



BUILDING DEPARTMENT

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ELECTRICAL REQUIREMENTS – ORDINANCE 09-996

- All electric service for new residences shall be a minimum 100 amp, three-wire service. Electrical service shall be increased to a minimum 100 amp service with provisions for 16 standard size breakers, either when the original service drop or meter is relocated or when an addition or additions is made to a residence which is supplied with less than 100 ampere, three-wire service.
- All services shall have an approved secondary ground.
- All circuits shall be identified on the panel directory.
- Install all circuits per the 2009 Chicago Electrical Code.
- Bathrooms shall have a GFCI protected receptacle. All kitchen receptacles above countertops must be GFCI type. At least one GFCI receptacle shall be installed in an unfinished basement.
- All receptacles on 15 and 20 amp circuits shall be groundable type.
- All accessible areas, including basements and attic spaces shall be replaced with EMT if any open wire, BX (armored cable), Romex (non-metallic sheathed cable) or other non-approved recessed type wiring exists.
- Closet lights shall be protected by a globe cover or can be of an approved recessed type fixture or enclosed fluorescent fixture.
- The sump pump and ejection pump receptacles shall be a single gang receptacle.
- Water pipe ground shall be installed on the street side of the water meter. The water meter shall be jumpered. It is recommended in the NEC that the water and gas lines be bonded together above the water heater.
- For residential use, the disconnecting means shall be of a type which requires no more than one-hand operation.
- Aluminum and copper-clad aluminum conductors are prohibited.
- Open wiring on insulators is not allowed. Concealed knob and tub wiring is not allowed.
- Romex (nonmetallic sheathed cable) shall not be used with the following exceptions: nonmetallic sheathed cable is acceptable for low current wiring; nonmetallic sheathed cable is acceptable in size number 16 and smaller gauge.
- Garages: All garage wiring shall be installed in rigid conduit, electrical metallic tubing (EMT) or surface metal raceways. Greenfield metal conduit may be used for a flexible connection not exceeding 6' in length. The minimum service amperage is 20 amps. Garages shall be wired and have a minimum of 1 ceiling light and 1 wall receptacle. Two car garages shall have a minimum of 2 ceiling lights (one over each bay) and 2 wall receptacles on opposite walls. All wall receptacles shall be of a grounding type (GFCI) with a single gang receptacle for the overhead garage door opener.
- Garages: Underground conduits shall be heavy wall galvanized threaded conduit of ¾" trade size or PVC provided with heavy wall galvanized threaded conduit of ¾" trade size installed for elbows and above grade. All piping shall be buried no less than 18 inches below finished grade. The trench for the underground must be inspected prior to burial. The portion of conduit above the slab shall be no less than 12 inches above the sill plate.