SECTION 654 BASES

654.1 Description

(1) This section describes constructing concrete bases, and concrete control cabinet bases.

654.2 Materials

654.2.1 Concrete Bases

(1) Use schedule 40 PVC electrical conduit conforming to the electrical conduit specified in section 652.

(2) For traffic signal bases, types 1 and 2, and for street light bases, types 5, 6, 7, and 8; furnish anchor rods, nuts, and washers conforming to ASTM F1554, grade 105. Hot-dip zinc coat the entire length of the anchor rods, and the nuts and washers conforming to ASTM A153. Thread at least 12 inches of the anchor rod. Use zinc coated nuts manufactured with sufficient allowance to allow nuts to run freely on the threads.

(3) For monotube pole bases, types 10 and 13; use department-furnished anchor rods, nuts, and washers.

(4) Furnish bar steel reinforcement conforming to 505.2.

(5) Furnish grade A, A-FA, A-S, A-T, A-IS, or A-IP concrete conforming to 501.2 as modified in section 716. Provide QMP for class III ancillary concrete as specified in section 716.

654.2.2 Concrete Control Cabinet Bases

(1) Conform to concrete bases specified in 654.2.1 and the following:

- Use either mechanical wedge or epoxy type stainless steel anchors.
- Use stainless steel bolts or studs, nuts, and washers.
- Use anchors having pullout strength of 9000 pounds.

654.3 Construction

(1) Under the Concrete Bases bid items, construct concrete foundations, including necessary hardware, of the specified type.

(2) Under the Concrete Control Cabinet Bases bid items, construct concrete bases for control cabinets, including necessary hardware, of the specified type.

(3) Construct concrete bases and concrete control cabinet bases as specified in section 501, and provide the surface finish specified in 502.3.7.2 and plan details. Inspect the forming and applicable reinforcement for concrete bases before pouring the concrete. Cure exposed portions of concrete bases as specified in 415.3.12 except the contractor may use curing compound conforming to 501.2.9. Wait at least 7 days before installing poles or cabinets.

654.4 Measurement

(1) The department will measure the Bases bid items as each individual base acceptably completed.

654.5 Payment

(1) The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
654.0100 - 0199	Concrete Bases (type)	EACH
654.0200 - 0299	Concrete Control Cabinet Bases (type)	EACH

(2) Payment for the Bases bid items is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor rods, nuts, and washers except under the Concrete Bases type 10 and type 13 bid items; for bar steel reinforcement, if required; and for excavating, backfilling, and disposing of surplus materials.