

ORDINANCE NO. 1450

AN ORDINANCE TO AMEND TITLE IV, CHAPTER 3 OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, 1960 EDITION, BY ADOPTING THE 1968 NATIONAL ELECTRICAL CODE AS PART 1 AND ADOPTING AS PART 2 A SUPPLEMENTAL DOCUMENT PROVIDING AMENDMENTS, CHANGES AND DELETIONS TO THE 1968 NATIONAL ELECTRICAL CODE, ALL BEING ADOPTED BY REFERENCE AND PROVIDING FOR PERMIT FEES; PROVIDING THE ADMINISTRATION FOR INSPECTION; PROVIDING PENALTIES FOR THE VIOLATION HEREOF; PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO; AND REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH.

THE BOARD OF COMMISSIONERS OF THE CITY OF LAS VEGAS DOES ORDAIN AS FOLLOWS:

SECTION 1. ELECTRICAL CODE ADOPTED: Those certain documents, three (3) copies of each of which are on file in the office of the City Clerk, Las Vegas, Nevada, and being marked and designated as follows, are hereby adopted by reference and made a part of this Code, the same as if set out herein in full:

- A. National Electrical Code 1968, and hereby designated as Part 1 of this Chapter; and
- B. A supplemental document amending, deleting and adding to the National Electrical Code 1968 and hereby designated as Part 2 of this Chapter.

SECTION 2. APPLICABILITY: The Board of Commissioners hereby declares that it would have adopted each separate provision of this Chapter, regardless of the adoption of any other provisions, and if any remedy provided in this Chapter be held unavailable or limited in effect, such limitation shall not affect the application of any other provision of this Chapter.

SECTION 3. COMPLIANCE TO CODE REQUIRED: It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure in the City, or cause the same to be done, contrary to or in violation of any of the provisions of the Building Code. Any person, firm or corporation violating any of the provisions of this Chapter shall, upon conviction thereof, be punished by a fine and/or imprisonment. Every day of such violation shall be a separate offense.

SECTION 4. Electric and telephone utilities operating under franchises granted by the City of Las Vegas shall not be subject to the terms of this ordinance in the performing of their state imposed duties on electrical facilities owned and operated by the respective utility companies.

SECTION 5. Any person, firm or corporation violating any of the provisions of this Ordinance shall, upon conviction thereof, be punished by a fine of not more than \$500.00 and/or imprisonment in the city jail for not more than six (6) months, or any combination of such fine and imprisonment. Every day of such violation shall constitute a separate offense.


SECTION 6. All ordinances or parts of ordinances, chapters, section, subsections, phrases, sentences, clauses or paragraphs contained in the Municipal Code of the City of Las Vegas, Nevada, 1960 Edition, in conflict herewith are hereby repealed.

PASSED, ADOPTED AND APPROVED this 15th day of April, 1970.

APPROVED:


ORAN K. GRAGSON, MAYOR

ATTEST:


Edwina M. Cole, City Clerk

The above and foregoing ordinance was first proposed and read by title to the Board of Commissioners on the 18th day of March, 1970, and referred to the following committee composed of Commissioners Corey and Coblentz for recommendation; thereafter the said committee reported favorably on said ordinance on the 15th day of April, 1970, which was a regular meeting of said Board; that at said regular meeting the proposed ordinance was read by title to the Board of Commissioners as first introduced and adopted by the following vote:


VOTING "AYE": Commissioners Coblentz, Thornley, Howery, Corey and Mayor Gragson

VOTING "NAY": None ABSENT: None

APPROVED:


ORAN K. GRAGSON, MAYOR

ATTEST:


Edwina M. Cole, City Clerk

A SUPPLEMENTAL DOCUMENT COMPLETING THE ELECTRICAL CODE OF THE CITY OF LAS VEGAS, NEVADA, AND HEREBY DESIGNATED PART 2 OF TITLE IV, CHAPTER 3 OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1960 EDITION, AND ALSO DESIGNATED ORDINANCE NO. 1450, SECTIONS 1 THROUGH 17.

SECTION 1. AMENDMENTS: Certain Articles of the 1968 National Electrical Code as proposed in Section 1 (A) 1968 National Electrical Code shall be deleted, modified and amended as hereafter provided:

SECTION 2. Chapter 1 of the National Electrical Code 1968 is hereby amended by adding a new Article, designated Article 120, following Article 110 to read as follows:

ARTICLE 120 - ADMINISTRATION

ARTICLE 120-1. DEFINITIONS:

- NBFU: National Board of Fire Underwriters.
- NEMA: National Electrical Manufacturers' Association.
- ME: Master Electrician, requiring the ability to install any electrical wires, fixtures, appliances, apparatus, race-ways, or conduits, or any part thereof, which utilize electrical energy in any form and in connection with which electrical energy is used for any purpose whatsoever.
- MT: Master Technician, a person capable of laying out and supervising commercial sound, radio, television and low voltage control systems involving transistors or electric tubes.
- EM: Electrical Maintenance. License for a person to repair or maintain motors, appliances and electrical equipment.
- SEI: Senior Electrical Inspector. An assistant to the Director of Building and Safety of the City of Las Vegas, Nevada.
- UNIT: One home, apartment, store, warehouse, hall, auditorium or each floor of a hotel.
- EC: Electrical Contractor.
- UL: Underwriters' Laboratories, Inc.
- EI: Electrical Inspector.
- MNE: Master Neon Electrician. A person capable of laying out and supervising electric and gas-tube sign fabrication and

erection.

B of CC: Mayor and Board of City Commissioners.

B of EE: Board of Electrical Examiners.

ARTICLE 120-2. ADMINISTRATION:

There is hereby created the office of SEI who shall be a member of the Building and Safety Department under the supervision of the head of said Building and Safety Department. The person chosen to fill the office of SEI shall be a Master Electrician or Electrical Engineer of good moral character; shall be possessed of such executive ability as is requisite for the efficient performance of his duties and shall have a thorough knowledge of the standard materials and methods used in the installation of electric wiring, devices, appliances and equipment; shall have the knowledge and ability to read, decipher and understand electrical drawings, specifications and calculations; shall be well versed in approved methods of electrical construction for safety of life and property, the statutes of the State of Nevada relating to electrical work, the rules and regulations issued under authority of the Statutes, the National Electrical Code, NFPA No. 70, approved by the American Standards Association and the electrical provisions of other installations and safety codes approved by the American Standards Association.

ARTICLE 120-3. DUTIES OF SEI OR HIS APPOINTED DEPUTIES:

It shall be the duty of the Senior Electrical Inspector and/or the EI to enforce the provisions of the Specialized Electrical Ordinance and inspect the construction, installation and repairs of all electric light or power wiring, fixtures, appliances and apparatus in or running to any building or structure in Las Vegas and to require the correction of any defects therein which are dangerous or likely to cause fire or are contrary to this ordinance. The EI must require the correction of such defects as are actually hazards to life or property.

The Senior Electrical Inspector shall supervise the activities of the Electrical Inspectors and determine that enforcement of the

provisions of this Code are being carried out in a consistent, uniform manner.

In order that prompt, efficient and uniform inspections are made throughout the City, the Senior Electrical Inspector shall make and establish policies from time to time to rectify any conditions which may be detrimental to this result.

It shall be the duty of the Senior Electrical Inspector to arbitrate any differences between a permittee and the Electrical Inspectors concerning Code interpretations or matters of policy of the Electrical Inspection Division of the Department of Building and Safety. Matters not successfully resolved shall be submitted to the Director of Building and Safety who may request that the B of EE render a decision. Any decision so rendered may be appealed to the B of CC for a final decision. Such appeals to the B of CC shall be made in writing through the Director of Building and Safety, and must be made within ten (10) days of any decision made by the B of EE.

The SEI shall ascertain that electrical wiring, fixtures, appliances and apparatus sold within the City for use within the City complies with the requirements of this Code, the UL and/or other approved testing agencies.

It shall be unlawful for any person, firm or corporation to sell or offer to sell for use within the City of Las Vegas, any electrical wiring, fixture, appliance or apparatus that does not conform to the requirements of this Code, the UL and/or any other approved testing agencies. EXCEPTION: Signs and billboards are covered in Title IV, Chapter 6 of the Municipal Code of the City of Las Vegas.

(A) When a routine inspection or a Fire Marshall recommendation is made, the owner will not be required to pay an inspection fee, unless all or parts of said wiring appliances or equipment are condemned, or where such inspection is made upon request of the owner or user of said wiring, fixtures, apparatus or appliances; in which case fees as provided for permits for installation of new work shall be paid by the

person requiring the inspection.

(B) It shall be the duty of the EI to inspect any and all work for which permits have been issued as soon as practicable after notice by the contractor that the work is ready for inspection. Inspection shall, when necessary, be made two or more times during the progress of installation. First, when work is roughed in and last, when work is completed, it shall be the duty of the EI to indicate inspection of any work by a tag or label attached to the service wires or a certificate issued to the person taking out the permit. Such tag or label shall state the date, location and whether rough or final inspection has been made. It shall be unlawful for any workman or any person to lath or otherwise conceal any electrical work until such first inspection tag has been placed.

(C) It shall be unlawful for the SEI, or any of his assistants, to engage in the business, sale, installation or maintenance of electrical wiring devices, appliances or equipment, either directly or indirectly, and they shall have no financial interest in any concern engaged in such business in the City of Las Vegas, County of Clark, State of Nevada, at any time while holding such office as herein provided for.

ARTICLE 120-4. CERTIFICATE:

Upon application for inspection of any wiring, apparatus, fixtures or appliances as hereinafter provided, the EI shall, after inspection and examination, issue a certificate showing the result of such examination and any corrections in said work necessary to be made.

ARTICLE 120-5. UNLAWFUL INSTALLATION:

If the EI shall find any part of any electric light or power wiring, appliance, apparatus or fixtures in or upon any building in the City of Las Vegas, County of Clark, State of Nevada, to have been installed without a permit or installed such that it shall constitute a hazard, said EI shall have the right and power to disconnect electrical service and place a seal upon the same, and shall at the same time

give written notice of such disconnection to the owner or occupant of the building and the electrical power utility company. After wiring, fixtures, appliances or apparatus have been put in the condition required by this Chapter, the seal so placed shall be removed by order of the EI.

It shall be unlawful for any person to use any current in, through or by any means, such disconnected wiring, appliances, apparatus or fixtures, or attach otherwise for the supply of current to such disconnected wiring, fixtures, appliances or to remove, break or deface any seal so placed.

ARTICLE 120-6. PERMITS:

No alterations or additions shall be made in existing wiring, nor shall any wiring be installed or done for the placing of any lights, power or heating devices, or any apparatus which generates, transmits, transforms or utilizes any electricity nor shall any alterations be made to any wiring system after final inspection without first notifying the EI and securing a permit therefor. Applications for such permit, describing such work, shall be made in writing by the person, firm or corporation installing same, and the permit, when issued, shall be to such applicant. Each applicant shall state the location, by street and house number, and the permit shall be valid only for the location stated. A permit will not be required for minor repair work, such as repairing flush and snap switches, replacing fuses, changing lamp sockets and receptacles or fixtures, taping bare joints and repairing drop cords.

This section shall not apply to wires installed in power houses and substations belonging to electric light and telephone companies operating under a franchise granted by the City of Las Vegas, County of Clark, State of Nevada.

(A) No other permit shall be issued to any applicant during the time that he shall fail to correct any defective electrical work ten (10) days

after he has been duly notified to correct such defective work by the EI.

(B) Each application for a permit to install electrical wiring in single family residences and allied buildings (sheds, garages, etc.) must have attached thereto a drawing showing the electrical layout including the wiring and apparatus. Each application for a permit to install electrical wiring in commercial establishments (all other than single family residences) shall have attached thereto drawings showing in detail the proposed method of installing the wiring and apparatus, complete with load calculations and voltage drop in accordance with Article 215-6 and as stated herein. Drawings may not be required on small, insignificant additions or structures.

(C) In order to secure a permit for the installation of electrical wiring, fixtures, appliances or apparatus, and before any addition to or alteration in any old installation of electrical wiring fixtures, appliances or apparatus is made, written application shall be made to the SEI, on blanks provided for the purpose by said SEI, and the applicant therefor shall pay the City of Las Vegas, in advance, all fees as provided in Permit Fee Section. The permit application shall be signed by the Master Electrician supervising the work or by the owner who is doing the electrical installation on his own single family dwelling.

(D) For an electrical elevator there shall be a charge per horsepower of the motor or motors used to serve it. This shall be for inspection on the power wiring to and including the branch circuit disconnect. The inspection from this point on will be by another governmental agency who will furnish the Department of Building and Safety a copy of the final acceptance of the elevator prior to public use. For inspection of any electrical wiring, fixtures, appliances, apparatus or installation for which no fee is herein provided, a charge of \$4.00 per hour for additional time shall be made.

(E) Any person who shall commence any electrical work for which a permit is required by this Chapter, without first having obtained a permit therefor, shall if subsequently permitted to obtain a permit,

pay double the permit fee fixed by Permit Fee Schedule for such work, provided, however, that this provision shall not apply to emergency work when it shall be proved to the satisfaction of the SEI that such work was urgently necessary and that it was not practical to obtain a permit therefor before the commencement of the work. In all such cases, a permit must be obtained as soon as it is practical to do so and, if there be an unreasonable delay in obtaining such permit, a double fee as herein provided shall be charged.

ARTICLE 120-7. OWNER'S PERMIT:

Any permit required by this Chapter may be issued to any person to do any construction or work regulated by this Chapter in a single family dwelling used exclusively for living purposes, including the usual accessory buildings and quarters in connection with such buildings, provided:

- (1) That such person is a bona fide owner of such dwelling, accessory buildings and quarters; and
- (2) That the same are occupied by or designed to be occupied by said owner; and
- (3) That said owner shall personally purchase all material and shall personally perform all labor in connection therewith; and
- (4) That said owner shall file an affidavit that he understands the provisions of this Chapter and will comply therewith.

ARTICLE 120-8. ELECTRICAL PERMIT FEES:

Any person or firm desiring a permit to do electrical work shall, at the time of issuance, pay to the City of Las Vegas a fee based on the following table:

SCHEDULE OF FEES

Minimum Permit	\$ 4.00
Light, receptacle or switch outlet	.20
Wall or ceiling space heaters	.35
Blastcoil heaters per kilowatt	.35
Garbage grinder outlet	.35
Dishwasher outlet	.35
Clothes dryer outlet	.35
Automatic clothes washer outlet	.35
Electric range	.35
Electric water heater	.35
Each fixture or socket	.15
Each mercury arc lamp and equipment	.35
Each special purpose outlet	.35
Each x-ray unit and its appurtenances	5.00
Festoon lighting - first 3000 watts	4.00
for each additional 1000 watts	1.50
Total horsepower, all motors - First horsepower	1.75
for each additional horsepower	.35
Temporary power and lights - Temporary pole	4.00
Electric service, including first meter socket	3.00
for each additional meter socket	.35
Permanently connected air conditioning service (heating & cooling)	1.50
Each generator, transformer or welder or each KW or KVA capacity shall be considered as one (1) horsepower in a motor. Fee for moving motors, generators, welders or transformers on same premises shall be	
Each KW (KVA) Generator (Transformer) (Welder) KW (KVA) first 100 KVA, for each additional KW (KVA)	2.00 .01
Speaker outlets	.15
Signal or alarm outlets	.15
Amplifiers	.50
Control panels	.25
T.V. outlets 0 master system only	.15
Radio outlets	.15

Main control racks	\$ 1.00
T.V. and radio antennas - master system only	.75

ARTICLE 120-9. RULES GOVERNING INSTALLATION:

Except as otherwise herein provided, all electrical wiring installations or electrical fixtures, apparatus or appliances for furnishing light, heat and/or power introduced into or placed in or on any building or structure in the City of Las Vegas, County of Clark, State of Nevada, shall be in conformity with the rules and requirements of the NEC and this Chapter, and all fittings and material used in such installation must be sanctioned in the list of electrical fittings by UL or other approved agencies.

ARTICLE 120-10. NOTICE OF INSPECTION:

Upon the completion of the installation of any electrical wiring, fixtures, appliances or apparatus in or on any building, it shall be the duty of the person doing the work to notify the EI, who shall inspect the same within twenty-four (24) hours and, if approved, there shall be issued a certificate of final electrical inspection which shall contain the date of such inspection and an outline of the result. It shall be unlawful for any person to turn on or connect the current with such installation until such certificate shall be issued; and it shall also be unlawful to make any change, alteration or extension in or to the installation of any electrical wiring, fixtures or appliances or apparatus, in or on any building after final electrical inspection, without notifying the EI and securing a permit to do so, except for emergency repair work as herein noted.

When any part of a wiring installation is to be concealed by a permanent placement of parts of the building, the person performing the electrical installation shall notify the EI at least twenty-four (24) hours prior to such proposed concealment and such parts shall not be concealed until they have been inspected and approved

by the EI; provided, that on large installations where the concealment of parts of the wiring proceed continuously, the person installing the wiring shall give the EI due notice as above specified and inspections shall be made periodically during the progress of the work. The EI shall have the authority to remove or to require the removal of any obstruction that prevents proper inspection of any electrical equipment or installation.

ARTICLE 120-11. RIGHTS AND POWERS:

The SEI and EI shall have the right to enter any premises at all reasonable hours for the purpose of inspecting the electrical wiring, fixtures, appliances or apparatus therein.

ARTICLE 120-12. RESPONSIBILITY FOR DAMAGES:

Nothing in this ordinance shall be construed to relieve or lessen the responsibility of any person owning, operating or installing any electrical wires, fixtures, appliances, apparatus, construction or equipment for damages to anyone injured or damages either to the person or property by any defect therein; nor shall the City or any employee thereof be held as assuming any liability by reason of the inspections authorized herein or the certificate of inspection by the EI.

ARTICLE 120-13. BOARD OF ELECTRICAL EXAMINERS:

(A) MEMBERS: There is hereby created a B of EE which shall consist of ten (10) members appointed by the B of CC as follows:

1. One (1) representative of an electric utility company;
2. One (1) representative of a telephone utility company;
3. Two (2) Master Electricians as representatives of the electrical contractors;
4. One (1) Master Neon Electrician as representative of the electric sign contractors;

5. One (1) Master Technician as representative of the sound or signal system contractors;
6. One (1) Electrical Engineer registered in and for the State of Nevada;
7. Two (2) Journeyman Electricians;
8. One (1) layman, and
9. The SEI or his representative to act as Secretary, provided that the SEI or his representative shall have no vote.

Appointments shall be made for terms of two (2) years, but any member may for cause be removed from office at any time by the B of CC.

Initial appointments by the B of CC shall be one year terms for five (5) members and two year terms for the other five (5) members.

All reappointments shall be for two (2) years. Six members present shall constitute a quorum of said B of EE.

(B) DUTIES OF THE BOARD OF ELECTRICAL EXAMINERS:

It shall be the duty of the Board of Electrical Examiners to (a) determine whether applicants for master certificates meet all requirements including experience; (b) forward approved applications to the Joint Board of Electrical Examiners for examination; and (c) issue the appropriate certificates, Masters, Journeyman, Technician or Maintenance upon notification by the Joint Board of Electrical Examiners that the applicant has successfully qualified by passing an examination.

It also shall be the duty of the Board of Electrical Examiners to recommend to the Board of CC the revocation or suspension of certificates for good and sufficient cause; to act as a consultant for SEI, and to take such actions as may be found necessary or desirable to carry out the provisions of this Code.

(C) RECORDS:

The SEI, as Secretary of the B of EE, shall keep the records of all meetings, which records shall be open for inspection at all times. He shall also keep a record of all Certificates issued.

(D) QUORUM:

Six (6) members of the B of EE present at any meeting shall constitute a quorum for the granting, revocation or suspension of Certificates and the transaction of other business and a majority vote of such quorum will prevail.

(E) JOINT BOARD OF ELECTRICAL EXAMINERS:

There is hereby created an Examining Board for the B of EE, to be known as the Joint Board of Electrical Examiners. The membership of the Joint Board of Electrical Examiners shall consist of at least one (1) Electrical Engineer, two (2) Master Electricians, two (2) Journeyman Electricians, one (1) Master Neon Electrician, and one (1) Master Technician upon creation of a full board. Said board shall consist of not less than six (6) nor more than ten (10) members. In the event of a partial board, the membership shall consist of one (1) Electrical Engineer, two (2) Master Electricians, one (1) Journeyman Electrician, one (1) Master Neon Electrician and one (1) Master Technician.

It shall be the duty of the Secretary of the Board to establish a procedure of rotation for representation on the board to insure that each new board will not consist of members from the same jurisdiction previously represented. The said Joint Board of Electrical Examiners shall not consist of more than two (2) members for each participating jurisdiction during each term of the said board.

The principal purpose of this board is to give the required examinations for the entire County of Clark. The members of the Joint Board of Electrical Examiners shall elect from their members a Chairman and a Vice-Chairman. The secretary, who shall have no vote on the Joint Board of Electrical Examiners, shall be an employee of one of the represented jurisdictions and shall be appointed for a two (2) year term by the majority vote of the governing unit of the represented jurisdictions.

Appointment to the Joint Board of Electrical Examiners shall be made from members of the B of EE by the B of CC of the City of Las Vegas for the term of one (1) year only. No appointee to said Board shall be eligible for reappointment thereto for a period of at least three (3) years.

The Secretary of said Board shall keep the records of the said Board, and the records of the meetings of said Board, and all such records shall be available and open to inspection by interested persons at all reasonable times. The Secretary shall also keep a record of all Certificates issued under this Chapter.

The Chairman of the Joint Board of Electrical Examiners shall be responsible for the custody and security of any and all examinations, questions, answers of examinees and grade results of all examinations.

It shall be the function and duty of the Joint Board of Electrical Examiners to formulate and furnish questions and answers in such number so that the said Board may properly conduct examinations for Master Electricians Certificates, Journeyman Electrician Certificates, Master Neon Electrician Certificates, Master Technician Certificates, and Electrical Maintenance Certificates, and said Joint Board of Electrical Examiners shall grade all examination papers and certify the technical competency of examinees on the basis of the results of any such examination to each of the public entities and jurisdictions hereinabove mentioned.

A quorum of said Joint Board of Electrical Examiners shall consist of a majority of the members being present at any meeting for the transaction of business and to make certification of the technical competency of any person applying for a certificate under this Chapter. A majority vote of such quorum or greater number of Board members present shall prevail.

The said Joint Board of Electrical Examiners shall meet at

least once every three (3) months, but may hold more and additional meetings as may be deemed necessary or desirable for proper discharge of its functions. Examinations will be given on the second Tuesday of January, and every three months thereafter.

(F) All applications for Master Certificate examinations shall be made in writing to the Senior Electrical Inspector of the participating jurisdiction of the applicant's choice, and shall contain the address of the applicant's place of business or residence, and show at least five (5) years' experience as a Journeyman in appropriate field. The applications shall be referred to the B of EE for investigation and recommendation.

The applicant for Master Certificate shall pay to the Department of Building and Safety of the jurisdiction of his choice the required fee of fifty dollars (\$50.00), which shall accompany the application. The B of EE shall forward the application only to the Joint Board of Electrical Examiners. Any person failing to pass the examination shall forfeit ten dollars (\$10.00) as and for a filing fee, and a period of six (6) months must elapse before reapplication to any jurisdiction within the County may be made or submitted. A new and additional fee of fifty dollars (\$50.00) shall be paid by any person making reapplication for examination and issuance of a certificate under this Code. The Board of Electrical Examiners shall issue a Master Certificate to any applicant found and determined to be qualified therefor. Said certificate shall only be issued to a person who has taken the required examination, and such certificate shall be non-transferable.

The holder of a valid Master Certificate issued after certification by the Joint Board of Electrical Examiners may apply for and secure a reciprocal Master Certificate from the Senior Electrical Inspector of any participating jurisdiction upon payment of a fifteen dollar (\$15.00) fee.

(G) Every such Master Certificate shall expire on December 31st of each year and shall be renewable only upon payment to the Department of Building and Safety issuing said Certificate of the sum of fifteen dollars (\$15.00) on or before thirty one (31) days from said expiration date. Should the holder of a Master Certificate effect renewal thereof in any one of the jurisdictions, he shall be entitled to apply for and receive a reciprocal certificate upon payment of a fee of fifteen dollars (\$15.00) as hereinabove provided.

Should the holder of a Master Certificate fail to renew within thirty one (31) days, but does so within thirty two (32) days to ninety (90) days, the fee shall be doubled. Should he fail to renew within ninety (90) days he must apply for, pay the required fee of fifty dollars (\$50.00), and pass another examination. Every Master Certificate shall remain in force and effect through the calendar year of its issue unless revoked after a hearing by the Board of Electrical Examiners for cause (incompetency or willful violations of this Code.)

(H) A Master Certificate shall be valid for one shop only. Simultaneous use of such certificate for more than one contractor shall result in certificate revocation. Every Master acting for a contractor shall, in writing, inform the Senior Electrical Inspector of the Issuing Department of Building and Safety of any change of employment status within ten (10) days thereof, and the involved contractor shall also in writing and within ten (10) days thereof, advise the Senior Electrical Inspector of the issuing Department of Building and Safety of the name of the Master replacing a previously employed Master and assuming supervisory responsibility of all work covered by permit which may have been applied for and issued to previously employed Master or Masters.

(I) The fees, examination, certification and renewal requirements and procedure, as hereinabove outlined, shall equally apply to Master Electricians, Master Neon Electricians, Master Technicians, and Electrical Maintenance persons, except the Electrical Maintenance

Certificate will be processed at \$10.00 for examination and \$10.00 per annum.

(J) Any person who holds an active ME, MNE, MT or EM Certificate at the time the Joint Board of Electrical Examiners is appointed shall be notified by certified mail that he may apply in his jurisdiction within thirty (30) calendar days for a Certificate of Competency and such certification shall be granted.

Following the expiration of thirty (30) calendar days, no certificate will be granted except by examination. The said Joint Board of Electrical Examiners, for good and sufficient cause shown (e.g., illness, absence from the jurisdiction, etc.) may, however, in proper exercise of its discretionary powers and authority waive such thirty (30) day limitation.

(K) All applications for Journeyman examination shall be made in writing to the SEI of the participating jurisdiction of his choice, and pay to that jurisdiction the required fee of five dollars (\$5.00). Receipt of payment by the applicant will permit him to work pending the next regular examination by the Joint Board of Electrical Examiners. Every Journeyman Electrician's card shall remain in force and effect indefinitely from date of issue at no cost providing that all such certificates must be validated prior to January 31 of each year, unless revoked after a hearing by the Board of Electrical Examiners for cause (incompetency or willful violation of this Code).

ARTICLE 120-14. LICENSING:

(A) Any person engaged in the business of wiring, building or installing electrical equipment or appliances in the City of Las Vegas, County of Clark, State of Nevada, shall first secure an EC license from the Director of License and Revenue for which a fee of \$100.00 per year shall be charged.

Before applying for an EC license, applicant must first secure a Nevada State Contractor's License and he or one of his agents or employees obtain a Master Certificate from the City of Las Vegas.

Each EC license shall expire as of January 31st, following the date of issue and shall be renewed by the Director of License and Revenue upon application by the holder of the license and payment of the required fee at any time within thirty (30) days before the date of such expiration.

Each applicant shall furnish a bond of \$1,000.00 in favor of the City of Las Vegas that the licensee will comply with the provisions of all ordinances and regulations of the City, rules and regulations of the Department of Building and Safety and will indemnify the City, and all others, for any loss sustained by reason of injury or damage to person or property up to the amount of the bond.

Before applying for an electric sign contractor's license from the City of Las Vegas, the applicant shall have in his possession a valid Electric Sign Contractor's license by the State of Nevada, and either possess himself or have someone in his employ who possesses a valid Master Neon Electrician's Certificate issued by the Board of Electrical Examiners. Before applying for a Fire Detection System, Sound System, or Signal System Contractor's license from the City of Las Vegas, the applicant shall have in his possession a valid contractor's license for fire detection, sound or signal systems issued by the State of Nevada, and either possess himself or have someone in his employ who possesses a valid Master Technician's Certificate issued by the Board of Electrical Examiners.

(B) No person, firm or corporation shall engage in the installation, maintenance, alterations, repair or construction of any electrical work, wiring devices, fixtures, appliances or equipment, inside or outside of any building, either by himself or his agents or

employees, unless he holds an EC license and he, or one of his employees holds a Master Certificate issued by the City of Las Vegas, except work done for and on the property of the United States of America, the City of Las Vegas, County of Clark, State of Nevada, any public utility, light and power, telephone or telegraph company.

(C) Each and every person working at the trade of installing electrical wiring or electrical appliances, shall possess a valid Certificate of Competency issued by the City of Las Vegas.

(D) There shall be issued by the B of EE upon showing proper qualifications by successfully passing an examination by the Joint Board of Electrical Examiners, an Electrical Maintenance Certificate for persons engaged in the business of winding motors, repairing and maintaining said motors, appliances and electrical equipment. The Certificate permits the changing or replacing of parts such as lamps, motors, switches, cords, fixtures and heating elements, but does not permit any work or changes which involve the extension of, or addition to, any wiring or the installation of any new equipment except when changing equipment for maintenance reasons.

ARTICLE 120-15. ELECTRICAL WORK BY REPAIRMEN:

Maintenance repairmen shall not in the execution of their maintenance work do any electrical work beyond the first opening point in the line and installers shall do no electrical work without first having an EC license and a Master Certificate.

ARTICLE 120-16. REVOCATION OF CERTIFICATE:

Upon presentation to the B of EE in writing of charges that the holder of any Certificate has violated any provisions of the Codes, or this Ordinance, regulating electrical installations and permits for the use of electricity, or is incompetent or unfit to comply with such provisions, the B of EE shall, after a hearing, make a decision. If, after such hearing, it is voted to revoke a Certificate, the holder shall be notified in writing by the B of EE that such a recommendation

has been made and that unless he can show good and sufficient cause to the B of CC why the Certificate should not be revoked, then the B of CC shall revoke the same. This notification shall be delivered to the holder of the Certificate at least five (5) days in advance of the action by the B of CC of the City of Las Vegas. When the Certificate has been revoked, a new one shall not be granted to the same person until the B of EE determines that the applicant is qualified as provided in this Chapter.

The B of CC may, at any time on its own motion and after notice and hearing and for good and proper cause, revoke any Certificate.

SECTION 3. Article 210-21 is hereby amended by adding a new paragraph, designated paragraph (d), to read as follows:

(d) All domestic range circuits installed for removable ranges shall terminate in an approved range receptacle box and approved receptacle.

SECTION 4. Paragraph (a) of Article 210-24 is hereby amended to read as follows:

(a) 1. Fifteen and 20 Ampere Branch Circuits: Lighting units may be protected with 15 amperes, providing maximum load does not exceed 80 percent of the branch circuit rating. The total rating of fixed appliances shall not exceed 50 percent of the branch circuit rating when lighting unit or portable appliances are also supplied.

2. Receptacle outlet circuits shall be wired with not smaller than No. 12 A.W.G. copper wire or equivalent and shall be grounded as required by the N.E.C. and shall be protected by an over-current device rated at not more than twenty (20) amperes. At least one convenience outlet of the duplex grounding type shall be installed in each bathroom.

3. Not more than eight (8) receptacles of the duplex convenience type shall be installed on any one circuit, except on appliance circuits where there shall be only four (4).

SECTION 5. Paragraph (c) of Article 220-3 is hereby amended to read as follows:

(c) 1. Other circuits.

Each fixed appliance (washer, dishwasher, cooler, oven, tabletop cooking unit, etc.) shall be supplied by a separate circuit. Each electric wall heater at one hundred and ten (110) volts, or more, shall be supplied by a separate circuit. All electrical hot water heaters shall be installed on a minimum of No. 10 A.W.G. copper or equivalent.

2. For specific loads not otherwise provided for in Section 220-3 (a or b), branch circuits shall be as required by other Sections of the Code.

SECTION 6. Article 230-41 is hereby amended to read as follows:

ARTICLE 230-41. Size of Service-Entrance Conductors, Overhead System and Underground System. Service-entrance conductors shall have sufficient ampacity to carry the load as determined by Article 220 and in accordance with Tables 310-12, 310-13, 310-14, 310-15. Each dwelling of an area of 400 square feet, or less, shall have not less than a 60 amp. exterior 3 wire 115-230 V service consisting of two (2) No. 6's and No. 8 neutral. Dwellings of more than 400 square feet shall have not less than a 100 amp. 3 wire 115-230 V service consisting of two (2) No. 2's and No. 4 neutral. Multiple unit apartment buildings three (3) or more separate dwelling units in one (1) building need not be governed by this requirement. For other than single family dwelling units, service entrance conductors also shall not be smaller than No. 6 except:

Exception No. 1: For installations consisting of not more than two 2-wire branch circuits they shall not be smaller than No. 8.

Exception No. 2: By special permission due to limitations of supply source or load requirements they shall not be smaller than No. 8.

Exception No. 3: For installations to supply only limited loads of a single branch circuit, such as small polyphase power, controlled water heaters and the like, they shall not be smaller than the conductors of the branch circuit and in no case smaller than No. 12.

Exception No. 4: The neutral conductor which shall have an ampacity in conformity with Section 220-4(d), but shall not be smaller than the ungrounded conductors when these are No. 8 or smaller.

SECTION 7. Article 230-44 is hereby amended to read as follows:

ARTICLE 230-44. Wiring methods. Service-entrance conductors extending along the exterior, or entering buildings or other structures shall be installed as follows:

- (a) All overhead entrance raceways shall be rigid galvanized, steel conduit or approved bus duct.
- (b) No type of aerial service cable shall be used as service conductors for any service installation.
- (c) Overhead service riser weatherheads shall be located:
 - (1) Not less than eleven feet (11') above finished grade.
 - (2) At least twelve inches (12") above the point of attachment of service drops.
 - (3) Not less than three feet (3') from any door or window.
 - (4) On that wall or support nearest to and parallel with the utility's serving lines.

Where the overhead service riser is installed on a building of two (2) or more stories, the point of attachment of the service drops shall be even with or slightly above the second floor ceiling line, but not to exceed twenty-five feet (25') above finished grade, or to a location approved by the serving utility company.

Where an existing overhead service is being altered or moved, the existing point of attachment of the service drops may be used for a relative location of the service riser weatherhead, provided such service drops meet all requirements and have one (1) point of attachment.

- (d) All residential underground service conduit risers shall be 2" minimum stub out.

SECTION 8. Article 230-70 is hereby amended by adding a new paragraph, designated paragraph (j), to read as follows:

- (j) Service disconnecting means shall be installed at not more than six feet six inches (6'6") to the top of the operating handle from the grade.

SECTION 9. Article 300-1 is hereby amended by adding a new paragraph, designated paragraph (e), to read as follows:

- (e) Galvanized or sherradized rigid-metal, heavy-wall conduit shall be required in concrete slabs, floors, walls or underground. Where installed on ground, or in earth fill, galvanized or sherradized or rigid-metal conduit shall have at least one (1) coat of approved asphaltic paint. Electrical metallic tubing and aluminum may be used for both concealed or exposed work, except in the following places:
1. Concrete walls or slabs in contact with earth; or
 2. Underground; or
 3. Earth fills.

This section shall not be construed as prohibiting the use of non-metallic approved raceways. All underground nonmetallic raceways, except those approved for underground construction without concrete, shall be encased in a minimum three inch (3") concrete envelope.

SECTION 10. Article 328 is hereby deleted.

SECTION 11. Article 334-1 is hereby amended to read as follows:

ARTICLE 334-1 Definition. A metal-clad cable is a fabricated assembly of insulated conductors in flexible metallic enclosure.

Method of the cable fabrication and type of the insulating materials are subject to the approval of the S.E.I. before installation. See Section 333-4 for additional requirements.

SECTION 12. Paragraph (c) of Article 336-3 is hereby amended to read as follows:

- (c) Use not permissible for either Type NM or NMC Nonmetallic Sheath Cable. This type shall not be used in any industrial, commercial or multi-family dwelling except when not used as the service-entrance cable, in any hazardous location, embedded in poured cement, concrete or aggregate may be installed in proper concealed areas only in the buildings or structures housing:
 - (1). Single family dwellings; and
 - (2). Two family dwelling.

SECTION 13. Article 410-8 is hereby amended by adding a new paragraph, designated paragraph (c), to read as follows:

- (c) WALK-IN CLOSET LIGHTING: Any walk-in closet of twenty square feet (20 sq. ft.) or more, in floor area shall have a light fixture and switch.

SECTION 14. Article 450 is hereby amended by adding a new Section, designated Section 450-10, to read as follows:

ARTICLE 450-10 Enclosure:

Current transformer enclosures shall not be installed higher than 7 feet from grade to top side. Enclosures for current transformers shall be:

- (1) For loads of 201 to 600 amperes, 24" x 36" x 11".

(2) For loads of 601 to 1200 amperes, 36" x 48" x 11".

SECTION 15. Article 680-9 is hereby amended to read as follows:

ARTICLE 680-9 Clearances. No aerial electrical wiring shall be installed or maintained over or above the watered area of a pool or within the area described by a sixteen foot (16') radius in any direction from the edge of the pool.

SECTION 16. Article 750-7 is hereby amended to read as follows:

ARTICLE 750-7 Controls and Transfer Equipment. (a) Equipment shall be suitable for intended use and be so designed and installed as to prevent the inadvertent interconnection of normal and standby sources of supply in any operation of the transfer equipment.

(1) When an emergency AC supply circuit consisting of:

Two (2) wire single phase,

Three (3) wire single phase,

Four (4) wire three phase

is provided and is controlled by a transfer switch, the transfer switch shall have sufficient poles to open all conductors of the circuit, which includes the neutral and the emergency supply circuit neutral shall be effectively grounded in addition at the emergency supply source.

(b) A time delay feature should be provided to avoid short-time operation of the stand-by system.

SECTION 17. Article 800 is hereby amended by adding two new sections, designated Sections 800-32 and 800-33, to read as follows:

ARTICLE 800-32. Low Voltage Wiring: All low voltage wiring that operates at 25 volts or more, e.g. Keno circuits, slot machines, juke boxes, coin-operated amusement machines, communication circuits, control circuits, fire and burglar alarm circuits, public address and radio systems, remote control circuits, low voltage power circuits, etc., in or on any commercial or industrial building

shall be a UL approved raceway, except certain fire alarm systems wherein special cable must run exposed as it shall act as a thermostat to sound the signal and is further arranged to sound a trouble signal in the event of breakage in the wire. All such circuits which involve signals which protect human life such as nurses call signals in hospitals, etc., shall be in UL approved raceway irrespective of the voltage involved.

ARTICLE 800-33. Dwelling Unit; Telephone Outlet: At least one (1) telephone outlet shall be required for each dwelling unit.

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA)
COUNTY OF CLARK) SS

Louie Muratore being first duly sworn, deposes and says that he is foreman for the LAS VEGAS REVIEW-JOURNAL, a daily newspaper at Las Vegas, in the County of Clark, State of Nevada, and that the attached was continuously published in said newspaper for a period of two insertions from period of April 17, 1970 to April 24, 1970 inclusive, being the issue of said newspaper for the following dates, to wit:

April 17, 24, 1970

That said newspaper was regularly issued and circulated on each of the dates above named.

SIGNED *L. Muratore*
LOUIE MURATORE

Subscribed and sworn to before me this 24 day of April, 1970.

NOTARY PUBLIC, IN AND FOR
CLARK COUNTY, NEVADA

ORDINANCE NO. 1450

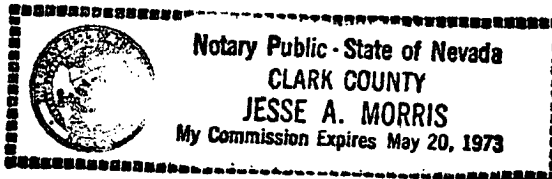
AN ORDINANCE TO AMEND TITLE IV, CHAPTER 3 OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, 1960 EDITION, BY ADOPTING THE 1968 NATIONAL ELECTRICAL CODE AS PART 1 AND ADOPTING AS PART 2 A SUPPLEMENTAL DOCUMENT PROVIDING AMENDMENTS, CHANGES AND DELETIONS TO THE 1968 NATIONAL ELECTRICAL CODE, ALL BEING ADOPTED BY REFERENCE AND PROVIDING FOR PERMIT FEES; PROVIDING THE ADMINISTRATION FOR INSPECTION; PROVIDING PENALTIES FOR THE VIOLATION HEREOF; PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO; AND REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH.

THE BOARD OF COMMISSIONERS OF THE CITY OF LAS VEGAS DOES ORDAIN AS FOLLOWS:

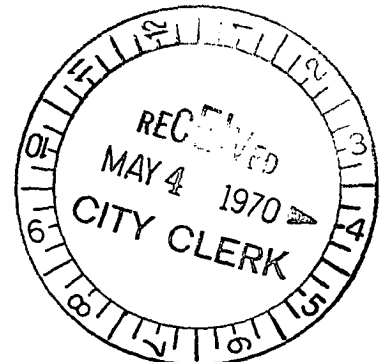
SECTION 1. ELECTRICAL CODE ADOPTED: Those certain documents, three (3) copies of each of which are on file in the office of the City Clerk, Las Vegas, Nevada, and being marked and designated as follows, are hereby adopted by reference and made a part of this Code, the same as if set out herein in full:

- A. National Electrical Code 1968, and hereby designated as Part 1 of this Chapter; and
- B. A supplemental document amending, deleting and adding to the National Electrical Code 1968 and hereby designated as Part 2 of this Chapter.

SECTION 2. APPLICABILITY: The Board of Commissioners hereby declares that it would have adopted each separate provision of this Chapter, regardless of the adoption of any other provisions, and if any remedy provided in this Chapter be held unavailable or limited in effect, such limitation shall not affect the application of any other provision of this Chapter.



Jesse A. Morris



22 (COUNTY OF CLARK)
(STATE OF NEVADA)

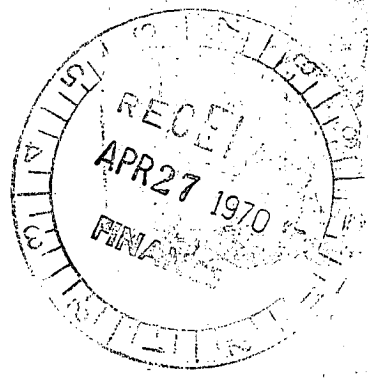
do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears in the records of the County of Clark, State of Nevada, and that the same was lawfully and lawfully published in said newspaper for a period of _____ days, the first day of _____, 1970, and the last day of _____, 1970, in accordance with the provisions of the laws of the State of Nevada, to wit:

and that the within and foregoing is a true and correct copy of the original as the same appears in the records of the County of Clark, State of Nevada, and that the same was lawfully and lawfully published in said newspaper for a period of _____ days, the first day of _____, 1970, and the last day of _____, 1970, in accordance with the provisions of the laws of the State of Nevada, to wit:

Subscribed and sworn to before me this _____ day of _____, 1970.

NOTARIAL PUBLIC
CLARK COUNTY, NEVADA

Notary Public - State of Nevada
CLARK COUNTY
JESSE A. MORRIS
My Commission Expires May 15, 1973



SECTION 3. COMPLIANCE TO CODE REQUIRED: It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert, or demolish, equip, use, occupy or maintain any building or structure in the City for cause the same to be done, contrary to or in violation of any of the provisions of the Building Code. Any person, firm or corporation violating any of the provisions of this Chapter shall, upon conviction thereof, be punished by a fine and/or imprisonment. Every day of such violation shall be a separate offense.

SECTION 4. Electric and telephone utilities operating under franchises granted by the City of Las Vegas shall not be subject to the terms of this ordinance in the performing of their state imposed duties on electrical facilities owned and

operated by the respective utility companies.

SECTION 5. Any person, firm or corporation violating any of the provisions of this Ordinance shall, upon conviction thereof, be punished by a fine of not more than \$500.00 and/or imprisonment in the city jail for not more than six (6) months, or any combination of such fine and imprisonment. Every day of such violation shall constitute a separate offense.

SECTION 6. All ordinances or parts of ordinances, chapters, section, subsections, phrases, sentences, clauses or paragraphs contained in the Municipal Code of the City of Las Vegas, Nevada, 1960 Edition, in conflict herewith are hereby repealed.

PASSED, ADOPTED AND APPROVED this 15th day of April, 1970.

APPROVED:
ORAN K. GRAGSON,
Mayor

ATTEST:
Edwina M. Cole, City Clerk
The above and foregoing ordinance was first proposed and read by title to the Board of Commissioners on the 18th day of March, 1970, and referred to the following committee composed of Commissioners Corey and Coblenz for recommendation; thereafter the said committee reported favorably on said ordinance on the 15th day of April, 1970, which was a regular meeting of said Board; that at said regular meeting the proposed ordinance was read by title to the Board of Commissioners as first introduced and adopted by the following vote:

VOTING "AYE": Commissioners Coblenz, Thornley, Howery, Corey and Mayor Gragson.

VOTING "NAY": None **ABSENT:** None

APPROVED:
ORAN K. GRAGSON,
Mayor

ATTEST:
Edwina M. Cole
City Clerk
April 17, 74