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DESCRIPTION OF LEGAL ADVERTISING

Lx3½ Bill 559 . 3349008

TERMS: NET, PLEASE PAY FROM THIS INVOICE. IT'S DUE UPON PRESENTATION AND IS PAST DUE AFTER 15 DAYS.

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PROOF OF PUBLICATION

STATE OF NEVADA, COUNTY OF WASHOE .

Pat Fye

Washoe County Clerk

89520

P.O. Box 11130

Reno, NV

NOTICE IS HERBY GIVEN that Bill to 559 was introduced before the oard of County Commissioners of fashoe County at a meeting held on the 11th day of July, 1978; and by the slid Bill No. 559, it is proposed on arinonce be enacted entitled: "An Orinonce adopting the 1978 Edition of the National Electrical Code, together with such changes as ore necessary to

being first duly sworn, deposes and says: That as the legal clerk of THE NEVADA STATE JOURNAL, a daily newspaper published in Reno, in Washoe County, in the State of Nevada. That the notice ___ Notice Bill 559

of which a copy is hereto attached, was first published in said newspaper in its issue dated the

the full period of 1 days, the last publication thereof being in

Subscribed and sworn to before me this

 $_$ day of $_$

NANCY J. WELLS Notary Public - State of Nevada Washoe County

Notary Public

My Commission Expires Dec. 1, 1980

<u>14th</u> day of <u>July</u>, 19 78 and, ____ the issue of $_{July-14th}$, $_{1978}$.

county Commissioners, Washoe County Administration Building, 1205 Mill Street, Reno, Nevado, on the 25th day of July, 1978 or 9-15 c.m.

WASHOE COUNTY CLERK 324008-Bill 559
July 14

nuncations systems; providing penties for the violation thereof; resoling County Ordinance No. 84, as
mended; and providing other matrespective relating thereto."

NOTICE IS HEREBY GIVEN that typeritten copies of the soid proposed ormonas have been filed with the
bunty Clerk of the County of Wosoles of Nevada for use and exminorition by the public.

NOTICE IS HEREBY GIVEN that
poise of the amendments, changes
and additions to the 1978 Edition of
the National Electrical Code have
seen filed with the County Clerk of
cashoe County for the use and examusino by the public.

NOTICE IS HEREBY FURTHER GIVENtotal Bill 550 will be presented for
the regular meeting of the Washoe
ere regular meeting of the Washoe

Garlene

SUMMARY: Adopts 1978 Edition of National Electrical Code with changes; repeals County Ordinance No. 84.

BILL NO. <u>559</u>

ordinance no. 391

AN ORDINANCE ADOPTING THE 1978 EDITION OF THE NATIONAL ELECTRICAL CODE, TOGETHER WITH SUCH CHANGES AS ARE NECESSARY TO MAKE THE SAME APPLICABLE TO CONDITIONS IN WASHOE COUNTY AND SUCH OTHER CHANGES AS ARE DESIRABLE, RELATING TO GENERAL PROVISIONS, WIRING METHODS AND MATERIALS, EQUIPMENT FOR GENERAL USE, SPECIAL OCCUPANCIES, EQUIPMENT AND CONDITIONS AND COMMUNICATIONS SYSTEMS; PROVIDING PENALTIES FOR THE VIOLATION THEREOF; REPEALING COUNTY ORDINANCE NO. 84, AS AMENDED; AND PROVIDING OTHER MATTERS PROPERLY RELATING THERETO.

THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF WASHOE DO ORDAIN:

Section 1. <u>Definitions</u>. As used in this ordinance:
1. "National Electrical Code" means the 1978 Edition of the National Electrical Code adopted by the National Fire Protection Association.

2. "Person" includes a company, partnership, association or corporation as well as a natural person.

Sec. 2. National Electrical Code: Adoption; penalty.

1. The National Electrical Code, a copy of which has been placed on file in the office of the county clerk, together with such changes as are necessary to make the same applicable to conditions in Washoe County and such other changes as are desirable, which changes are contained in Sections 3 to 8, inclusive, of this ordinance, are hereby adopted by reference, incorporated herein and made a part hereof, and shall regulate all matters contained therein.

2. Any person violating any of the provisions of subsection 1 is guilty of a misdemeanor, and each such person is guilty of a separate offense for each day or portion thereof during which any violation of any of the provisions of subsection 1 is committed, continued or permitted. Upon conviction of any such violation, such person shall be punished by a fine of not more than \$500 or by imprisonment in the county jail for not more than 6 months, or by both such fine and imprisonment.

Sec. 3. Amendment of Article 90 of National Electrical Code. Article 90 of the National Electrical Code is amended by adding thereto eight new sections designated as sections 90-8. to 90-15., inclusive, which shall immediately follow section 90-7. and shall read as follows:

90-8. Enforcing Authority.

(a) Enforcement of this Code is the responsibility of the building and safety division of the department of public works. The enforcing authority is the county building inspector and his assistants.

(b) Upon notice by the occupants of a building, the county building inspector may require the correction of defects in existing wiring which are dangerous or likely to cause fire.

(c) The county building inspector may prohibit the sale, installation or use of any electrical appliance or fixture which, in his opinion, does not conform to this Code or is in some manner hazardous.

90-9. To Whom Permits May Be Issued.

(a) An electrical permit required by this Code may be issued to any person who complies with the provisions of chapter 624 of NRS and rules and regulations promulgated thereunder relating to contractors.

(b) It is unlawful and a violation of this Code for any person, whether acting as principal, servant, agent or employee, to do, or cause or permit to be done, any electrical work, except that specifically allowed herein, without first securing a permit from the building and safety division of the department of public works authorizing him to do so.

(c) Permits are not required for the following electrical

work:

The replacement of lamps, fuses and similar devices, (2) The connection of portable appliances to suitable

receptacles which have been permanently installed.

(3) The installation of temporary wiring for testing

electrical apparatus or equipment.

(d) In cases where an emergency or urgent necessity can be shown to exist, work may be begun prior to the issuance of a permit. A person who is licensed as required herein shall notify the Building and Safety Wivision of the Mepartment of bublic Works immediately upon beginning such work or as soon thereafter as possible. Application for a permit shall be made within 24 hours, exclusive of weekends and holidays.

(e) Any person who commences any electrical work for which a permit is required by this Code. without first having obtained a permit shall, if subsequently permitted to obtain a permit,

pay double the permit fee established in Section 90-11.

90-10. Application for Permit. (a) Application for a permit shall be made to the Building and Safety division of the department of public works by the person installing the work on forms supplied by the Duilding and Safety division. The application shall be accompanied by such plans, specifications and schedules as may be necessary to determine whether the proposed installation will conform to this Code. If the applicant has complied with all provisions of this Code, a permit for such installation shall be issued, but the issuance of a permit shall not be deemed permission to violate any of the requirements of this Code or any state law or county ordinance.

(b) A permit, when issued, shall be for the installation described in the application and no deviation therefrom shall be made without the written approval of the building and safety division of the department of public works. Permits

expire at the end of 1 year.

(c) No other permit shall be issued to any applicant who, 10 days after he has been notified to correct defective work, has failed to correct such work.

90-11. Permit Fees for New Construction. (a) Residential (Single or Multifamily). Fees listed below in this paragraph for residential new construction shall include all electrical installations when the formula is applied to the square footage of area:

(1) Two cents per square foot plus \$5 for permit issuance.

(2) One cent per square foot for detached or attached

garages on the same service. (b) Commercial, Industrial, Assembly Building and All Alterations. One cent per square foot. The minimum fee for

[HT - BLD - HELD TO BLD - HELD -	
(c) Incidental Fee Schedule. The minimum fee for any	
plactrical permits is S5 plus incidentals.	
The installation of a new service, subservice or dis-	3 2.50
twibution panel on a residence. 100 A minimum	, 2.50
The installation of a new service, subservice or dis-	3.00
tribution panel on a commercial structure	
(1) Cooking appliances: For each electrical range (standard)	.50
For cooking units with oven (domestic)	.50
For each additional oven (domestic)	.50
For each electric range (commercial)	.50
For ovens (commercial) not over 15,000 W	1.50
For overs (commercial) Over 15,000 W	3.00
pow cach fru-kettle, toaster, Wallie IION,	1.00
coffee maker or cooking device under 3,000 W	1.00
por oach fry-kettle, toaster, Wallie 11011,	1.50
coffee maker or cooking device 3,000 w of over	
(2) Fixtures:	.20
Fixtures, each	
(3) Generators:	3.00
Not more than 5 kW	5.00
Over 5 kW and not over 15 kW	10.00
Over 15 kW NOTE: For the inspection of the installation of	
conorator cet, the same ice shall be all the	
charged as is provided for the motor or the same mp,	
but no charge shall be made for the generator	
installation when in connection with any such	
The base was an archard cot	
(4) Heaters, heating appliances and hair divers:	E0.
For each air heater including 1,650 W	.50 1.00
For each air heater over 1,650 W	1.00
For each water heater	•50
For each hair dryer	1.50
For infra-red drying units not over 15,000 W	3.00
For infra-red drying units over 15,000 W	1.00
For kilns	
(5) Home appliances:	.50
Clothes dryer	.50
Dishwasher	. 50
Furnace Garbage disposal	.50
Kitchen fan	.50
(6) Miscellaneous:	
For each moving picture machine, including	
sound equipment used in connection therewith	2.50
Por each cailing fan	1.00
For other permanently connected rans with a	1.00
maker of not more than 1/2 NP	1.00
For all motors (permanently connected fans)	
the same as indicated in the motor table of fees	
specified in paragraph (7) below.	2.50
For each X-ray machine	1.00
For each sterilizer	1.00
For each dental unit For each barber pole	1.00
For each capacitor over 5 kVA capacity	1.00
and the transformer type of the transformer type of the transformer	1.50
For each self-contained vegetable and meat case	1.00
Townsight deep-freeze box	1.00
For each beverage and ice cream cabinet	1.00
14 Table 1 and	

[발생발생]	25일만 그 보는 그는 그리다고
For each drinking fountain	\$.50
For each show case with lights	1.00
For each time clock	•50
For each unitized type kitchen	2.50
(7) Motors:	
Not over 1 hp	•50
Over 1 hp and not over 3 hp	1.50
Over 3 hp and not over 8 hp	2.00
Over 8 hp and not over 15 hp	2.50
Over 15 hp and not over 50 hp	3.00
Over 50 hp and not over 100 hp	5.00
Over 100 hp and not over 500 hp	10.00
Over 500 hp	15.00
Extra outlet for portable motors over 2 hp each	1.00
(8) Signs and high potential gas tube lighting	10.00
, (9) Transformers:	
₩Not over 1/2 kW	•50
Over 1/2 kW and not over 1 kW	1.00
Over 1 kW and not over 5 kW	1.50
Over 5 kW and not over 10 kW	2.00
Over 10 kW and not over 15 kW	2.50
Over 15 kW and not over 25 kW	3.00
Over 25 kW and not over 50 kW	4.00
Over 50 kW and not over 100 kW	5.00
Over 100 kW and not over 500 kW	7.50
Over 500 kW	10.00
NOTE: For any electrical work for which a permit i	s required

NOTE: For any electrical work for which a permit is required but for which no fee is herein provided, an inspection fee at the rate of \$16 per hour per man plus 10 cents per mile round trip traveled will be charged.

90-12. Inspections.

(a) All electrical work shall be inspected by the building and safety division of the department of public works to insure compliance with the requirements of this Code.

(b) The person doing the work authorized by the permit shall notify the building and safety division of the department of public works that such work is ready for inspection. Such notice shall be given not less than 24 hours before the inspection is desired and, in the case of rough wiring inspection, should be coordinated with the building frame and

rough-in plumbing inspection. (c) No part of the wiring installation shall be hidden from view by the permanent placement of parts of the building prior to inspection and approval by the building and safety division of the department of public works. The county building inspector has the authority to remove or require the removal of any obstruction that prevents proper electrical inspection.

90-13. Connection to Installation. It is unlawful and a violation of this Code for any person to make connections from a source of electrical energy or to supply electrical service to any electric wiring, device, appliance or equip-

ment:

(a) For the installation of which a permit is required, unless such person has obtained satisfactory evidence from the building and safety division of the department of public works that such wiring, device, appliance or equipment is in all respects in conformity with all applicable laws and ordi

(b) Which has been disconnected or ordered to be disconnected by the building and safety division of the department of public works, or the use of which has been ordered by the building and safety division to be discontinued until a certificate of approval has been issued by the building and safety division authorizing the reconnection and use of such wiring, device, appliance or equipment. The building and safety division shall notify the serving utility of such order to discontinue use.

90-14. Nonliability of Washoe County. This Code shall not be construed to relieve from responsibility any person owning, operating, controlling or installing any electric wiring, electric devices or electrical material for damages to persons or property caused by any defect therein, nor shall Washoe County be liable for a certificate of inspection issued by the building and safety division of the department of public works.

90-15. Board of Appeals.

(a) Any person aggrieved by a decision of the building and safety division of the department of public works may appeal to the board of appeals created pursuant to the provisions of Section 204 of the Uniform Building Code within 20 days from the mailing or delivery of written notice of the decision to the person aggrieved.

(b) Appeal may be made by filing a written notice of appeal with the building and safety division of the department of public works accompanied with a filing fee of \$25. All such fees shall be deposited by the county building inspector

to the county.

(c) The county building inspector shall convene the board of appeals within 30 days from the filing of the notice of appeal.

Sec. 4. Section 210-8. of the National Electrical Code is hereby amended to read as follows:

210-8. Ground-Fault Circuit Protection.

Dwelling Units. (1) All 120-volt, single-phase, 15- and 20-ampere receptacles installed in bathrooms and garages of dwelling units shall have ground-fault circuit interrupter protection for personnel.

(2) All 120-volt, single-phase, 15- and 20-ampere receptacles installed outdoors where there is direct grade level access to the dwelling unit and to the receptacles shall have ground-fault circuit interrupter protection for personnel.

Bathroom: A bathroom is an area including a basin with one or more of the following: a toilet, a tub, or a shower.

Such ground-fault circuit interrupter protection may be provided for other circuits, locations, and occupancies, and where used, will provide additional protection against lineto-ground shock hazard.

See Section 215-9 for feeder protection.

(b) Construction Sites. All 120-volt single-phase, 15and 20-ampere receptacle outlets which are not a part of the permanent wiring of the building or structure, and which are in use by employees shall have ground-fault circuit-interrupters for personnel protection.

Exception: Receptacles on a portable or vehicle-mounted generator rated not more than 5 kW, where the circuit conductors are insulated from the generator frame as permitted in

Section 250-6.

Sec. 5. Section 230-2. of the National Electrical Code is hereby amended to read as follows:

230-2. Number of Services; Service Entrance Equipment Poles. (a) Number of Services. A building or other structure served shall be supplied by only one set of service drop or service lateral conductors.

Exception No. 1: For fire pumps where a separate service

is required.

Start *Exception No. 2: For emergency electrical systems where a separate service is required.

Exception No. 3: Multiple-Occupancy Buildings.

a. By special permission, in multiple-occupancy buildings where there is no available space for service equipment acces-

sible to all the occupants.

b. Buildings of multiple occupancy shall be permitted to have two or more separate sets of service-entrance conductors which are tapped from one service drop or lateral, or two or more subsets of service-entrance conductors shall be permitted to be tapped from a single set of main service-entrance conductors.

DEFINITION: Subsets of service-entrance conductors are taps from main service conductors run to service equipment.

Exception No. 4: Capacity Requirements. Two or more ser-

vices shall be permitted:

a. Where the capacity requirements are in excess of 3000 amperes at a supply voltage of 600 volts or less; or

b. Where the load requirements of a single-phase instal-

lation are greater than the serving agency normally supplies through one service; or

c. By special permission. Exception No. 5: Buildings of Large Area. By special permission, for a single building or other structure sufficiently large to make two or more services necessary.

Exception No. 6: For different characteristics, such as for different voltages, frequencies, or phases, or for dif-

ferent uses, such as for different rate schedules.

Exception No. 7: For the purpose of Section 230-45 only, underground sets of conductors, size 1/0 and larger, running to the same location and connected together at their supply end but not connected together at their load end shall be considered to be one service lateral.

(b) Service Entrance Equipment Poles. The minimum requirements for all service entrance equipment poles, permanent

and temporary, are:

(1) Construction grade solid timber (not laminated) having minimum cross-section of 6 inches x 6 inches or a circular pole having a minimum top circumference of 16 inches, sixteen feet in height above the ground. Poles shall be properly installed 4 feet deep or in a manner approved by the building and safety division of the department of public works and the servicing utility company.

(2) Permanent service poles shall be treated with an approved wood preservative according to the standards of the

servicing utility company.

The minimum services for all permanent use shall be 100-amp-120/240 volt single phase or three phase. All outdoor switches, circuit breakers, receptacles, control equipment and metering devices shall be raintight (NEMA 3R) standard equipment. Smaller services for temporary and some permanent use may be installed with the approval of the county building inspector.

Sec. 6. Section 230-28. of the National Electrical Code is hereby amended to read as follows:

230-28. Service Masts As Supports.

(a) Where a service mast is used for the support of servicedrop conductors, it shall be of adequate strength or be supported by braces or guys to withstand safely the strain imposed by the service drop. Where raceway-type service masts are used, all raceway fittings shall be approved for the purpose.

(b) The minimum size periscope service riser shall be 1-1/2 inches rigid steel conduit. Conductors may be copper or aluminum of the required ampacity. Branch circuit panels shall have a 100-A capacity and space for the equivalent of 16 single pole protective devices. Service entrance panels shall be provided with main breaker and switch. A raceway for subfeeders shall be a minimum of 1-1/2 inches trade size.

Sec. 7. Section 230-72. of the National Electrical Code is hereby amended to read as follows:

230-72. Grouping of Disconnects.

(a) Sets of Disconnects. Where supplied by one service drop or service lateral, the two to six service disconnecting means permitted in Section 230-71 shall be grouped and each marked to indicate the load it serves.

Exception No. 1: Services as permitted in Section 230-2. Exception No. 2: One of the two to six service disconnecting means permitted in Section 230-71, when used only for a water pump also intended to provide fire protection, shall be permitted to be located remote from the other disconnect-

Emergency or Fire Pump Services. The one or more additional service disconnecting means for fire pumps or for emergency services shall be installed sufficiently remote from the one to six service disconnecting means for normal services to minimize the possibility of simultaneous interruption of supply.

See Sections 700-6(c) and 700-6(d) for emergency system

services.

(c) Location. The service disconnecting means shall be installed either inside or outside of a building or other structure at a readily accessible location nearest the point of entrance of the service-entrance conductors.

(d) In a multiple-occupancy building, each occupant shall have access to his disconnecting means. A multiple-occupancy building having individual occupancy above the second floor shall have service equipment grouped in a common accessible location.

The disconnecting means shall consist of not more than six

switches or six circuit breakers.

Multiple-occupancy buildings that do not have individual occupancy above the second floor shall be permitted to have service conductors run to each occupancy in accordance with Section 230-2, Exception No. 3, and each such service may have not more than six switches or six circuit breakers.

(e) Furnace Rooms. All furnace and boiler rooms in buildings of Uniform Building Code groups A, E, I, H, B, and R require a disconnect means outside a furnace and boiler room conveniently located to disconnect all boiler and furnace or fuel controls therein in case of emergency.

Sec. 8. Section 250-92. of the National Electrical Code is hereby amended to read as follows:

250-92. Installation. Grounding conductors shall be in-

stalled as specified in (a) and (b) below.

(a) Grounding Electrode Conductor. A grounding electrode conductor or its enclosure shall be securely fastened to the surface on which it is carried. A No. 4 or larger conductor shall be protected if exposed to severe physical damage. A No. 6 grounding conductor that is free from exposure to physical damage shall be permitted to be run along the surface of the building construction without metal covering or protection where it is rigidly stapled to the construction; otherwise, it shall be in rigid metal conduit, intermediate metal conduit, electrical metallic tubing, or cable armor. Grounding conductors smaller than No. 6 shall be in rigid metal conduit, intermediate metal conduit, electrical metallic tubing, or cable armor.

Metal enclosures for grounding conductors shall be electrically continuous from the point of attachment to cabinets or equipment to the grounding electrode, and shall be securely fastened to the ground clamp or fitting. Metal enclosures that are not physically continuous from cabinet or equipment to the grounding electrode shall be made electrically continuous by bonding each end to the grounding conductor. Where intermediate metal conduit is used for protection for a grounding conductor, the installation shall comply with the requirements of Article 345. Where rigid metal conduit is used as protection for a grounding conductor, the installation shall comply with the requirements of Article 346. Where electrical metallic tubing is used, the installation shall comply with the requirements of Article 348.

Aluminum or copper-clad aluminum grounding conductors shall not be used where in direct contact with masonry or the earth or where subject to corrosive conditions. Where used outside, aluminum or copper-clad aluminum grounding conductors shall

not be installed within 18 inches of the earth.

The Herbert Ufer grounding system shall be used as the method of grounding all services. Tests shall meet requirements of the latest edition of the National Electrical Code for installation and tests. A minimum of 20 feet of #4 bare copper wire shall be installed in the footing of foundations for house or commercial buildings, bonded to the footing reinforcing bar every 18 inches. Copper wire shall not touch the earth. Where the ground wire leaves the foundation wall, the wire shall be protected by conduit pipe. Services of over 200 A shall comply with a larger size of copper wire in footings pursuant to the latest edition of the National Electri-

cal Code.. Equipment Grounding Conductor. An equipment grounding

conductor shall be installed as follows:

(1) Where it consists of a raceway, cable tray, cable armor, or cable sheath or where it is a wire within a raceway or cable, it shall be installed in accordance with the applicable provisions in this Code using fittings for joints and terminations approved for use with the type raceway or cable used. All connections, joints, and fittings shall be made tight using suitable tools.

(2) Where it is a separate grounding conductor as provided in Section 210-7 or by special permission as provided in Section 250-57(c), it shall be installed in accordance with (a) above in regard to restrictions for aluminum and

also in regard to protection from physical damage.

Exception: Sizes smaller than No. 6 shall not be required to be enclosed in a raceway or armor where run in the hollow spaces of a wall or partition or where otherwise installed so as not to be subject to physical damage.

Sec. 9. Repeal of County Ordinance No. 84. Washoe County Ordinance No. 84 entitled "AN ORDINANCE OF THE COUNTY OF WASHOE REGULATING THE INSTALLATION, REPAIR, AND MAINTENANCE OF ELECTRICAL EQUIPMENT, WIRING, AND DEVICES; PROVIDING FOR THE ISSUANCE OF PERMITS FOR ELECTRICAL WORK AND THE INSPECTION THEREOF; PROVIDING FOR THE COUNTY'S NON-LIABILITY IN CERTAIN CASES; PROVIDING PENALTIES FOR THE VIOLATION THEREOF; REPEALING ALL ORDINANCES AND PARTS OF CRDINANCES IN CONFLICT THEREWITH," as amended, is hereby repealed.

Sec. 10. Effective date. This Ordinance shall be in full force and effect from and after its adoption pursuant to NRS 244.105.

Proposed on the 11th day of July , 1978.

Proposed by Commissioner Rusk, Nelson, Farr, Stoess, & Brown Passed on the 25th day of July , 1978.

Commissioners: None

Vote:

Ayes: Commissioners: Rusk, Nelson, Farr, Stoess & Brown
Nays: Commissioners: None

Chairman of the Board

ATTEST:

ALEX COON CLERK

Absent:

CHIEF DEPUTY

County Clerk

This Ordinance shall be in force and effect from and after the 25% day of ______, 1978.

ORDINANCE NO. 391

SECTION 90-11 (National Electrical Code) amended by ORD 515 (Bill 686) effective November 25, 1981, by increasing service fees for issuing permits and making inspections