



COMMERCIAL PADMOUNT TRANSFORMER VAULT DETAILS
 4'-8" X 4'-8" X 4'-0" VAULT

DISTRIBUTION CONSTRUCTION STANDARD
 EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

TYPICAL COMMERCIAL PADMOUNT TRANSFORMER VAULT DETAILS

Approved Jul 05, 2016

GC5-2.2900

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1.0 CONSTRUCTION NOTES:

- 1.1 EWEB Standard GC5-2.2900 is the minimum requirements for a "Typical Commercial Padmount Transformer Vault Details".
- 1.2 Conduits shall enter and exit vaults in the positions indicated on the Construction Drawing, level and perpendicular to the vault and shall be grouted with a cement base mortar mixture to seal vault.
- 1.3 Conduits to extend into the vault as shown cut off square, edges chamfered and free from sharp edges and temporarily sealed to prevent rocks and other material from entering after mandreling. All conduits shall be bonded together with approved PVC cement.
- 1.4 Vaults shall be clean and free of rocks, dirt and debris prior to final inspection.
- 1.5 The customer shall notify EWEB at least two working days prior to backfilling, EWEB will inspect all customer-installed substructures.
- 1.6 Compaction shall be accomplished using mechanical vibrators or impact tampers. Wheel rolling by a truck or backhoe shall not be acceptable.
- 1.7 Heating of PVC elbows or conduit for field bending is NOT allowed. All sweeps shall be made using manufactured elbows.
- 1.8 Top of secondary box base shall be set 2" above the surrounding final grade. If depth of landscaping material is not known at time of secondary box installation, top of box base shall be 4" above surrounding dirt to allow for landscaping material.
- 1.9 Telephone and television enclosures shall be installed away from the edge of the padmount lid as shown, to avoid conflict with the cooling fins on the padmount transformer.
- 1.10 Excavation area around all vaults and boxes shall be backfilled to final grade as shown.

2.0 DESIGN NOTES:

- 2.1 Vaults shall have a separation between vaults as shown, to accommodate the largest lid for future transformer upgrades.
- 2.2 Maintain a distance from the building foundation footing to vault as shown. Any deviation requires prior approval by Distribution Engineer.

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3.0 REFERENCE STANDARDS:

- A Refer to EC5-3.1100 for Grounding detail for 4'8" x 4'8" commercial transformer installation.
- B Refer to GC5-2.3900 for Entering and exiting concrete vaults/boxes conduit detail.
- C Refer to ED5-1.0500 for Padmount transformer placement clearances from structures.
- D Refer to GC5-2.3600 for Mandreling and cleaning of conduits.
- E Refer to EC5-2.1400 for 4'8"x 4'8" Concrete vault and three phase padmount transformer lid.
- F Refer to GC5-2.4200 for 4'8" x 4'8" Concrete vault knockout entrance template detail, used with transformer lid.
- H Refer to EC5-2.1100 for 4'8" x 4'8" Concrete vault with concrete lids.
- I Refer to EC5-A.6000 for Single phase underground service conduit and conductor requirements.