



EC5-2.0901

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

**3' 6" X 3' 2" FIBERGLASS PADMOUNT TRANS. VAULT - CURB SIDEWALK**

Approved Jul 13, 2024  
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**REV.**  
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**ASSEMBLY EC5-2.0901**

**3' 6" X 3' 2" FIBERGLASS TRANSFORMER VAULT**

1.	348-0000532	1 EA	BXPULXFMR 3'6" X 3'2" FBGLS
2.	438-0001043	1 EA	ELL3"90< SCH4012RAD
3.	438-0001041	1 EA	ELL3"SCH4045< 12R

**CONSTRUCTION NOTES:**

1. All conduits shall enter the same end of the secondary box a maximum of 8" from the bottom inside edge of the secondary box.
2. Conduits shall not extend more than shown above the crushed rock base.
3. The exposed ends of all conduits shall be cut off square, chamfered, free of any sharp edges and temporarily sealed to prevent rocks or other materials from entering them after mandreling.
4. Field bending of PVC conduits is not allowed. All sweeps shall be made with manufactured elbows.
5. For customer service conduit entering a secondary box, a 90 degree elbow with a 24" radius for conduits smaller than 5" and 48" radius for 5" conduit is required.
6. Base for vault and secondary box shall allow drainage.
7. Provide compacted backfill as shown in excavated area around all vaults and boxes.
8. Top of secondary box base and vault 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 and vault shall be 4" above surrounding dirt to allow for landscaping material.
9. The secondary box shall be installed with the lid hold down bolt away from the transformer box. When installing a larger 30" x 41" secondary box, see standard EC5-2.0400, assembly EC5-2.0411 notes 1 through 4.

**DESIGN NOTES:**

1. This assembly to be used for 2 bushing single phase padmount transformer installations, 25 KVA thru 100 KVA.
2. A secondary box is required when installing a single phase transformer, with the exception of any of the following:
  - a. All service lateral conductors terminate at a single point of delivery with only one customer on private property,
  - b. The padmount transformer will be replacing a ranch runner transformer.
3. Secondary J-box and lid is not included in assembly EC5-2.0901.
4. 167 KVA single phase padmount transformers and 3 bushing, single phase padmount transformers will not fit on this box.

**REFERENCE STANDARDS:**

- A) Refer to EC5-3.0500 for Grounding detail.
- B) Refer to EC5-6.0500 for Padmount transformer assemblies.
- C) Refer to EC5-2.0600 for Single phase 167 KVA and single phase, 3 bushing Transformer Installations.
- D) Refer to GC5-2.9500 for Alternate box installations.
- E) Refer to EC5-2.0400 for Above grade secondary box and lid.
- F) Refer to EC5-6.3400 for 350 & 500 KCM urd underground secondary moles.
- G) Refer to EC5-2.0100 for Required minimum feeder, primary and secondary service conductor makeup lengths for vaults and secondary boxes.
- H) Refer to ED5-1.0100 for Electrical Equipment placement clearances at a street corner, maximum size & setback requirements.
- I) Refer to ED5-1.0500 for Padmounted transformer placement clearances from structure.
- J) Refer to ED5-1.0400 for Working Clearances around padmounted equipment.
- K) Refer to EC5-A.0500 for Customer requirements for vegetation management for underground systems.
- L) Refer to ED5-1.0800 for Bollard post placement for padmounted equipment.
- M) Refer to EC5-9.2600 for 31/2" OD x 7"-0" Screw type Bollard post 8" helix, 6.625" OD x 6'-0" Galvanized steel bollard post, Sleeve for removable galvanized steel bollard post.
- N) Refer to EC5-B.1000 for Underground service conduit and conductor requirements.
- O) Refer to EC5-B.3000 for Temporary service requirements.
- P) Refer to standard EC5-2.9500 for Proglass fiberglass vault catalog number.