

Dock Wiring Inspection Sheet

1. Feeder from the main panel to sub panel shall be 4 wire for 240 volt system or 3 wire for 120 volt system and sized for the load.
2. Conduit that is buried from the building to the sub-panel shall be schedule 40 PVC for underground use.
3. Junction box on the outside of the building serving the dock shall be weatherproof.
4. The feeder from the sub-panel to the dock shall be schedule 40 PVC (sunlight resistant) and must be liquid tight flexible conduit at all pivot points.
5. The conduit from the J-box to the dock sub-panel or disconnect shall be sized for the conductors.
6. The sub-panel shall be at the seawall next to the dock ramp and shall have a disconnecting means.
7. All grounding conductors shall have continuous outer finish that is green including all bonding wires.
8. The grounding conductors shall be connected to the grounding bus in the sub-panel and to the ground rod. Grounding bus and grounded bus must be separated.
9. A grounding electrode shall be in place (at least eight (8) feet long and trade size of 1/2 inch).
10. The grounding conductor shall be sized correctly for the circuit (minimum #6) and attached with a separate clamp directly to the grounding electrode.
11. #6 grounding wire from the ground rod to the metal parts of the ramp with approved terminals attached with through bolts and lock nuts.
12. #6 grounding wire jumper shall be installed between all pivot points in the ramp, dock stiff arms, breakwaters, etc., attached with through bolts and lock nuts.
13. All metal enclosure and exposed metal parts of the electrical system shall be bonded to the grounding bus with approved terminals.
14. All metal parts, metal piping and all non-current carrying metal parts must be bonded to the panel board.
15. All outlet receptacles shall be GFCI protected unless the outlet is a dedicated outlet in an enclosed structure.
16. All general use outlet receptacles shall be a minimum 36 inches from the finished dock surface.
17. All outlets dedicated for a piece of equipment shall be of the Marine Twist Lock type and GFCI protected. A disconnecting means must be within 30 inches of outlet or approved pedestal installation.
18. All GFCI protected outlets receptacles shall work when tested.
19. All cabinets and cutout boxes shall be a minimum of 1/4 inch of airspace between the enclosure and supporting surface.
20. All enclosures below eight (8) feet or exposed to weather shall be in weatherproof enclosures and suitable for wet locations with allowable weep holes.
21. All fixtures above eight (8) feet and below a roof or overhang shall be suitable for damp location.
22. All general use receptacles shall have an attachment plug cover ("in use" type).
23. All switches shall be in weatherproof enclosures or cabinets.
24. Receptacles, switch boxes and junction boxes shall not be within six (6) feet of a ladder for the dock.
25. Any metal ladder on the dock shall have #6 wire jumpers to dock frame from ladder base and to ladder if hinged (frame can be bolted to dock frame).
26. A detachable ladder needs to have specs showing that it is bondable.

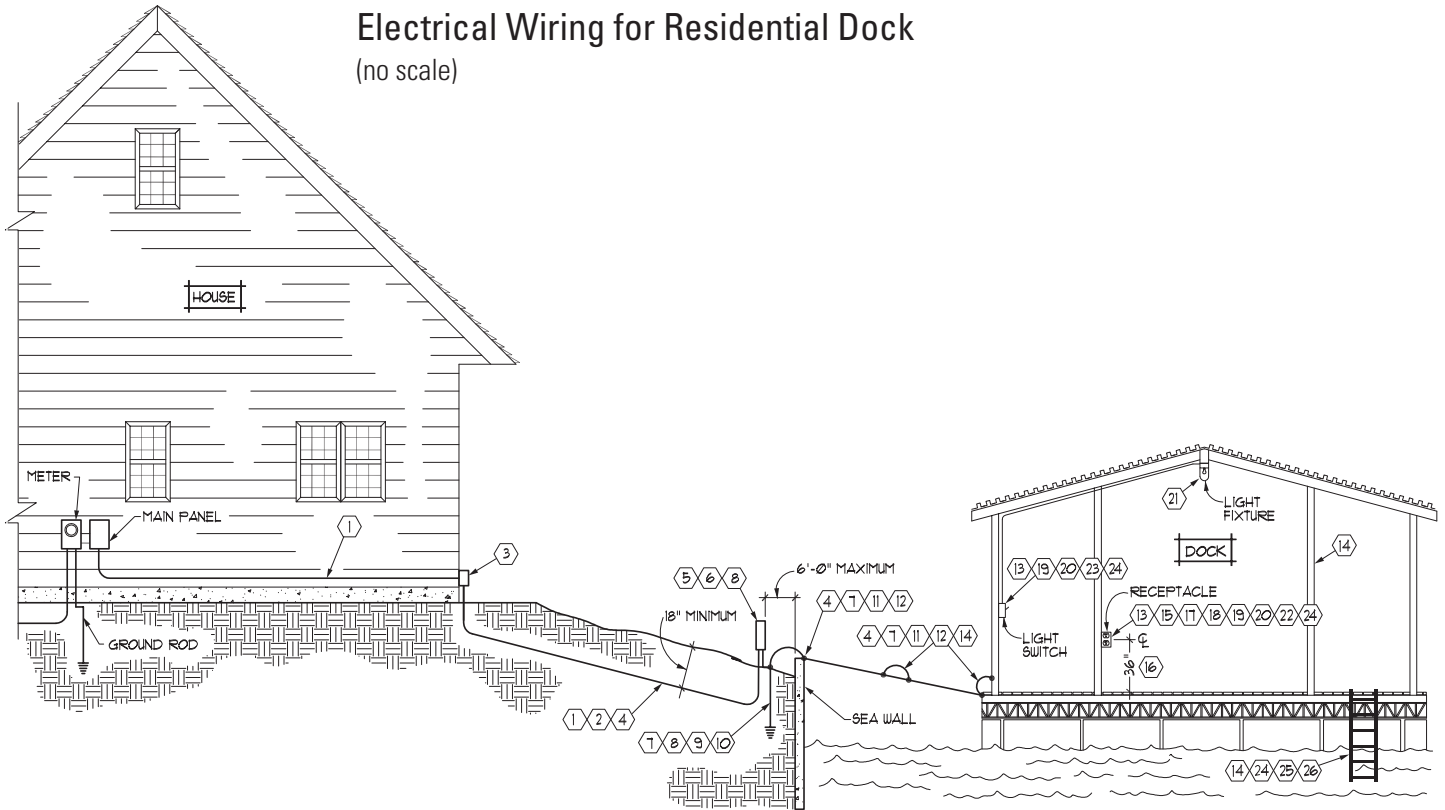
Notes:

- » 2005 National Electrical Code (NEC) applies with Authority having jurisdiction (AHJ) additions.
- » Non-metallic sheathed cable may not be used (Romex).
- » All wiring methods and conductors shall be suitable for wet locations (check exceptions).
- » All wiring shall meet 2005 NEC Article 553, "Floating Buildings" for private dwelling docks.
- » All wiring shall meet 2005 NEC Article 555, "Marinas and Boat-yards" for all other docks.
- » Contact your local fire department for an inspection within seven days of supplying power to the dock.



Electrical Wiring for Residential Dock

(no scale)



Lake area Fire Districts and the Village of Four Seasons require a permit and inspection when installing or modifying a dock and any time work is being performed on the electrical system of a dock. Contact the appropriate inspection agency for assistance with your permit and inspection. If your area is not supported by one of the Districts or Villages below, you will need to hire a qualified electrician to inspect the dock as Ameren Missouri does not conduct electrical inspections.

City of Camdenton
437 W. US Hwy 54
Camdenton, MO 65020
573.346.3600

Northwest Fire Protection District
P.O. Box 128
Climax Springs, MO 65324
573.347.3110

Sunrise Beach Fire Protection District
30 Porter Mill Springs Dr
Sunrise Beach, MO 65079
573.374.4411

Lake Ozark Fire Protection District
1767 Bagnell Dam Blvd
Lake Ozark, MO 65065
573.365.3202

Osage Beach Fire Protection District
1170 Bluff Drive
Osage Beach, MO 65065
573.348.1221

Village of Four Seasons
133 Cherokee Road
Four Seasons, MO 65049
573.365.3833

Mid-County Fire Protection District
184 N. Hwy 5
Camdenton, MO 65020
573.346.2049

Rocky Mount Fire Protection District
20401 Brendel Blvd
Rocky Mount, MO 65072
573.392.4301



Shoreline Management Office

P.O. Box 993
1028 Bagnell Dam Blvd.
Lake Ozark, MO 65049

573.365.9203
AmerenMissouri.com/lake

