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BILL NO. 90-68

ORDINANCE NO. 3541

AN ORDINANCE RELATING TO THE ADOPTION OF AN ELECTRICAL CODE; AMENDING TITLE 16, CHAPTER 12, SECTION 10, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY DELETING ALL REFERENCES TO THE 1987 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, THE 1990 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART 1 OF SAID CHAPTER, BY REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL DOCUMENT ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL DOCUMENT, ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL ELECTRICAL CODE, 1990 EDITION," AS PART 2 OF SAID CHAPTER, WHICH ADDS TO, DELETES FROM AND AMENDS VARIOUS PROVISIONS OF THE NATIONAL ELECTRICAL CODE, 1990 EDITION, PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO; PROVIDING PENALTIES FOR THE VIOLATION HEREOF; AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HERewith.

Sponsored By:	Summary: Adopts the 1990 Edition of
Mayor Ron Lurie	the National Electrical Code,
	together with a Supplemental Docu-
	ment which provides additions
	thereto, deletions therefrom and
	amendments thereto, as the City's
	Electrical Code.

THE CITY COUNCIL OF THE CITY OF LAS VEGAS DOES HEREBY
ORDAIN AS FOLLOWS:

SECTION 1: Title 16, Chapter 12, Section 10, of the
Municipal Code of the City of Las Vegas, Nevada, 1983 Edition, is
hereby amended to read as follows:

16.12.010: Those certain documents, three copies of which are
on file in the Office of the City Clerk, and being marked and
designated as follows, are adopted by reference as and for the
City's Electrical Code:

- (A) National Electrical Code, [1987] 1990 Edition,
hereby designated as Part 1 of this Chapter; and
- (B) A supplemental document deleting from and adding to
the National Electrical Code, [1987] 1990 Edition, hereby
designated as Part 2 of this Chapter.

SECTION 2: If any section, subsection, subdivision,
paragraph, sentence, clause or phrase in this ordinance or any
part thereof, is for any reason held to be unconstitutional or

1 invalid or ineffective by any court of competent jurisdiction,
2 such decision shall not affect the validity or effectiveness of
3 the remaining portions of this ordinance or any part thereof.
4 The City Council of the City of Las Vegas, Nevada, hereby
5 declares that it would have passed each section, subsection, sub-
6 division, paragraph, sentence, clause or phrase thereof irrespec-
7 tive of the fact that any one or more sections, subsections, sub-
8 divisions, paragraphs, sentences, clauses or phrases be declared
9 unconstitutional, invalid or ineffective.

10 SECTION 3: Whenever in this ordinance any act is
11 prohibited or is made or declared to be unlawful or an offense or
12 a misdemeanor, or whenever in this ordinance the doing of any act
13 is required or the failure to do any act is made or declared to
14 be unlawful or an offense or a misdemeanor, the doing of any such
15 prohibited act or the failure to do any such required act shall
16 constitute a misdemeanor and upon conviction thereof, shall be
17 punished by a fine of not more than \$1,000.00 or by imprisonment
18 for a term of not more than six (6) months, or by any combination
19 of such fine and imprisonment. Any day of any violation of this
20 ordinance shall constitute a separate offense.

21 SECTION 4: All ordinances or parts of ordinances,
22 sections, subsections, phrases, sentences, clauses or paragraphs
23 contained in the Municipal Code of the City of Las Vegas, Nevada,
24 . . .
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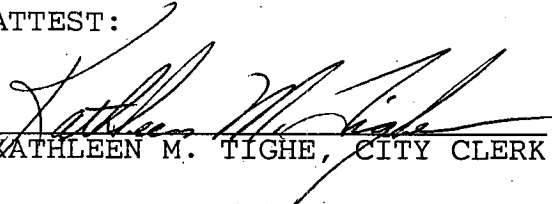
1 1983 Edition, in conflict herewith are hereby repealed.

2 PASSED, ADOPTED AND APPROVED this 21st day of November,
3 1990.

4 APPROVED:

5
6 By 
7 RON LURIE, MAYOR
OK 11-26-90 RAW

8 ATTEST:

9 
10 KATHLEEN M. TIGHE, CITY CLERK

11 The above and foregoing ordinance was first proposed and
12 read by title to the City Council on the 17th day of October,
13 1990, and referred to the following committee composed of

14 Councilmen Miller and Higginson

15 for recommendation; thereafter the said committee reported
16 favorably on said ordinance on the 21st day of November, 1990,
17 which was a regular meeting of said Council; that at said
18 regular meeting, the proposed ordinance was read by
19 title to the City Council as first introduced and adopted by the
20 following vote:

21 VOTING "AYE": Councilmen Adamsen Higginson, Miller, and Mayor Lurie

22 VOTING "NAY": NONE

23 ABSENT: Councilman Nolen

24 APPROVED:

25
26 By 
27 RON LURIE, MAYOR OK 11-26-90 RAW

28 ATTEST:

29 
30 KATHLEEN M. TIGHE, CITY CLERK

A SUPPLEMENTAL DOCUMENT AMENDING
THE NATIONAL ELECTRICAL CODE, 1990 EDITION

Section 1: Certain provisions of the National Electrical Code, 1990 Edition, are hereby amended, deleted or added to as set forth in this Supplemental Document. Except as otherwise indicated, all section and chapter references contained in this Supplemental Document are to the National Electrical Code, 1990 Edition.

Section 2: Chapter 1 of the National Electrical Code, 1990 Edition, is hereby amended by adding thereto a new article designated as Article 120, reading as follows:

Article 120 - ADMINISTRATION

I. DEFINITIONS AND ABBREVIATIONS:

"BZA" refers to the Board of Zoning Adjustment.

"CC" refers to the Las Vegas City Council.

"CEB" refers to the City Electrical Board.

"DIRECTOR" refers to the Director of the Department of Building and Safety of the City of Las Vegas.

"EC" refers to Electrical Contractor.

"ECQ" refers to Electrician's Certificate of Qualification.

"EI" refers to Electrical Inspector.

"ME" refers to Master Electrician - A person who has been issued a certificate by the City of Las Vegas signifying competence to install and supervise the installation of electrical wires, fixtures, appliances, apparatus, raceways, 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.

"MNE" refers to Master Neon Electrician - A person who has been issued a certificate by the City of Las Vegas

1 signifying competence to lay out and supervise electric
2 and gas tube sign fabrication and erection.

3 "MT" refers to Master Technician - A person who has been
4 issued a certificate by the City of Las Vegas signifying
5 competence to lay out and supervise commercial sound,
6 radio, television, and low voltage control systems
7 involving transistors or electric tube.

8 "NBFU" refers to the National Board of Fire Underwri-
9 ters.

10 "NEC" refers to the National Electrical Code.

11 "NEMA" refers to the National Electrical Manufacturers'
12 Association.

13 "NFPA" refers to the National Fire Protection Asso-
14 ciation.

15 "OWNER" refers to any person who holds stock cer-
16 tificates or has an ownership interest in an electrical
17 company, partnership, or corporation.

18 "QI" refers to a qualified individual who has success-
19 fully passed the Nevada State Contractor's Examination
20 for a C-2 Electrical Contractor's License, issued after
21 July 1, 1985.

22 "SEI" refers to the Supervisor of Electrical Inspec-
23 tions - An assistant to the Director of Building and
24 Safety of the City of Las Vegas, Nevada.

25 "UBC" refers to the Uniform Building Code, 1988 Edition.

26 "UL" refers to the Underwriter's Laboratories, Inc.

27 "UNIT" refers to one home, apartment, store, warehouse,
28 hall, auditorium, or each floor of a hotel.

29 II. ADMINISTRATION

30 The purpose of this Code is to provide requirements
31 for installation of electric wiring devices, appliances
32 and equipment within the City of Las Vegas. The provi-

1 sions of this Code are intended to be used in conjunc-
2 tion with the Uniform Administrative Code adopted by the
3 City of Las Vegas (the "UAC") and other appropriate
4 codes and ordinances. Several provisions of this Code
5 are parallel or similar to provisions of the UAC. Both
6 codes shall be applied to the extent possible. In the
7 event of conflict, the provisions of Section 106 of the
8 UAC shall govern, unless otherwise deemed appropriate by
9 the Director or his designee.

10 III. COMPLIANCE

11 It shall be unlawful for any person, firm, or cor-
12 poration to use within the City of Las Vegas any
13 electrical wiring, fixture, appliance, or apparatus
14 that does not conform to the requirements of this Code
15 and the UL or any other approved testing agency with
16 equivalent standards. The SEI shall ascertain that all
17 electrical wiring, fixtures, appliances, and apparatus
18 for use, used, or installed within the City comply with
19 the requirements of this Code and the UL or any other
20 approved testing agency with equivalent standards.

21 EXCEPTION: Sign and billboard installations are
22 governed by Division I of Title 17 of the Municipal Code
23 of the City of Las Vegas.

24 IV. UNLAWFUL INSTALLATION

25 If the EI shall find any part of any electric light
26 or power wiring, appliance, apparatus, or fixture in or
27 upon any building in the City of Las Vegas to have been
28 installed without a permit or installed in such a manner
29 to constitute a hazard, the SEI shall have the right and
30 power to disconnect electrical service and place a seal
31 upon the same, and shall at the same time give written
32 notice of such disconnection to the owner or occupant of

1 the building and the electrical power utility company.
2 After the wiring, fixtures, appliances or apparatus have
3 been put in the condition required by this Chapter, the
4 seal so placed shall be removed by order of the SEI. It
5 shall be unlawful for any person to use any current in
6 or through such disconnected wiring, appliance, appa-
7 tus, or fixture, or otherwise supply current to such
8 disconnected wiring, fixture, appliance, or apparatus,
9 or to remove, break, or deface any seal so placed.

10 V. PERMITS

11 A. No alteration or addition may be made in
12 existing wiring, nor shall any wiring be installed or
13 layed out for any lights, power, or heating devices, or
14 any apparatus which generates, transmits, transforms, or
15 utilizes any electricity, including private telephone
16 systems, nor shall any alteration be made to a wiring
17 system after final inspection without first notifying
18 the SEI and securing a permit therefor; provided,
19 however, that no such permit shall be required for ser-
20 vice work or changeouts up to the first means of discon-
21 nect, in single family dwellings only, of existing air
22 conditioning/heating units which have identical ampacity
23 requirements. Applications for such permit shall
24 describe the proposed work and shall be made in writing
25 by the person, firm or corporation which will do the
26 work. Each applicant shall state the work location by
27 street and house number, and the permit shall be valid
28 only for that location.

29 B. Each application for a permit to install
30 electrical wiring in single family dwellings and
31 accessory buildings (sheds, garages, etc.) must have
32 attached thereto a drawing showing the electrical

1 layout, including the wiring apparatus complet with load
2 calculations, if requested. Each application for a per-
3 mit to install electrical wiring in commercial estab-
4 lishments (all other than single family dwellings) shall
5 have attached thereto drawings showing in detail the
6 proposed method of installation of the wiring apparatus,
7 complete with load calculations in accordance with
8 Article 215-5 and as stated herein. The SEI may waive
9 drawings for small, insignificant additions or struc-
10 tures.

11 C. It is the responsibility of the prime contrac-
12 tor to enforce the code requirements with regard to
13 licensed subcontractors performing electrical work under
14 the contract. An entire project may be stopped by the
15 SEI if any electrical work has been performed without a
16 permit.

17 VI. OWNER'S PERMIT

18 Any permit required by this Chapter may be issued
19 to any person for work in a one or two family dwelling
20 used exclusively for living purposes, including the
21 usual accessory buildings and quarters in connection
22 with such buildings, if:

23 (A) The person is the bona fide owner of the pre-
24 mises containing such dwelling, accessory buildings
25 and quarters;

26 (B) The same are occupied or designated to be
27 occupied by said owner.

28 VII. CITY ELECTRICAL BOARD

29 (A) There is hereby created the CEB which shall
30 consist of eleven (11) members appointed by the CC as
31 follows:

32 1. One (1) representative of an electric utility com-

pany.

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 Technician 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) Certified Electricians.

8. One (1) Layman; and

9. One (1) Low Voltage Technician.

The SEI or his representative shall act as Secretary, provided that the SEI or his representative shall have no vote.

(B) It shall be the duty of the CEB to recommend to the Director the suspension or revocation of certificates upon good and sufficient cause. The Director will then advise the CC of his recommendations with respect to such suspension or revocation. The CEB will also act as a consultant for the SEI and take such action as it may find to be necessary or desirable in order to carry out the provisions of this Code.

(C) The SEI, as Secretary to the CEB, shall keep the records of all meetings, which records shall be open for inspection during normal City business hours. He shall also keep a record of all certificates issued.

(D) The presence of six (6) members of the CEB at any meeting shall constitute a quorum for recommending disciplinary action against any certificate holder and

1 for the transaction of other business, and a majority
2 vote of such quorum shall prevail.

3 (E) It shall be the responsibility of every
4 contractor and its ME and QI to inform the SEI in
5 writing of any change of the employment status of the ME
6 or the QI within ten (10) days after that change is
7 effective.

8 (F) A Master Certificate shall be valid for one
9 business only. Simultaneous use of such certificate for
10 more than one contractor shall result in the revocation
11 of such certificate. Notwithstanding anything above to
12 the contrary, an owner who holds a Master Certificate
13 may be the ME for his own business.

14 (G) The fees, examination, certification and
15 renewal requirements and procedures which are outlined
16 above shall apply equally to MEs, MNEs and MTs.

17 (H) The SEI or his deputy may examine applicants
18 for Electrician's Certificate of Qualification (ECQ) by
19 a written examination and grade the same. A fee of
20 \$10.00 shall be charged for this examination and a grade
21 of 70 percent thereon shall entitle the examinee to an
22 Electrician's Certificate of Competency. If the exami-
23 nation is failed, the applicant must wait at least
24 thirty (30) days to retake the examination and shall pay
25 a new fee of \$10.00. Every Electrician's Certificate
26 shall remain in effect for a period of one year. A
27 \$10.00 fee shall be charged for the renewal of the cer-
28 tificate. Electrician's Certificates may be revoked
29 after a hearing by the CEB for cause (incompetency or
30 willful violation of this Code).

31 VIII. LICENSING

32 (A) Any person engaged in the business of wiring,

1 building, or installing electrical equipment or applian-
2 ces, including private telephone systems, in the City of
3 Las Vegas, Nevada, shall secure a business license from
4 the Director of the Department of Business Activity.
5 Said license must be kept valid as long as the applicant
6 is engaged in electrical work. Before applying for a
7 business license, the applicant shall first obtain a C-2
8 contractor's license from the Nevada State Contractor's
9 Board for those areas of electrical work for which a
10 contractor's license is required by Chapter 624 of the
11 Nevada Revised Statutes and the applicant or one of his
12 employees must possess a ME certificate or a QI cer-
13 tificate and ME card which has been issued by said
14 Contractors' Board after July 1, 1985. In doubtful
15 cases where it is unclear whether or not a State
16 Contractors' license is necessary to do the electrical
17 work contemplated, the City may require the applicant to
18 furnish written proof from the said Contractors' Board
19 that a State license is not necessary. Each applicant
20 shall furnish a bond as required by the City's licensing
21 ordinance which is administered by the Department of
22 Business Activity. Before applying for a business
23 license to install electrified signs in the City of Las
24 Vegas, the applicant shall have in his possession a
25 valid electric sign contractor's license which has been
26 issued by said Contractors' Board in instances in which
27 such license is required by State law, and shall either
28 possess, or have someone in his employ possess a valid
29 MNE certificate or a valid QI certificate which has been
30 issued by said Contractors' Board after July 1, 1985.
31 It shall be the responsibility of every electrical
32 contractor to assure that each of its employees who work

1 at the trade of installing electrical wiring systems
2 possess a valid electrician's certificate which has been
3 issued by an approved agency. Each and every person who
4 works at the trade of installing electric wiring and
5 devices shall possess a valid electrician's certificate
6 of qualification.

7 IX. REVOCATION OF CERTIFICATE

8 Upon presentation to the CEB of charges that the
9 holder of any certificate has violated any provisions of
10 the City Code or this ordinance regulating electrical
11 installations and permits for the use of electricity, or
12 is incompetent or unfit to comply with such regulations,
13 the CEB may hold a hearing to determine whether or not a
14 recommendation should be made to the Director to suspend
15 or revoke the certificate or to take other disciplinary
16 action. All such recommendations must be filed with the
17 Director who will then advise the CC of his recommen-
18 dations with respect to such suspension, revocation or
19 other disciplinary action. The holder of the cer-
20 tificate in question shall be given notice of the alle-
21 gations against him and the opportunity to appear at the
22 CEB hearing to refute said charges. If, after such
23 hearing, the CEB votes to recommend the suspension or
24 revocation of the certificate or to take any other
25 disciplinary action against the holder thereof, the
26 holder shall be notified in writing by the Director that
27 such a recommendation has been made and that unless he
28 can show good and sufficient cause to the CC why the
29 certificate should not be suspended or revoked or such
30 other disciplinary action should not be taken against
31 him, the CC may order the Director to suspend or revoke
32 the certificate or to take such other disciplinary

1 action against the holder thereof. This notification
2 shall be delivered to the holder of the certificate at
3 least ten (10) days in advance of the intended action
4 before the CC. When a certificate has been so revoked,
5 a new certificate shall not be granted to the same per-
6 son to perform electrical work within the corporate
7 boundaries of the City until such person has waited at
8 least one year and the CEB has determined that such per-
9 son is competent and meets all of the requirements of
10 this Code. The CC can, at any time on its own motion
11 after notice and hearing and for good and proper cause,
12 revoke or suspend any certificate or take other
13 disciplinary action against the holder thereof.

14 Section 3: Section 210-8 is hereby amended by adding thereto a
15 new subsection, designated as Subsection (c), reading as
16 follows:

17 (c) Commercial Structures

18 In commercial buildings, where a sink is installed,
19 a receptacle within six feet (6') of that sink shall be
20 G.F.C.I. protected. EXCEPTION: Floor sinks.

21 Section 4: Section 210-19(a) is hereby amended by adopting
22 Fine Print Note (FPN) No. 4 as a mandatory requirement.

23 Section 5: Paragraph 1 of Subsection (a) of Section 210-52 is
24 hereby amended by adding thereto at the end thereof, the
25 following new sentence:

26 Guardrails for lofts wider than six feet (6') shall be
27 considered usable wall space pursuant to the require-
28 ments of this Section.

29 Section 6: Subsection (a) of Section 210-70 is hereby amended
30 to read as follows:

31 (a) Dwelling Unit(s). At least one wall switch-
32 controlled lighting outlet shall be installed in every

1 habitable room; in bathrooms, hallways, stairways,
2 attached garages, and detached garages with electric
3 power; and at outdoor entrances or exits. This wall
4 switch shall be within three feet (3') of the entrance
5 to said room, hallway, stairway or garage, or within
6 three feet (3') of the outdoor entrance or exit.

7 Section 7: Subsection (b) of Section 215-2 is hereby amended
8 by adopting FPN No. 2 as a mandatory requirement.

9 Section 8: Section 220-3 is hereby amended by adding thereto a
10 new subsection, designated as Subsection (e), reading as
11 follows:

12 (e) Limitations

13 (1) No more than ten (10) receptacles of the
14 duplex convenience type may be installed on any 20A cir-
15 cuit except on small appliance circuits, where there
16 shall be only four (4) receptacles. All receptacle cir-
17 cuits shall be wired with #12 wire minimum. Range hoods
18 shall be wired to a small appliance circuit.

19 (2) Fixed appliance circuits. Each appliance
20 (washer, dishwasher, gas dryer, cooler, oven, tabletop
21 cooking units, etc.) shall be supplied by a separate
22 circuit. Each fixed electrical wall heater at one
23 hundred and twenty (120) volts or more shall be supplied
24 by a separate 20 amp branch circuit. All storage type
25 water heater circuits shall be wired with #10 Cu. mini-
26 mum.

27 (3) Smoke detector devices or apparatus, where
28 required, shall be directly connected to the electrical
29 system.

30 (4) Subpanels shall not be installed in clothes
31 closets or bathrooms.

32 EXCEPTION NO. 1: Walk-in clothes closets where

1 clearance is provided.

2 EXCEPTION NO. 2: Commercial bathrooms with no
3 tub or shower.

4 Section 9: Section 220-11 is hereby amended by adding thereto,
5 at the end of Table 220-11, the following new paragraph:

6 All interior mini storage units exceeding 35 square
7 feet and all exterior units exceeding 100 square feet
8 shall require an interior light and wall switch.

9 Section 10: Section 220-14 is hereby amended by adding thereto
10 a new paragraph, reading as follows:

11 Air-conditioning equipment that is the largest
12 motor load on a service shall be calculated at 125 per-
13 cent of its full load. Bath fans, hood fans and other
14 motor driven devices connected to general lighting or
15 receptacle circuits will not be considered as fixed
16 appliances.

17 Section 11: Sections 220-30 through 220-33 are hereby deleted
18 in their entirety and a new Section 220-30 is adopted in lieu
19 thereof, reading as follows:

20 220-30. Calculated Loads. The calculated load of a
21 S.F.D. Service shall allow a minimum of 20 amps for
22 future expansion.

23 Section 12: Section 230-42 is hereby amended by adding thereto
24 a new subsection, designated as Subsection (d), reading as
25 follows:

26 (d) Disconnect Identification. All services shall
27 have a means of disconnect located on the outside of the
28 building or structure. Where more than one service to a
29 building or other structure is permitted, a permanent
30 graphic display plaque shall be installed at each ser-
31 vice location denoting all other services on or in that
32 building or structure and the area served by each. The

1 service disconnecting means and the graphic display
2 plaque shall meet the requirements of the Director or
3 his designee.

4 All residential underground service conduit risers
5 shall be a minimum two inch (2") stubout. (All
6 undergrounded service entrance conductors and service
7 laterals shall have equal ampacity.) A shunt trip
8 device shall be acceptable as a main electrical discon-
9 nect for a building. The circuit supplying the shunt
10 trip shall be wired from the line side of the service
11 with no in-line fuses. It shall be painted yellow and
12 identified in black letters as electrical disconnect for
13 the structure, minimum two inch (2") letters.

14 Section 13: Section 240-6 is hereby amended by deleting the
15 second exception in its entirety.

16 Section 14: Article 250 is hereby amended by adding thereto
17 a new section, designated as Section 250-156, reading as
18 follows:

19 250-156. Additional Grounding and Bonding Requirements:
20 On existing buildings where a service is changed, an
21 acceptable grounding electrode shall be 2x2x2 cube with
22 a minimum of twenty feet (20') of No. 4 bare copper
23 encased in the cube which shall be filled with concrete.
24 Connections to electrodes of steel reinforcing bars or
25 rods, where the ground electrode is larger than No. 2
26 AWG, shall be by welding, brazing or similar processes
27 or as approved by the Director or his designee. A
28 grounding electrode conductor shall not be permitted to
29 be installed on the utility side of any service equip-
30 ment. The grounding electrode conductor shall be sized
31 to the maximum current permitted by the service panel.
32 On all commercial buildings with walkable roofs, a

1 grounding conductor shall be supplied in all conduit.

2 Section 15: Article 300 is hereby amended by adding thereto a
3 new section, designated as Section 300-23, reading as
4 follows:

5 300-23. Old or Used Materials. Old or used materials
6 shall not be used in any work without the permission of
7 the Director, obtained in advance. Abandoned wiring
8 shall be removed back to its source of supply.

9 Section 16: Section 310-2(b) is hereby amended by adding
10 thereto at the end thereof, the following sentence:

11 Aluminum and copper clad conductors smaller than #6 AWG
12 shall not be used.

13 Section 17: Section 336-4 is hereby amended by adding to Sub-
14 section (a) thereof a new paragraph, reading as follows:

15 NM or NMC non-metallic sheathed cable shall not be used
16 in any structure used for commercial purposes, other
17 than an apartment house, as defined in the Uniform
18 Building Code, which is rented on at least a monthly
19 basis. In addition, NM or NMC non-metallic cable shall
20 not be used in multifamily dwellings that are not indi-
21 vidually metered. All non-metallic sheathed cables and
22 metal raceway shall terminate in an approved box, cabi-
23 net, cutout box, pullbox, switch box, gutter or switch-
24 board, as approved by the Director or his designee.
25 Wiring in recreation buildings, swimming pool equipment
26 rooms and detached laundry buildings shall be installed
27 in raceways.

28 Section 18: Article 346 is hereby amended by adding thereto a
29 new section, designated as Section 346-16, reading as
30 follows:

31 346-16. Metallic Raceways. When installed on ground or
32 in earthfill, galvanized rigid metal conduit or IMC

1 shall have an approved extruded PVC jacket or equal pro-
2 tection as approved by the Director or his designee,
3 including all fitting, and shall be installed in a
4 manner that will not change the extruded jacket.

5 Section 19: Article 347 is hereby amended by adding thereto a
6 new section, designated as Section 347-5, reading as follows:

7 347-5. Construction of Article. Nothing in this
8 Article shall be construed as prohibiting the use of
9 non-metallic raceways. PVC may transit from a slab into
10 a protected areas, but may not be used in buildings of
11 Type I, II F.R. and Type II-1 hour construction as
12 defined by the Uniform Building Code. Where PVC tran-
13 sits from underground unprotected, it shall be schedule
14 40. PVC exposed to ultraviolet light shall be painted or
15 otherwise protected.

16 Section 20: Section 348-1 is hereby amended by adding thereto 3
17 additional subsections designated as Subsections (5), (6) and
18 (7), reading as follows:

19 (5) In slabs in contact with earth;

20 (6) Underground;

21 (7) In earthfills.

22 Section 21: Article 350 is hereby amended by deleting Section
23 350-5 in its entirety and adopting in lieu thereof a new Sec-
24 tion 350-5, reading as follows:

25 350-5. Grounding. All flexible conduit, including A/C
26 cable, in any length shall contain a copper grounding
27 conductor. Grounding conductors, where permitted to be
28 spliced, shall require a mechanical device.

29 Section 22: Section 410-8 is hereby amended by adding thereto
30 a new subsection designated as Subsection (e), reading as
31 follows:

32 (e) Required Closet Lighting. Any walk-in closet

1 of twenty square feet (20 sq.ft.) or more in floor area
2 shall have a light fixture and wall switch.

3 Section 23: Section 550-1 is hereby amended by adding thereto
4 the following sentence, at the end thereof, reading as
5 follows:

6 Electrical service to all mobile home parks and to all
7 spaces, etc., in mobile home parks shall be provided by
8 a franchised serving utility unless approved by the
9 authority having jurisdiction.

10 Section 24: Section 680-8 is hereby amended by adding thereto
11 the following paragraph, following Figure 680-8, Exception
12 No. 1, reading as follows:

13 The distances required under Item A of Figure
14 680-8, Exception No. 1, may be waived by the Director or
15 his designee whenever the direct line of sight between
16 the edge of the pool's water surface and the existing
17 utility-owned, utility-operated and utility-maintained
18 supply lines or service drops is broken by a permanent
19 structure which breaks the line of sight and causes a
20 deviation such that the resulting unobstructed path
21 satisfies the distance requirement of Item A.

22 Section 25: Section 700-6 is hereby amended by adding thereto
23 the following paragraph, reading as follows:

24 In any building or structure in which an emergency
25 generator is installed, the emergency panel and any
26 automatic transfer switches shall not be permitted in
27 the same enclosure or room with the main power
28 switchgear. If a fire sprinkler system is installed in
29 a main electrical switchgear room or a fire control
30 room, all electrical switchgear shall be protected from
31 the activation of the sprinkler heads or NEMA3R shall be
32 used. As an alternate, a halon fire suppression system

1 may be installed.

2 Section 26: Article 700 is hereby amended by adding thereto a
3 new section, designated as Section 700-10, reading as
4 follows:

5 700-10. No emergency generator may be installed on the
6 roof of a highrise building, as defined in the 1988 Uni-
7 form Building Code, Section 3301(f), as adopted by the
8 City. Where an emergency generator is installed for the
9 protection of life safety, the following systems, if
10 required by the Uniform Building Code (1988 Edition),
11 A.N.S.I. Code or N.F.P.A. 1988, shall be installed using
12 mineral insulated cable or protected by a separate
13 1-hour enclosure which shall contain only the emergency
14 or legally required stand-by system wiring which is
15 listed below:

16 A. Emergency system wiring to the overcurrent
17 device protecting the branch circuits including genera-
18 tor control wiring.

19 B. Feeder wiring to fire alarm master panel and
20 feeder wiring to voice control and communication panels.

21 C. Elevator feeder and control wiring to motors.

22 D. Mechanical smoke removal system, smoke damper
23 wiring, fire door and control power wiring.

24 EXCEPTION: Feeder conductors located outside of a
25 building or structure or underground shall be considered
26 protected in compliance with Articles 700 and 701.

27 Section 27: Article 700 is hereby amended by adding thereto a
28 new section, designated as Section 700-11, reading as
29 follows:

30 700-11. Elevators. Where loss of normal power occurs,
31 an emergency condition shall exist and all elevators
32 shall sequence to the designated level and doors shall

1 open and remain open.

2 A three position key located in the lobby shall
3 activate the elevators. Where elevators must comply
4 with ANSI A 17-1, Rule 211.3, an emergency generator
5 shall be required.

6 Section 28: Section 700-16 is hereby amended by adding thereto
7 the following language at the end of the first sentence,
8 reading as follows:

9 All main switchgear rooms require emergency lighting.
10 All emergency panels and junction boxes shall be iden-
11 tified in red letters, two inches (2") high, with the
12 letter "E".

13 Section 29: Article 725 is hereby amended by adding thereto a
14 new section, designated as Section 725-6, reading as follows:

15 725-6. UL Raceways for Class 1, Class 2 and Class 3
16 Circuits. All Class 1 circuits low voltage wiring shall
17 be in metallic raceways (conduits) except where NM or
18 NMC wiring is permitted.

19 (a) All life safety wiring systems or low voltage
20 wiring systems in concealed spaces shall be in metallic
21 conduit.

22 (b) Fire protection systems, sound systems,
23 burglar alarms, industrial process systems, closed cir-
24 cuit TV systems, shall be installed in UL metallic
25 raceways except whee NM or NMC wiring system is used.

26 (c) Fire alarm system wherein special cable must
27 run exposed as it shall act as a thermostat to sound the
28 signal and it is further arranged to sound a trouble
29 signal in the event of breakage in the wire, shall not
30 be required to be in conduit.

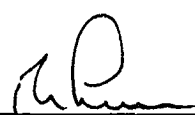
31 (d) Wiring for industrial processes or burglar
32 alarm systems need not be in conduit when it is imprac-

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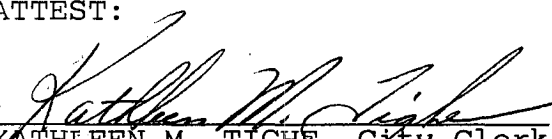
tical to attach to detection devices in other than concealed spaces or outside the building.

PASSED, ADOPTED and APPROVED this 21st day of November, 1990.

APPROVED:

By 
RON LURIE, Mayor OK 11-26-90 RLV

ATTEST:


KATHLEEN M. TIGHE, City Clerk

RECEIVED

FEB 28 9 08 AM '91

AFFIDAVIT OF PUBLICATION

CITY CLERK

BILL NO. 90-68
ORDINANCE NO. 3541

HERE

AN ORDINANCE RELATING TO THE ADOPTION OF AN ELECTRICAL CODE; AMENDING TITLE 16, CHAPTER 12, SECTION 10, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY DELETING ALL REFERENCES TO THE 1987 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, THE 1990 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART 1 OF SAID CHAPTER, BY REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL DOCUMENT ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL DOCUMENT ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL ELECTRICAL CODE, 1990 EDITION," AS PART 2 OF SAID CHAPTER, WHICH ADDS TO, DELETES FROM AND AMENDS VARIOUS PROVISIONS OF THE NATIONAL ELECTRICAL CODE, 1990 EDITION, PROVIDING PENALTIES FOR THE VIOLATION HEREOF, AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.

SPONSORED BY: Mayor Ron Lurie
SUMMARY: Adopts the 1990 Edition of the National Electrical Code, together with a Supplemental Document which provides additions thereto, deletions therefrom and amendments thereto, as the City's Electrical Code.

The above and foregoing ordinance was first proposed and read by title to the City Council on the 17th day of October, 1990, and referred to the following committee composed of Councilmen Miller and Higgins for recommendation; thereafter the said committee reported favorably on said ordinance on the 21st day of November, 1990, which was a regular meeting of said Council; that at said regular meeting, the proposed ordinance was read by title to the City Council as first introduced and adopted by the following vote:

VOTING "AYE" Councilmen: Adamsen, Higgins, Miller, and Mayor Lurie.
VOTING "NAY" Councilmen: NONE
ABSENT: Nolen

COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10TH FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.

PUB: November 24, 1990
Las Vegas Review-Journal/Sun

STATE OF NEVADA)
COUNTY OF CLARK)

SS:

CHRISTY A. FERGUSON, being first duly sworn, deposes and says:

That she/he is a legal clerk for the LAS VEGAS REVIEW-JOURNAL and THE LAS VEGAS SUN, daily newspapers regularly issued, published and circulated in the City of Las Vegas, County of Clark, State of Nevada, and that the advertisement, a true copy of which is attached, was continuously published in the LAS VEGAS REVIEW-JOURNAL or THE LAS VEGAS SUN for a period of ONE insertions from the period of NOVEMBER 24, 1990 to NOVEMBER 24, 1990, on the following days:

NOVEMBER 24, 1990

Signed:

Christy A. Ferguson

Subscribed and sworn to before me this

27th day of Feb., 1991

Maria C. Therien

Notary Public

MARIA C. THERIEN
Notary Public-State of Nevada
CLARK COUNTY
My Appointment Expires May 11, 1994

AFFIDAVIT OF PUBLICATION

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BILL NO. 90-68

AN ORDINANCE RELATING TO THE ADOPTION OF AN ELECTRICAL CODE; AMENDING TITLE 16, CHAPTER 12, SECTION 10, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY DELETING ALL REFERENCES TO THE 1987 EDITION OF THE NATIONAL ELECTRICAL

CODE ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, THE 1990 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART 1 OF SAID CHAPTER, BY REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL DOCUMENT ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL DOCUMENT, ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL ELECTRICAL CODE, 1990 EDITION," AS PART 2 OF SAID CHAPTER, WHICH ADDS TO, DELETES FROM AND AMENDS VARIOUS PROVISIONS OF THE NATIONAL ELECTRICAL CODE, 1990 EDITION, PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO; PROVIDING PENALTIES FOR THE VIOLATION HEREOF; AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.

SPONSORED BY:

Mayor Ron Lurie
SUMMARY: Adopts the 1990 Edition of the National Electrical Code, together with a Supplemental Document which provides additions thereto, deletions therefrom and amendments thereto, as the City's Electrical Code.

At a City Council meeting October 17, 1990
BILL NO. 90-68 WAS READ BY TITLE AND REFERRED TO RECOMMENDING COMMITTEE: Councilmen Miller and Higginson.
COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10TH FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.

PUB: November 1, 1990
Las Vegas Review-Journal

STATE OF NEVADA)
COUNTY OF CLARK)

SS:

CHRISTY A. FERGUSON, being first duly sworn, deposes and says:

That she/he is a legal clerk for the LAS VEGAS REVIEW-JOURNAL and THE LAS VEGAS SUN, daily newspapers regularly issued, published and circulated in the City of Las Vegas, County of Clark, State of Nevada, and that the advertisement, a true copy of which is attached, was continuously published in the LAS VEGAS REVIEW-JOURNAL or THE LAS VEGAS SUN for a period of ONE insertions from the period of NOVEMBER 1, 1990 to NOVEMBER 1, 1990, on the following days:

NOVEMBER 1, 1990

Signed:

Christy A. Ferguson

Subscribed and sworn to before me this

1st day of Nov, 1990

Maria C. Therien
Notary Public

MARIA C. THERIEN
Notary Public-State of Nevada
CLARK COUNTY
My Appointment Expires May 11, 1994

RECEIVED

FEB 28 9 08 AM '91

AFFIDAVIT OF PUBLICATION

CITY CLERK

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BILL NO. 10-44
ORDINANCE NO. 3541
AN ORDINANCE RELATING TO THE ADOPTION OF AN ELECTRICAL CODE; AMENDING TITLE 16, CHAPTER 12, SECTION 10, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA; 1989 EDITION, BY DELETING ALL REFERENCES TO THE 1987 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, THE 1990 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART 1 OF SAID CHAPTER, BY REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL DOCUMENT ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL DOCUMENT ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL ELECTRICAL CODE, 1990 EDITION" AS PART 2 OF SAID CHAPTER, WHICH ADDS TO, DELETES FROM AND AMENDS VARIOUS PROVISIONS OF THE NATIONAL ELECTRICAL CODE, 1990 EDITION, PROVIDING PENALTIES FOR THE VIOLATION HEREOF; AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.
SPONSORED BY: Mayor Ron Lurie
SUMMARY: Adopts the 1990 Edition of the National Electrical Code, together with a Supplemental Document which provides additions thereto, deletions therefrom and amendments thereto, as the City's Electrical Code.
The above and foregoing ordinance was first proposed and read by title to the City Council on the 17th day of October, 1990, and referred to the following committee composed of Councilmen Miller and Hippolinson for recommendation; thereafter the said committee reported favorably on said ordinance on the 21st day of November, 1990, which was a regular meeting of said Council; that at said regular meeting, the proposed ordinance was read by title to the City Council as first introduced and adopted by the following vote:
VOTING "AYE" Councilmen: Adamson, Hippolinson, Miller, and Mayor Lurie.
VOTING "NAY" Councilmen: NONE
ABSENT: None
COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10TH FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.
PUB: November 24, 1990
Las Vegas Review-Journal/Sun

STATE OF NEVADA)
COUNTY OF CLARK)

SS:

CHRISTY A. FERGUSON, being first duly sworn, deposes and says:

That she/he is a legal clerk for the LAS VEGAS REVIEW-JOURNAL and THE LAS VEGAS SUN, daily newspapers regularly issued, published and circulated in the City of Las Vegas, County of Clark, State of Nevada, and that the advertisement, a true copy of which is attached, was continuously published in the LAS VEGAS REVIEW-JOURNAL or THE LAS VEGAS SUN for a period of ONE insertions from the period of NOVEMBER 24, 1990 to NOVEMBER 24, 1990, on the following days:

NOVEMBER 24, 1990

Signed:

Christy A. Ferguson

Subscribed and sworn to before me this

27th day of Feb., 1991

Maria C. Therien

Notary Public

MARIA C. THERIEN
Notary Public-State of Nevada
CLARK COUNTY
My Appointment Expires May 11, 1994



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