**SECTION - POLE AND BASE PLATE A**

- **SCALE:** 1" = 1'-0"
- **OPTIMAL SHAPE OF FORMED TOP OF FOUNDATION**
- **4'-0" DIA. RMC SWEEP FOR POWER AND COMMUNICATION**
- **4" COVERS (TYP)**

**SECTION - FOUNDATION, ANCHOR PLATE AND REINFORCING B**

- **SCALE:** 1" = 1/-0"
- **NOTE:** If individual plates are used, anchor rods must be bonded in position. See Section 1006.45.3 for details.
- **REINFORCING CAGE IS PERMITTED**
- **PERPENDICULAR TO DRILLED SHAFT AT THE TOP AND BOTTOM FOR A MINIMUM OF 1'-0" TURNS BEFORE TERMINATING**
- **ANCHOR RODS SHALL BE TESTED FOR CHARPY V-NOTCH IMPACT STRENGTH IN ACCORDANCE WITH THE SPECIAL PROVISION, “TRAFFIC CONTROL FOUNDATION - SPAN POLE TYPE (TYPE).” CONCRETE SHALL ACHIEVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.**

**ELEVATION - TRAFFIC CONTROL FOUNDATION TYPE C**

- **SCALE:** 1" = 1/-0"
- **Cylindrical concrete feet for bottom support (TYP)**
- **4" DIA.****
- **2'-6" RMC CAP**
- **1" THICK (TYP)**
- **1/8" USA holes max. (TYP)**
- **6" DIA. anchor bolts (TYP)**

**ANCHOR PLATE ALTERNATE DETAIL**

- **SCALE:** 1" = 1/-0"
- **2'-0" #6 SPOOL TIES @ 6" PITCH**
- **#5 SPIRAL TIES @ 6" PITCH**
- **11'-11" O.D. CLOSED CELL ELASTOMER SEAL TO BE PLACED IN THE BASE FOOTING PRIOR TO CONCRETE PLACEMENT. THE SEAL SHALL BE EMBEDDED IN THE BASE PLATE.**

**FOUNDATION NOTES**

- **FOUNTAINS SHALL BE PLACED FOR “TRAFFIC CONTROL FOUNDATION - SPAN POLE - TYPE C” OR “TRAFFIC CONTROL FOUNDATION - SPAN POLE - TYPE D.”**
- **FOUNDATION TYPE SHALL BE DETERMINED BY THE CAMERA POLE HEIGHT AS NOTED IN THE TABLE ON DRAWING NO. CP-1.**
- **CLASS “F” CONCRETE SHALL BE MODIFIED FOR THE DRILLED SHAFT PORTION IN ACCORDANCE WITH THE SPECIAL PROVISION, “TRAFFIC CONTROL FOUNDATION - SPAN POLE (TYPE).” CONCRETE SHALL ACHIEVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.**
- **REINFORCEMENT: ALL REINFORCEMENT SHALL CONFORM TO ASTM A416, GRADE 60.**
- **LONGITUDINAL BARS SHALL BE CONTINUOUS FOR THE FULL HEIGHT OF THE DRILLED SHAFT. THE BASE SHALL NOT BE SPACED.**
- **WELDING OF REINFORCEMENT IS NOT REQUIRED.**
- **SHEAR REINFORCEMENT SHALL BE PROVIDE WITH TWO 2'-0" LENGTH BETWEEN INDIVIDUAL SPEARS.**
- **SHEAR REINFORCEMENT IS REQUIRED WITH CIRCULAR TIES MAY BE SUBSTITUTED, IF EACH TI HAS A 2'-0" LONG. LAP LOCATIONS SHALL BE ALTERNATED IN 90° INCREMENTS BETWEEN ADJACENT TI. LAPS ARE NOT MADE AT A SINGLE LOCATION AROUND THE PERIMETER OF THE DRILLED SHAFT.**
- **SHEAR REINFORCEMENT SHALL NOT TERMINATE ON AN INCLINED PLANE TO THE SHAFT. THE BAR SHAPEodynamics PERPENDICULAR TO THE DRILLED SHAFT AT THE TOP AND BOTTOM FOR A MINIMUM OF 1'-0" TURNS BEFORE TERMINATING.**
- **ANCHOR BOGS SHALL CONFORM TO ASTM A53, GRADE 105. NUTS SHALL CONFORM TO ASTM A 153, HEAVY HEX, GRADE DH. WASHERS SHALL CONFORM TO F436, TYPE 1.**
- **ANCHOR ROOFS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, GRADE C.**
- **ANCHOR PLATE SHALL CONFORM TO ANSI/AWS, GRADE 50.**
- **ANCHOR PLATE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.**
**SUGGESTED POLE INSTALLATION SEQUENCE**

1. The contractor shall mobilize an adequate workspace to assemble and raise the camera pole. The camera pole shall be installed in accordance with the special provisions "Maintenance and Protection of Traffic" and "Prosecution and Proceedings".

2. To assemble the camera pole, lay the pole sections across a minimum of two wood blocks per section as shown on the plans and pull sections together using a come-along. (The handhole shall be oriented toward the sky.)

3. Secure the camera cable and lowering device control cable PVC conduits (inside) to the pole using the plastic tie straps as shown on the plans. Feed the camera cable and lowering device control cable into their respective PVC conduits.

4. Attach the tension plate and tendon; then the arm and junction box in the required orientation.

5. Connect the camera cable wires to the wires going to the lowering device.

6. A guide wire shall be attached to the lowering device control cable at the end of the arm to provide extra control during lifting and placing.

7. Brace the bottom of the pole to prevent sliding of the pole during lifting.

8. Place two slings around the pole for lifting. One sling shall be placed two feet below the splice location and the other shall be placed below the handhole. A lifting cable shall connect the two slings as shown on the plans.

9. Lift the assembled camera pole above the foundation, rotate to required orientation and connect to anchor rod. See the special provision for the camera pole for anchor rod tightening procedure.

10. Next, lower the lowering device control cable using the winch, and disconnect the guide wire. Attach the camera and raise using the winch.

**CONSTRUCTION DETAIL**

![Diagram of camera pole installation sequence](image-url)