



CITY OF LAKE STATION
BUILDING DEPARTMENT

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**MINIMUM ELECTRIC CODE REQUIREMENTS FOR
*RESIDENTIAL***

"Re-Wire/Upgrade or Service Changes"

- A. Minimum service size of 100 amps with provisions for minimum of 12 standard size breaker or fuse.
- B. All copper conductors, unless written permission is granted from Electrical Inspector having jurisdiction.
- C. If the main breaker operated up and down, the up position must be on the "ON" position.
- D. Ground the neutral bar in the main panel to metal underground water pipe system & a supplemental grounding electrode.
- E. Supplemental ground may be an 8 foot long section ground rod or equivalent, using a grounding conductor or #8 AWG copper or larger. Grounding conductor conduit must also be bonded to grounding electrode and acorn clamp connected to wire. A bonding jumper around water meter shall be installed.
- F. All circuits must be identified on the panel directory.
- G. Install a separate circuit for the furnace, a separate 20 AMP circuit for the laundry receptacle.
- H. Countertops - Install 2, 20 Ampere circuits for two 20 AMP receptacles in the kitchen located above counters or working area (not behind stoves or refrigerators or other dedicated spaces, with ground fault)
- I. All habitable rooms (living rooms, dining rooms, and bedrooms) shall have a minimum of two (2) duplex receptacles, plus a switched lighting outlet.
- J. All halls & stairways must be illuminated by a switched lighting outlet.
- K. Bathrooms shall have GFI protected receptacles. All bathroom receptacles must be GFI protected & 20 AMPS.
- L. A wall controlled outdoor light, shall be installed at each entrance door.
- M. All receptacles on 15 & 20 AMP circuits must be the grounding type if installed in a grounding system. If an ungrounded system exists (knob & tube) then the receptacle(s) must be of the polarized type.
- N. Equipment bonding jumpers (Green #12 for a 20 AMP circuit & #14 for a 15 AMP circuit) conductor shall be installed on all grounding circuits between the device and flush type boxes, or a self-grounding plug.
- O. All exposed B.X. ROMEX or other open wiring in basements and garages shall be replaced with E.M.T.
- P. All outdoor conduit runs are to be rigid conduit.

- Q. If a garage has an electrical system it shall be in E.M.T. If exposed, have a switched ceiling light, a switched entrance light & a G.F.I. protected general purposed receptacle.
- R. Outdoor Outlets- at least two receptacle outlets accessible at grade level, shall be installed outdoors, and a ground fault is required.
- S. Smoke detectors shall be installed in all sleeping quarters, within twelve inches of the ceiling. All detectors must tied together. (Electric smoke detectors with battery back-up on each level of a dwelling). (See Attached)
- T. Basements - At least one (1) receptacle outlet, in addition to one provided for laundry equipment shall be installed in each basement Ground fault required.
- U. All service conduit shall have grounded bushings between meter and distribution cabinet.
- V. House numbers must be conspicuously posted on the property & provisions made for the inspector to gain entrance or have access to the building which the inspection is to be made.
- W. 3-wire receptacles with ground is needed when there is a 3-wire cord to plug in.

Where the system is not grounded, polarized plugs to be used, *not* the grounded type, or GFI receptacles that is marked "No Equipment Ground".

(Per: 2005 National Electric Code Book, in accordance with state statutes) Note: Section 110-11

NEW WORK: ROOM ADDITIONS: OPEN WALLS • TO BE GOVERNED BY THE 2005 NAT'L ELECTRIC CODE BOOK

LOCATION

-REQUIRED INSIDE AND IN VICINITY OF EVERY SLEEPING AREA,

- ON EACH ADDITIONAL STORY, INCLUDING BASEMENTS AND CELLARS
- CRAWLSPACES AND UNINHABITABLE ATTICS ARE NOT INCLUDED
- ON EACH LEVEL OF SPLIT LEVEL, IF DOOR SEPARATES LEVELS

INSTALLATION

- INSTALLED IN CONFORMANCE WITH THEIR LISTINGS
- HARD-WIRED IN NEW CONSTRUCTION
- INSTALLED THROUGHOUT ENTIRE RESIDENCE WHEN SLEEPING ROOM ADDED OR WHEN ALTERATIONS OR ADDITIONS REQUIRE A PERMIT **HARD WIRED WITH BATTERY BACKUP**
- CONNECTED TO A SOUNDING DEVICE OR OTHER DETECTORS TO PROVIDE, WHEN ACTUATED, AN ALARM WHICH WILL BE AUDIBLE IN ALL SLEEPING AREAS

SMOKE DETECTORS

SECTION 316