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MOBILE COUNTY PUBLIC WORKS

Mobile County Electrical/Energy Inspections

Effective May 1st, 2014 Residential Electrical Wiring

Rough-In Electrical Inspections

1. Outlet boxes, switch boxes and junction boxes are installed with all electrical wiring run to boxes. Make grounding pigtails and splices but do not install fixtures, switches, receptacles, or circuit breakers. Identify GFCI and small appliance branch circuits. Nail guards may be required. **Range hoods must be on an individual branch circuit if plug and cord connected. Subpanels need to be on an interior wall or installed so that an air barrier of R13 is behind it or install an air-sealed box.**
2. Branch circuit grounding conductors shall be properly terminated in subpanels.
3. All wiring from the service panel location to subpanels and any equipment i.e. (water heaters, condensing unit, air handlers with the electric heat, cooking appliances, electric dryers) that are fed from the service panel.
4. Smoke detector/**Carbon monoxide detector** boxes and their wiring to ensure that they are interconnected and installed at proper locations.
5. **Ceiling boxes must be of the fan rated type if wired with a separate switch, or if a spare ungrounded conductor is provided.**
6. **Neutrals are now required at switch outlets unless the framing cavity is open at top or bottom on the same floor level or through a wall that is unfinished on one side. This includes 3way and 4way switches.**
7. **Sealing of all building envelope penetrations. Must be done for Rough-In Energy Inspection to pass. (Any penetrations through the top and/or bottom plates, ceiling boxes and exterior wall. Unless building is spray foamed insulation.)**
8. **All recessed light fixtures installed in building envelope must be IC rated and "Airtight" rated.**

Electrical Energy Inspections

1. **Insure that ceiling boxes are sealed to the sheetrock prior to fixtures installed.**

Final Electrical Inspections

1. All devices, light fixtures, appliances, and equipment must be installed with the wiring connected.
2. Box extenders may be required where boxes are set back in the wall more than ¼ inch.
3. Smoke Detectors/**Carbon Monoxide Detectors** installed where required.
4. Correctly sized **Combination** AFCI circuit breakers installed where required.
5. Correctly sized GFCI circuit breakers installed where required.
6. All correctly sized circuit breakers installed in service panel. Circuit breakers in service panels and subpanels labeled and identified in directory.
7. **Tamper resistant and/or** GFCI receptacles where required. (Inside)
8. **Weather resistant and Tamper resistant** GFCI receptacles installed where required. (Outside)
9. In-use covers for outdoor receptacles where required.
10. **An "Intersystem Bonding Bridge" is required and an "additional" ground rod may be required.**
11. Connection of slab bonding conductor.
12. **All recess light fixtures and ceiling boxes must be sealed with a gasket or caulked to the interior wall or ceiling covering. Opening sin ceiling boxes must also be sealed.**
13. **50% of the permanent lighting fixtures must contain high efficiency lamps.**