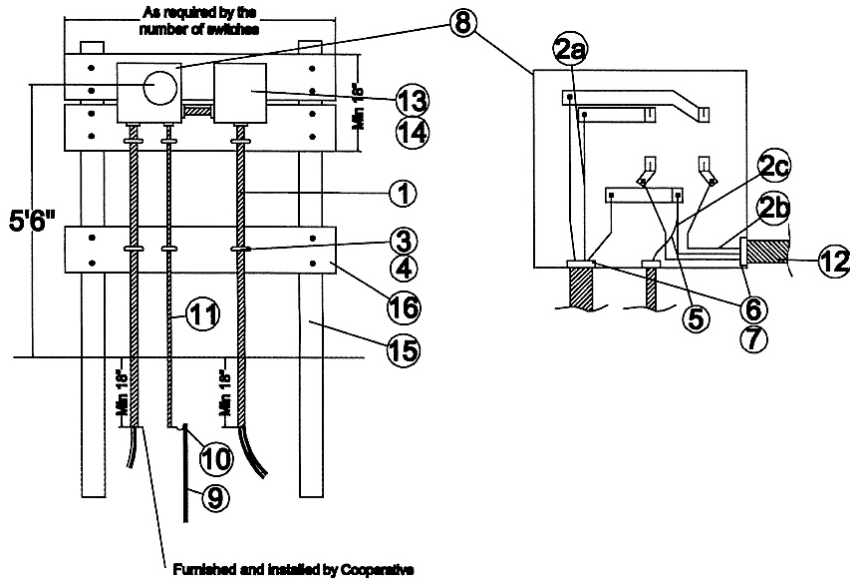


UNDERGROUND METER LOOP

INSTALLATION SPECIFICATION | UNDERGROUND-TO-UNDERGROUND (UG-UG)

SERVICE SIZING
100 A | 200 A | 400 A

01 INSTALLATION DIAGRAM



CALLOUT NUMBERS CORRESPOND TO THE MATERIALS TABLE

02 MATERIALS & CONDUCTOR SIZING

REF #	DESCRIPTION	QTY	100 A	200 A	400 A
1	Conduit: Rigid Galvanized, Aluminum, or Schedule 40 Electrical Grade	6'	2"	2"	2-1/2"
2a	Conductor, Line Side	1	Furnished by Coop		
2b	Conductor, Load Side	As Required	#2 Copper #1 Aluminum	3/0 Copper 4/0 Aluminum	500 MCM
2c	Conductor, Neutral	As Required	#4 Copper #3 Aluminum	1/0 Copper 2/0 Aluminum	3/0 Copper 4/0 Aluminum
3	Conduit Strap	4	2"	2"	2-1/2"
4	Lag Screw	8	As Required		
5	Ground Conductor	As Required	#6	#6	#6
6	Bushing, Bonding Type	2	2"	2"	2-1/2"
7	Galvanized Locknut	2	2"	2"	2-1/2"
8	Meterbase	1	Furnished by Coop		
9	Ground Rod	1	5/8" x 8' Copper		
10	Ground Rod Clamp	1	5/8"		
11	Ground Wire Conduit	6'	1/2" Schedule 40		
12	Conduit Nipple	1	2"	2"	2-1/2"
13	Weatherproof Disconnect	1	100A	200A	400A
14	Main Breaker	1	100A	200A	400A
15	Posts	2	8' treated 4" x 4" min.		
16	Cross Boards	3	Treated 2" x 6" min., as required length		

INSTALLATION NOTES

- 01 Posts need to be 8' long, treated 4" x 4" minimum.
- 02 Cross boards should be large enough so the equipment does not overlap off them.
- 03 The customer must install a ground rod at the meter to ground all equipment. When installing the ground rod and ground wire, leave adequate room so the Cooperative can install wires and conduit. If the pedestal is within 5' of a pad-mount transformer, the customer may run the ground wire with the line.
- 04 When a separate ground rod is installed, the customer shall put the ground wire in a 1/2" Schedule 40 conduit for protection.

REVIEW BEFORE CONSTRUCTION

- 05 When using direct-buried cable, an insulated bushing is required at the end of each conduit.
- 06 For mobile home applications, the 4th wire must be connected to the appliance ground lug in the mobile home switchbox and the neutral lug in the outside disconnect. #8 for 100A; #6 for 200A - green or marked.
- 07 Conduit can be aluminum, rigid galvanized, or Schedule 40 electrical-grade conduit; no white water pipe.
- 08 All wiring, boxes, grounds, clearances, etc. must meet the latest National Electrical Code.
- 09 Any alterations must be approved by the Cooperative.

OTHER / PROJECT NOTES