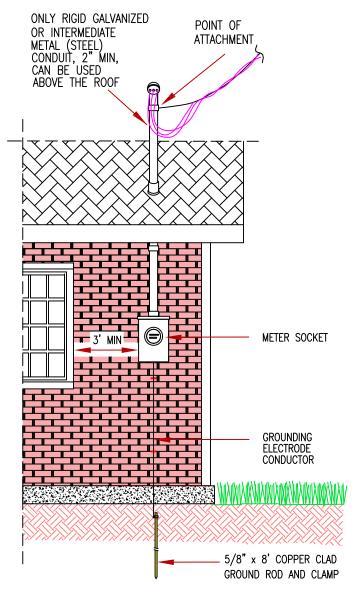
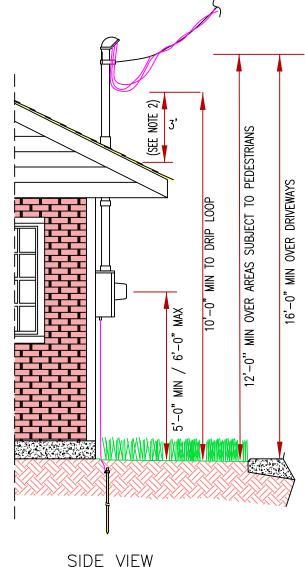
COMMERCIAL

SERVICE ENTRANCE DRAWINGS



BUILDING





Notes:

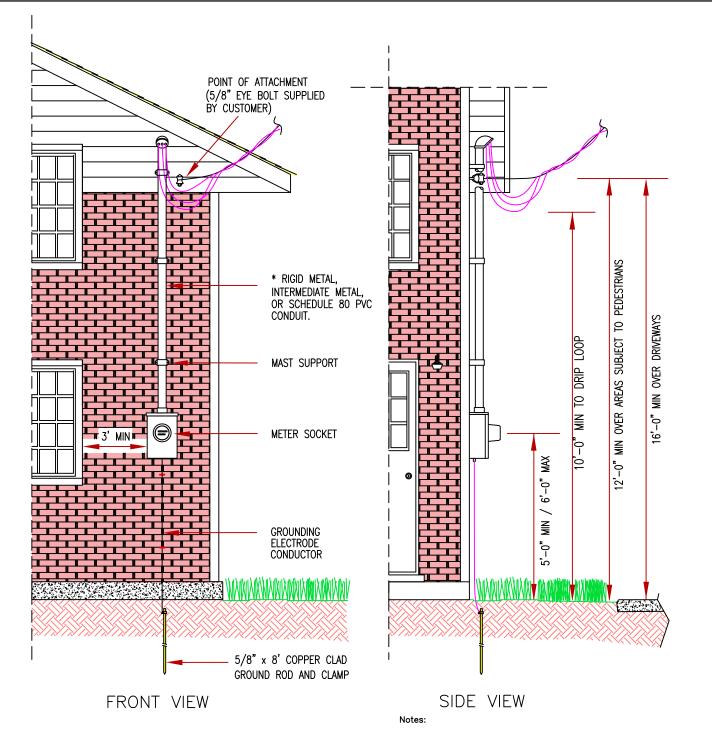
- A single ground electrode shall be supplemented by an additional electrode except when the single electrode has a resistance to earth of 25 ohms or less.
- Clearance may be reduced to 18 inches if not more than 6 feet of conductors pass over the roof and the service mast is located within 4 feet of the edge of the roof, measured horizontally.
- 3. Drawing and recommendations are intended to serve as guidance for compliance with code and utility requirements. The NEC and/or Local Code Authorities may have additional requirements to those shown. The more stringent requirement will take precedence for differences between authorities.

* Conductor Sizes for General Purpose Service Equipment							
Service Rating (Amperes)	Typical Conduit Size (Inches)	Ungrounded Conductor Size (Minimum)		Typical Grounded (Neutral) Conductor Size		Grounding Electrode and Bonding Conductor Size	
		Copper	Aluminum	Copper	Aluminum	Copper	
100	1.25	2 AWG	1/0 AWG	4 AWG	2 AWG	6 AWG	
200	2.00	3/0 AWG	250 kcmil	1/0 AWG	3/0 AWG	4 AWG	
400	3.00	500 kcmil	750 kcmil	350 kcmil	500 kcmil	1/0 AWG	

FRONT VIEW

This table is only a guide for some minimum conductor requirements and is not intended to be a comprehensive list of acceptable conductor sizes. The NEC should be reviewed to ensure compliance with all applicable requirements, including but not limited to conductor size, material, and insulation type.





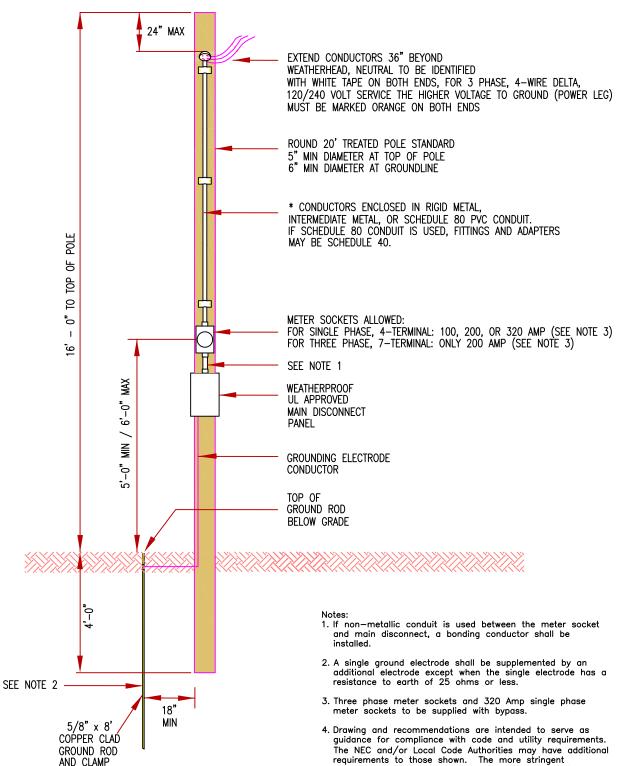
* Conductor Sizes for General Purpose Service Equipment							
Service Rating (Amperes)	Typical Conduit Size (Inches)	Ungrounded Conductor Size (Minimum)		Typical Grounded (Neutral) Conductor Size		Grounding Electrode and Bonding Conductor Size	
		Copper	Aluminum	Copper	Aluminum	Copper	
100	1.25	2 AWG	1/0 AWG	4 AWG	2 AWG	6 AWG	
200	2.00	3/0 AWG	250 kcmil	1/0 AWG	3/0 AWG	4 AWG	
400	3.00	500 kcmil	750 kcmil	350 kcmil	500 kcmil	1/0 AWG	

This table is only a guide for some minimum conductor requirements and is not intended to be a comprehensive list of acceptable conductor sizes. The NEC should be reviewed to ensure compliance with all applicable requirements, including but not limited to conductor size, material, and insulation type.

- 1. A single ground electrode shall be supplemented by an additional electrode except when the single electrode has a resistance to earth of 25 ohms or less.
- 2. Drawing and recommendations are intended to serve as guidance for compliance with code and utility requirements. The NEC and/or Local Code Authorities may have additional requirements to those shown. The more stringent requirement will take precedence for differences between authorities.

REVISION





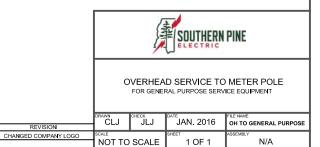
* Conductor Sizes for General Purpose Service Equipment						
Service Rating (Amperes)	Typical Conduit Size (Inches)	Ungrounded Conductor Size (Minimum)		Typical Grounded (Neutral) Conductor Size		Grounding Electrode and Bonding Conductor Size
		Copper	Aluminum	Copper	Aluminum	Copper
100	1.50	2 AWG	1/0 AWG	4 AWG	2 AWG	6 AWG
200	2.50	3/0 AWG	250 kcmil	1/0 AWG	3/0 AWG	4 AWG
400	3.00	500 kcmil	750 kcmil	350 kcmil	500 kcmil	1/0 AWG

This table is only a guide for some minimum conductor requirements and is not intended to be a comprehensive list of acceptable conductor sizes. The NEC should be reviewed to ensure compliance with all applicable requirements, including but not limited to conductor size, material, and insulation type.

The NEC and/or Local Code Authorities may have additional requirements to those shown. The more stringent requirement will take precedence for differences between

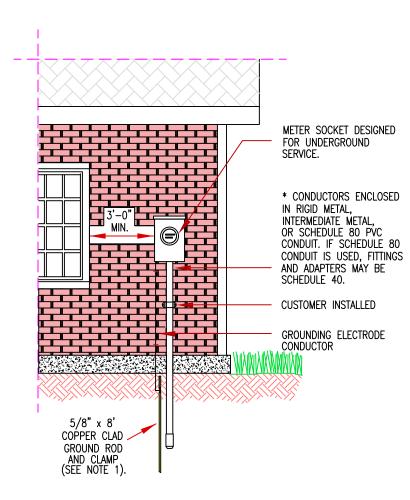
REVISION

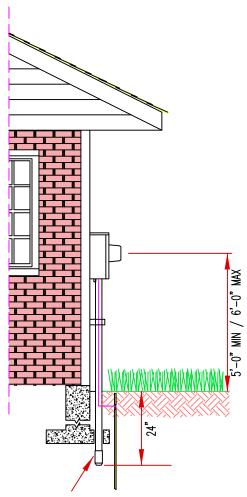
08/18/16



FRONT VIEW

SIDE VIEW





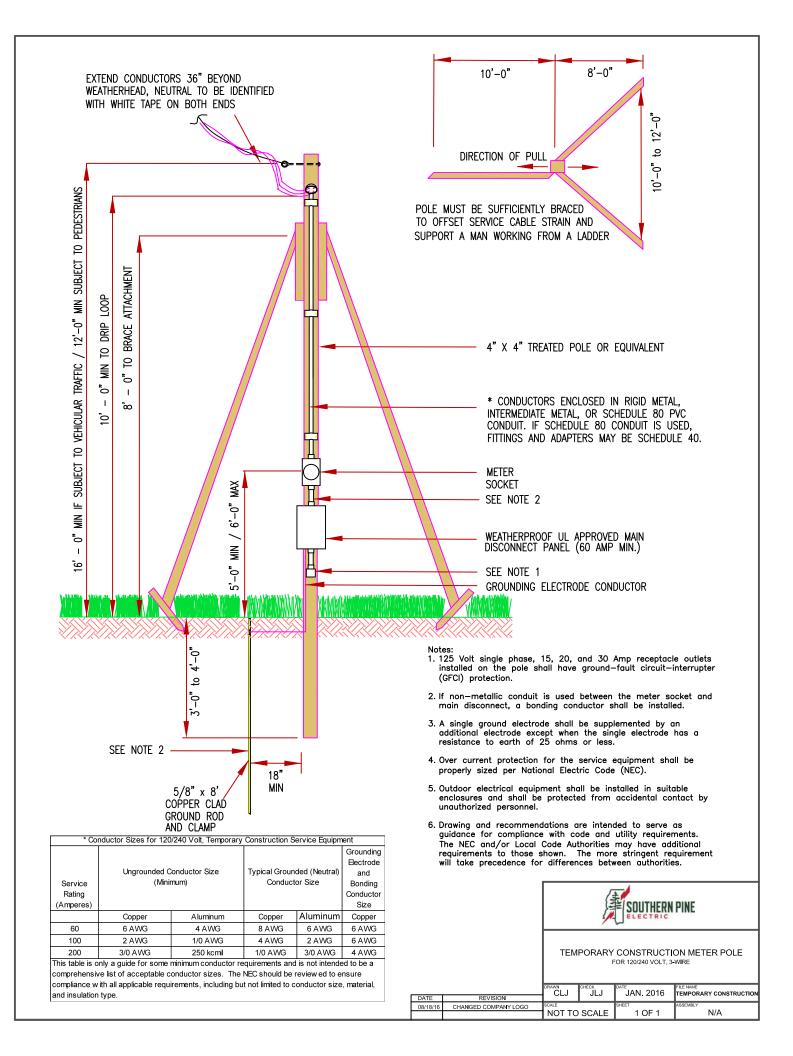
PROTECTIVE BUSHING REQUIRED ON END OF CONDUIT UNLESS COMPLETE CONDUIT SYSTEM IS USED. CONDUIT SHOULD BE STUBBED BELOW CONCRETE FOOTINGS.

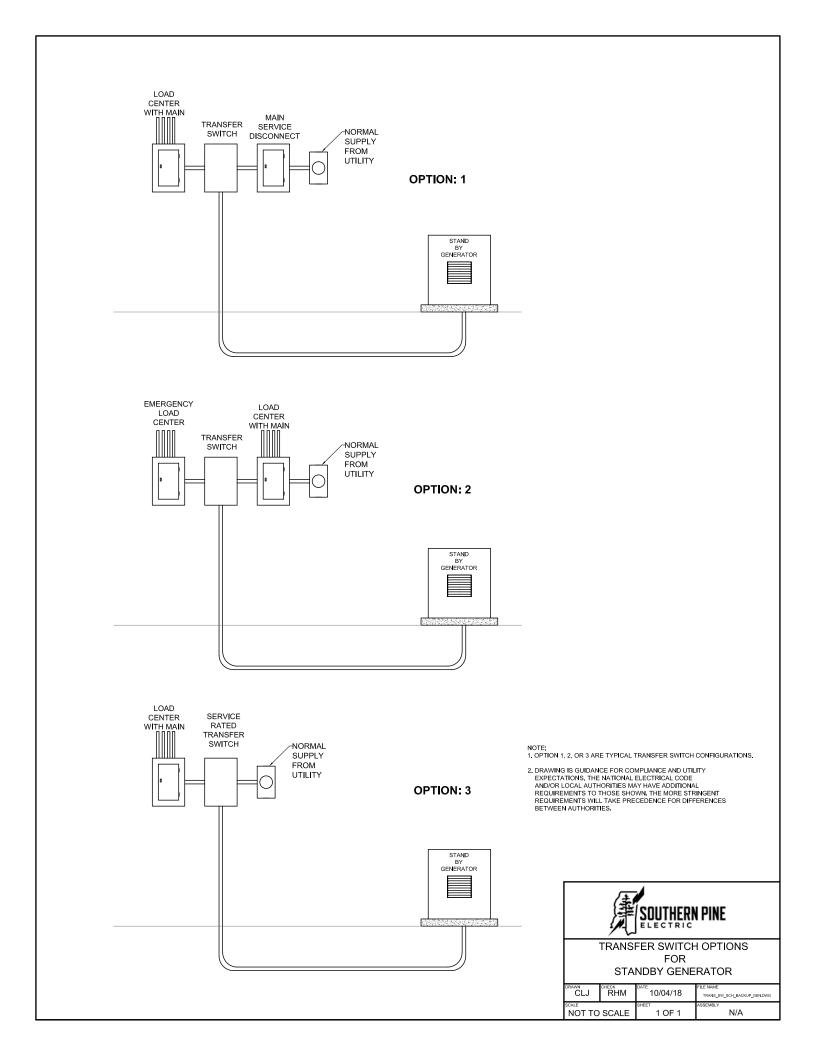
Notes:

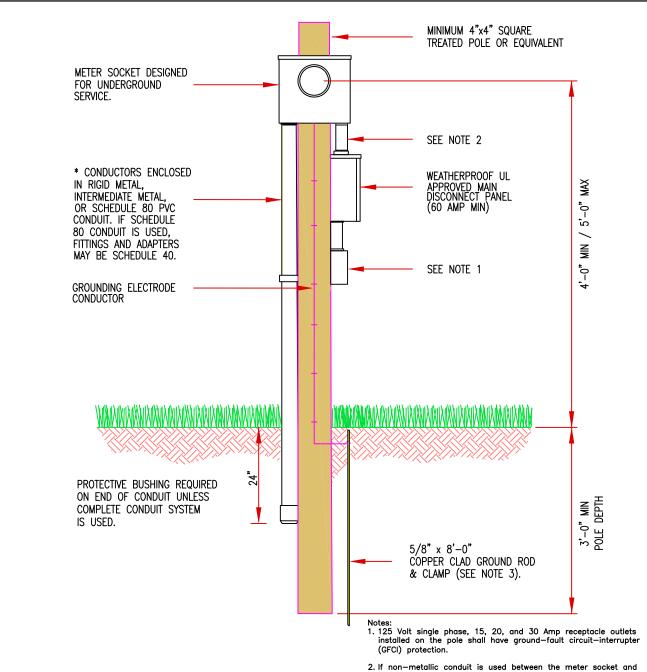
- A single ground electrode shall be supplemented by an additional electrode except when the single electrode has a resistance to earth of 25 ohms or less.
- Drawing and recommendations are intended to serve as guidance for compliance with code and utility requirements. The NEC and/or Local Code Authorities may have additional requirements to those shown. The more stringent requirement will take precedence for differences between authorities.

	SOUTHERN PINE					
	UNDERGROUND SERVICE TO STRUCTURE					
DATE REVISION	— CLJ	JLJ	JAN. 2016	FILE NAME UG TO STRUCT.		
08/18/16 CHANGED COMPANY LOGO	NOT TO	SCALE	1 OF 1	ASSEMBLY N/A		

OTHER







- If non-metallic conduit is used between the meter socket and main disconnect, a bonding conductor shall be installed.
- A single ground electrode shall be supplemented by an additional electrode except when the single electrode has a resistance to earth of 25 ohms or less.
- Over current protection for the service equipment shall be properly sized per National Electric Code (NEC).
- Outdoor electrical equipment shall be installed in suitable enclosures and shall be protected from accidental contact by unauthorized personnel.
- 6. Drawing and recommendations are intended to serve as guidance for compliance with code and utility requirements. The NEC and/or Local Code Authorities may have additional requirements to those shown. The more stringent requirement will take precedence for differences between authorities.

Conductor Sizes for 120/240 Voit, Temporary Construction Service Equipment						
Service Rating (Amperes)	Ungrounded C (Minii	Typical Grounded (Neutral) Conductor Size		Grounding Electrode and Bonding Conductor Size		
	Copper	Aluminum	Copper	Aluminum	Copper	
60	6 AWG	4 AWG	8 AWG	6 AWG	6 AWG	
100	2 AWG	1/0 AWG	4 AWG	2 AWG	6 AWG	
200	3/0 AWG	250 kcmil	1/0 AWG	3/0 AWG	4 AWG	

* Conductor Sizes for 120/240 Volt Tomperary Construction Service Equipment

This table is only a guide for some minimum conductor requirements and is not intended to be a comprehensive list of acceptable conductor sizes. The NEC should be reviewed to ensure compliance with all applicable requirements, including but not limited to conductor size, material, and insulation type.



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