

# *Murray County Code Enforcement/Building Official*

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## **RESIDENTIAL ELECTRICAL GUIDELINES**

**(These are to be considered for guidance purposes only. Rules and Regulations of Service Providers can change at any time. The 2011 N.E.C. is the current electrical code in effect.)**

1. ALL METER BASE AND OR POLE LOCATIONS ARE TO BE DETERMINED BY YOUR ELECTRICAL SERVICE PROVIDER. ALL POLE DEPTHS AND HEIGHT ARE DETERMINED BY PROVIDER.  
(Contact your provider to set up an appointment with an engineer.)
2. ALL SERVICE INSTALLATIONS SHALL BE GROUNDED WITH A #4 BARE COPPER WIRE CONNECTED TO A MINIMUM OF (2) TWO, 8' IN LENGTH, 5/8 " STAINLESS STEEL, COPPER OR ZINC COATED STEEL RODS NOT LESS THAN 6' APART OR 3/4" GALVANIZED OR OTHERWISE METAL-COATED FOR CORROSION PROTECTION PIPE OR CONDUIT DRIVEN COMPLETELY IN THE GROUND.
3. IF A CONCRETE-ENCASED ELECTRODE SYSTEM IS USED IT MUST BE ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF 1/2" IN DIAMETER INSTALLED IN ONE CONTINUOUS 20' LENGTH, OR IF IN MULTIPLE PIECES CONNECTED TOGETHER BY THE USUAL STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MEANS TO CREATE THE 20' LENGTH OR A MINIMUM 4 AWG BARE COPPER CONDUCTOR. ALL METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 2" OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH.  
GROUND WIRE SHALL NOT BE INSTALLED IN OR THROUGH THE METER BASE.
4. ENTRANCE CABLE CONDUIT AND WEATHERHEAD SHALL EXTEND TO WITHIN SIX INCHES OF TOP OF POLE AND HAVE AT LEAST 15" TO 18" OF ENTRANCE CABLE EXTENDING FROM WEATHERHEAD FOR CONNECTION TO SERVICE WIRES.
5. WIRING FROM DISCONNECT BOX TO 12" IN THE GROUND MUST BE IN RIGID SCHEDULE 80, 2" GRAY PVC CONDUIT. THE CONDUIT FROM THIS POINT ON TO THE CONNECTION UNDER A MANUFACTURED HOME CAN BE OF SCHEDULE 40 AND MUST BE BURIED 12" UNDER GROUND UP TO THE SKIRTING OF A MANUFACTURED HOME.
6. ALL OVERHEAD SERVICE'S TO A HOUSE MUST BE RIGID SCHEDULE 40, 2" GRAY PVC OR RIGID 2" GALVANIZED PIPE, DEPENDANT UPON METHOD OF INSTALLATION.  
(SEE YOUR SPECIFIC ELECTRICAL PROVIDER'S GUIDELINES.)
7. IF METER BASE AND BREAKER PANEL ARE NOT LOCATED BACK TO BACK WITH ONE ANOTHER, THEN A DISCONNECT BOX IS REQUIRED BETWEEN METER BASE AND BREAKER PANEL.

### MINIMUM WIRE SIZES TO USE

#### AMP.....IF USING COPPER WIRE

↓	↓	
100.....	#4 ENTRANCE CABLE	→
150.....	1/0 ENTRANCE CABLE	→
200.....	2/0 ENTRANCE CABLE	→

#### IF USING ALUMINUM WIRE

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#2 3 WIRES REQUIRED
2/0 ENTRANCE CABLE, 3 WIRES
4/0 ENTRANCE CABLE, 3 WIRES
(Corrosion inhibitor required on all aluminum wire connections.)

ALL MANUFACTURED HOMES REQUIRE A 4 (FOUR) WIRE WIRING SYSTEM. THIS APPLIES TO EITHER A 100 AMP OR 200 AMP SERVICE PANEL. THERE WILL BE (2) SERVICE CONDUCTORS, A NEUTRAL AND A GROUND FROM THE DISCONNECT TO THE PANEL. ALL 4 WIRES MUST BE LOCATED IN THE CONDUIT AND SHALL BE CONTINUOUS; NO SPLICING OF WIRE IS PERMITTED. THE NEUTRAL WIRE SHALL BE MARKED WHITE AND THE GROUND SHALL BE MARKED GREEN. THESE MARKINGS SHALL BE EASILY VISIBLE ON BOTH ENDS OF THE WIRE FOR AT LEAST 3'.

IF UNDERGROUND SERVICE IS UTILIZED, THEN THE CONDUIT MUST BE SCHEDULE 80, 2 1/2" RIDGID GRAY PVC.

(Please consult with your electrical service provider on this type of installation for their specific requirements.)

If you have questions or concerns, please contact Building Inspector before purchasing or installing any equipment.