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LANCASTER COUNTY
CLERK

BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF LANCASTER COUNTY, NEBRASKA

IN THE MATTER OF ADOPTING	)	
THE 2008 EDITION OF THE	)	RESOLUTION NO. R-10-0051
NATIONAL ELECTRICAL CODE	)	

WHEREAS, Lancaster County, Nebraska, (the "County"), may adopt construction codes by virtue of Neb. Rev. Stat. § 23-172 (Reissue 2007), as amended, which are applicable throughout all of the County except within the jurisdiction of any incorporated city or village, and except within an unincorporated area where a city or village has been granted zoning jurisdiction and is exercising such jurisdiction; and

WHEREAS, the County, pursuant to the Interlocal Cooperation Act, Neb. Rev. Stat. § 13-801 *et seq.* (Reissue 2007), has entered into an agreement with the City of Lincoln (the "City"), providing for enforcement of the County construction codes by the City Codes Administration; and

WHEREAS, one of the provisions of said agreement requires that the County adopt construction codes which have been adopted by the City, in order to provide a uniform code for permit and inspection purposes; and

WHEREAS, the City adopted the National Electrical Code, 2008 Edition, as its Lincoln Electrical Code, with certain amendments and deletions thereto; and

WHEREAS, on July 13, 2010, the Lancaster County Board of Commissioners conducted a public hearing regarding adoption of such construction codes; and

WHEREAS, pursuant to Neb. Rev. Stat. § 23-172, the adoption of any standard code by reference shall be construed to incorporate such amendments thereof as may be made if the copy of such standard code is kept current in the office of the County Clerk.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of Lancaster County that the National Electrical Code (2008 Edition), adopted by the City and attached hereto, including any amendments and deletions thereto, is incorporated in full by this reference and is hereby adopted for use in the County.

BE IT FURTHER RESOLVED that a copy of said Code described herein, be placed on file in the Office of the County Clerk pursuant to Neb. Rev. Stat. § 23-172.

BE IT FURTHER RESOLVED that this Resolution hereby replaces and rescinds County Resolution No. 02-89 and any previously existing Electrical Code.

DATED this 13th day of July, 2010, at the County-City Building, Lincoln, Lancaster County Nebraska.

BY THE BOARD OF COUNTY
COMMISSIONERS OF LANCASTER
COUNTY, NEBRASKA

Bob Shorr

Bernie Heier

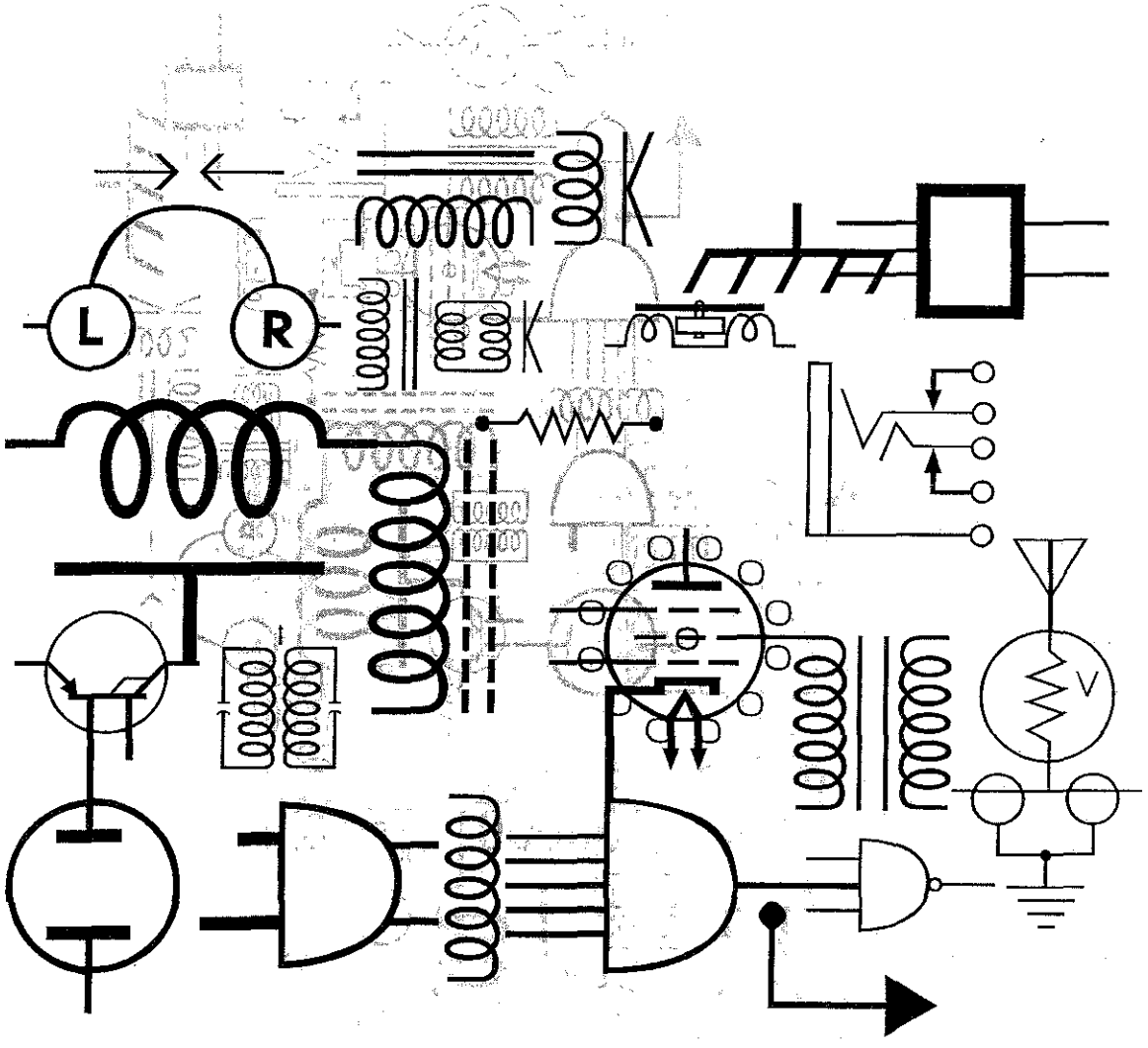
Larry Hudkins

Bob Workman

Gary Stevens

APPROVED AS TO FORM
this 13th day of
July, 2010.

for GARY E. LACEY
County Attorney



ELECTRICAL CODE

EFFECTIVE MARCH 24, 2009

LINCOLN, NEBRASKA

Chapter 23.10

ELECTRICAL CODE

Sections:

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23.10.510	Code Coordination.
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23.10.010 Adoption of the National Electrical Code, 2008 Edition.

Except as hereinafter provided by specific changes, the National Electrical Code (2008 edition), hereinafter the National Electrical Code, sponsored by the National Fire Protection Association under the auspices of the American National Standards Institute is hereby adopted. Three printed copies of this document have been filed in the office of the Director of Building and Safety of the City of Lincoln for the use of and examination by the public. The City Clerk shall maintain one printed copy of this document, in book form, with the official records of the city. (Ord. 19217 §1 March 9, 2009: prior Ord. 18012 §1; June 7, 2002: Ord. 17521 § 1; July 6, 1999: Ord. 17049 §1; August 19, 1996; Ord. 16384 §1; June 14, 1993: Ord. 15580 §1; June 4, 1990: Ord. 14837 §21; February 29, 1988: Ord. 14228 §1; September 30, 1985).

23.10.020 Citation of Code.

This ordinance shall be known as the "Lincoln Electrical Code," and may be cited as such and will be referred to herein as "this code." The word "shall" as used in this ordinance indicates a mandatory rule. (Ord. 14228 §2; September 30, 1985).

23.10.030 Administration.

The Director of Building and Safety, hereinafter designated as "Building Official," or an authorized representative of the Building Official, is hereby authorized and directed to enforce the provisions of this code. (Ord. 15580 §2; June 4, 1990: prior Ord. 14837 §22; February 29, 1988: Ord. 14228 §3; September 30, 1985).

23.10.040 Defective or Improperly Operating Electrical Equipment; Notice to Owner; Discontinuance of Electrical Service.

(a) The Building Official shall examine or cause to be examined any electrical equipment within or on any building or premises reported to be defective or in improper operating condition. If such equipment is found to be defective or in improper operating condition so as to constitute a danger to persons or property, the Building Official shall give to the owner of such building or premises written notice stating the deficiencies found to exist. This notice may require the owner or person having charge or control of such building or premises, within forty-eight hours, to commence work to correct such deficiencies, and all such work shall be completed within ten days from the date of notice, unless otherwise stipulated by the Building Official.

NOTE: As used in this article, "constitute a danger to persons or property" shall mean: In the opinion of the Building Official or an authorized representative of the Building Official, there are code violations or wiring deficiencies which comprise a fire hazard or shock hazard.

(b) Proper service of such notice shall be by personal service upon the owner of record or by certified mail, postage prepaid, return receipt requested to said owner's last known address. The designated period within which said owner or persons having charge or control is required to comply with the order of the Building Official shall begin as of the date said owner receives such notice. In cases where the owner cannot be reached or refuses to reply after the provisions of part (b) have been implemented, the provisions of part (c) shall take precedence.

(c) The Building Official or an authorized representative are hereby vested with the authority to order the discontinuance of electrical service to any building or premises where such deficiencies in electrical equipment have not been corrected within the time specified by such notice. In the case of emergency, the Building Official or an authorized representative are hereby vested with the authority to immediately order the discontinuance of electrical service to any building or

premises where the same is necessary for the protection of persons or property. Existing installations shall not be deemed a deficiency, provided the wiring when originally completed was installed in accordance with the provisions of the electrical code then in force and has been maintained in that condition. (Ord. 15580 §3; June 4, 1990: prior Ord. 14228 §4; September 30, 1985).

23.10.050 Right of Entry.

(a) Whenever necessary to make an inspection to enforce any of the provisions of or perform any duty imposed by this code, or whenever the Building Official or an authorized representative of the Building Official has reasonable cause to believe there exists within or on any building or premises any equipment, as defined in this code, which makes such building or premises dangerous, hazardous, or unsafe for any reason specified in this code, or that work is being done or has been done in violation of this code, including work being done without a permit or work being done by an unlicenced person or persons, then the Building Official or an authorized representative are hereby authorized to enter within or on such building or premises at any reasonable time to inspect the same and perform any duty imposed upon the Building Official by this code; provided, that (1) if such building or premises be occupied, the Building Official or an authorized representative shall first present proper credentials to the occupant and request entry, explaining their reasons therefor, and (2) if such building or premises be unoccupied, the Building Official or an authorized representative shall first make a reasonable effort to locate the owner or other person having charge or control of such building or premises and request entry, explaining their reasons therefor. If such entry is refused or cannot be obtained because the owner or other person having charge or control of such building or premises cannot be found after due diligence, the Building Official or an authorized representative of the Building Official shall have recourse to every remedy provided by law to secure lawful entry and inspect such building or premises.

(b) "Authorized representative" shall mean Department of Building and Safety personnel possessing the requisite knowledge and master electrician's license to perform the duties and discharge the responsibilities of an electrical inspector. (Ord. 15580 §4; June 4, 1990: prior Ord. 14228 §5; September 30, 1985).

23.10.060 Building Official and Authorized Representative Relieved From Personal Liability.

The Building Official or an authorized representative charged with enforcement of this code, when acting in good faith and without malice, are hereby relieved from all personal liability for any damage that may accrue to any person or property as a result of any act required by this code, or by reason of any act or omission of the Building Official or an authorized representative in the discharge of their duties hereunder. Any suit brought against the Building Official or an authorized representative, because of any such act or omission in the enforcement of this code, shall be defended by the City Law Department until final determination of such proceedings. (Ord. 15580 §5; June 4, 1990: prior Ord. 14228 §6; September 30, 1985).

23.10.070 Bypassing Meters.

(a) Any person, firm, or corporation who by-passes the electric meter shall be deemed in violation of this code. Proper metering and overcurrent protection shall be installed immediately or the service entrance conductors shall be disconnected.

(b) It shall be deemed a violation of this code for any person, firm, or corporation to tap any metered conductor of another for the purpose of theft of power.

(c) It shall be unlawful for any seller of electric current to continue to sell electric current to any person, firm, or corporation described in subsection (a) above, unless the required service equipment and meter are installed as provided therein. (Ord. 16384 §2; June 14, 1993: prior Ord. 14228 §7; September 30, 1985).

23.10.080 Severability.

If any section, subsection, paragraph, sentence, clause, phrase, or provision of this ordinance shall be adjudged invalid, or held unconstitutional, the same shall not affect the validity of this ordinance as a whole or any part or provision thereof, other than the part so declared to be invalid or unconstitutional. (Ord. 14228 §8; September 30, 1985).

23.10.090 Penalty.

(a) It shall be unlawful for any person, firm, or corporation upon whom a duty is placed by the provisions of this code to fail or to neglect to comply with the provisions of this code.

(b) Any person, upon whom a duty is placed by the provisions of this code who shall fail, neglect or refuse to perform such duty or who shall violate any of the provisions of this code shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by imprisonment in the county jail for a period not to exceed six months, or by a fine of not to exceed $500.00 recoverable with costs, or both, except that each person so convicted shall be fined in a sum of not less than $200.00 for the first offense, not less than $250.00 for the second offense, and not less than $300.00 for the third offense and each offense thereafter. Each day a violation of any provision of this code continues to exist shall constitute a separate offense. (Ord. 16384 §3; June 14, 1993: prior Ord. 14228 §9; September 30, 1985).

23.10.100 Electrical Advisory, Appeals, and Examining Board; Creation.

There is hereby created an Electrical Advisory, Appeals, and Examining Board which shall consist of six members and shall be referred to herein as the Electrical Board.

Membership on the Electrical Board shall consist of the following:

(a) The Building Official, ex officio;

(b) The Chief Electrical Inspector for the City of Lincoln;

(c) A registered professional engineer who has passed the State of Nebraska engineer's examination and is a representative from industry or business;

(d) A registered professional engineer who has passed the State of Nebraska engineer's examination and is a representative from the Lincoln Electric System;

(e) One registered master electrician residing in the City of Lincoln;

(f) One registered master electrician residing in the City of Lincoln and actively engaged in the electrical contracting business.

The registered professional engineers and the registered master electricians shall be appointed by the Mayor with the concurrence of the City Council for staggered terms of three years each. Vacancies on the board shall be filled by appointment for the unexpired term only. The Chief Electrical Inspector shall be a permanent secretary of the board and shall keep a record of all meetings. (Ord. 15580 §6; June 4, 1990: prior Ord. 14228 §10; September 30, 1985).

23.10.110 Electrical Board; Authority and Duties.

The Electrical Board shall:

(a) Advise the Mayor regarding the determination of the suitability of alternate materials and methods of installation, and the reasonable interpretations of the provisions of this code. The board shall make recommendations to the Mayor at the Mayor's request. The board shall adopt reasonable rules and regulations for conducting its investigations and shall render all recommendations in writing to the Mayor.

(b) Have power and authority to adopt necessary rules and regulations consistent with the provisions of this code for the examination of applicants for registration and suspension or revocation of registration as provided in this code. Any such rules and regulations or amendments thereto shall be approved by the Mayor. The Electrical Board shall determine the minimum qualifications for applicants for registration based upon a point system as part of the rules and regulations and shall determine the nature of the examination to be given applicants for registration.

(c) Have power and authority to hear and determine appeals by any person who is aggrieved by a decision, notice, or order of the Building Official under this code.

(d) Hold an annual meeting on the third Wednesday in February of each year, at which meeting a chairperson shall be elected for the ensuing year.

(e) Hold meetings as required to grade examinations on the third Wednesday in February, May, August, and November of each year.

(f) Hold special meetings upon the call of the chairperson, the Chief Electrical Inspector, or upon a written request signed by two of its members and filed with the secretary. (Ord. 15580 §7; June 4, 1990: prior Ord. 14228 §11; September 30, 1985).

23.10.120 Appeals From Decision, Notice, or Order of Building Official.

(a) Any person who is aggrieved by a decision, notice, or order of the Building Official under this code may appeal such decision to the Electrical Board by filing such appeal within thirty days from the date of such decision. Upon request, the Building Official shall furnish such aggrieved person with an appeal form, which, upon completion and filing within the prescribed time and payment of the prescribed fee, shall be sufficient for the purpose of commencing an appeal proceeding hereunder.

(1) A $20.00 fee for review of a decision of the Building Official interpreting a provision or provisions of this code;

(2) A $40.00 fee for review of a decision of the Building Official concerning the suitability of alternate materials or types of installation.

(b) The Building Official shall refer all properly and timely filed appeals to the Electrical Board for hearing. The secretary of said board shall in each appeal notify the appellant in writing of the date, time, and place of hearing before the board, which date shall be no later than thirty days from the filing of the appeal. Such notice shall be served upon the appellant by personal service or registered mail.

(c) Hearings on appeal need not be conducted according to technical rules relating to evidence and witnesses. Oral evidence shall be taken only on oath or affirmation. Any relevant evidence shall be admitted if it is the type of evidence upon which responsible persons are accustomed to rely in the conduct of serious affairs, regardless of the existence of any common law or statutory rule which may make improper the admission of such evidence over objection in civil actions in courts of competent jurisdiction in this state. Irrelevant and unduly repetitious evidence

shall be excluded. The appellant, the board members, the Building Official, and any other party to an appeal hereunder shall have these rights, among others:

(1) To call and examine witnesses on any matter relevant to the issues of the hearing:

(2) To introduce documentary and physical evidence;

(3) To cross-examine opposing witnesses on any matter relevant to the issues of the hearing; and

(4) To rebut evidence.

(d) The Electrical Board shall then within a reasonable time after the hearing render a written decision which shall state its findings and conclusions. Decisions of the Electrical Board may be appealed as provided by law.

(e) Enforcement of any decision, notice, or order of the Building Official issued under this code shall be stayed during the pendency of an appeal therefrom which is properly and timely filed, except in cases of emergency, where enforcement of the same is necessary for the protection of persons or property. (Ord. 15580 §8; June 4, 1990: prior Ord. 14228 §12; September 30, 1985).

23.10.130 Scope.

(a) The provisions of this code shall apply within the corporate limits of the City of Lincoln and within three miles thereof according to the following classes:

(1) All electric conductors and equipment installed within or on public and private buildings, structures, and other premises including yards, carnival and parking lots, and industrial substations.

(2) All conductors that connect electrical installations to a supply of electricity, and other outside conductors adjacent to a premises.

(3) All modular manufactured (mobile) homes and travel trailers.

EXCEPTION: The installation during original construction.

(4) All privately owned street or parking lot lighting.

(5) Alternate energy sources.

(6) Fire alarm and emergency systems regardless of operating voltage.

(7) Floating buildings.

(b) The provisions of this code shall not apply to the following:

(1) Installations in ships, watercraft, railway rolling stock, aircraft, or automotive vehicles.

(2) Installations underground in mines.

(3) Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communication purposes.

(4) Installations of communication equipment under exclusive control of communication utilities, located outdoors or in building spaces used exclusively for such installations.

EXCEPTION: The requirements of NEC Article 300.22 shall apply to such wiring.

(5) Installations under the exclusive control of electric utilities for the purpose of communication, or metering, or for the generation, control, transformation, transmission, and distribution of electric energy located in buildings used exclusively by utilities for such purposes or located outdoors on property owned or leased by the utility, or on public highways, streets, roads, or other public ways, or outdoors by established rights on private or public property.

(6) Electrical apparatus used for radio transmission in amateur transmitting stations; however, the provisions of this code shall apply to all electrical equipment used for power supply

to such radio transmitting apparatus. (Ord. 17049 §2; August 19, 1996: prior Ord. 16384 §4; June 14, 1993: Ord. 15580 §9; June 4, 1990: Ord. 14228 §13; September 30, 1985).

23.10.140 Permits Required.

(a) No person, firm, or corporation other than a registered master electrician, journeyman, or apprentice of an electrical contracting company, registered maintenance electricians, or homeowners under certain conditions set forth in Section 23.10.160 shall install, alter, or add to any electrical equipment, and no such installation, alteration or addition shall be made without first obtaining a permit therefor from the Building Official. Permits may be issued only to registered master electricians, registered maintenance electricians, and homeowners in accordance with Section 23.10.160.

EXCEPTION: Licensed State of Nebraska fire alarm installers registered with the City of Lincoln may be issued permits for the installation of the low voltage portion of fire alarm systems.

(b) No permit, license, or registration shall be required to execute any of the classes of electrical work as follows:

(1) Routine maintenance requiring the repair or replacement of existing electrical apparatus and equipment of the same size and type for which no changes in wiring are made. The replacement of permanently wired fixed-in-place appliances including, but not limited to, furnaces, air conditioners, garbage disposals, dishwashers and water heaters shall not be considered as routine maintenance and shall be subject to permit requirements.

(2) The installation, alteration, or repair of electrical equipment for the operation of signals or the transmission of intelligence by wire.

EXCEPTION: The requirements of Article NEC 300.22 shall apply to such wiring.

(3) The installation, alteration, or repair of electrical equipment installed by or for an electricity supply agency for the use of such agency in the generation, transmission, distribution, or metering of electricity.

(4) Installation, alteration, or repair made to electrical equipment, where such equipment operates at a voltage not exceeding fifty volts, except emergency alarm systems and other installations specifically referred to in this code. Regardless of operating voltage, all conductors of any system shall comply with the requirements of NEC Article 300.22. This shall not be construed as preemption of National Electrical Code Requirements for low voltage systems such as those found in NEC Articles 411, 480, and Chapters 5, 6, 7, and 8.

(5) Repairs made by and within the authority granted to the holders of maintenance registrations as provided in this code.

(6) Any work involved in the manufacture, test, or repair of electrical materials, devices, appliances, or apparatus, but not including any permanent wiring other than that required for testing purposes.

(7) Repair or replacement of motors on fixed approved appliances of the same type and rating in the same location.

(8) The adjustment, repair, or maintenance of appliances designed to consume natural or artificial gas, fuel oils, or coal; provided, this exception shall not permit the replacement of an existing motor with one of a different rating.

The exceptions enumerated above shall not be construed to exempt any person, firm, or corporation from compliance with the standards prescribed by this code for the installation of electrical equipment, or from inspection as provided herein.

(c) Electrical equipment installed and/or connected to a source of electrical power by a nonregistered person or a registered person or homeowner without a permit, or causing a registered or nonregistered person to install and/or connect electrical equipment to a source of electrical power in violation of the provisions of the ordinance shall constitute a violation of this code and be subject to the penalty of Section 23.10.090 of this code. (Ord. 19217 §2; March 9, 2009: prior Ord. 17049 §3; August 19, 1996: Ord. 15580 §10; June 4, 1990: Ord. 14228 §14; September 30, 1985).

23.10.150 Issuance of Permit.

Applications for permits to install, alter, or add to electrical equipment shall be on forms furnished for that purpose by the Building Official and shall contain all information necessary to the lawful enforcement of the provisions of this code. Each application shall be accompanied by such plans and specifications as are required by the Building Official to determine that the work proposed conforms to the requirements of this code. The approval of any plans and/or specifications shall not be construed to sanction any violation of this code.

When the Building Official determines that the information on an application is in conformance with this code, the Building Official shall issue a permit upon receipt of the permit fees hereinafter prescribed. No permittee shall deviate materially from any approved plans or specifications or fail, neglect, or refuse to comply therewith, unless permission to do so has been obtained from the Building Official or an authorized representative.

The issuance of a permit based upon plans and specifications shall not prevent the Building Official from thereafter requiring the correction of errors in said plans and specifications or preventing the initiation or continuance of work thereunder when in violation of this code or any other ordinance. (Ord. 17049 §4; August 19, 1996: prior Ord. 15580 §11; June 4, 1990: Ord. 14228 §15; September 30, 1985).

23.10.160 Installation by Homeowner.

Individuals may install electrical branch circuit and feeder wiring only in a stand alone detached single family dwelling which they own and occupy as their principal residence. All electrical wiring installed by homeowners shall be for themselves, without compensation or pay from or to any other person for such labor or installation. Such installation by a homeowner shall comply with the requirements of this code, and the homeowner in exercising this privilege shall not constitute or be considered as an electrical contractor. The homeowner shall be required to file plans, demonstrate knowledge of code requirements, apply for and secure a permit, pay the required permit fees, and call for all inspections in the manner provided by this code.

The Department of Building and Safety may deny the issuance of electrical permits to homeowners under any one of the following circumstances:

(a) There is reason to believe the proposed electrical work will be done by someone other than the owner;

(b) There is reason to believe the property is or will be sold on the completion of the electrical work. For the purposes of this subsection (b) there is a rebuttable presumption that the property is or will be sold on the completion of the electrical work if the applicant, within the prior five years, has sold his or her home and the electrical work for said home was performed by the applicant under a homeowner's permit.

(c) Previous homeowner electrical permits have not been completed in compliance with this code;

(d) The owner is temporarily residing in the home.

If the homeowner is found to have at any time violated or falsified any of the above items, they shall immediately cease all electrical work, forfeit the homeowner's permit, and obtain a registered electrical contractor to complete the electrical work in compliance with the code.

Appointments for required inspections shall not be made with the exception that inspection requests may be scheduled for a given day. The inspection shall be performed on the day requested by the homeowner. The homeowner, if unable to be present during the normal working hours of a day, shall be required to supply a key or other means of access for the inspection to be performed. Homeowners may be granted one reinspection per permit without reinspection fee charge. Further reinspections will require payment of the reinspection fee provided for in the electrical permit fee schedule. (Ord. 19217 §3; March 9, 2009: prior Ord. 17049 §5; August 19, 1996: Ord. 16384 §5; June 14, 1993: Ord. 15580 §12; June 4, 1990: Ord. 14228 §16; September 30, 1985).

23.10.170 Inspections, Conducted by Building Official.

The Building Official or an authorized representative are hereby authorized to make such inspections and take such action provided by law as may be necessary to enforce the provisions of this code. (Ord. 15580 §13; June 4, 1990: prior Ord. 14228 §17; September 30, 1985).

23.10.180 Inspections, Required.

The installation, alteration, or addition to any electrical equipment for which a permit is required shall be subject to inspections by the Building Official or an authorized representative. (Ord. 15580 §14; June 4, 1990: prior Ord. 14228 §18; September 30, 1985).

23.10.190 Inspections, Request for.

Inspections of the installation, alteration, repair, or addition to electrical equipment under the provisions of this code shall be requested by the person, firm, corporation or authorized representative holding the permit for such work. The Building Official may require that every request for inspection be filed at least one working day before the inspection is desired. Such request may be in writing, by electronic transmission, or by telephone, at the option of the Building Official. Requests for inspection must include the permit number, electrical contractor name, address and suite number, if applicable, and means of access. Appointments for required inspections shall not be made with the exception that inspection requests may be scheduled for a given day. It shall be the duty of the person requesting inspection of electrical equipment to provide access to and a means for proper inspection of such equipment. The person requesting final inspection shall determine that the electrical equipment is operational before requesting such final inspection. In the event that the registered master electrician or registered maintenance electrician, identified under Section 23.10.140 as authorized to take out a permit, is intending for the owner of the property to request a final inspection, said registered master electrician or registered maintenance electrician shall provide the owner of the property with information on requesting a city inspection. The owner of the property shall have the duty of requesting the final inspection and providing access and a means for proper inspection. (Ord. 19217 §4; March 9, 2009: prior Ord. 18012 §2; June 17, 2002: Ord. 17521 § 2; July 6, 1999: Ord. 16384 §6; June 14, 1993: Ord. 15580 §15; June 4, 1990: Ord. 14228 §19; September 30, 1985).

23.10.195 Inspections, Procedures.

Pursuant to Section 23.10.170:

(a) No portion of any electrical equipment intended to be concealed by any permanent portion of a building including thermal insulation shall be concealed until inspected and/or approved by the Building Official. When the installation, alteration, or addition to any electrical equipment is complete, a final inspection shall be made. Failure of the contractor to schedule and request such final inspection shall be reason for withholding the issuance of further permits.

(b) When the electrical inspector finds an installation to not be in compliance with this code, the inspector shall issue a correction order. The correction order shall be issued to the person, firm, or corporation holding the permit for the work. The order shall specify a date, not more than fifteen calendar days from the date of the order, when a final inspection shall be made. If required corrections have not been completed, or access to complete the inspection has not been provided, a reinspection fee shall be levied and arrangements shall be made to complete the work. If at the time of final inspection the installation has not been brought into compliance, a disconnection order may be issued by the Building Official.

(c) The requirements of this section shall not be considered to prohibit the temporary use of electrical energy for electric wiring, before final approval thereof when so authorized by the Building Official and with such restrictions upon such temporary use as may be necessary to ensure safety, secure compliance with all other provisions of this code, and facilitate inspection.

A meter installed in the regular meter socket and left unsealed shall be considered a temporary use of electrical energy under this section.

The temporary use of electrical energy may be ordered discontinued and the supply disconnected upon notice to the user by the Building Official. No temporary use of electrical energy shall be permitted in any case where a hazard to persons or property would be created.

(d) A final inspection certificate of approval may, upon notice, be revoked by the Building Official if it is found that the electrical equipment fails in any respect to comply with the requirements of this code, or that the installation is unsafe to persons or property. Corrections not made and approved by the Building Official in the allotted time shall be grounds for withholding further permits until corrections are made and approved by the Building Official. (Ord. 17049 §6; August 19, 1996: prior Ord. 16384 §7; June 14, 1993: Ord. 15580 §16; June 4, 1990).

23.10.200 Registration of City and State Electricians of All Classes.

(a) No person, firm, or corporation shall install, alter, or add to any electrical equipment, except such installations as are described in Section 23.10.160 within the corporate limits of the City of Lincoln and three miles thereof without first being registered to do so as hereinafter provided. Work done by employees of and for the holders of maintenance registrations pursuant and within the scope of work permitted by such registration shall be deemed to be in compliance with this section.

(b) Application for registration as a City licensed master electrician, journeyman electrician, maintenance electrician, or electrician's apprentice shall be made to the Building Official on a form furnished by the Building Official for such purpose. Such form shall require the name, address, and telephone number of the applicant, a statement of the practical experience of the applicant, and such other relevant information as may be required by the Building Official.

(c) Persons holding State of Nebraska Class A or State of Nebraska equivalent Electrical Contractor Licenses, Master Electrician Licenses, Journeyman Electrician Licenses, State Apprentice Licenses, or State Fire Alarm Installer Licenses shall register their state license either

annually or biennially and submit the insurance certificate herein required annually with the Building Official before performing any electrical work covered by this code. No electrical permits shall be issued to any state license holder until such registration and insurance certificate are approved. A registration fee in accordance with the combined fee and price schedule shall accompany all applications for registration. State electrical licenses, except those five mentioned above, will not be recognized by the City of Lincoln as being in compliance with this code. City registrations of State licenses shall expire (1) when the State license expires, or (2) when the twelve month term of registry is over, whichever comes first. This expiration date shall be recorded on the State license.

(d) Automatic registration. Any master electrician, State Class A license holder, journeyman electrician, maintenance electrician, electrician's apprentice, or state fire alarm installer duly registered at the time of the adoption of this code shall be automatically registered in the same classification under the provisions of this code, without further examination. Approved documentation of six contact hours of continuing education per year shall be presented to renew all registrations other than apprentice.

(e) A valid registration or license of one or more of the classifications listed above shall be carried at all times while work is being executed. Any person checked and found to not be in possession of such license shall be deemed in violation of this code, and shall immediately cease work and obtain said license prior to engaging in further electrical installation.

(f) Registered electrical contractors may employ or supervise, or provide journeyman supervision for apprentice electricians at a ratio not to exceed three apprentice electricians to one licensee. (Ord. 17521 § 3; July 6, 1999: prior Ord. 17049 §7; August 19, 1996: Ord. 16384 §8; June 14, 1993: Ord. 15580 §17; June 4, 1990: Ord. 14228 §20; September 30, 1985).

23.10.210 Examination for City Registration.

Before a registration certificate shall be issued, the applicants shall be required to submit to and pass a written examination to determine their qualifications and fitness for executing the class of work covered by the registration for which application is made. Such examination shall be given under the direction of the Electrical Board. (Ord. 17521 § 4; July 6, 1999: prior Ord. 15580 §18; June 4, 1990: Ord. 14228 §21; September 30, 1985).

23.10.220 Examination and Registration Fees.

Each applicant for a City electrical examination of any class shall pay an examination fee of fifty dollars.

Upon initial issuance or subsequent annual renewal of a city registration certificate, a registration fee shall be paid as follows:

Master electrician registration fee	$ 60.00
State Fire Alarm Installer registration fee	$ 60.00
Journeyman electrician registration fee	$ 20.00
Maintenance electrician registration fee	$100.00
Electrician's apprentice registration fee	$ 12.00

(Ord. 17079 §1; October 21, 1996: prior Ord. 17049 §8; August 19, 1996: Ord. 16384 §9; June 14, 1993: Ord. 15580 §19; June 4, 1990: Ord. 14228 §22; September 30, 1985).

23.10.230 Classification of City Registrations.

There shall be five classes of city registrations, as follows:

(a) A **master** electrician is hereby defined to be any person skilled in the planning, superintending, and practical installation of electrical equipment as defined in this code and who is familiar with the ordinances and regulations governing the same, and who is competent to install, repair, or alter electrical equipment, with the full responsibility of supervision, whether doing such work themselves or employing journeymen electricians and apprentices to assist them.

(b) A **journeyman** electrician is hereby defined to be any person other than a master electrician, a maintenance electrician, or an electrician's apprentice, who is skilled in the practical installation, alteration, or repair of electrical equipment as defined in this code.

(c) A **maintenance** electrician is hereby defined to be a master electrician, a registered professional engineer, or a graduate electrical engineer of an accredited college or university or a journeyman electrician who has passed the maintenance examination who is regularly and permanently employed by any person, firm, or corporation, and is responsible for the installation, alteration, maintenance, and repair of electrical wiring and equipment on premises owned or occupied by such person, firm, or corporation. Such registration shall designate the premises for which it is issued. The application for such registration shall state the name or names of the master electrician, or registered professional engineer, or graduate electrical engineer or journeyman electrician who has passed a maintenance examination, regularly employed as such on a full-time basis by the applicant on the premises for which the registration is requested.

The person so designated in the application for a maintenance registration shall be a regular full-time employee of the registration holder. No such registration shall be sold, transferred, loaned, or allowed to be used by anyone other than its holder. No such registration shall entitle the holder or any employee of the holder to act under such registration as an electrical contractor, or to perform any of the operations, electrical work, or construction permitted under such registration for anyone other than the registration holder. Such registration shall permit its holder to make installations, alterations, repairs, or additions only in buildings existing on the premises designated in such registration at the time of the application therefor. Such installations, alterations, repairs, or additions shall be performed under the supervision of the person designated in such application, and permits for work as described in Sections 23.10.130 and 23.10.140 shall be required.

(d) An **electrician's apprentice** is hereby defined to be any person other than a master electrician, a journeyman electrician or maintenance electrician, who, as such person's principal occupation, is engaged in learning and assisting in the installation, alteration, and repair of electrical equipment as an employee of a master electrician.

It shall be unlawful for any person to work as an electrician's apprentice without first obtaining an electrician's apprentice registration. Such registration shall entitle the holders thereof to act as an electrician's apprentice to a registered master electrician or journeyman electrician; provided, that at all times their work under such registration is under the direct supervision and control and in the immediate presence of said master electrician or journeyman electrician. Such registration shall be issued for a period of one year and may be renewed annually upon compliance with the same terms and conditions as prescribed herein for securing an original registration.

Any electrician's apprentice who shall install, alter, or repair electrical equipment other than under the direct supervision and control and in the immediate presence of a registered master electrician or journeyman electrician shall be deemed in violation of the provisions of this code.

Any registered master electrician or journeyman electrician hereunder who shall permit or cause an electrician's apprentice to install, alter, or repair electrical equipment other than as provided herein, shall be deemed in violation of the provisions of this code.

(e) A registered **state fire alarm installer** is any person licensed by the state as a fire alarm installer and registered with the City of Lincoln pursuant to Section 23.10.200(c). State fire alarm installers shall be allowed to install the low potential (less than fifty volts) portion, including detectors, of fire alarm systems only. Conductors and equipment operating at a potential of greater than fifty volts shall be installed only by a registered electrician.

No license or registration of lesser grade, or issued by jurisdictions other than those enumerated in Sections 23.10.200(c) and 23.10.230, shall be considered valid in the City of Lincoln's jurisdiction. (Ord. 17049 §9; August 19, 1996: prior Ord. 16384 §10; June 14, 1993: Ord. 15580 §20; June 4, 1990: Ord. 14228 §23; September 30, 1985).

23.10.240 Renewal of Registration.

All registrations provided by this code shall expire one year after the date of issuance, with the exception of state licenses, which may be registered for a two-year period concurrent with the license expiration. Registrations at the time of their expiration may be renewed for the succeeding year without an examination upon payment of the registration fee provided in Section 23.10.220. Registered master electricians or journeyman electricians who do not renew their registrations within a period of three months from the date of expiration of the same shall be required to submit and pass a written examination for the appropriate registration and shall pay the examination fee required therefor. (Ord. 17049 §10; August 19, 1996: prior Ord. 16384 §11; June 14, 1993: Ord. 14228 §24; September 30, 1985).

23.10.250 Registration to be Used Only by Holder.

Any registered electrician of any class herein provided who allows his or her name to be used by another person, firm, or corporation, directly or indirectly, either to obtain a permit, or to install, alter, or add to any electrical equipment shall be deemed in violation of this code. (Ord. 17049 §11; August 19, 1996: prior Ord. 15580 §21; June 4, 1990: Ord. 14228 §25; September 30, 1985).

23.10.260 Suspension or Revocation of Registration.

The Electrical Board, upon the recommendation of the Building Official and after conducting a hearing as herein provided, shall have the power to suspend or revoke any registration of any class of registered electrician hereunder if the same was obtained by error or fraud, or if the holder thereof is shown to be no longer qualified, or if such holder fails to comply with the provisions of this code.

Where the Building Official has recommended suspension or revocation of a registered electrician's certificate of registration, the Building Official shall cause written notice to be served upon the registered electrician whose registration has been recommended for suspension or revocation, setting forth the time and place for a public hearing thereon. Such written notice shall be served by certified mail or registered mail to the registrant's last known business address. At such hearing, the Electrical Board shall hear all parties concerned and afford them the following rights, among others:

(a) To call and examine witnesses on any matter relevant to the issues of the hearing;

(b) To introduce documentary and physical evidence;

(c) To cross-examine opposing witnesses on any matter relevant to the issues of the hearing; and

(d) To rebut the evidence against him or her.

The electrical board shall then within a reasonable time after the hearing render a written decision, setting forth its findings and conclusions. If a certificate is revoked, the holder of the same shall not apply for a new registration until one year after the date of such revocation. Decisions of the Electrical Board are final unless appealed as provided by law. (Ord. 14228 §26; September 30, 1985).

23.10.270 Certificates of Insurance; Master Electrician and State Fire Alarm Installer.

Before any master electrician or fire alarm installer as defined herein may be issued a permit to install, alter, or add to electrical equipment hereunder, such master electrician or fire alarm installer shall be required to:

(a) At all times maintain public liability insurance coverage for all claims arising out of all work in the City of Lincoln and within three miles of the corporate limits thereof done by or under the supervision of the master electrician or fire alarm installer under the provisions of this code. Such insurance shall be in the form of a commercial or comprehensive general liability policy, or an acceptable substitute policy form as permitted by the City Attorney, with a minimum combined single limit of $500,000.00 aggregate for any one occurrence on any job for which a permit is required under this code, provided the City of Lincoln shall be named an additional insured thereunder. The coverages required herein shall be subject to review and approval by the City Attorney for conformance with the provisions of this section.

(b) At all times keep on file with the Building Official a current certificate of insurance signed by a qualified agent of an insurance company licensed to do business in the State of Nebraska and approved by the City Attorney for conformance with the provisions of this section evidencing the existence of valid and effective policies of insurance naming the city as an additional insured for the coverage required by subsection (a) of this section, the limits of each policy, the policy number, the name of the insurer, the effective date and expiration date of each policy, the deductibles or self-insurance retainers of each policy, and a copy of an endorsement placed on each policy requiring thirty days notice by mail to the Building Official before the insurer may cancel the policy for any reason, and upon request of the Building Official or the City Attorney, a copy of any endorsements placed on such policies or the declarations page of such policies.

Separate certificates of insurance showing the master electrician or fire alarm installer to be covered under one policy and the city to be covered under another policy may be deposited in lieu of a single certificate, at the option of the master electrician or fire alarm installer. All certificates of insurance shall provide that in the event of expiration or cancellation of any of said minimum insurance requirements, the Building Official of the City of Lincoln, Nebraska, shall be given at least thirty days advance written notice thereof. Any termination, reduction, or lapse of such insurance coverage shall automatically terminate the master electrician's or fire alarm installer's privilege to be issued permits under the provisions of this code, unless other insurance meeting the requirements of this section is provided and in full force and effect at the time of such expiration or cancellation. (Ord. 15930 §3; July 29, 1991: prior Ord. 15580 §22; June 4, 1990: Ord. 14228 §27; September 30, 1985).

23.10.280 Wiring of Temporary Construction Walkways.

Temporary construction walkways shall be wired in metallic or nonmetallic conduit, except wood constructed temporary walkways may be wired with nonmetallic sheath cable or electrical

nonmetallic tubing when the wiring will be concealed within the walls and ceiling of the structure. (Ord. 15580 §23; June 4, 1990: prior Ord. 14228 §28; September 30, 1985).

23.10.290 Wiring Methods.

(a) Approved metallic conduit, nonmetallic conduit, electric nonmetallic tubing, manufactured wiring systems specifically approved by the authority having jurisdiction, and approved wireway or cable tray shall be used in the installation of all electrical equipment in or on all other buildings, structures, tents, and premises than those enumerated in subsection (b) of this section. All wiring methods shall be electrically and mechanically continuous and shall incorporate a separate conductor for the purposes of equipment grounding. The above wiring methods shall also be acceptable for those occupancies listed in subsection (b) of this section. Flexible metal conduit may be used for fished-in connections, where flexibility or sound isolation is required and for extensions of approved raceway systems where their installation is not possible because of building requirements. Flexible metal conduit shall not be used as a general wiring method. All flexible metal or liquid-tight flexible metal raceways shall incorporate an equipment grounding conductor. Plastic fiber ducts and strips may be used for surface extensions.

It is the intent of this section to require a substantial, approved raceway system in which conductors may be installed.

EXCEPTION (1): Fire alarm systems of fifty volts or less and installed in accordance with NEC Article 760 shall not be required to be installed in a conduit system, except if required to comply with NEC Article 300.22.

(b) Nonmetallic sheathed cable may be used for the installation of all concealed electrical equipment within the following buildings:

(1) Single-family dwellings;

(2) Private garages which are used in connection with single family dwellings;

(3) Outbuildings used in connection with a private dwelling, such as tool houses, hobby shops, and similar structures;

(4) Buildings now wired with metallic protected wiring which will be used in the future for dwelling purposes only;

(5) Multi-family dwellings (apartment houses) where each dwelling unit within such structure has individual distribution panels located in each unit; however, all feeders or subfeeders to each unit shall be installed in rigid metal conduit, intermediate metal conduit, electrical metallic tubing, or rigid nonmetallic conduit.

EXCEPTION: In existing structures only, service equipment and sub-panels may be located in a common area accessible to all occupants, provided individual dwelling unit home runs are routed in a raceway between the sub-panel and the unit.

A mounted or free standing microwave unit shall not be considered permanent provisions for cooking as required to meet the definition of dwelling unit.

The word "concealed" as used in this section shall mean protected from mechanical injury by being installed between or through holes bored in rafters, studding, floor joists, or being fished in the air voids in masonry walls or partitions of buildings.

(c) Electrical Metallic Tubing (EMT) shall not be used for direct earth burial. Where metallic raceways are installed in direct earth contact they shall incorporate either PVC coating or asphaltum protection.

(d) Branch circuit or feeder conductors No. 6 and smaller where installed within structures shall be copper.

(e) Alternate energy sources: Prior to the installation of any electrical generating equipment, whether or not said equipment is capable of co-generation, plans and specifications for such shall be submitted to and approved by the Building Official and the power supplier. These installations shall not be performed by individuals applying for a permit under Section 23.10.160.

NOTE: Persons wishing to install such equipment should first contact their power supplier and the City of Lincoln Department of Building and Safety.

Two permanent plaques shall be installed, one at the main disconnect for the normal power supply and one at the meter location of the power supplier stating the location of the disconnecting means for the alternate energy source.

(f) For the purpose of conductor continuity the phase, grounded, and grounding conductors shall not be dependent upon device connections such as lamp holders, receptacles, etc.

(g) All electrical equipment located within six feet horizontally, to a maximum of eight feet vertically above a hydromassage bathtub shall be GFCI protected for personnel. All pool, hot tub, and associated equipment shall also have GFCI protection for personnel.

(h) All luminaires installed over tub and shower spaces up to a maximum of eight feet above the bathtub rim or shower threshold shall be GFCI protected for personnel.

(i) Special permission where used by the National Electrical Code shall mean the consent of the authority having jurisdiction.

(j) Enforcement of Section 210.12 of the National Electrical Code shall be congruent with the requirements of the State of Nebraska's Electrical Division. (Ord. 19217 §5; March 9, 2009: prior Ord. 18012 §3; June 17, 2002: Ord. 17049 §12; August 19, 1996: Ord. 16384 §12; June 14, 1993: Ord. 15580 §24; June 4, 1990: Ord. 14228 §29; September 30, 1985).

23.10.300 Services, Disconnects, Sub-feeders and Metering Requirements.

Service disconnecting means shall contain the proper overcurrent devices, connected in series with the service conductors to adequately protect all ungrounded conductors from overload. These disconnects shall have a fault current interrupting rating equal to or greater than the computed available fault current. It shall be the responsibility of the electrical contractor to obtain the value of the fault current available from either the project design engineer or the power supplier. Approved service equipment consisting of fuses or circuit breakers installed in line-meter-fuse sequence shall be used on all installations requiring main fusing of 200 amperes or less and less than 250 volts nominal. The defined utility point for underground residential single family services both temporary and permanent shall be the line side of the meter socket. For overhead single family residential services both temporary and permanent the utility point shall be the utility connection at the service head.

The service disconnect shall be mounted as close to the point of service entrance as possible. Each building or occupancy within a building having a service rated 200 amperes or less shall have one main disconnect. When more than one service or main disconnect is provided, per building or multi-occupancy building, said services or disconnects shall be placed immediately adjacent to each other, unless otherwise specifically authorized by the Building Official, and shall be clearly labeled in a permanent manner as to their voltage characteristics and the area or portion of the building or premises that is being served by each disconnect. If located inside a building, and not mounted on the outside wall directly opposite the point of entrance, the service conductors shall be enclosed in conduit or raceway encased with two inches of concrete, four inches of brick, or eight inches of hollow block or tile from the point of entrance to the service disconnect enclosure.

Liquidtight flexible metal conduit, flexible metal conduit, service entrance cables, liquidtight flexible nonmetallic conduit, and electrical nonmetallic tubing shall not be used as the wiring method for the installation of service entrance conductors.

Service entrance conductors and panel sub-feeder conductors except the equipment ground shall all be the same size and have an ampacity in accordance with NEC Tables 310.16 through 310.19 and applicable notes for the maximum rating of the overcurrent device(s) or service.

EXCEPTION (1): For center-grounded delta systems only, where a fused switch is provided for the service disconnect, a reduction in size of the high leg conductor with a corresponding reduction in overcurrent protection shall be permitted.

EXCEPTION (2): Service entrance and sub-feeder conductors may utilize a reduced neutral conductor, provided the plans which are submitted for review prior to the issuance of a building permit include adequate information to justify reduced neutral ampacity.

EXCEPTION (3): For single family dwellings where the service lateral conductors are not installed by a utility.

Main bonding jumpers and grounding electrode connections as a general rule shall be installed and made in the main service disconnecting means. In all cases the bonding and grounding connections shall be accessible after installation is complete, except where specifically listed for the purpose. Connections shall not be made where a utility seal prevents the future maintenance and inspection of these terminations. In the case of multiple service disconnecting means listed and approved enclosures may be used for all grounding electrode connections and taps.

In general, metering equipment shall be installed on the supply side of the service disconnect. Meters on a building or structure shall be installed as per the serving utilities standards regarding heights and type of equipment used. Where the serving utility has no standard or regulation for this equipment, then all requirements contained in the National Electrical Code shall be complied with. All nonmetallic conduits for underground services or feeders, whether used as a sleeve for protection or installed as a complete raceway, shall incorporate expansion fittings to prevent damage to service equipment.

Potential reference and instrument transformer wires installed between service equipment or CT cabinets and the meter socket may extend up to twenty feet within a structure without raceway concrete encasement, provided the raceway is of rigid metal conduit. Runs of conduit for unfused metering conductors exceeding twenty feet shall be installed below grade, or be encased in not less than two inches of concrete, four inches of brick, or eight inches of hollow block or tile.

A permit shall be obtained for repairs of existing services where either the meter seal is broken, the meter is unfastened from the structure, or the service drop is disconnected. For replacement of existing electrical services where currently located within a bathroom area, the service shall not be required to be relocated provided the service equipment has proper clearances that comply with the current edition of the National Electrical Code. (Ord. 19217 §6; March 9, 2009: prior Ord. 17049 §13; August 19, 1996: Ord. 16384 §13; June 14, 1993: Ord. 15580 §25; June 4, 1990: Ord. 14228 §30; September 30, 1985).

23.10.310 Power Supplies For Fire Alarm, Exit, and Emergency Lighting Systems; Specific Requirements.

(Repealed by Ord. 19217 §7; March 9, 2009: prior Ord. 17049 §14; August 19, 1996: Ord. 15580 §26; June 4, 1990: Ord. 14228 §31; September 30, 1985).

23.10.312 Article 100 Definitions Amended; Service Conductors; Special Permission.
(Repealed by Ord. 19217 §8; March 9, 2009: prior Ord. 18012 §4; June 17, 2002: Ord. 17521 §5; July 6, 1999).

23.10.315 Section 110.16(a) Amended; Working Clearances.
(Repealed by Ord. 17521 § 6; July 6, 1999: prior Ord. 17049 §15; August 19, 1996).

23.10.320 Section 210.8(B) Amended; Ground Fault Protection for Personnel, Receptacles Other Than Dwelling Units.
(Repealed by Ord. 19217 §9; March 9, 2009: prior Ord. 18012 §5; June 17, 2002: previous §23.10.320 repealed by Ord. 17049 §16; August 19, 1996: Ord. 16384 §14; June 14, 1993: Ord. 15580 §27; June 4, 1990: Ord. 14228 §32; September 30, 1985).

23.10.323 Section 210.11(c)(3) Amended; Bathroom Circuits.
(Repealed by Ord. 19217 §10; March 9, 2009: prior Ord. 17521 § 7; July 6, 1999).

23.10.324 Section 210.12 Deleted; Arc Fault Circuit Interrupters.
(Repealed by Ord. 19217 §11; March 9, 2009: prior Ord. 18012 §6; June 17, 2002).

23.10.325 Section 210.52 Amended; Dwelling Unit Receptacle Outlets.
(Repealed by Ord. 17521 §8; July 6, 1999: prior Ord. 17049 §17; August 19, 1996: Ord. 16384 §15; June 14, 1993).

23.10.327 Section 210.52(c)(2) Amended; Island Counter Space Receptacle Requirements.
(Repealed by Ord. 19217 §12; March 9, 2009: prior Ord. 17521 § 9; July 6, 1999).

23.10.329 Section 210.52(c)(3) Amended; Dwelling Unit Peninsular Counter Space Receptacle Requirements.
(Repealed by Ord. 19217 §13; March 9, 2009: prior Ord. 17521 § 10; July 6, 1999).

23.10.330 Section 210.63 Amended; Heating, Air-Conditioning, and Refrigeration Equipment Outlet.
(Repealed by Ord. 19217 §14; March 9, 2009: prior Ord. 18012 §7; June 17, 2002: Ord. 17521 § 11; July 6, 1999: Ord. 17049 §18; August 19, 1996).

23.10.331 Section 210.70 Amended; Lighting Outlets Required.
(Repealed by Ord. 19217 §15; March 9, 2009: prior Ord. 18012 §8; June 17, 2002: Ord. 17521 § 12; July 6, 1999).

23.10.332 Section 220.3(b)(7) Amended; Show Window Lighting Calculations.
(Repealed by Ord. 19217 §16; March 9, 2009: prior Ord. 17521 § 13; July 6, 1999).

23.10.333 Section 220.12(b) Amended; Track Lighting Calculations.
(Repealed by Ord. 19217 §17; March 9, 2009: prior Ord. 17521 § 14; July 6, 1999).

23.10.335 Section 230.43 Amended; Wiring Methods for 600 Volts Nominal, or Less.

(Repealed by Ord. 19217 §18; March 9, 2009: prior Ord. 17049 §19; August 19, 1996: Ord. 16384 §16; June 14, 1993).

23.10.337 Section 230.46 Amended; Splicing Service Entrance Conductors.

(Repealed by Ord. 19217 §19; March 9, 2009: prior Ord. 17521 § 15; July 6, 1999).

23.10.340 Section 230.83 Added; Transfer Equipment.

(Repealed by Ord. 19217 §20; March 9, 2009: prior Ord. 17521 § 16; July 6, 1999: Ord. 16384 §17; June 14, 1993: Ord. 15580 §29; June 4, 1990: Ord. 14228 §34; September 30, 1985).

23.10.345 Section 240.20 Amended; Ungrounded Conductors.

(Repealed by Ord. 19217 §21; March 9, 2009: prior Ord. 18012 §9; June 17, 2002: Ord. 17521 § 17; July 6, 1999: Ord. 17049 §20; August 19, 1996: Ord. 16384 §18; June 14, 1993).

23.10.347 Section 240.24 Amended; Location of Overcurrent Devices in or on Premises.

(Repealed by Ord. 19217 §22; March 9, 2009: prior Ord. 17521 § 18; July 6, 1999: Ord. 17049 §22; August 19, 1996: Ord. 16384 §19; June 14, 1993).

23.10.350 Section 250.24 Amended; Grounding Service-Supplied Alternating-Current Systems; System Grounding Connections.

(Repealed by Ord. 19217 §23; March 9, 2009: prior Ord. 18012 §10; June 17, 2002: Ord. 17521 § 19; July 6, 1999: Ord. 17049 §23; August 19, 1996: Ord. 16384 §20; June 14, 1993: Ord. 15580 §30; June 4, 1990: Ord. 14228 §35; September 30, 1985).

23.10.351 Section 250.50 Amended; Grounding Electrode System.

(Repealed by Ord. 19217 §24; March 9, 2009: prior Ord. 17521 § 20; July 6, 1999).

23.10.353 Section 250.52 Amended; Made and Other Electrodes.

(Repealed by Ord. 19217 §25; March 9, 2009: prior Ord. 17521 § 21; July 6, 1999).

23.10.355 Section 250.92 Amended; Service Equipment.

(Repealed by Ord. 19217 §26; March 9, 2009: prior Ord. 17521 § 23; July 6, 1999: Ord. 17049 §24; August 19, 1996: Ord. 16384 §21; June 14, 1993).

23.10.360 Section 250.81 Amended; Grounding Electrode System.

(Repealed by Ord. 17521 § 24; July 6, 1999: prior Ord. 17049 §25; August 19, 1996: Ord. 16384 §22; June 14, 1993: Ord. 15580 §31; June 4, 1990: Ord. 14228 §36; September 30, 1985).

23.10.370 Section 250.83 Amended; Made and Other Electrodes.

(Repealed by Ord. 17521 § 25; July 6, 1999: prior Ord. 16384 §23; June 14, 1993: Ord. 15580 §32; June 4, 1990: Ord. 14228 §37; September 30, 1985).

23.10.380 Section 300.13(b) Amended; Mechanical and Electrical Continuity of Conductors; Device Removal.

(Repealed by Ord. 19217 §27; March 9, 2009: prior Ord. 17049 §26; August 19, 1996: Ord. 16384 §24; June 14, 1993: Ord. 15580 §33; June 4, 1990: Ord. 14228 §38; September 30, 1985).

23.10.381 Section 300.14 Amended; Length of Free Conductors at Outlets, Junctions, and Switch Points.

(Repealed by Ord. 19217 §28; March 9, 2009: prior Ord. 17521 § 26; July 6, 1999).

23.10.385 Section 314.16(B)4 Amended; Box Fill.

(Repealed by Ord. 19217 §29; March 9, 2009: prior Ord. 18012 §11; June 17, 2002: Ord. 17521 § 27; July 6, 1999: Ord. 17049 §27; August 19, 1996: Ord. 16384 §25; June 14, 1993).

23.10.390 Section 334.12 Amended; Nonmetallic Sheathed Cable, Uses Not Permitted.

(Repealed by Ord. 19217 §30; March 9, 2009: prior Ord. 18012 §12; June 17, 2002: prior Ord. 17521 § 28; July 6, 1999).

23.10.392 Section 370.16(b)4 Amended; Box Fill.

(Repealed by Ord. 18012 §13; June 17, 2002: Ord. 17049 §29; August 19, 1996).

23.10.393 Section 406.8 Amended; Receptacles in Damp or Wet Locations

(Repealed by Ord. 19217 §31; March 9, 2009: prior Ord. 18012 §14; June 17, 2002).

23.10.395 Section 408.21 Amended; Grounded Conductor Terminations.

(Repealed by Ord. 19217 §32; March 9, 2009: prior Ord. 18012 §15; June 17, 2002).

23.10.400 Section 410.2 Amended; Lighting Fixtures; Application of Other Articles.

(Repealed by Ord. 19217 §33; March 9, 2009: prior Ord. 17521 § 29; July 6, 1999: Ord. 17049 §30; August 19, 1996).

23.10.402 Section 410.4(d) Amended; Lighting Fixtures Above Bathtubs and Shower Areas.

(Repealed by Ord. 19217 §34; March 9, 2009: prior Ord. 17521 § 30; July 6, 1999: Ord. 17049 §31; August 19, 1996).

23.10.405 Section 410.102 Amended; Lighting Track Load.

(Repealed by Ord. 17521§ 31; July 6, 1999: prior Ord. 17049 §32; August 19, 1996).

23.10.410 Section 422.16(b) Amended; Specific Appliances.

(Repealed by Ord. 19217 §35; March 9, 2009: prior Ord. 17521 § 32; July 6, 1999: Ord. 16384 §27; June 14, 1993: Ord. 15580 §36; June 4, 1990: Ord. 14228 §41; September 30, 1985).

23.10.415 Section 424.3(c) Added; GFCI Protection for Conductive Heated Floors of Bathrooms.

(Repealed by Ord. 17521 § 33; July 6, 1999: prior Ord. 17049 §33; August 19, 1996).

23.10.417 Article 430.102 Amended; Location of Motor Disconnects.
(Repealed by Ord. 19217 §36; March 9, 2009: prior Ord. 18012 §16; June 17, 2002).

23.10.420 Article 460 Amended; Rating of Capacitors.
(Repealed by Ord. 19217 §37; March 9, 2009: prior Ord. 17049 §34; August 19, 1996; Ord. 16384 §28; June 14, 1993: Ord. 15580 §37; June 4, 1990: Ord. 14228 §42; September 30, 1985).

23.10.425 Section 500.7(K) Deleted; Combustible Gas Detection Systems.
(Repealed by Ord. 19217 §38; March 9, 2009: prior Ord. 18012 §17; June 17, 2002).

23.10.430 Section 501.17 Amended; Lightning and Surge Protection for Class I, Divisions 1 and 2 Locations (or Zone 0, 1, or 2).
(Repealed by Ord. 19217 §39; March 9, 2009: prior Ord. 17521 § 34; July 6, 1999: prior Ord. 17049 §35; August 19, 1996: Ord. 16384 §29; June 14, 1993: Ord. 15580 §38; June 4, 1990: Ord. 14228 §43; September 30, 1985).

23.10.440 Section 502.17 Amended; Lightning and Surge Protection for Class II, Divisions 1 and 2 Locations.
(Ord. 17049 §36; August 19, 1996: prior Ord. 16384 §30; June 14, 1993: Ord. 15580 §39; June 4, 1990: Ord. 14228 §44; September 30, 1985).

23.10.450 Section 514.8 Amended.
(Repealed by Ord. 17049 §37; August 19, 1996: Ord. 16384 §31; June 14, 1993: Ord. 15580 §40; June 4, 1990: Ord. 14228 §45; September 30, 1985).

23.10.455 Section 515.5 Amended.
(Repealed by Ord. 17049 §38; August 19, 1996: Ord. 16384 §32; June 14, 1993: Ord. 15580 §41; June 4, 1990).

23.10.456 Section 600.11 Amended.
(Repealed by Ord. 17049 §39; August 19, 1996: Ord. 16384 §33; June 14, 1993).

23.10.457 Section 600.1 Amended; Scope of NEC Article 600.
(Repealed by Ord. 19217 §40; March 9, 2009: prior Ord. 16384 §34; June 14, 1993).

23.10.458 Section 600.34(d) Amended.
(Repealed by Ord. 17049 §41; August 19, 1996: Ord. 16384 §35; June 14, 1993).

23.10.459 Section 600.10(c)2 Amended; GFCI Protection for Portable or Mobile Signs.
(Repealed by Ord. 19217 §42; March 9, 2009: prior Ord. 17521 § 35; July 6, 1999: Ord. 17049 §42; August 19, 1996).

23.10.460 Section 680.22(A)(1) Amended; Pool and Fountain Receptacle Locations, and Circuit GFCI Protection Requirements.

(Repealed by Ord. 19217 §43; March 9, 2009: prior Ord. 18012 §18; June 27, 2002: Ord. 17521 § 36; July 6, 1999: Ord. 17049 §43; August 19, 1996: Ord. 16384 §36; June 14, 1993: Ord. 15580 §42; June 4, 1990: Ord. 14228 §46; September 30, 1985).

23.10.470 Section 680.8 Amended; Overhead Conductor Clearances.

(Repealed by Ord. 19217 §44; March 9, 2009: prior Ord. 17521 § 37; July 6, 1999: Ord. 17049 §44; August 19, 1996: Ord. 16384 §37; June 14, 1993: Ord. 15580 §43; June 4, 1990: Ord. 14228 §47; September 30, 1985).

23.10.475 Section 680.23(A)(4) Amended; Swimming Pool Underwater Luminaries; Voltage Limitations.

(Repealed by Ord. 19217 §45; March 9, 2009: prior Ord. 18012 §19; June 17, 2002: Ord. 17049 §45; August 19, 1996: Ord. 16384 §38; June 14, 1993).

23.10.480 Section 680.26 Amended; Bonding Requirements.

(Repealed by Ord. 19217 §46; March 9, 2009: prior Ord. 18012 §20; June 17, 2002: Ord. 17521 § 38; July 6, 1999: Ord. 17049 §46; August 19, 1996: Ord. 16384 §39; June 14, 1993: Ord. 15580 §44; June 4, 1990: Ord. 14228 §48; September 30, 1985).

23.10.490 Section 680.43(A)(3) Amended; GFCI Requirements for Spas and Hot Tubs.

(Repealed by Ord. 19217 §47; March 9, 2009: prior Ord. 18012 §21; June 17, 2002: Ord. 17049 §47; August 19, 1996: Ord. 16384 §40; June 14, 1993: Ord. 15580 §45; June 4, 1990: Ord. 14228 §49; September 30, 1985).

23.10.495 Section 680.72 Amended; Electrical Equipment Located in the Vicinity of a Hydromassage Tub.

(Repealed by Ord. 19217 §48; March 9, 2009: prior Ord. 18012 §22; June 17, 2002: Ord. 17049 §48; August 19, 1996: Ord. 16384 §41; June 14, 1993: Ord. 15580 §46; June 4, 1990).

23.10.496 Section 695.8(d) Amended; Power Supply for Fire System Pressure Maintenance Pumps.

(Repealed by Ord. 17521 § 39; July 6, 1999: prior Ord. 17049 §49; August 19, 1996).

23.10.500 Section 700.12(f) Added; Emergency Service Source of Power.

(Repealed by Ord. 19217 §49; March 9, 2009: prior Ord. 17521 § 40; July 6, 1999: Ord. 17049 §50; August 19, 1996: Ord. 16384 §42; June 14, 1993: Ord. 15580 §47; June 4, 1990: Ord. 14228 §50; September 30, 1985).

23.10.510 Code Coordination.

The electrical contractor shall become familiar with the requirements of other codes (such as the International Building Code, International Mechanical Code, International Fire Code, and their adoptive ordinances) enforced in this jurisdiction, the provisions of which apply to electrical installations.

ADVISORY NOTE: See the Lincoln Building Code, Section 20.12.360 regarding requirements for smoke detectors in dwelling units. Contact the Lincoln Bureau of Fire Prevention for the requirements of the Lincoln Fire Code, Title 19, and Lincoln Fire Suppression Ordinance, Title 24, regarding exit lighting, fire alarm and emergency systems, and hazardous (classified) area classification. Contact the Mechanical Inspection Division regarding smoke detector requirements for air handling units of more than 2000 cfm. (Ord. 19217 §50; March 9, 2009; prior Ord. 17521 § 41; July 6, 1999: Ord. 17049 §51; August 19, 1996: Ord. 15580 §48; June 4, 1990: Ord. 14228 §51; September 30, 1985).

23.10.520 Permit Fees.

Before a permit to install, alter, or add to electrical equipment shall be issued, a fee for such permit shall be paid to the Building Official as set forth below. Said permit shall become valid for a period of sixty days from the date of issuance, and remain valid as long as work on the project is not abandoned for a period in excess of sixty days.

Where work for which a permit is required by this code is started prior to obtaining a permit, the fees hereinafter specified shall be doubled; however, the payment of such double fees shall not relieve any person, firm, or corporation from fully complying with the requirements of this code.

There shall be no refunds or credits given on any permit which has expired. Permit holders returning an unused or partially completed permit prior to the expiration date of the permit shall be limited to a maximum refund amounting to two-thirds of the original fee for the items not yet inspected, for total refund amounts of $60.00 and less. For permit fee refund totals in excess of $60.00, a $20.00 processing fee will be levied against the refund amount, but the two-thirds maximum shall not apply.

COMBINED FEE AND PRICE SCHEDULE

PERMIT FEES:

Minimum Permit Fee Charge . . . . . $ 25.00

There is no minimum permit fee for supplemental permits for shortages occurring on the original permit, and for which the work has been inspected. Minimum permit fees shall apply to all work that has not been inspected.

Service Equipment:

30 ampere thru 200 ampere	35.00
201 ampere thru 400 ampere	50.00
401 ampere thru 1200 ampere	75.00
1201 ampere thru 1600 ampere	75.00
1601 ampere thru 3000 ampere	125.00
3001 ampere and over	150.00
Service Repair	25.00
Change overhead to underground, with no change of panel	25.00
Each additional meter	6.00
Each branch panel, sub-panel, or transfer switch	15.00

High Voltage (>600v) Equipment:
per termination 10.00

Outlets for lighting, receptacles, switches, and
junction boxes (each opening) ..... .50

Lighting fixtures, each ..... .50

Baseboard heaters, each unit 5.00

Ceiling Fans 5.00

Motors:
Up to and including 3 H.P. 8.00

Over 3 H.P. 15.00

Generators:
Up to and including 10 KW 10.00

Over 10 KW through 15 KW 35.00

Over 15 KW 50.00

Transformers:

To 15 KVA 10.00

Over 15 KVA - 75 KVA 25.00

Over 75 - 112 1/2 KVA 50.00

Over 112 1/2 KVA 75.00

Exhaust fans and hoods:

Residential - Kitchen and Bathroom 3.00

Commercial - Kitchen 25.00

Pole lights, arc lights, vapor lights, yard lights 5.00

Appliances or receptacles for same: such as disposal,
dishwasher, dryer, range, furnace, air conditioner,
heat pumps, roof top units (RTUs), unit heater,
duct heater, water heater or receptacles for approved
cord connected appliances of a like nature 6.00

Signs:

Including time clock, disconnect, ballasts, etc. 25.00

Pool Grounding 75.00

Hot Tub or Spa 50.00

Other NEC Article 680 items, such as fountains 25.00

Hydro Massage Bathtub 20.00

Temporary Wiring, such as construction and exhibition

100 amperes and less 25.00

More than 100 amperes . . . . . Same fee schedule as services

Reinspection fee (wrong address, work not complete, inaccessibility of equipment, and equipment that does not pass inspection) 75.00

For inspection of apparatus for which no other fee is herein provided 7.00

Fire Alarm Control Panel 30.00

Fire Alarm Devices and Signals

1 - 15 . . . . . 25.00
16 - 50, an additional 20.00
51 - 100, an additional 15.00
For each additional 100, or fraction thereof, an additional 10.00

EXAMINATION FEE: All classes - per examination 50.00

REGISTRATION FEES:

City Master Electrician Registration Fee, annually 60.00

City Journeyman Electrician Registration Fee, annually 20.00

City Apprentice Electrician Registration, annually 12.00

Maintenance Electrician Registration Fee, annually 100.00

State Master/Contractor Registration Fee, annually 60.00
or biennially 120.00

State Fire Alarm Installer Registration Fee, annually 60.00
or biennially 120.00

State Journeyman License Registration Fee, annually 20.00
or biennially 40.00

COST OF APPEAL PROCEDURES - See Section 23.10.120

(Ord. 19217 §51; March 9, 2009: prior Ord. 18012 §23; June 17, 2002: Ord. 17521 § 42; July 6, 1999: Ord. 17049 §52; August 19, 1996: Ord. 16384 §43; June 14, 1993: Ord. 15580 §49; June 4, 1990: Ord. 14228 §52; September 30, 1985).