



SERVICE ENTRANCE MINIMUM REQUIREMENTS

MOBILE STRUCTURES WITH 200-AMP OVERHEAD POWER SOURCE

FOR CUSTOMER SUPPORT
1-800-240-3400

RED = CUSTOMER IS RESPONSIBLE FOR EQUIPMENT AND INSTALLATION.

BLUE = BLUE RIDGE ELECTRIC CO-OP IS RESPONSIBLE FOR EQUIPMENT AND INSTALLATION.

RECOMMENDED = CHECK WITH COUNTY CODES

NOTES:

- WHEN DRIVING GROUND RODS, USE CAUTION AS YOU MAY CONTACT EXISTING UNDERGROUND UTILITIES.
- POLE MUST BE LOCATED A MINIMUM OF 2 1/2 FEET FROM STRUCTURE AND NOT MORE THAN 30 FEET FROM STRUCTURE FEEDER ENTRANCE.
- ALL WOOD PRODUCTS USED TO CONSTRUCT SERVICE INSTALLATION SHOULD BE TREATED FOR EXTERIOR USE.
- THE CUSTOMER MUST MAINTAIN A WORKING SPACE OF 1 1/2 FEET ON EACH SIDE OF THE METER AND 6 FEET IN FRONT OF THE METER.

WEATHERHEAD :

WEATHERHEAD MUST BE 12 FEET ABOVE FINISHED GRADE (MINIMUM REQUIREMENT)

OVERHEAD SERVICE ENTRANCE :

USE APPROPRIATE SERVICE ENTRANCE CABLE OR CABLE IN CONDUIT.

METER POLE :

TREATED POLE 16 FEET IN LENGTH WITH A MINIMUM TOP DIAMETER OF 4 INCHES OR 6 X 6 TREATED POST.

METER SOCKET :

COOPERATIVE APPROVED SOCKETS CAN BE OBTAINED AT LOCAL ELECTRIC SUPPLY STORES.

DISCONNECT PANEL :

WATER TIGHT PROTECTIVE DISCONNECT PANEL WITH INSIDE COVER.

UNDERGROUND SERVICE - ENTRANCE :

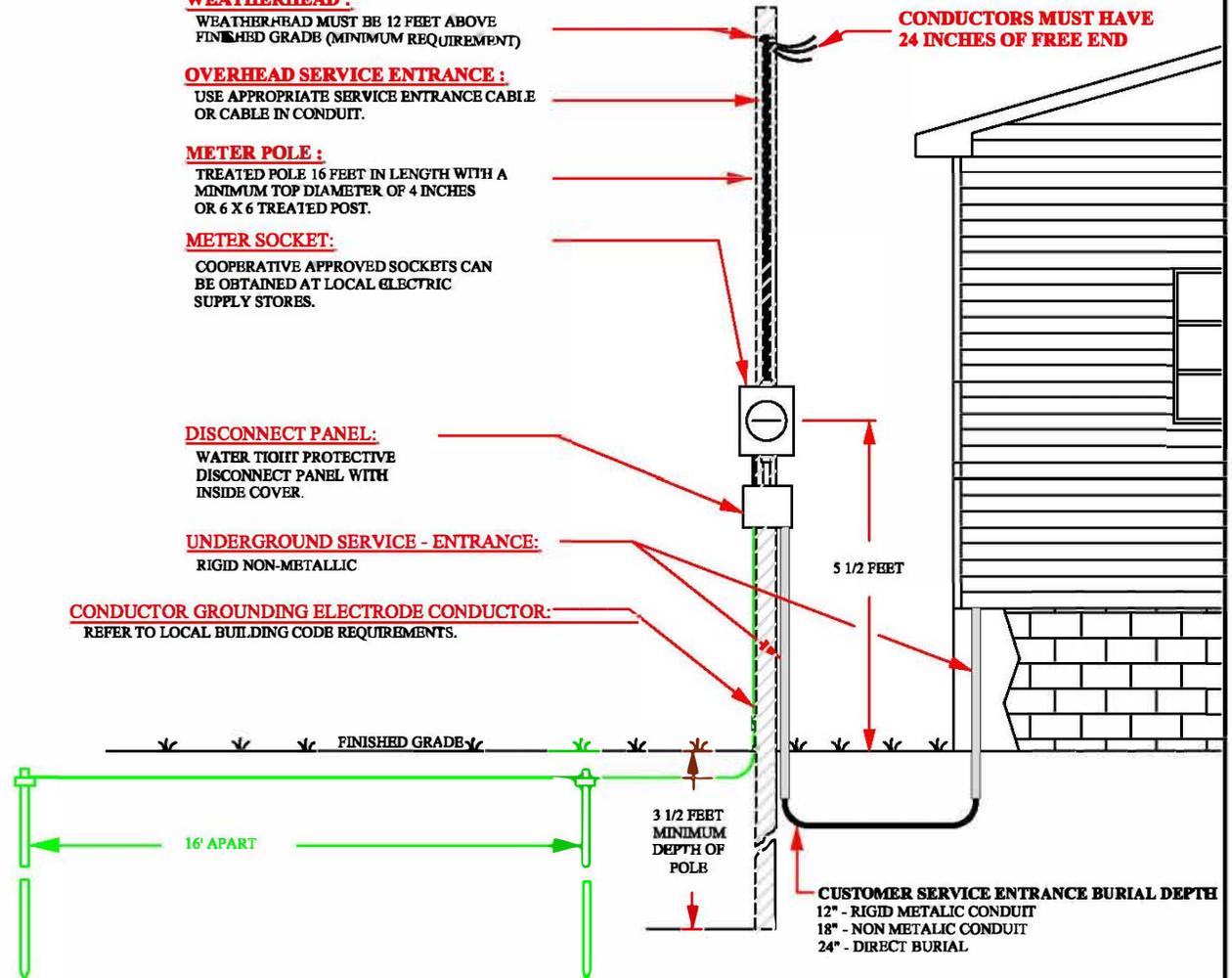
RIGID NON-METALLIC

CONDUCTOR GROUNDING ELECTRODE CONDUCTOR :

REFER TO LOCAL BUILDING CODE REQUIREMENTS.

GROUND RODS (5/8" x 8' COPPER - CLAD) :

- MUST BE DRIVEN BELOW GROUND LEVEL
- ROD'S SEPARATED BY 16'



THE SERVICE ENTRANCE POLE SHALL BE INSTALLED NEAR THE STRUCTURE CLOSEST TO THE EXISTING BLUE RIDGE FACILITIES.



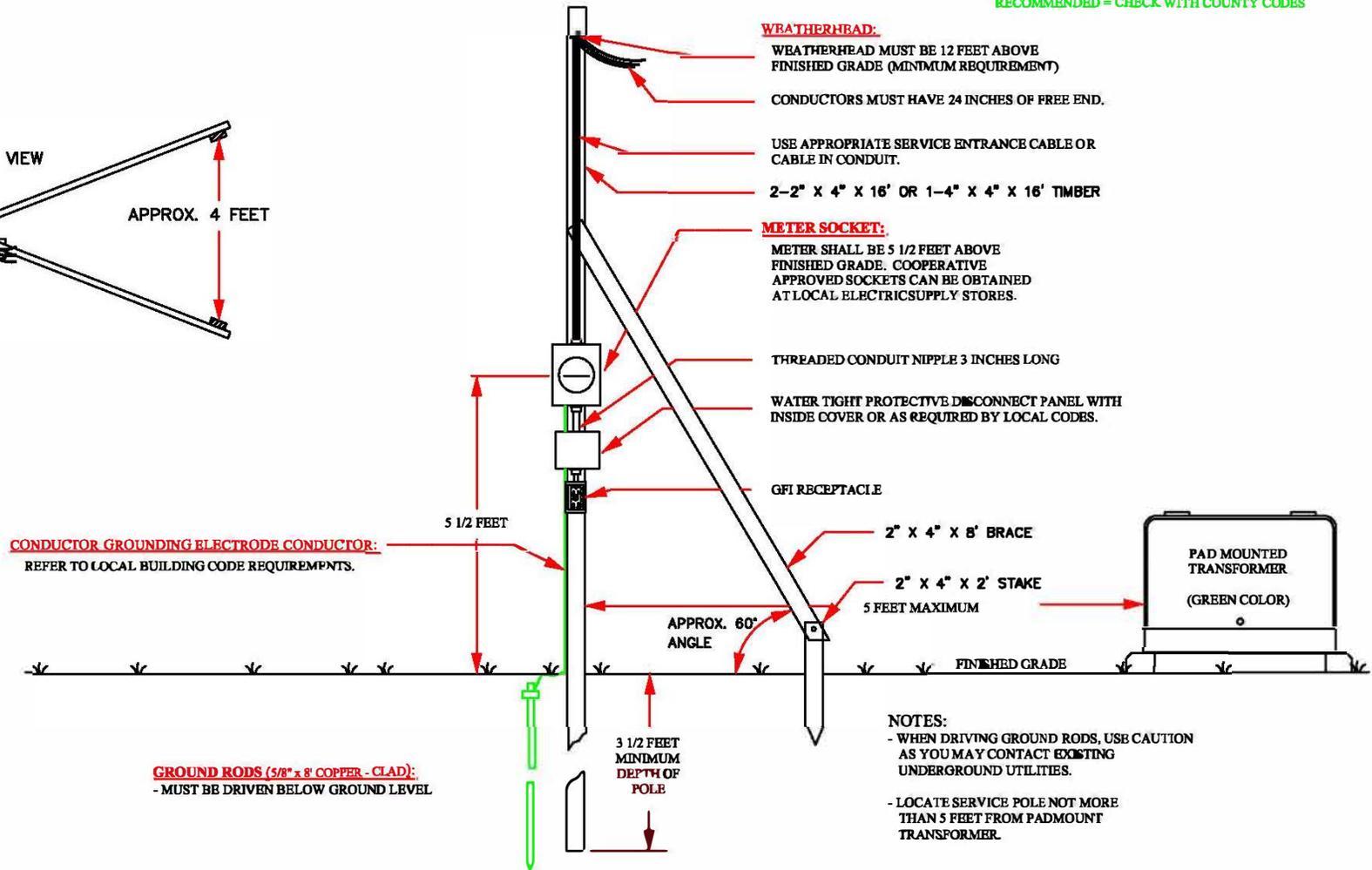
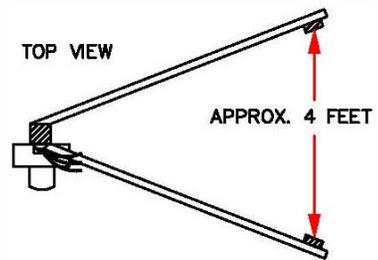
SERVICE ENTRANCE MINIMUM REQUIREMENTS TEMPORARY LOADS WITH UNDERGROUND POWER SOURCE

FOR CUSTOMER SUPPORT
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GROUND RODS (5/8" X 8' COPPER-CLAD):
 - MUST BE DRIVEN BELOW GROUND LEVEL

- NOTES:**
- WHEN DRIVING GROUND RODS, USE CAUTION AS YOU MAY CONTACT EXISTING UNDERGROUND UTILITIES.
 - LOCATE SERVICE POLE NOT MORE THAN 5 FEET FROM PADMOUNT TRANSFORMER.



SERVICE ENTRANCE MINIMUM REQUIREMENTS TEMPORARY LOADS WITH OVERHEAD POWER SOURCE

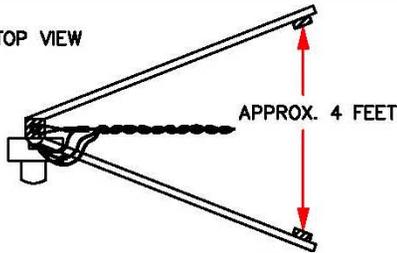
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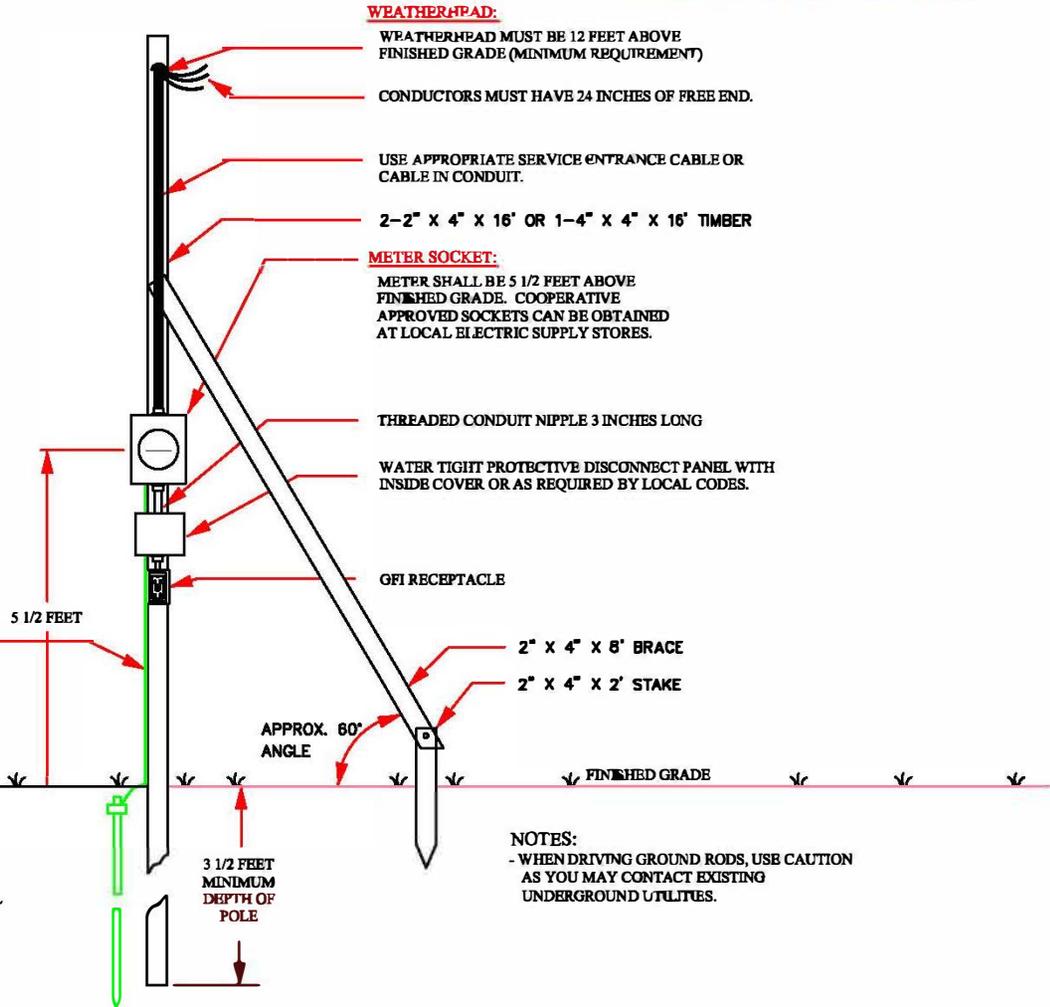
RECOMMENDED = CHECK WITH COUNTY CODES

TOP VIEW



CONDUCTOR GROUNDING ELECTRODE CONDUCTOR:
REFER TO LOCAL BUILDING CODE REQUIREMENTS.

GROUND RODS (5/8" x 3' COPPER - CLAD):
- MUST BE DRIVEN BELOW GROUND LEVEL.



WEATHERHEAD:

WEATHERHEAD MUST BE 12 FEET ABOVE FINISHED GRADE (MINIMUM REQUIREMENT)

CONDUCTORS MUST HAVE 24 INCHES OF FREE END.

USE APPROPRIATE SERVICE ENTRANCE CABLE OR CABLE IN CONDUIT.

2-2" x 4" x 16" OR 1-4" x 4" x 16' TIMBER

METER SOCKET:

METER SHALL BE 5 1/2 FEET ABOVE FINISHED GRADE. COOPERATIVE APPROVED SOCKETS CAN BE OBTAINED AT LOCAL ELECTRIC SUPPLY STORES.

THREADED CONDUIT NIPPLE 3 INCHES LONG

WATER TIGHT PROTECTIVE DISCONNECT PANEL WITH INSIDE COVER OR AS REQUIRED BY LOCAL CODES.

GFI RECEPTACLE

2" x 4" x 8" BRACE

2" x 4" x 2' STAKE

APPROX. 80° ANGLE

FINISHED GRADE

NOTES:

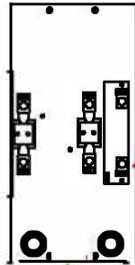
- WHEN DRIVING GROUND RODS, USE CAUTION AS YOU MAY CONTACT EXISTING UNDERGROUND UTILITIES.



SERVICE ENTRANCE MINIMUM 400 AMP REQUIREMENTS PERMANENT STRUCTURES WITH UNDERGROUND POWER SOURCE

FOR CUSTOMER SUPPORT
1-800-240-3400

Meter Socket Detail



CUSTOMER'S SERVICE ENTRANCE CONDUCTORS SHALL BE WIRED INTO BOTTOM LUGS OF METER SOCKET WITH ONLY ONE CONDUCTOR WIRED UNDER EACH CONNECTOR

GROUND WIRE CONNECTED TO GROUND ROD

METER SOCKET:

METER SHALL BE 5 1/2 FEET ABOVE FINISHED GRADE. COOPERATIVE APPROVED SOCKETS CAN BE OBTAINED AT LOCAL ELECTRIC SUPPLY STORES.

THE METER SOCKET SHALL BE INSTALLED ON THE STRUCTURE CLOSEST TO THE EXISTING BLUE RIDGE SERVICE FACILITIES AND AWAY FROM SEPTIC / SEWER SYSTEMS.

CONDUCTOR GROUNDING ELECTRODE CONDUCTOR:
REFER TO LOCAL BUILDING CODE REQUIREMENTS.

FOR BEST APPEARANCE OF CONDUIT INSTALLATION, THE FOOTING SHOULD NOT EXTEND PAST THE WALL DIRECTLY BELOW THE METER SOCKET INSTALLATION FOR A WIDTH OF 24 INCHES. CONSULT LOCAL BUILDING CODES DEPARTMENTS CONCERNING FOOTING REQUIREMENTS.

5 1/2 FEET

FINISHED GRADE

16' APART

GROUND RODS (5/8" x 8' COPPER-CLAD):

- MUST BE DRIVEN BELOW GROUND LEVEL
- 2 FEET FROM BASE OF FOUNDATION
- ROD'S SEPARATED BY 16'

NOTES:

- WHEN DRIVING GROUND RODS, USE CAUTION AS YOU MAY CONTACT EXISTING UNDERGROUND UTILITIES.
- REMEMBER, IT IS THE CUSTOMER'S RESPONSIBILITY TO LOCATE AND EXPOSE ALL EXISTING UNDERGROUND FACILITIES INCLUDING WATER, SEWER, SEPTIC SYSTEMS, PROPANE TANKS AND OR LINES, SATELLITE TV WIRES, ANY TYPE OF DRAIN, ETC.
- THE CUSTOMER MUST MAINTAIN A WORKING SPACE OF 1 1/2 FEET ON EACH SIDE OF THE METER AND 6 FEET IN FRONT OF THE METER.

BLUE = BLUE RIDGE ELECTRIC CO-OP IS RESPONSIBLE FOR EQUIPMENT AND INSTALLATION.

RED = CUSTOMER IS RESPONSIBLE FOR EQUIPMENT AND INSTALLATION.

GREEN = CHECK WITH COUNTY CODES

July 1, 2020

NEC Table 250-66 Grounding Electrode Conductor for Alternating-Current Systems

Size of Largest Service Entrance Conductor or Equivalent Area for Parallel Conductors		Size of Grounding Electrode Conductor	
Copper	Aluminum or Copper-Clad Aluminum	Copper	Aluminum or Copper-Clad Aluminum
#2 or Smaller	1/0 or smaller	8	6
#1 or 1/0	2/0 or 3/0	6	4
2/0 or 3/0	4/0 or 250 kcmil	4	2
4/0 thru 350 kcmil	300 kcmil thru 500 kcmil	2	1/0
400kcmil thru 600 kcmil	600 kcmil thru 900 kcmil	1/0	3/0
700kcmil thru 1100 kcmil	1000 kcmil thru 1750 kcmil	2/0	4/0
Over 1100 kcmil	Over 1750 kcmil	3/0	250 kcmil



SERVICE ENTRANCE MINIMUM REQUIREMENTS

PERMANENT STRUCTURES WITH 200-AMP UNDERGROUND POWER SOURCE

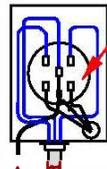
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**BLUE = BLUE RIDGE ELECTRIC CO-OP IS RESPONSIBLE
FOR EQUIPMENT AND INSTALLATION.**

RECOMMENDED - CHECK WITH COUNTY CODES

METER SOCKET DETAIL



CUSTOMER'S SERVICE ENTRANCE CONDUCTORS SHALL BE WIRED INTO BOTTOM LUGS OF METER BASE WITH ONLY ONE CONDUCTOR WIRED UNDER EACH CONNECTOR.

GROUND WIRE CONNECTED TO GROUND ROD

THE METER SOCKET SHALL BE INSTALLED ON THE STRUCTURE CLOSEST TO THE EXISTING BLUE RIDGE SERVICE FACILITIES AND AWAY FROM SEPTIC / SEWER SYSTEMS.

FOR BEST APPEARANCE OF CONDUIT INSTALLATION, THE FOOTING SHOULD NOT EXTEND PAST THE WALL DIRECTLY BELOW THE METER SOCKET INSTALLATION FOR A WIDTH OF 24 INCHES. CONSULT LOCAL BUILDING CODES DEPARTMENTS CONCERNING FOOTING REQUIREMENTS.

METER SOCKET:

METER SHALL BE 5 1/2 FEET ABOVE FINISHED GRADE. COOPERATIVE APPROVED SOCKETS CAN BE OBTAINED AT LOCAL ELECTRIC SUPPLY STORES

CONDUCTOR GROUNDING ELECTRODE CONDUCTOR:

REFER TO LOCAL BUILDING CODE REQUIREMENTS.

5 1/2 FEET

FINISHED GRADE

16' APART

GROUND RODS (5/8" x 8' COPPER-CLAD):

- MUST BE DRIVEN BELOW GROUND LEVEL
- 2 FEET FROM BASE OF FOUNDATION
- ROD'S SEPARATED BY 16'

NOTES:

- WHEN DRIVING GROUND RODS, USE CAUTION AS YOU MAY CONTACT EXISTING UNDERGROUND UTILITIES.
- REMEMBER, IT IS THE CUSTOMER'S RESPONSIBILITY TO LOCATE AND EXPOSE ALL EXISTING UNDERGROUND FACILITIES INCLUDING WATER, SEWER, SEPTIC SYSTEMS, PROPANE TANKS AND OR LINES, SATELLITE TV WIRES, ANY TYPE OF DRAIN, ETC.
- THE CUSTOMER MUST MAINTAIN A WORKING SPACE OF 1 1/2 FEET ON EACH SIDE OF THE METER AND 6 FEET IN FRONT OF THE METER.
- THE METER SOCKET SHALL BE INSTALLED ON THE STRUCTURE CLOSEST TO THE EXISTING BLUE RIDGE SERVICE FACILITIES.



SERVICE ENTRANCE MINIMUM REQUIREMENTS

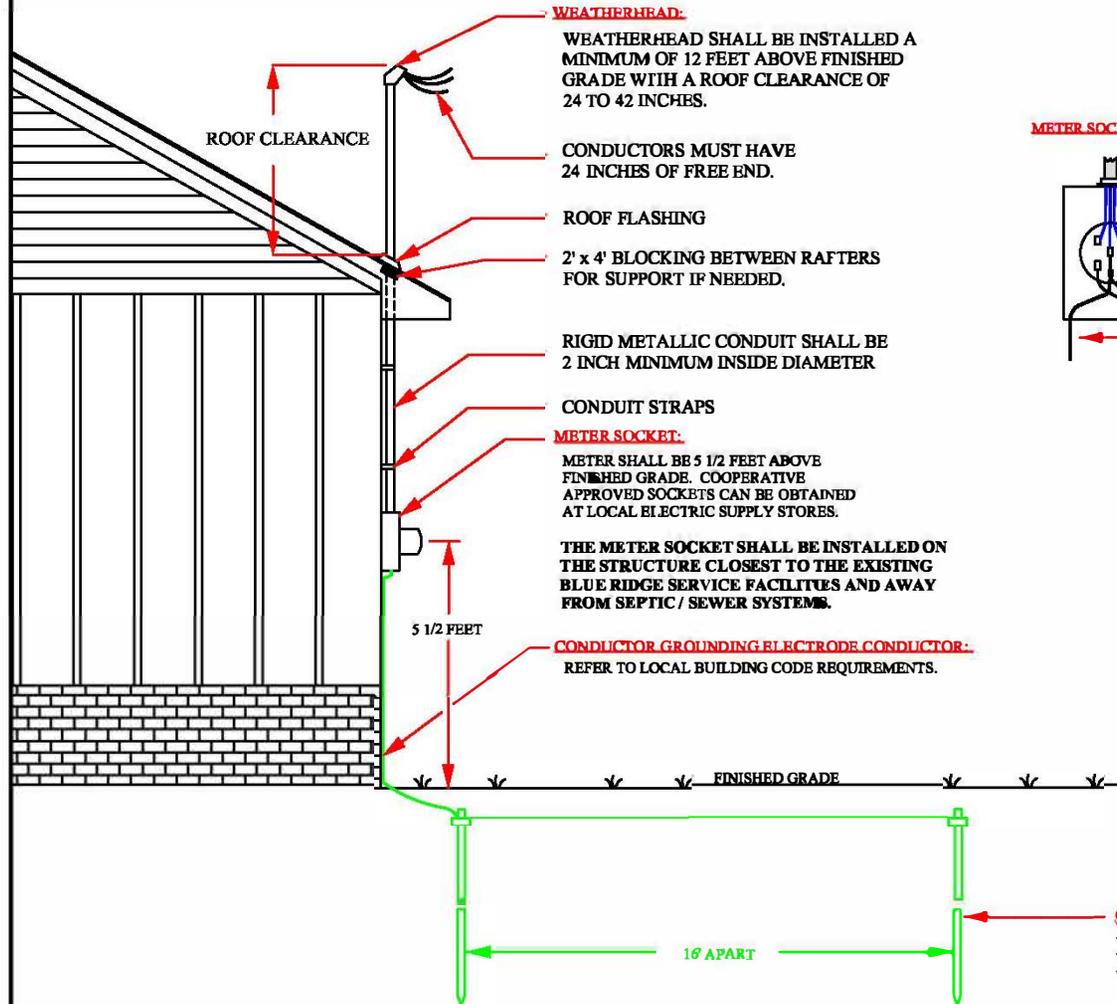
PERMANENT STRUCTURES WITH 200-AMP OVERHEAD POWER SOURCE

FOR CUSTOMER SUPPORT
1-800-240-3400

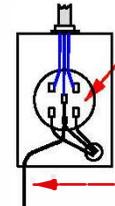
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METER SOCKET DETAIL



CUSTOMER'S SERVICE ENTRANCE CONDUCTORS SHALL BE WIRED INTO BOTTOM LUGS OF METER BASE WITH ONLY ONE CONDUCTOR WIRED UNDER EACH CONNECTOR.

GROUND WIRE CONNECTED TO GROUND RODS.

NOTES:

- WHEN DRIVING GROUND RODS, USE CAUTION AS YOU MAY CONTACT EXISTING UNDERGROUND UTILITIES.
- CUSTOMER WILL FURNISH AND INSTALL WEATHERHEAD, CONDUIT, GROUND ROD, AND ASSOCIATED WIRE.
- THE CUSTOMER MUST MAINTAIN A WORKING SPACE OF 1 1/2 FEET ON EACH SIDE OF THE METER AND 6 FEET IN FRONT OF THE METER.
- THE METER SOCKET SHALL BE INSTALLED ON THE STRUCTURE CLOSEST TO THE EXISTING BLUE RIDGE SERVICE FACILITIES.



SERVICE ENTRANCE MINIMUM REQUIREMENTS SINGLE WOODEN POLE STRUCTURE FOR MOBILE HOME WITH 200-AMP UNDERGROUND POWER SOURCE

FOR CUSTOMER SUPPORT
1-800-240-3400

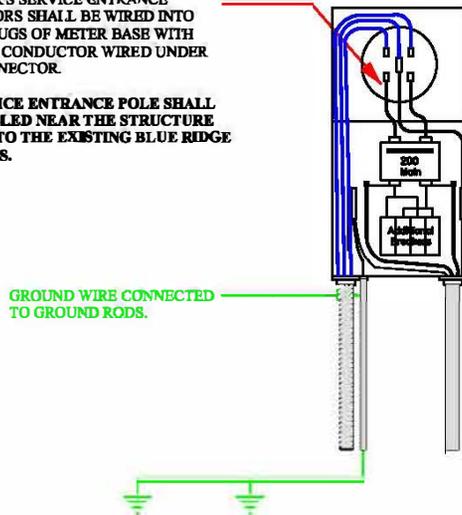
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- CUSTOMER'S SERVICE ENTRANCE CONDUCTORS SHALL BE WIRED INTO BOTTOM LUGS OF METER BASE WITH ONLY ONE CONDUCTOR WIRED UNDER EACH CONNECTOR.
- THE SERVICE ENTRANCE POLE SHALL BE INSTALLED NEAR THE STRUCTURE CLOSEST TO THE EXISTING BLUE RIDGE FACILITIES.

METER SOCKET DETAIL



PEDESTAL SUPPORTS:

4" x 6" (MINIMUM) TREATED POST

METER SOCKET:

METERS SHALL BE 5 1/2 FEET ABOVE FINISHED GRADE. COOPERATIVE APPROVED SOCKETS CAN BE OBTAINED AT LOCAL ELECTRIC SUPPLY STORES.

SERVICE LATERAL:

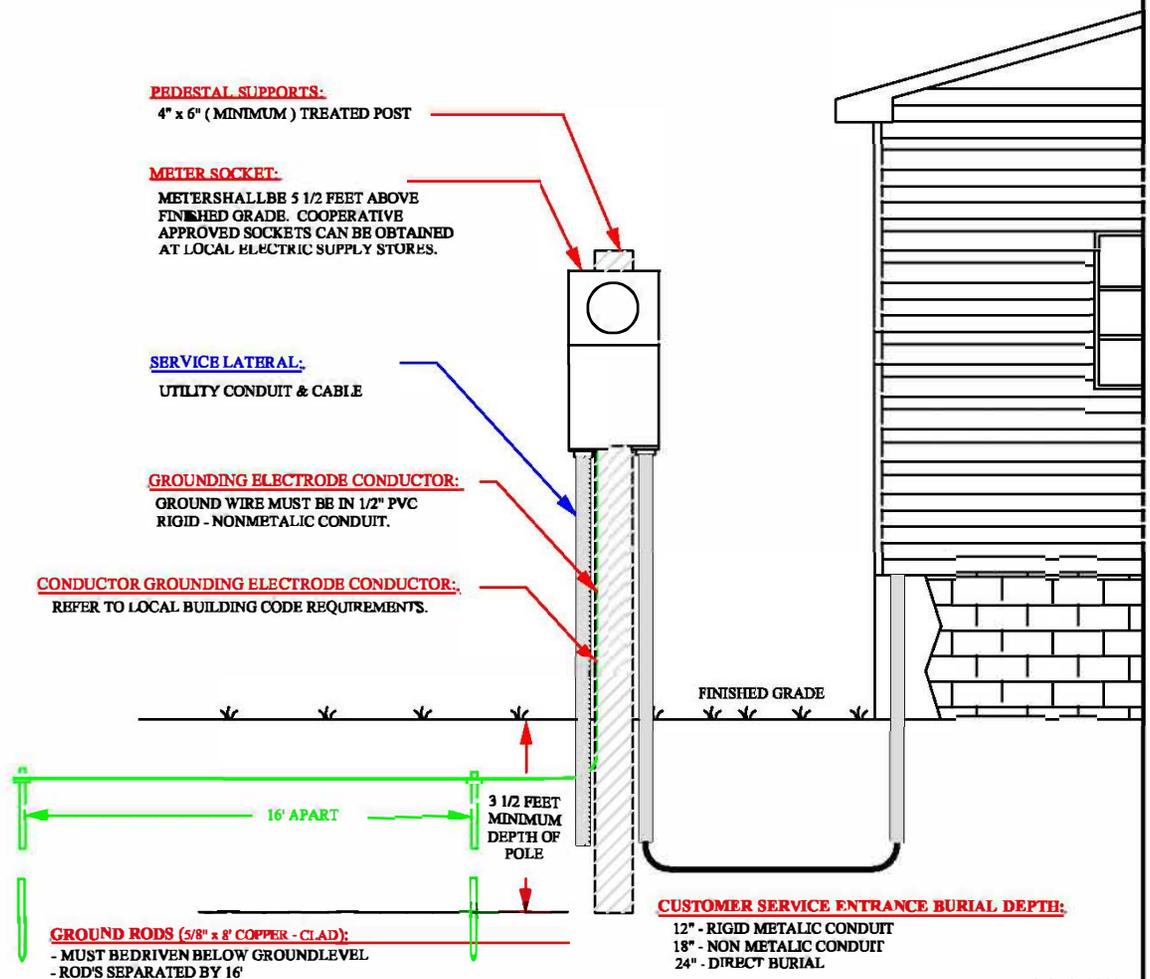
UTILITY CONDUIT & CABLE

GROUNDING ELECTRODE CONDUCTOR:

GROUND WIRE MUST BE IN 1/2" PVC RIGID - NONMETALLIC CONDUIT.

CONDUCTOR GROUNDING ELECTRODE CONDUCTOR:

REFER TO LOCAL BUILDING CODE REQUIREMENTS.



NOTES:

- WHEN DRIVING GROUND RODS, USE CAUTION AS YOU MAY CONTACT EXISTING UNDERGROUND UTILITIES.
- POLE MUST BE LOCATED A MINIMUM OF 2 1/2 FEET FROM STRUCTURE AND NOT MORE THAN 30 FEET FROM STRUCTURE FEEDER ENTRANCE.
- ALL WOOD PRODUCTS USED TO CONSTRUCT SERVICE INSTALLATION SHOULD BE TREATED FOR EXTERIOR USE.
- THE CUSTOMER MUST MAINTAIN A WORKING SPACE OF 1 1/2 FEET ON EACH SIDE OF THE METER AND 6 FEET IN FRONT OF THE METER.

CUSTOMER SERVICE ENTRANCE BURIAL DEPTH:

- 12" - RIGID METALLIC CONDUIT
- 18" - NON METALLIC CONDUIT
- 24" - DIRECT BURIAL

GROUND RODS (5/8" x 8' COPPER - CLAD):

- MUST BE DRIVEN BELOW GROUND LEVEL
- ROD'S SEPARATED BY 16'



SERVICE ENTRANCE MINIMUM REQUIREMENTS

MOBILE STRUCTURES WITH 200-AMP UNDERGROUND POWER SOURCE

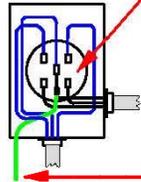
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METER SOCKET DETAIL



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GROUND WIRE CONNECTED TO GROUND RODS.

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- ALL WOOD PRODUCTS USED TO CONSTRUCT SERVICE INSTALLATION SHOULD BE TREATED FOR EXTERIOR USE.
- THE CUSTOMER MUST MAINTAIN A WORKING SPACE OF 1 1/2 FEET ON EACH SIDE OF THE METER AND 6 FEET IN FRONT OF THE METER.
- CUSTOMER SERVICE ENTRANCE SHALL BE INSTALLED CLOSEST TO COOPERATIVE LINES.

METER SOCKET:

METER SHALL BE 5 1/2 FEET ABOVE FINISHED GRADE. COOPERATIVE APPROVED SOCKETS CAN BE OBTAINED AT LOCAL ELECTRIC SUPPLY STORES.

SERVICE LATERAL:

UTILITY CONDUIT & CABLE

THE METER SOCKET SHALL BE INSTALLED ON THE STRUCTURE CLOSEST TO THE EXISTING BLUE RIDGE SERVICE FACILITIES.

PEDESTAL SUPPORTS:

4" x 4" TREATED POSTS

DISCONNECT PANEL:

WATER TIGHT PROTECTIVE DISCONNECT PANEL WITH INSIDE COVER.

SUPPORT MEMBERS:

2" x 6" TREATED CROSS MEMBERS JOINED WITH GALVANIZED NAILS OR SCREWS.

UNDERGROUND SERVICE ENTRANCE:

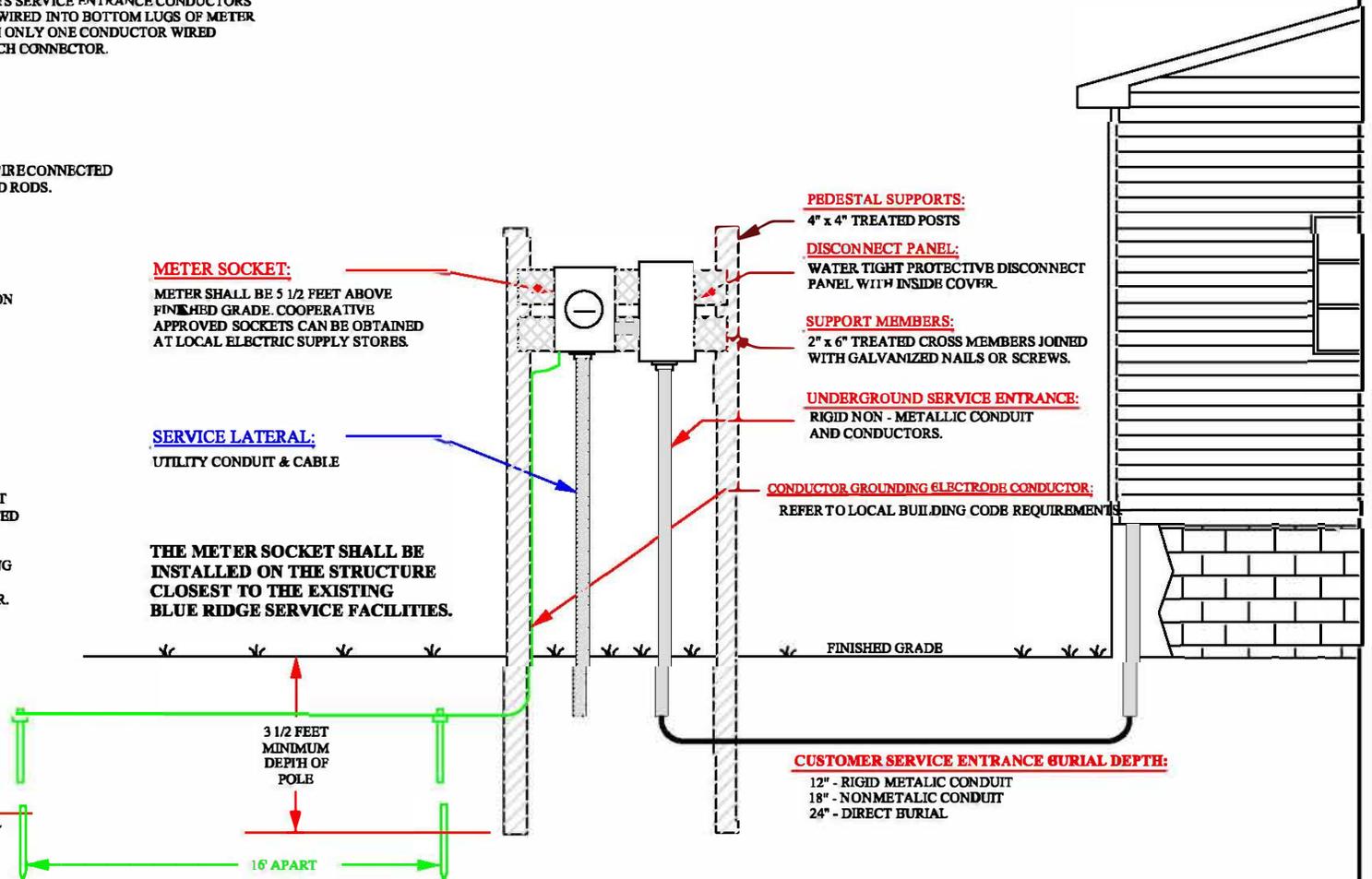
RIGID NON-METALLIC CONDUIT AND CONDUCTORS.

CONDUCTOR GROUNDING ELECTRODE CONDUCTOR:

REFER TO LOCAL BUILDING CODE REQUIREMENTS

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- 18" - NONMETALLIC CONDUIT
- 24" - DIRECT BURIAL



GROUND RODS (5/8" x 8' COPPER-CLAD):
- MUST BE DRIVEN BELOW GROUND LEVEL
- RODS SEPARATED BY 16'



SERVICE ENTRANCE MINIMUM REQUIREMENTS TEMPORARY LOADS WITH UNDERGROUND POWER SOURCE

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