

# SOUTH CENTRAL POWER COMPANY

## Minimum Requirements: RESIDENTIAL METER LOCATION – METER PEDESTAL INSTALLATION - Underground Single phase, 120/240 Volts, 3 wire service, 100 Amp. Minimum

### GENERAL:

The consumer will supply and install a meter base sized appropriately for the electric service. The Company will supply and install underground service wire into meter pedestal and service attachments at SCP facilities. All material supplied by SCP remains property of the Company.

All service equipment to be supplied and installed by Consumer, including (3") conduit from meter base to SCP facilities. Conduit shall be rigid galvanized steel or rigid non-metallic (Schedule 40 PVC). It shall be of proper size as indicated on reverse side and securely fastened to side of timber by suitable clamps. Consumer shall install an adequate structure to support the meter pedestal installation. Structure must be (2) pressure treated timbers with a minimum size of 2 - 4" x 6" x 8' (2-2" x 6" boards joined together are not acceptable). Back support shall be of pressure treated 3 - 2" x 8" x 4' or equivalent. Structure shall be set in the ground a minimum of three feet and the backfill shall be thoroughly tamped.

Meter pedestal installations must be provided with a UL approved main weatherproof disconnect switch box of proper size and must be within two feet after the Consumer's wire leaves the meter base.

### GROUNDING:

Ground wire must be one continuous length without splice or joint from main switch to final grounding electrode. Driven ground rod shall be 5/8" X 8' copper clad or 5/8" X 8' solid galvanized steel, in undisturbed soil. Ground rod clamp shall connect ground wire securely to the ground rod.

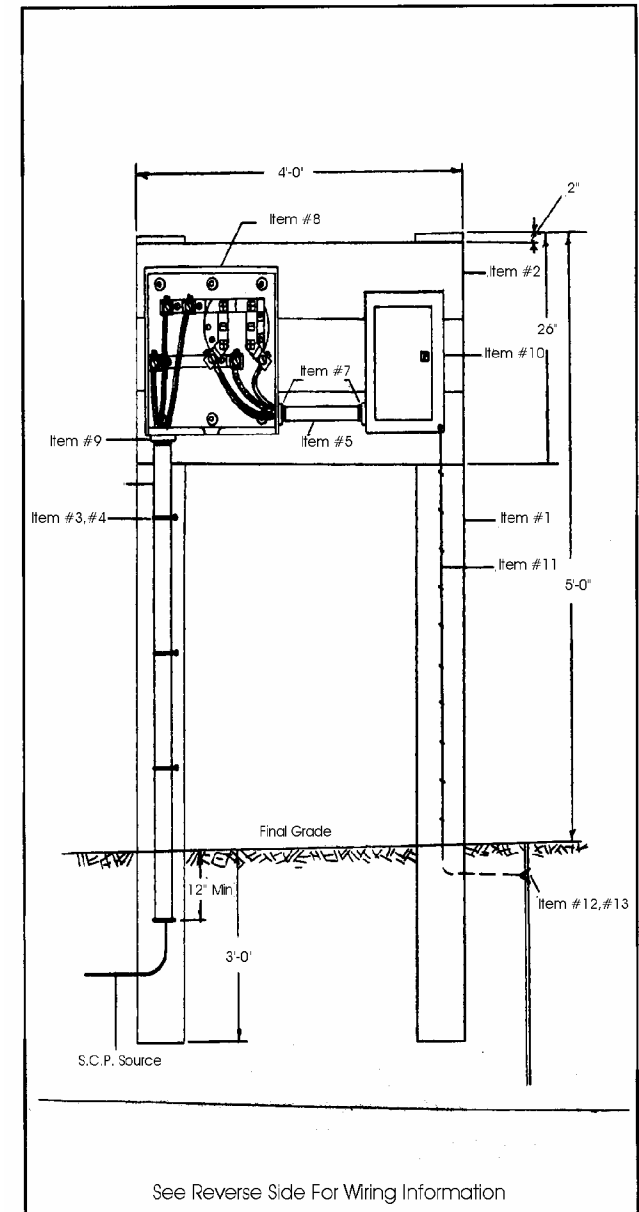
### NOTES:

1. All installation's to be made according to this sketch.
2. All materials to be approved by the Underwriters Laboratories or equivalent.
3. All wiring to be in accordance with the National Electrical Code.
4. Always have a qualified electrician take care of your wiring needs.
5. Consumers not following these minimum specifications will be refused service connection.
6. Service connections and/or meter removal shall be done only by authorized company personnel.
7. Ground fault circuit protection shall be used where required by local inspection authority, in accordance with (Article 305-6, 1999 NEC).
8. Reduced neutral may be allowed.

### TRENCHING: and CONDUIT

The trench specifications of min 4" width and 36" depth are specified as minimum's and must be maintained at all times. The trench widths specified are minimum and shall be increased as necessary to obtain the required depth in loose soil. Trenches are to be dug from within 2' or 3' of Company equipment and shall follow a straight line between staked points as close as possible. The trench shall be dug so that the bottom has a level grade and shall be relatively smooth with undisturbed earth, tamped earth, or sand. Consumer shall provide and install conduit (Schedule 40 PVC) minimum 3" and min 3" 3-foot sweeps. **TRENCH SHALL NOT BE BACKFILLED WITH EXCESS CONSTRUCTION MATERIALS SUCH AS CONCRETE BLOCK, LUMBER, DRYWALL, ETC.**

Construction shall be coordinated with the Field Service Coordinator so that trenches will be left open for the shortest practicable time to avoid creating a hazard to the public and to minimize the likelihood of trench collapse due to other construction activity, rain, accumulation of water in the trench, etc. All trenches parallel to the building foundation shall be no closer than five (5) feet. The trench shall be backfilled as described as soon as possible after SCP approval. The top twelve inches of such backfill shall be well tamped while backfilling and shall be banked over the top of the ditch to provide for settling of the backfill. Conduit shall be installed for all SCP facilities. Conduit may be either galvanized steel or Schedule 40 PVC. The minimum size allowed shall be 3" and installed with a pull rope rated at a minimum of 350 lb. **ONLY COMPANY** service cable permitted in conduit. Customer cable, water mains, gas mains and sewage pipes shall not be installed in a trench containing cables owned, installed, and maintained by the Company.



\*\*\* BEFORE ANY DIGGING FOR SAFETY'S SAKE CALL OUPS (1-800-362-2764) 811\*\*\*

## WIRING DIAGRAM MATERIAL SPECIFICATIONS:

### 100 Amp Underground Meter Pedestal Installation

ITEM	MATERIAL	100 AMP SERVICE
1	2 - 4" x 6" x 8' Timber ( Pressure Treated )	
2	3 - 2" x 8" x 4' ( Pressure Treated ) or equivalent	
3	Service entrance cable, Type SE - ( Copper )	# 4
	Service entrance cable, Type SE - ( Aluminum )	# 2
	COPPER WIRE, Type THHW/THHN - installed in conduit	# 4
	ALUMINUM WIRE, Type THHW/THHN - installed in conduit	# 2
4	Conduit - PVC or Galvanized - Minimum size for Company service cable	3"
5	Conduit - PVC or Galvanized - Minimum size for Consumer service entrance cable/conductors - if required	2"
6	Cable or conduit clamp - spaced 18" maximum	
7	Watertight connector - ( for cable or conduit )	
8	Meter base -- must be supplied by the consumer and approved by the Company	
9	Non-watertight connector - ( for cable or conduit )	
10	Waterproof, disconnect switch box - as required	100 AMP
11	Continuous ground wire from main disconnect switch box to ground rod	# 6 Bare Copper
12	Ground Rod : 5/8" x 8' copperclad or 5/8" x 8' galvanized steel	
13	Ground Rod Clamp	

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FOR ANY QUESTIONS PLEASE CONTACT ENGINEERING GROUP (740)-422-6166

### 150 Amp Underground Meter Pedestal Installation

ITEM	MATERIAL	150 AMP SERVICE
1	2 - 4" x 6" x 8' Timber ( Pressure Treated )	
2	3 - 2" x 8" x 4' ( Pressure Treated ) or equivalent	
3	Service entrance cable, Type SE - ( Copper )	#1
	Service entrance cable, Type SE - ( Aluminum )	#2/0
	COPPER WIRE, Type THHW/THHN - installed in conduit	#1
	ALUMINUM WIRE, Type THHW/THHN - installed in conduit	#2/0
4	Conduit - PVC or Galvanized - Minimum size for Company service cable	3"
5	Conduit - PVC or Galvanized - Minimum size for Consumer service entrance cable/conductors - if required	2"
6	Cable or conduit clamp - spaced 18" maximum	
7	Watertight connector - ( for cable or conduit )	
8	Meter base -- must be supplied by the consumer and approved by the Company	
9	Non-watertight connector - ( for cable or conduit )	
10	Waterproof, disconnect switch box - as required	150 AMP
11	Continuous ground wire from main disconnect switch box to ground rod	# 6 Bare Copper
12	Ground Rod : 5/8" x 8' copperclad or 5/8" x 8' galvanized steel	
13	Ground Rod Clamp	

### 200 Amp Underground Meter Pedestal Installation

ITEM	MATERIAL	200 AMP SERVICE
1	2 - 4" x 6" x 8' Timber ( Pressure Treated )	
2	3 - 2" x 8" x 4' ( Pressure Treated ) or equivalent	
3	Service entrance cable, Type SE - ( Copper )	# 2/0
	Service entrance cable, Type SE - ( Aluminum )	# 4/0
	COPPER WIRE, Type THHW/THHN - installed in conduit	# 2/0
	ALUMINUM WIRE, Type THHW/THHN - installed in conduit	# 4/0
4	Conduit - PVC or Galvanized - Minimum size for Company service cable	3"
5	Conduit - PVC or Galvanized - Minimum size for Consumer service entrance cable/conductors - if required	2"
6	Cable or conduit clamp - spaced 18" maximum	
7	Watertight connector - ( for cable or conduit )	
8	Meter base -- must be supplied by the consumer and approved by the Company	
9	Non-watertight connector - ( for cable or conduit )	
10	Waterproof, disconnect switch box - as required	200 AMP
11	Continuous ground wire from main disconnect switch box to ground rod	# 6 Bare Copper
12	Ground Rod : 5/8" x 8' copperclad or 5/8" x 8' galvanized steel	
13	Ground rod clamp	

