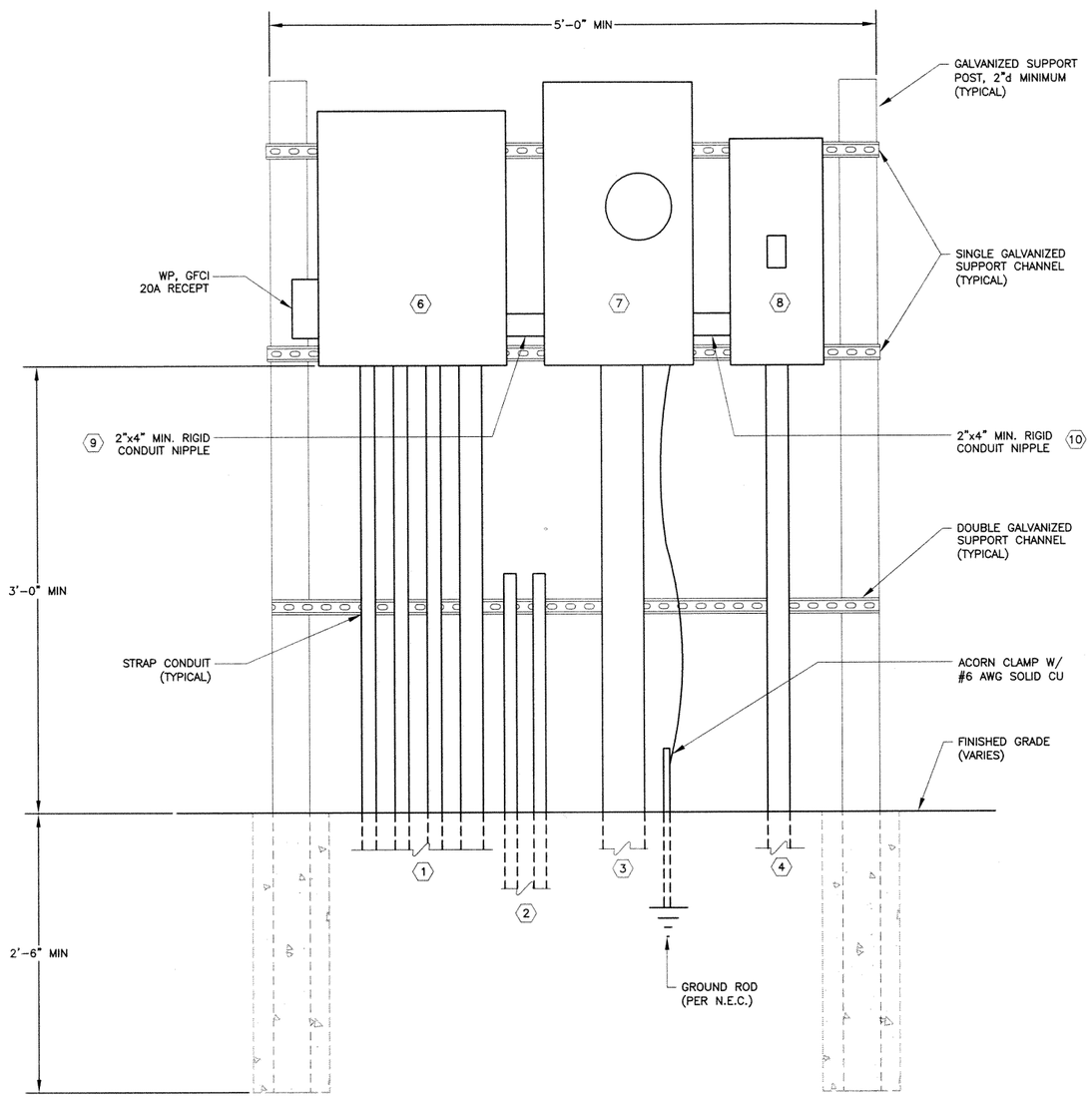

5 SERVICE RACK ELEVATION
SCALE: 1-1/2" = 1'-0"

KEY NOTES:

1. NUMBER OF CONDUITS VARY AS PROPOSED OUTDOOR LOADS VARY. FURNISH AND INSTALL ONE INCH MINIMUM TRADE SIZE SCHEDULE 40 PVC CONDUIT TO EACH OUTDOOR CONDENSING UNIT. SIZE, FURNISH AND INSTALL ADDITIONAL CONDUITS AS REQUIRED TO PROJECT SPECIFIC LOADS SUCH AS PARKING LOT LIGHTING, SEPTIC SYSTEMS, IRRIGATION CONTROLLERS, ETC., IF APPLICABLE.

2. CONTINUE CONDUITS UNDERGROUND AND STUB UP INTO WALL SPACE ADJACENT TO INDOOR PANEL LOCATION (NOT BENEATH PANEL, BUT NEXT TO IT). ONE CONDUIT TO BE USED FOR TEMPORARY RECEPTACLE POWER DURING CONSTRUCTION AND THE OTHER FOR TELEPHONE CHASE INTO BUILDING. ONCE WALLS ARE BUILT, CONTINUE TELEPHONE CONDUIT INTO CEILING SPACE ABOVE CLASSROOM AND STUBBED OUT ABOVE TOP PLATE OF WALL.

3. THREE INCH MINIMUM UNDERGROUND SERVICE ENTRANCE CONDUIT. INSTALLATION AND PROVISION VARIES WITH UTILITY COMPANIES. COORDINATE WITH LOCAL UTILITY TO DETERMINE SCOPE OF RESPONSIBILTY AND PROVIDE A COMPLETE AND FUNCTIONAL, SINGE PHASE, 240/120VAC, 320A MINIMALLY RATED SERVICE.

4. CONTINUE CONDUIT UNDERGROUND AND STUB UP INTO WALL SPACE BENEATH INDOOR PANEL LOCATION TO FEED PROPOSED, 225A INDOOR PANEL. FURNISH AND INSTALL MINIMUM TWO INCH SCHEDULE 40 PVC CONDUIT WITH 3#4/0 (A,B,N) 1#2AWG (G), COPPER (THHN).

5. PROPOSED SERVICE RACK MAY BE BUILT FREE-STANDING AWAY FROM STRUCTURE OR ADJACENT TO STRUCTURE FOR FUTURE ATTACHMENT, DEPENDING ON EXISTING FIELD CONDITIONS AND REQUIREMENTS OF LOCAL JURISDICTIONS. CAREFULLY COORDINATE PROPOSED LOCATION WITH ALL LOCAL AUTHORITIES HAVING JURISDICTION, WITH THE OWNER, AND WITH THE HVAC SYSTEM INSTALLATION. PREFERRED INSTALLATION IS ON THE SAME SIDE OF BUILDING AS OUTDOOR HVAC EQUIPMENT BEING SERVED OR AS CLOSE THERETO AS POSSIBLE.

6. FURNISH AND INSTALL PROPOSED NEMA 3R, GE OUTDOOR PANEL/LOAD CENTER WITH 125A MCB. INCLUDE A MINIMUM OF SIX SINGLE POLE, 20A CIRCUIT BREAKERS, THREE 2P, 40A CB, AND ONE 2P, 50A CB. INCLUDE ADDITIONAL LOAD BREAKERS AS NECESSARY TO FEED SITE SPECIFIC LOAD REQUIREMENTS.

7. FURNISH AND INSTALL PROPOSED MILBANKS METER CAN WITH SINGLE LINE SIDE LUGS AND DOUBLE LOAD SIDE LUGS SIZED TO ACCOMODATE THE PROPOSED LINE AND LOAD CABLE SIZES REQUIRED. METER CAN SHALL BE NEMA 3R AND MINIMALLY RATED 320A AT 240VAC.

8. FURNISH AND INSTALL PROPOSED GE NEMA 3R ENCLOSED CIRCUIT BREAKER RATED AT 225A AT 240VAC.

9. FURNISH AND INSTALL 3#1AWG (A,B,N) 1#6AWG (G), COPPER (THHN) CONDUCTORS AND MAKE ALL REQUIRED TERMINATIONS.

10. FURNISH AND INSTALL 3#4/0 (A,B,N) 1#2AWG (G), COPPER (THHN) CONDUCTORS AND MAKE ALL REQUIRED TERMINATIONS.

GENERAL NOTES:

1. ALL HARDWARE, FITTINGS AND SUPPORT SYSTEMS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.

2. ALL CONDUIT IS SCHEDULE 40 PVC UNLESS OTHERWISE NOTED. CAREFULLY COORDINATE SERVICE ENTRANCE CONDUIT REQUIREMENTS WITH UTILITY COMPANY BEFORE INSTALLATION, INCLUDING ENCASEMENT, BURIAL DEPTH AND SCHEDULE OF PVC.

3. THE CONTRACTOR BUILDING/INSTALLING THE SERVICE RACK SHALL COMPLETE THE INSTALLATION TO THE SATISFACTION OF THE JURISDICTIONAL AUTHORITY TO THE POINT OF HAVING THE SERVICE RACK ENERGIZED AND AWAITING FINAL CONSTRUCTION. FURNISH AND INSTALL ALL NECESSARY CABLE BETWEEN METER AND ADJACENT PANELS, MAKING ALL FINAL CONNECTIONS. LOCKOUT/TAGOUT THE 225A ENCLOSED CIRCUIT BREAKER UNTIL THE DAY OF FINAL CONSTRUCTION. PROPOSED OUTDOOR LOAD CENTER SHALL SERVE AS TEMPORARY CONSTRUCTION POWER AS NEEDED.

SOUTH TEXAS DISTRICT HOME MISSIONS
ELECTRICAL SERVICE RACK – EDNA

DWG NO. E-4

DESIGNED BY: KL
DRAFTED BY: KL
SCALE: AS SHOWN
PROJECT DATE: FEBRUARY 2009