



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

**CONDUIT DETAIL ENTERING AND EXITING CONCRETE VAULTS**

Approved June 04, 2015

**GC5-2.3900**

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## 1.0 CONSTRUCTION NOTES:

- 1.1 Conduits shall enter and exit concrete vaults in the positions indicated on Construction Drawing, level and perpendicular to the vault and shall be grouted to provide a watertight seal with a smooth finish. Grout to be Redline "Speedcrete" or equivalent.
- 1.2 Conduits or elbows entering and/or exiting concrete vaults shall be schedule 40 PVC and extend into the vault  $1\frac{1}{2}'' \pm \frac{1}{2}''$  cut off square, chamfered, free of any sharp edges and temporarily sealed to prevent rock and other materials from entering after mandreling. A 2" minimum separation between conduits shall be maintained.
- 1.3 When installing 2" or 3" HDPE Directional Bore or 5" DB-120 conduit that will enter or exit a concrete vault, install the correct sized PVC coupler and a minimum 12" or 5 ft section of schedule 40 PVC as shown on page 1 and enter or exit vault. The schedule 40 PVC conduit allows for use of a duct roller.
- 1.4 All conduits shall be cleaned and tested and determined to be free from obstruction with the use of an appropriately sized mandrel after backfilling has occurred. In the event that a mandrel cannot be successfully pulled through the completed conduit system, it will be the customer's responsibility to locate and repair the conduit.
- 1.5 Each conduit run between substructures shall be one size of conduit continuously, with conduit free from sharp edges. All conduits will be bonded together with approved PVC cement.
- 1.6 Field bending of PVC conduits is not allowed. All sweeps shall be made with manufactured schedule 40 elbows.
- 1.7 A suitable pulling string, capable of a 285 lb pull, shall be installed in the conduit system. The installation must be made prior to notifying EWEB that the substructure installation is complete. The string shall be blown in after the conduit has been installed to avoid bonding the string to the conduit as the PVC cement dries.

## 2.0 REFERENCE STANDARDS:

- A** Refer to GC5-2.3600 for Mandreling and cleaning of conduits.

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Page 2 of 2