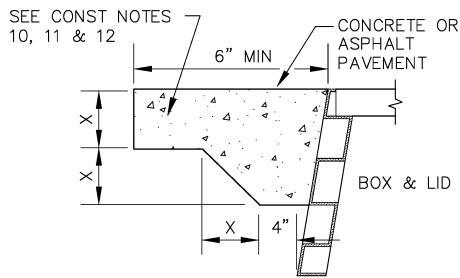


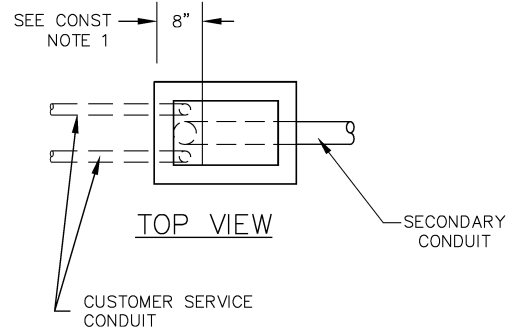
MAXIMUM CONDUCTOR SIZE	NUMBER AND SIZE OF SECONDARY MOLES	NUMBER OF TOTAL PERMANENT CONDUCTORS	ASSEMBLY
SINGLE PHASE - 4/0	3-6 POSITIONS	12	EC5-2.0201
SINGLE PHASE - 350 KCM	3-8 POSITIONS	18	EC5-2.0206
THREE PHASE - 350 KCM	4-4 POSITIONS	8	EC5-2.0206

(SEE DESIGN NOTES 4 & 5)

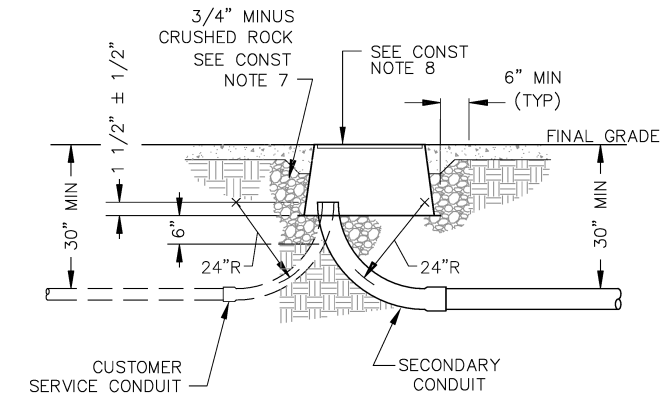
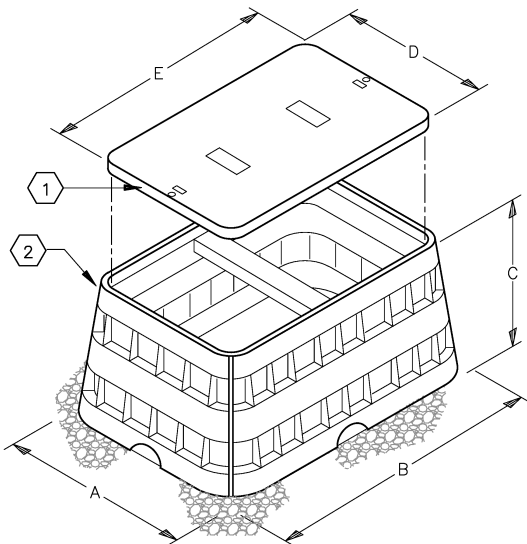
MEASUREMENTS					ASSEMBLY
A	B	C	D	E	
21.5"	27.5"	18"	14.5"	21.5"	EC5-2.0201
27.5"	39.5"	18"	21"	33"	EC5-2.0206



ENCASEMENT DETAIL



TOP VIEW



SIDE VIEW

EC5-2.0201 - EC5-2.0206

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

TRAFFIC BEARING POLYMER SECONDARY BOX AND LID

Approved Oct 31, 2016

EC5-2.0200

Page 1 of 3

REV.
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ASSEMBLY EC5-2.0201

21" X 27" SECONDARY J-BOX WITH POLYMER CONCRETE, TRAFFIC BEARING LID, 20K

- 1. 348-0000486 1 EA LIDSEC14.5"X21.5"POLY 20K
- 2. 348-0000526 1 EA BOX PULL 21" X 27" GRAY

ASSEMBLY EC5-2.0202

14.5" X 21.5" POLYMER CONCRETE, TRAFFIC BEARING LID, 20K

- 1. 348-0000486 1 EA LIDSEC14.5"X21.5"POLY 20K

ASSEMBLY EC5-2.0203

21" X 27" POLYMER SECONDARY J-BOX, TRAFFIC BEARING

- 2. 348-0000526 1 EA BOX PULL 21" X 27" GRAY

ASSEMBLY NOTES:

- 1. See design note 3.

ASSEMBLY EC5-2.0206

27" X 39" SECONDARY J-BOX WITH POLYMER CONCRETE, TRAFFIC BEARING LID, 20K

- 1. 348-0000487 1 EA LIDSEC21"X33"POLY 20K
- 2. 348-0000527 1 EA BOX PULL 27" X 39" GRAY

ASSEMBLY EC5-2.0207

21" X 33" POLYMER CONCRETE, TRAFFIC BEARING LID, 20K

- 1. 348-0000487 1 EA LIDSEC21"X33"POLY 20K

ASSEMBLY EC5-2.0208

27" X 39" POLYMER SECONDARY J-BOX, TRAFFIC BEARING

- 2. 348-0000527 1 EA BOX PULL 27" X 39" GRAY

ASSEMBLY NOTES:

- 1. See design note 3.

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. 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.
- 4. 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.
- 5. Field bending of PVC conduits is not allowed. All sweeps shall be made with manufactured elbows.
- 6. Base for box shall allow drainage.
- 7. Provide compacted backfill as shown in excavated area around all vaults and boxes.
- 8. Secondary box lid to be set flush with the surrounding final grade.
- 9. Secondary service tails shall extend into the secondary box a distance equal to the length of the box (Measurement "B").
- 10. Concrete encasement to be 3,000 PSI minimum.
- 11. Concrete or asphalt encasement ring dimension "X" to be equal to design pavement depth.
- 12. Provide concrete or asphalt collar around entire box as shown.

DESIGN NOTES:

1. Assemblies EC5-2.0201 and EC5-2.0206 are limited to residential driveways, parking lot spaces and off roadway applications where box is subject to occasional light to heavy vehicle exposure. Box SHALL NOT be placed in a full traffic or planned vehicle traffic area.
2. Assemblies EC5-2.0201 and EC5-2.0206 are limited to SINGLE PHASE SERVICE INSTALLATIONS, with the exception of three phase service serving only one customer with NO upgrade of facilities in the future. For service installations exceeding the conductor/mole limitations of these boxes refer to EC5-2.1100 for larger service boxes/vaults.
3. Both Polymer secondary boxes are ONLY rated for 20K when installed with their appropriately sized 20K Polymer lids.
4. The number of secondary mole positions and conductors (see chart on page 1 of 3) has been revised to provide a minimum of (2) open secondary mole positions for future temporary service. (1) open position is allowed to be used for street lighting.
5. When the number of permanent conductors, (excluding street lighting) exceed the allowed secondary mole or box capacity, a larger secondary box and/or change of the size and number of conductors SHALL be required.

REFERENCE STANDARDS:

- A) Refer to EC5-2.0100 for Required minimum feeder, primary and secondary service conductor makeup lengths for vaults and secondary boxes.
- B) Refer to ED5-1.0100 for Electrical equipment placement clearances at a street corner, maximum size and setback requirements.
- C) Refer to EC5-A.0500 for Customer requirements for vegetation management for underground systems.
- D) Refer to ED5-1.6000 for Low voltage design tool.
- E) Refer to EC5-B.1000 for Underground service conduit and conductor requirements.
- F) Refer to standard EC5-2.9500 for Secondary boxes & lids catalog numbers.