



EC5-1.1701 – EC5-1.1717

DISTRIBUTION CONSTRUCTION STANDARD	
EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON	
SCHEDULE 80 PVC PRIMARY POLE DIP SUBSTRUCTURE 2", 3" & 5"	Approved Jul 03, 2024 EC5-1.1700 Page 1 of 5
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ASSEMBLY EC5-1.1701

2" SCHEDULE 80 PVC PRIMARY POLE DIP SUBSTRUCTURE WITH 12" BRACKETS - FOR MAINTENANCE ONLY

1.	428-0000814	2 EA	CLPCNDSTRAP2"
2.	416-0000773	2 EA	BRKTCND12"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000990	10 FT	CND 2" X 10' SCH80 BE
5.	438-0001037	1 EA	ELL2"SCH8090 DEG 48 RAD

ASSEMBLY NOTES:

1. See design note 6.

ASSEMBLY EC5-1.1702

3" SCHEDULE 80 PVC PRIMARY POLE DIP SUBSTRUCTURE WITH 12" BRACKETS

1.	428-0000815	2 EA	CLPCNDSTRAP3"
2.	416-0000773	2 EA	BRKTCND12"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000993	10 FT	CND3"x10'SCH.80BELLEND
5.	438-0001049	1 EA	ELL3"SCH8090 DEG 48 RAD

ASSEMBLY NOTES:

1. See design note 6.

ASSEMBLY EC5-1.1703

5" SCHEDULE 80 PVC PRIMARY POLE DIP SUBSTRUCTURE WITH 12" BRACKETS

1.	428-0000817	2 EA	CLPCND STRAP 5"
2.	416-0000773	2 EA	BRKTCND12"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0001080	10 FT	CND5"SCH.8010'GRAY
5.	438-0001066	1 EA	ELL5"SCH.8048"RAD.

ASSEMBLY EC5-1.1704

2" SCHEDULE 80 PVC CUSTOMER SUBSTRUCTURE WITH 12" BRACKETS - FOR MAINTENANCE ONLY

1.	428-0000814	2 EA	CLPCNDSTRAP2"
2.	416-0000773	2 EA	BRKTCND12"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000990	10 FT	CND 2" X 10' SCH80 BE

ASSEMBLY NOTES:

1. See design notes 6 & 7.

2. Refer to assembly EC5-1.1721 for 2" conduit straps for use on existing pole dip brackets.

ASSEMBLY EC5-1.1705

2" SCHEDULE 80 PVC CUSTOMER SUBSTRUCTURE WITH 18" BRACKETS - FOR MAINTENANCE ONLY

1.	428-0000814	2 EA	CLPCNDSTRAP2"
2.	416-0000774	2 EA	BRKTCND18"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000990	10 FT	CND 2" X 10' SCH80 BE

ASSEMBLY NOTES:

1. See design note 6 & 7.

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ASSEMBLY EC5-1.1706

3" SCHEDULE 80 PVC CUSTOMER SUBSTRUCTURE WITH 12" BRACKETS

1.	428-0000815	2 EA	CLPCNDSTRAP3"
2.	416-0000773	2 EA	BRKTCND12"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000993	10 FT	CND3"x10'SCH.80BELLEND

ASSEMBLY NOTES:

1. See design note 6 & 7.
2. Refer to assembly EC5-1.1722 for 3" conduit straps for use on existing pole dip brackets.

ASSEMBLY EC5-1.1707

3" SCHEDULE 80 PVC CUSTOMER SUBSTRUCTURE WITH 18" BRACKETS

1.	428-0000815	2 EA	CLPCNDSTRAP3"
2.	416-0000774	2 EA	BRKTCND18"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000993	10 FT	CND3"x10'SCH.80BELLEND

ASSEMBLY NOTES:

1. See design note 6 & 7.

ASSEMBLY EC5-1.1708

5" SCHEDULE 80 PVC CUSTOMER SUBSTRUCTURE WITH 12" BRACKETS

1.	428-0000817	2 EA	CLPCND STRAP 5"
2.	416-0000773	2 EA	BRKTCND12"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0001080	10 FT	CND5"SCH.8010'GRAY

ASSEMBLY NOTES:

1. Refer to assembly EC5-1.1723 for 5" conduit straps for use on existing pole dip brackets.
2. See design note 7.

ASSEMBLY EC5-1.1709

5" SCHEDULE 80 PVC CUSTOMER SUBSTRUCTURE WITH 18" BRACKETS

1.	428-0000817	2 EA	CLPCND STRAP 5"
2.	416-0000774	2 EA	BRKTCND18"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0001080	10 FT	CND5"SCH.8010'GRAY

ASSEMBLY NOTES:

1. See design note 7.

ASSEMBLY EC5-1.1710

2" SCHEDULE 80 PVC PRIMARY POLE DIP SUBSTRUCTURE WITH 18" BRACKETS - FOR MAINTENANCE ONLY

1.	428-0000814	2 EA	CLPCNDSTRAP2"
2.	416-0000774	2 EA	BRKTCND18"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000990	10 FT	CND 2" X 10' SCH80 BE
5.	438-0001037	1 EA	ELL2"SCH8090 DEG 48 RAD

ASSEMBLY NOTES:

1. See design note 6.

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ASSEMBLY EC5-1.1711

3" SCHEDULE 80 PVC PRIMARY POLE DIP SUBSTRUCTURE WITH 18" BRACKETS

1.	428-0000815	2 EA	CLPCNDSTRAP3"
2.	416-0000774	2 EA	BRKTCNDT18"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0000993	10 FT	CND3"x10'SCH.80BELLEND
5.	438-0001049	1 EA	ELL3"SCH8090 DEG 48 RAD

ASSEMBLY NOTES:

1. See design note 6.

ASSEMBLY EC5-1.1712

5" SCHEDULE 80 PVC PRIMARY POLE DIP SUBSTRUCTURE WITH 18" BRACKETS

1.	428-0000817	2 EA	CLPCND STRAP 5"
2.	416-0000774	2 EA	BRKTCNDT18"STANDOFF
3.	388-0000677	4 EA	SCRLAG 1/2 X 4
4.	438-0001080	10 FT	CND5"SCH.8010'GRAY
5.	438-0001066	1 EA	ELL5"SCH.8048"RAD.

ASSEMBLY EC5-1.1715

2" SCHEDULE 80 PVC SUBSTRUCTURE ON EXISTING BRACKETS - FOR MAINTENANCE ONLY

1.	428-0000814	2 EA	CLPCNDSTRAP2"
4.	438-0000990	10 FT	CND 2" X 10' SCH80 BE
5.	438-0001037	1 EA	ELL2"SCH8090 DEG 48 RAD

ASSEMBLY NOTES:

1. See design note 6.

2. Refer to assembly EC5-1.1721 for 2" conduit straps for use on existing pole dip brackets.

ASSEMBLY EC5-1.1716

3" SCHEDULE 80 PVC SUBSTRUCTURE ON EXISTING BRACKETS

1.	428-0000815	2 EA	CLPCNDSTRAP3"
4.	438-0000993	10 FT	CND3"x10'SCH.80BELLEND
5.	438-0001049	1 EA	ELL3"SCH8090 DEG 48 RAD

ASSEMBLY NOTES:

1. See design note 6.

2. Refer to assembly EC5-1.1722 for 3" conduit straps for use on existing pole dip brackets.

ASSEMBLY EC5-1.1717

5" SCHEDULE 80 PVC SUBSTRUCTURE ON EXISTING BRACKETS

1.	428-0000817	2 EA	CLPCND STRAP 5"
4.	438-0001080	10 FT	CND5"SCH.8010'GRAY
5.	438-0001066	1 EA	ELL5"SCH.8048"RAD.

ASSEMBLY NOTES:

1. Refer to assembly EC5-1.1723 for 5" conduit straps for use on existing pole dip brackets.

ASSEMBLY EC5-1.1721

2" CONDUIT STRAP - FOR USE ON EXISTING POLE DIP BRACKETS - FOR MAINTENANCE ONLY

1.	428-0000814	2 EA	CLPCNDSTRAP2"
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ASSEMBLY NOTES:

1. See design note 6.

ASSEMBLY EC5-1.1722

3" CONDUIT STRAP - FOR USE ON EXISTING POLE DIP BRACKETS

- 1. 428-0000815 2 EA CLPCNDSTRAP3"

ASSEMBLY NOTES:

- 1. See design note 6.

ASSEMBLY EC5-1.1723

5" CONDUIT STRAP - FOR USE ON EXISTING POLE DIP BRACKETS

- 1. 428-0000817 2 EA CLPCND STRAP 5"

CONSTRUCTION NOTES:

- 1. The final height of the top of the 10' section of conduit will vary depending on the depth of the duct run.
- 2. Conduit shall be cut off and capped 18" +/- 6" above first bracket when substructure is installed by customer. EWEB Electric Operations crew will install (1) 10 ft. stick of sch 80 pvc and all remaining brackets when installing top portion of pole dip.
- 3. Fiberglass conduit elbows are acceptable to use instead of PVC conduit elbows.

DESIGN NOTES:

- 1. Above ground equipment SHALL NOT be installed closer than 5 ft. to pole to maintain a clear area around the base of pole for climbing safety.
- 2. For new construction, an above ground sectionalizing enclosure or pulling vault is required within approximately 50 ft. up to a maximum of 100 ft. of any primary single phase, three phase or feeder pole dip installation to remedy safety concerns and reduce pulling tensions when pulling in conductors. Any deviation requires electric operations approval.
- 3. Location of pole dip to be identified and located to allow for climbing space clearances. Refer to primary pole dip standards for required location of pole dip and termination bracket on all new construction.
- 4. Using the 12" pole dip brackets is the preferred assembly.
- 5. 18" brackets shall be used for joint use applications when the total number of conduits exceeds (3) on the EWEB pole dip bracket.
- 6. For new construction, a minimum 3" conduit is required for 7.2kV primary pole dips.
- 7. Only release (1) bracket, (1) conduit strap, and (2) lag screws to customer. Remaining materials will be used by EWEB Electric Operations crew when they build the top portion of the pole dip.

REFERENCE STANDARDS:

- A) Refer to EC5-5.7500 for above ground single phase (SE-1) sectionalizing enclosure.
- B) Refer to EC5-2.0100 through EC5-2.3500 for vault/box and lid assemblies.
- C) Refer to EC4-0.3800 for climbing space reference.
- D) Refer to EC5-6.3400 for 350 & 500 KCM urd secondary moles.
- E) Refer to EC5-6.3500 for 750 KCM urd secondary moles.
- F) Refer to EC5-1.0500 through EC5-1.3800 for primary pole dips.
- G) Refer to EC5-2.0100 for required minimum feeder, primary and secondary/service conductor makeup length 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 ED5-1.7000 for Underground Cable pulling program, Pull planning user guide.
- J) Refer to EC5-9.0500 for conductor support brackets, secondary mole support brackets.
- K) Refer to EC5-9.0200 for conduit elbow radius requirements.