contractor shall install two new 100 amp 3 phase 24 circuit panels, one 30 kva step down transformer and twelve 20 amp single phase circuits with 19 duplex receptacles. The receptacles are needed to support additional training aids and equipment allocated to Squadron.

Detailed requirements and specifications:

ELECTRICAL WORK:

Construction – The contractor shall:

1. Provide and install, on the first floor, a new Main Lug Only 100 amp, 120/208 volt, 24 circuit, 3 phase, 4 wire Square D or equal electrical panel. Panel is to be located between the existing 480 volt panel and panel RP-2.
2. The new 100 amp panel will be feed from the existing RP-2 Panel and shall be labeled RP-2A.
 - a. Remove three (3), 20 amp single phase circuits from off breakers to free up room in RP-2 Panel. Then install a three pole 70 amp breaker to supply the new panel. Ensure those three existing circuits are completely removed from panel RP-2 and re-routed into the new 100 amp panel.
3. Install three new 20 amp, 120 volt circuits in conduit from new panel to Room 121 and Room 119.
 - a. Room 121 will have five duplex receptacles installed and Room 119 will have one (1) duplex receptacle installed. See first floor drawing for locations and circuit runs.
4. Provide and install, on the second floor, a 30 kva Dry Type 3 phase step down transformer in the hallway close to existing panel LB-2; install a 50 amp 3 pole overcurrent protection device on primary side of transformer and feed the line

side of new 30 kva Dry Type 3 phase step down transformer from existing 277/480 volt LB-2 panel.

5. Provide and install on the second floor, a new Main Circuit Breaker 100 amp, 120/208 volt, 24 circuit, 3 phase, 4 wire Square D or equal electrical panel. Panel is to be surface mounted on the wall of the hallway and fed from the load side of the new 30 kva step down transformer. Panel is to be labeled RP-5.
6. Install two new 20 amp, 120 volt circuits in conduit from new 100 amp panel on second floor and run to Room 219. See second floor drawing for locations and circuit runs.
7. Install two new 20 amp, 120 volt circuits in conduit from new 100 amp panel on second floor and run to Room 206. See second floor drawing for locations and circuit runs.
8. Install two new 20 amp, 120 volt circuits in conduit from new 100 amp panel on second floor and run to Room 203. See second floor drawing for locations and circuit runs.
9. Where conduit and wiring has not been shown on the drawings, the arrangement and routing of the branch circuits will be at the contractor's discretion in accordance with generally accepted good practice for commercial work and the National Electric code (NEC) requirements.
10. Mounting height for duplex receptacles (distance from finished floor to center of device) will be 18 inches AFF.
11. All conductors shall be copper. Insulation shall be 600-volt, type THWN-2/THHN-2.
12. Grounding and Bonding shall be in compliance with NEC requirements.
13. Equipment, materials, installation, and workmanship shall be in accordance with the mandatory and advisory provisions of NFPA 70.