

SECTION 16656

FOUNDATIONS FOR TRAFFIC CONTROL DEVICES

PART 1 DESCRIPTION

- A. Construct concrete foundations for small roadside signs, traffic signal controllers, pedestal poles, roadside flashing beacon assemblies, and other small traffic control devices.

PART 2 MATERIALS

- A. Ensure materials and construction methods conform to the requirements of this Item and the pertinent requirements of the following Items:
 - 1. Item 02226, "Excavation and Backfill for Structures"
 - 2. Item 16416, "Drilled Shaft Foundations"
 - 3. Item 03310, "Structural Concrete"
 - 4. Item 16421, "Hydraulic Cement Concrete"
 - 5. Item 16440, "Reinforcing Steel"
 - 6. Item 16441, "Steel Structures"
 - 7. Item 16442, "Metal for Structures"
 - 8. Item 16445, "Galvanizing"
 - 9. Item 16447, "Structural Bolting"
 - 10. Item 16449, "Anchor Bolts"
 - 11. Item 16618, "Conduit."
- B. Use Class A concrete for nonreinforced drilled shafts. Use Class C concrete for reinforced drilled shafts. Use Class B concrete or polymer concrete composed of borosilicate glass fiber, catalyzed polyester resin, and aggregate for traffic signal controller foundations. Use drilled shaft or galvanized steel screw-in type foundations for roadside flashing beacon assemblies.
- C. Use reinforcing steel when required.

PART 3 CONSTRUCTION

- A. Stake and install foundations as shown on the plans. The Owner’s Representative may shift the foundation locations within design guidelines where necessary to secure a more desirable location or to avoid conflict with utilities. Use established industry and utility safety practices when working near underground or overhead utilities. Consult the appropriate utility prior to beginning work.
- B. Hold anchor bolts in place with templates during concrete placement. Hold embedded items such as conduit or other hardware in place during concrete placement with templates or other approved means. Cap conduits before placing concrete. Ream conduit to remove burrs and sharp edges. Install bell ends or bushings on the conduit.
- C. Carefully align foundation, posts, and anchor bolts. Do not spring or rake posts or anchor bolts.
- D. Remove the top template after concrete has achieved initial set. Keep forms and other bracing intact until the concrete has cured at least one curing day.
- E. Allow concrete for pedestal poles and roadside flashing beacon assemblies to cure at least 7 days before placing bases and poles on the foundation unless otherwise permitted in writing.
- F. Allow concrete for traffic signal controller foundations and small roadside signs to cure at least 4 days before placing cabinets and posts on the foundation unless otherwise permitted.
- G. Provide an ordinary surface finish to the concrete foundation extending above ground in accordance with Section 16420.4.M, “Ordinary Surface Finish.”
- H. Place concrete riprap around the foundation in accordance with the plans.
- I. Backfill disturbed surface with material equal in composition and density to the surrounding area. Replace surfacing material with similar material to an equivalent condition.

PART 4 MEASUREMENT AND PAYMENT

- A. The work performed, materials furnished, equipment, labor, tools, and incidentals will not be measured or paid for directly, but will be subsidiary to pertinent Items.

END OF SECTION