

CITY OF CAMDENTON  
OFFICE OF THE BUILDING OFFICIAL  
Dock Permit Application

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ START DATE FOR ELECTRIC SERVICE: \_\_\_\_/\_\_\_\_/\_\_\_\_

AMEREN UE PERMIT #: \_\_\_\_\_

PERSON MAKING APPLICATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_ ZIP CODE: \_\_\_\_\_ PHONE: \_\_\_\_\_

ADDRESS OF DOCK SITE: \_\_\_\_\_

OWNER OF PROPERTY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_ ZIP CODE: \_\_\_\_\_ PHONE: \_\_\_\_\_

PROPOSED USE FOR DOCK: \_\_\_\_\_ DOCK: New [ ]  
Used [ ]

NUMBER OF WELLS: \_\_\_\_\_ ROOF: \_\_\_\_\_ ENCLOSED BUILDING ON DOCK: \_\_\_\_\_

ELECTRICAL SERVICE: \_\_\_\_\_ AMPS

DOCK DIMENSIONS: Width: \_\_\_\_\_ ft. Length: \_\_\_\_\_ ft. Height: \_\_\_\_\_ ft.

TOTAL SQUARE FEET: \_\_\_\_\_ TOTAL COST OF DOCK: \_\_\_\_\_

ZONING DISTRICT: \_\_\_\_\_

DOCK ELECTRICIAN: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_ ZIP CODE: \_\_\_\_\_ PHONE: \_\_\_\_\_

Is the Dock Electrician a Missouri Business  YES  NO If no, a dock permit can not be issued until the City receives a "Transient Employee Tax Clearance" through the Department of Revenue (packet available).

I hereby certify that the proposed work will abide by all applicable electric codes and fire prevention codes enforced by the City of Camdenton and have been authorized by the owner of record to make this application as their authorized agent.

\_\_\_\_\_  
Signature of Agent or Owner

\*\*\*\*\*DO NOT WRITE BELOW THIS LINE\*\*\*\*\*

APPLICATION APPROVED:  YES  NO (If not, indicate reason below)

ZONING:  YES  NO

CONSTRUCTION TYPE:  YES  NO

OTHER: \_\_\_\_\_

BY: \_\_\_\_\_ DATE \_\_\_\_\_

# Dock Inspection Fee Schedule

Every dock will be inspected and assessed individually.

## Fee Schedule (minimum fee of \$50.00)

Docks containing 1-4 wells / slips -----\$50.00

Docks with 5 or more wells / slips-----\$50.00+\$6.00per well

(example: a community dock containing 8 slips would be charged \$74.00)

This fee covers one inspection and a re-inspection. Any additional inspections needed will require a \$25.00 re-inspection fee.

The following items are needed prior to a dock inspection.

The following items are needed when submitting plans for a dock inspection.

- \* One sets of dock plans drawn to scale.
- \* Plans shall include at a minimum:
  - o Name and address of the dock
  - o Dimensions of the entire dock including the wells
  - o Ramp length and width
  - o Enclosed buildings on dock (if applicable)
- \* Electrician name, address and phone that wired the dock (if applicable)
- \* Dock Company name, address and phone that built the dock (if applicable)
- \* Permit fee paid as stated on the inspection fee schedule

## PRIVATE BOAT DOCKS Lake of the Ozarks Area

### Expanded Electrical Installation:

Guidelines and requirements for private (non-commercial) docking facilities occupied for use by the owner or resident of an associated single-family dwelling.

Contact the City of Camdenon Building Department for an inspection within 7 days of supplying power to the dock.

All electrical installations shall be in compliance with the 2005 National Electrical Code and as amended by the following guidelines and requirements under **City Codes Section 500.030 (H)**

- All conductors shall be insulated copper conductors approved for the conditions of use.
- Each docking facility requiring electricity shall be supplied by only one (1) set of feeder conductors from the residential house panel. One (1) single branch circuit can serve as a feeder conductor if it is connected to a feed through module GFI disconnecting means.
- Overcurrent device(s) or disconnecting means designed to disconnect all electrical power supplying the docking facility shall be located onshore and within six (6) feet of the docking facility ramp it serves. **Reference #5**
- A grounding electrode (in compliance with NEC 250.52, 250.53, 250.56) shall be installed at the onshore overcurrent device(s) or disconnecting means. **Reference #7, 8 and 9**
- An insulated grounding electrode conductor (sized in compliance with NEC 250.66, but not smaller than #6 AWG) shall be installed connecting the grounding electrode to the equipment grounding terminal at each onshore sub-panel or disconnecting means enclosures. **Reference #7, 8, and 9**
- An insulated equipment-grounding conductor (sized in compliance with NEC 250.122, but not smaller than #12 AWG) shall be installed inside all conduit systems with the circuit conductors. **Reference #1 and 6**
- Insulated equipment grounding conductors shall be installed in compliance with NEC 250.24-250.32(A) - 250.32(B)(1). **Reference #1 and 6**
- All conductors (Feeder and Branch Circuit) shall be sized for the overcurrent device protecting the conductors and shall be sized to not allow more than a 3% voltage-drop as recommended in NEC 215.4 FPN 2 - 210.19 FPN 4. **Reference #1**
- Conduits, boxes and fittings approved for the condition of use, shall protect all feeder and branch-circuit conductors. **Reference #1, 2, 3 and 4**
- All underground conduit systems shall be approved for the condition of use and shall comply with NEC 300.5(A), (B), (D)(4), and (F). (*Minimum covering requirements*) **Reference #1, 3 and 4**

- All conduits shall be sized in compliance with NEC Chapter 9 Tables 1,4 and 5. Where conductors are all of the same size and type, Annex C shall be permitted for sizing of conduits. **Reference #3**
- Liquid tight Flexible Metal Conduit (with grounding bushings) or Liquidtight Flexible Nonmetallic Conduit with approved fittings shall be permitted where flexibility is required in a conduit system such as hinge points of ramps and floating structures subject to elevation changes due to the change in water levels. **Reference #3 and 27**
- All non-current carrying metal parts of the docking facility such as metal piping, metal equipment enclosures, metal frames of the structure and ramps, metal swim ladders and other metals in contact with the water or may become electrically energized shall be electrically bonded to the equipment grounding system. **Reference #10, 11, 12 and 13**
- A bonding jumper (sized in compliance with NEC 250.66 but not smaller than #6 AWG) shall be installed from the grounding electrode on shore to the metal parts of ramps leading to a floating structure. **Reference #10**
- A bonding jumper with a loop (sized in compliance with NEC 250.66 but not smaller than #6 AWG) shall be installed around all hinge points of metal ramps, floating structures, and docks subject to elevation changes due to the changes in the water levels. **Reference #11**
- All non-current carrying metallic parts of the electrical system shall be bonded to the equipment grounding system. **Reference #12**
- All receptacle outlets shall be GFCI protected for personnel unless the outlet is for a dedicated purpose and installed in an enclosed area of the structure protected from the weather. **Reference # 14**
- All receptacle outlets and switches shall be installed at least 36 inches above the finished dock surface or as approved by the AHJ. **Reference #15**
- All "Marine Shore power Outlets" shall be GFCI protected for personnel with a disconnecting means within 30 inches. **Reference #16**
- All large metallic enclosures, such as panels, cabinets, cutout boxes, etc. installed in wet location areas, shall be installed with a minimum of ¼" air space between the enclosure and the supporting surface they are mounted on. **Reference #18**
- All electrical equipment installed within 8 feet vertically from the dock finish surface or exposed to the weather shall be suitable for use in wet locations and shall have weep holes. **Reference #19**
- All electrical equipment installed below roofed open areas, protected from the weather and installed above 8 feet vertically from the dock finish surface shall be suitable for use in damp locations. **Reference #20**

- All general use receptacle outlets shall be installed in weatherproof enclosures with "In Use Type" weatherproof attachment plug covers. **Reference #21**
- All general use switches shall be installed in weatherproof enclosures with weatherproof switch covers. **Reference #22**
- All luminaries (lighting fixtures) installed exposed to the weather shall be suitable for use in wet locations. All luminaries (lighting fixtures) installed where protected from the weather shall be suitable for use in damp locations. **Reference #23**
- All electrical equipment such as receptacle outlets, switches, junction boxes, lighting fixtures, etc. shall not be installed within 6 feet of any ladders attached to the docking facility. **Reference #24**
- All metal ladders permanently attached to the docking facility shall be bonded to the equipment grounding system. **Reference #25**
- All metal ladders not permanently attached to the docking facility shall have means for bonding to the equipment grounding system. **Reference # 26**
- All conductors from the shore to the docking facility shall be protected from physical damage.  
Conduits shall be approved for the conditions of use. (Weatherproof, Sunlight resistance, etc.) **Reference #27**

Dock Wiring Check Sheet  
National Electric Code  
2005  
And City of Camden  
Codes Section 500.030 H  
Lake of the Ozarks

Notes: 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 **Article 553**, "Floating Buildings" for private dwelling docks.

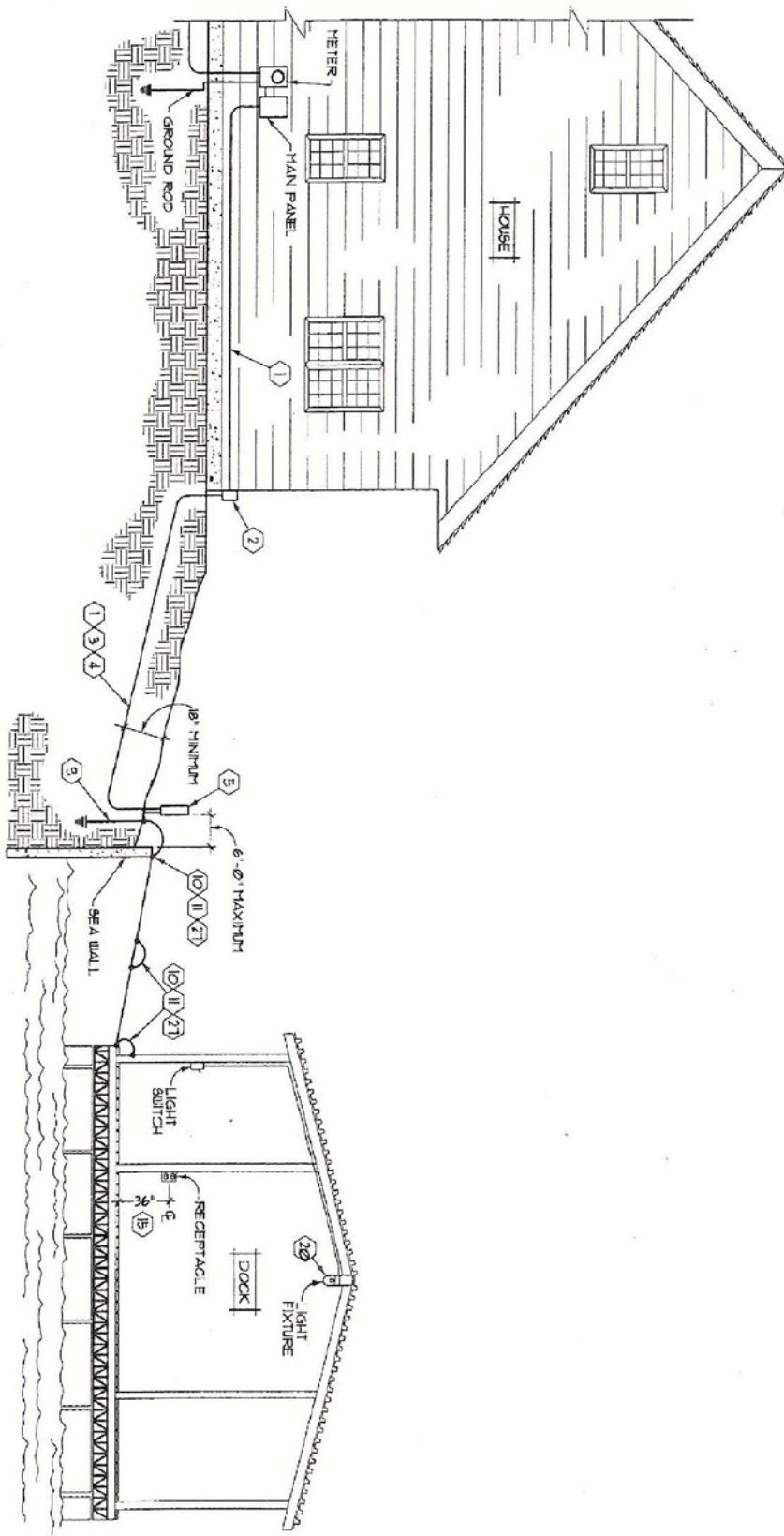
All wiring shall meet **Article 555**, "Marinas and Boatyards" for all other docks. Keep in mind that **Article 553** and **Article 555** have been altered with deletions and insertions per **City of Camden Codes Section 500.030 (H)**.

**Contact the City of Camden Building Department for an inspection within 7 days of supplying power to the dock.**

Check Sheet Reference:

1. Feeder from the main panel to sub panel shall be four wires and sized for the load.
2. Junction box on the outside of the building serving the dock shall be weatherproof.
3. The conduit from the J-box to the dock sub-panel or disconnect shall be sized for the conductors.
4. Conduit that is buried from the building to the sub-panel shall be schedule 40 PVC for underground use.
5. The sub-panel shall be at the seawall next to the dock ramp and shall have a disconnecting means.
6. All grounding conductors shall have continuous outer finish that is green.
7. The grounding conductors shall be connected to the grounding bus in the sub-panel and to the ground rod.
8. The grounding conductor shall be sized correctly for the circuit (minimum #6).
9. A grounding electrode shall be in place. (At least 8 feet long and trade size of 1/2").
10. # 6 grounding wire from the ground rod to the metal parts of the ramp.
11. # 6 grounding wire jumper shall be installed between all pivot points in the ramp and dock.
12. All metal enclosure and exposed metal parts of the electrical system shall be bonded to the grounding bus.
13. All metal parts, metal piping and all non-current carrying metal parts must be bonded to the panel board.
14. All outlet receptacles shall be GFCI protected unless the outlet is a dedicated outlet in an enclosed structure.
15. All general use outlet receptacles shall be a minimum 36 inches from the finished dock surface.
16. All outlets dedicated for a piece of equipment shall be of the Marine Twist Lock type and GFCI protected.
17. All GFCI outlets shall work when tested.
18. All cabinets and cutout boxes shall be a minimum of 1/4 inch of airspace between the enclosure and supporting surface.
19. All enclosures below 8 feet shall be in weatherproof enclosures. Suitable for wet locations with allowable weep holes.
20. All fixtures above 8 feet and below a roof or overhang shall be suitable for damp locations.

21. All general use receptacles shall have an attachment plug cover ("in use" type).
22. All switches shall be in weatherproof enclosures or cabinets.
23. All luminaries shall be marked "suitable for wet locations".
24. Receptacles, switch boxes and junction boxes shall not be within 6 feet of a ladder for the dock.
25. Any metal ladder attached to the dock shall have a grounding wire connected to the grounding bus or grounding electrode.
26. A detachable ladder needs to have specs showing that it is bendable.
27. 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.



**ELECTRICAL WIRING FOR RESIDENTIAL DOCK**  
 NO SCALE