ITEM 625 - LIGHTING, MISC.: STEP-DOWN TRANSFORMER AND SUPPORT

Furnish and install a transformer and support as per the details on this sheet.

This item of work includes the transformer, support and foundations, conduit, and all incidental items shown in the details on this sheet and required for a step-down transformer and support, complete and in service.

Payment for the above work shall be made at the contract unit bid for Item 625 - Lighting, Misc. Step-Down Transformer and support, each, installed, in place, fully functional, tested and accepted.

Notes:
1. The transformer shall be a 3 KVA, 480V 3-conductor to 240V 3-conductor step down unit. The transformer shall be sealed, epoxy-inulated, dry type, general purpose outdoor, 90°F insulation, with a stainless steel enclosure (NEMA 3R minimum).
2. The transformer and related wiring shall be UL listed for indoor-outdoor applications and shall meet applicable NEC and IEEE standards.
3. The Contractor shall submit to the Engineer, for approval, two sets of manufacturer’s drawings and specifications for the transformer.
4. Secondary overcurrent protection shall be rated at 125% maximum of the transformer secondary current rating.
5. Conductors to the disconnect switches and transformer shall be watertight and shall use the hubs listed on the enclosure U.L. labels.
6. Disconnect switches shall be lockable in on/off positions and door shut location and shall have 2 padlocks.

The transformer and related wiring shall be UL listed for indoor-outdoor applications and shall meet applicable NEC and IEEE standards.

The Contractor shall submit to the Engineer, for approval, two sets of manufacturer’s drawings and specifications for the transformer.

2. Orient the equipment stand such that when operating the disconnect switch, one would be facing oncoming traffic. See Standard Construction Drawing HL-40.20 for details.
3. Attach all conduit to the equipment stand by means of two hole conduit straps.
4. Secondary overcurrent protection shall be rated at 125% maximum of the transformer secondary current rating.
5. Conduit connections to the disconnect switches and transformer shall be watertight and shall use the hubs listed on the enclosure U.L. labels.
6. Disconnect switches shall be lockable in on/off positions and door shut location and shall have 2 padlocks.

1. A separate disconnect may be needed in cases where disconnect and transformer support is not easily accessible from cabinet/device location.

Notes:
Camera orientation may vary for views in all roadway directions, but shall be at least 90° from handhole location to accommodate lowering unit.

PLAN VIEW

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