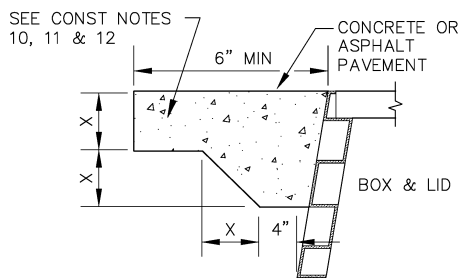


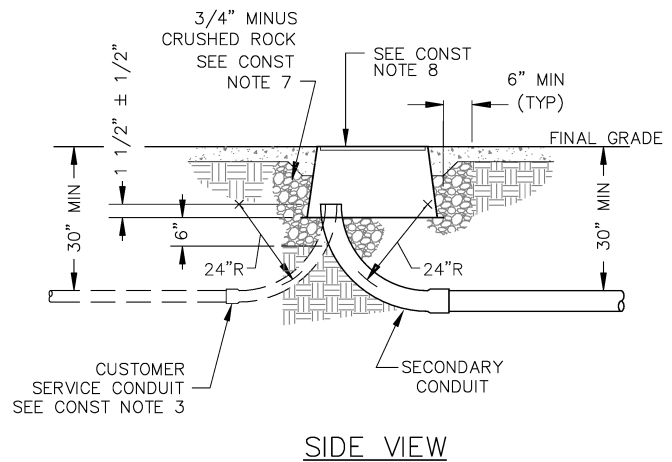
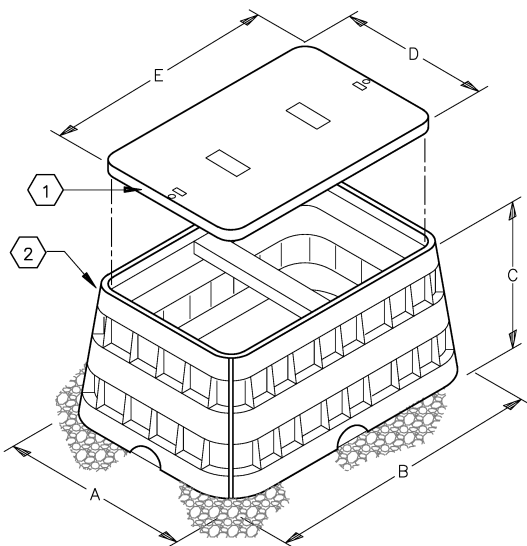
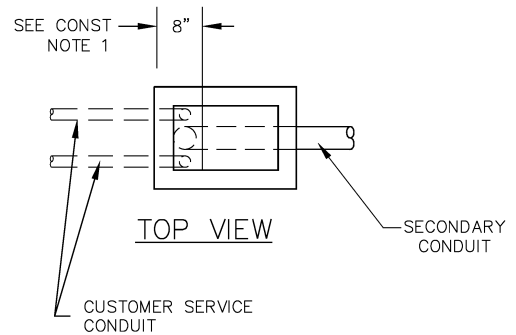
ASSEMBLY	MAXIMUM NUMBER AND SIZE OF CONDUITS	THREE PHASE CIRCUITS ALLOWED
EC5-2.0201	4-2" OR 3"	NO
	2-3", 4" OR 5"	YES
EC5-2.0206	5 CONDUITS, 3 OF WHICH CAN BE 4" OR 5"	YES

(SEE DESIGN NOTES 3, 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



EC5-2.0201 - EC5-2.0206

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

TRAFFIC BEARING POLYMER SECONDARY BOX AND LID

Approved May 09, 2023

EC5-2.0200

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REV.
7

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 NOTES:

1. Assembly EC5-2.0201 is primarily used for residential applications.
2. Maximum allowed conductor size for residential applications shall not exceed 500 KCM.
3. The use of (4) position moles is allowed in "rural areas" only.

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 NOTES:

1. Assembly EC5-2.0206 is to be used primarily for single phase and smaller three phase applications.
2. Maximum allowed conductor size shall not exceed 500 KCM.
3. Secondary box shall be installed with the 39" side parallel to transformer vault to allow access to lid bolts which are located at each of the 27" sides of the lid.

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. If there is no pavement, X=4".
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. Assembly EC5-2.0201 is limited to Single phase 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 conduit limitations of these boxes refer to EC5-2.0206 or EC5-2.1100 for larger service boxes/vaults.
3. See EC5-8.0800 for conduit size requirements.
4. Install secondary moles with (2) open secondary mole positions, (1) for future temporary service and (1) for street lighting. See EC5-2.1100 for secondary mole sizes.
5. When the number of permanent conduits, (excluding street lighting) exceed the allowed secondary conduit box capacity, a larger secondary box and/or change of the size and number of conduit SHALL be required.
6. Both Polymer secondary boxes are ONLY rated for 20K lbs. when installed with their appropriately sized 20K lbs. Polymer lids.

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.

G) Refer to standard EC5-8.0800 for Secondary conductor and conduit size requirements.