



OWNER IS RESPONSIBLE FOR INSTALLATION OF SECONDARY CONDUITS AND A MINIMUM OF 8 FEET LENGTH FOR EACH CABLE OUT OF THE CONDUITS. (REFER TO NOTE 1)

TRANSFORMER KVA	ASSEMBLY CODE	DIMENSIONS							APPROX. WEIGHT IN (POUNDS)		
		A	B	C	D	E	F	G	PAD	VAULT	TOTAL
75 - 2500	PV1500	85	85	17	59	8	13	12	6475	7680	14155



CITY OF BATAVIA
ELECTRIC STANDARDS

THREE PHASE TRANSFORMER PAD AND VAULT

Date: 07-29-2011

C40-3005

PG 1 of 3

INSTALLATION REQUIREMENTS

1. The Batavia Municipal Electric Utility office is to be notified for inspection twenty-four (24) hours prior to placement of the transformer pad and vault.
2. Customer is responsible for purchase and installation of pad and vault, using Batavia Municipal Electric Utility specifications. Customer can purchase precast pad and vault or construct in-place. Contact Batavia Municipal Electric Utility for detailed specifications if constructing pad in-place.
3. Direction of transformer pad and primary conduits to be determined by the Batavia Municipal Electric Utility personnel.
4. Pad and vault is to be installed at a minimum of four feet (4') away from any exterior wall of building.
5. Transformer pad and vault shall be placed on a twelve inch (12") compacted crushed rock base.
6. The pad (lid) must be poured separately from the vault so that it is removable.
7. Pad and vault is to be installed so that a minimum of eight feet (8') of unobstructed space is available in front of the transformer. Obstructions are defined as but not limited to: fences, rails, ornamental grasses, trees, shrubs, etc.
8. Primary conduits.
 - a. 12kV Primary Services: Two (2) - five-inch (5") **RIGID** 45-degree elbows and pipes are to be provided to a minimum of five feet (5') beyond the outer edge off the pad and in the direction of the utility's facilities. Elbows are to be long sweep radius.
 - b. 35kV Primary Services: Two (2) - six-inch (6") **RIGID** 45-degree elbows and pipes are to be provided to a minimum of five feet (5') beyond the outer edge off the pad and in the direction of the utility's facilities. Elbows are to be long sweep radius.
9. One (1) - two inch (2") elbow and pipe just under transformer pad, extending to the outer edge is to be provided for the purpose of installing a grounding grid. This grid will be provided by the City of Batavia.
10. One (1) - one and a half inch (1.5") conduit for future municipal fiber optic cable shall be installed with primary conduits, travels under transformer pad, and terminates near meter socket,



on building exterior.

11. Secondary conduits shall not extend more than six inches (6") onto the vault from the bottom of the vault; they shall not penetrate through the vault walls. Exact location of the conduit stubs may vary; coordinate exact locations with the Batavia Municipal Electric Utility prior to construction.
12. Protection posts in the form of six inch (6") concrete filled steel pipes are required in the areas of vehicular traffic. Post shall be 4 feet (4') below grade, with 4 feet (4') above grade. Each post shall be installed in an eighteen inch (18") diameter hole filled with concrete and set one foot (1') off the exposed corners.

CONSTRUCTION REQUIREMENTS

1. Concrete shall reach 4,000 psi at 28 days.
2. Reinforcing bars shall be Number 4, ASTM A615 Grade 60. Pad and vault rebar are to be placed at twelve inch (12") intervals, center to center. And be tied at points of crossing. Vault reinforcing is to be continuous in the four sides of the vault, and overlap twelve inches (12") and tied at rebar ends.
3. Pad and vault are to each have four one inch (1") lifting inserts.
4. Each vault is to have three knock-out windows, twelve inches (12") square and one and one-half (1 1/2") thick as shown on detail. In addition, a one and one-half (1 1/2") pipe shall be placed in the front wall, as shown on the detail, to allow a grounding conductor to be extended to the outside of the vault.
5. A pulling iron is to be installed opposite each window (3 required). Each iron shall be galvanized or coated to provide thirty years of service in a corrosive atmosphere and have an installed pulling strength of three thousand (3000) pounds minimum.
6. Joint tape shall be one inch by one inch (1" x 1") Butyl Sealant.
7. The manufacturer shall certify, in writing, that the vault and pad meets or exceeds the Batavia Municipal Electric Utility standards. For field pours, forty-eight (48) hours notice shall be provided to the Batavia Municipal Electric Utility office of the proposed concrete pours, so that an inspector may determine the City Standards have been meet



CITY OF BATAVIA
ELECTRIC STANDARDS

THREE PHASE TRANSFORMER PAD AND VAULT

DATE: 7/29/2011

C40-3005

PAGE: 3 of 3