**FOUNDATION NOTES**

1. CONCRETE: CONFORM TO AASHTO SPECIFICATIONS, SECTION 510 - PORTLAND CEMENT CONCRETE, FOR CLASS "C" CONCRETE.

2. REINFORCING STEEL: CONFORM TO AASHTO M-31 (ASTM A 416 GRADE 60). DIMENSIONS SHOWN REFER TO THE CENTERLINE OF BARS UNLESS NOTED OTHERWISE.

3. ANCHOR BOLTS: CONFORM TO AASHTO M-314 (ASTM F 1554 GRADE 55). PROVIDE A W2 NUT, LEVELING NUT, AND A W2 NUTS TO TOP AND BOTTOM OF EACH BOLT. ANCHOR BOLTS ARE INCIDENTAL TO THE FOUNDATION CONSTRUCTION.


5. PLACE CONCRETE IN DRIED HOLES. USE CAEING WHERE REQUIRED BY SOIL CONDITIONS. STUMP CRASHING DURING CONCRETE PLACEMENT, MAINTAINING A 0' MINIMUM OVERLAP.

6. CONSTRUCT FOUNDATIONS IN UNDISTURBED EARTH OR IN DISTURBED SOILS THAT HAVE BEEN COMPACTION TO WCB DENSITY IN ACCORDANCE WITH AASHTO T 80.

7. FINISH GRADE FOR ALL FOUNDATIONS TO BE DETERMINED BY THE PROJECT ENGINEER. CONSTRUCT FOUNDATIONS LEVEL WITH ADJACENT SIDEWALKS OR PAVED AREAS WHEN PRESENT AND CONFORM TO THE SPECIFICATIONS WITH GUIDELINES ACT.

8. REFER TO PROJECT SIGNAL PLANS FOR ELECTRICAL CONDUIT DETAIL AND TOPOLOGY. FURNISHING AND INSTALLING ELECTRICAL CONDUIT IS INCIDENTAL TO THE FOUNDATION CONSTRUCTION.

9. INSTALL COPPERWELD GROUND BOLTS AS REQUIRED BY THE PROJECT SIGNAL PLANS AND SPECIFICATIONS. FURNISHING AND INSTALLING COPPERWELD GROUND RODS IS INCIDENTAL TO THE FOUNDATION CONSTRUCTION.

10. FOUNDATION DETAILS SHOWN ARE FOR THE TRAFFIC SIGNAL STANDARD FOUNDATION AS BUILT AT A LARGER DIAMETER OF CONCRETE. CONSTRUCT A FOUNDATION IN ACCORDANCE WITH THE EQUIPMENT OR FOUNDATION CONSTRUCTION.

11. FOUNDATION DESIGN IS IN BASED ON THE DATA SHOWN BELOW, WHERE SOIL CONDITIONS DIFFER SIGNIFICANTLY FROM THE DESCRIBED SOIL, IN TERMS OF SOIL TYPE AND/OR STRENGTH, CONSULT WITH PROJECT ENGINEER TO DETERMINE DESIGN, MEASURED PRIOR TO FOUNDATION CONSTRUCTION. WHERE DEEMED NECESSARY BY THE PROJECT ENGINEER, PROVIDE ALTERNATE FOUNDATION DESIGNS, SEALE BY A NEW MEXICO LICENSED ENGINEER TO THE PROJECT ENGINEER FOR APPROVAL, PRIOR TO CONSTRUCTION.

**DESIGN DATA**

**DESIGN SPECIFICATIONS:** 2008 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR PRIMARY SIGNALS, LUMINARIES AND TRAFFIC SIGNALS.

- **Concrete:** $f'_c = 3.0$ ksi
- **Steel Reinforcing:** $f_y = 60$ ksi
- **Anchor Bolts:** $f_y = 50$ ksi

**ASSUMED SOIL DESIGN PARAMETERS:** (LOOSE TO MEDIUM DENSE SANDY SOILS):

- NON-COMBUSTIBLE SOL

| SOIL UNIT WEIGHT | $y = 110$ lb/ft$^3$ |
| INTERNAL FRICTION ANGLE | $\phi = 26\degree$ |

- **THE TOP 1.0 FT OF SOIL IS EZERIZED FOR DESIGN:**

| WIND SPEED: 80 MPH |
| TRUCK GUID: INCLUDED |
| GALLOPING: NOT INCLUDED |