

BILL NO. 2000-32

ORDINANCE NO. 5221

AN ORDINANCE TO ADOPT THE 1999 EDITION OF THE NATIONAL ELECTRICAL CODE, TOGETHER WITH AMENDMENTS AND SUPPLEMENTARY MATERIAL, AND TO PROVIDE FOR OTHER RELATED MATTERS.

Proposed by: Paul Wilkins
Director of Building and Safety

Summary: Adopts the 1999 Edition of the National Electrical Code, together with amendments and supplementary material.

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, [1996] 1999 Edition, hereby designated as Part 1 of this Chapter;

(B) A document entitled "A Supplemental Document Amending the National Electrical Code, [1996] 1999 Edition," deleting from and adding to the National Electrical Code, [1996] 1999 Edition, hereby designated as Part 2 of this Chapter; and

(C) The Southern Nevada [1996 Electrical Code Amendments,] Amendments to the 1999 National Electrical Code, hereby designated as Part 3 of this Chapter.

SECTION 2: The document entitled the "Southern Nevada Amendments to the 1999 National Electrical Code" is modified as set forth in Sections 3, 4 and 5 of this Ordinance.

SECTION 3: The amendment concerning Article 225-32 is hereby modified so that the exception to be added, Exception No. 5, reads as follows:

Exception No. 5: For accessory buildings to single family dwellings, or for buildings with shunt trip devices complying with Article 230-7(c) of these Amendments, the disconnecting means shall be permitted to be located elsewhere on the premises.

1 SECTION 4: The amendment concerning Article 348-5 is hereby modified to specify
2 that Subsections (6), (7) and (8) follow rather than precede the Exception.

3 SECTION 5: Where necessary for the sake of consistency, references in the "Southern
4 Nevada Amendments to the 1999 National Electrical Code" to "Article" numbers shall be deemed to
5 refer to "Section" numbers as contemplated in the National Electrical Code.

6 SECTION 6: The National Electrical Code, 1996 Edition, the supplemental document
7 amending that edition, and the Southern Nevada 1996 Electrical Code Amendments, are hereby
8 repealed in their entirety.

9 SECTION 7: If any section, subsection, subdivision, paragraph, sentence, clause or
10 phrase in this ordinance or any part thereof, is for any reason held to be unconstitutional, or invalid
11 or ineffective by any court of competent jurisdiction, such decision shall not affect the validity or
12 effectiveness of the remaining portions of this ordinance or any part thereof. The City Council of the
13 City of Las Vegas hereby declares that it would have passed each section, subsection, subdivision,
14 paragraph, sentence, clause or phrase thereof irrespective of the fact that any one or more sections,
15 subsections, subdivisions, paragraphs, sentences, clauses or phrases be declared unconstitutional,
16 invalid or ineffective.

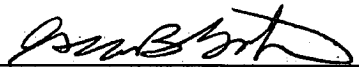
17 SECTION 8: Whenever in this ordinance any act is prohibited or is made or declared
18 to be unlawful or an offense or a misdemeanor, or whenever in this ordinance the doing of any act is
19 required or the failure to do any act is made or declared to be unlawful or an offense or a
20 misdemeanor, the doing of such prohibited act or the failure to do any such required act shall
21 constitute a misdemeanor and upon conviction thereof, shall be punished by a fine of not more than
22 \$1,000.00 or by imprisonment for a term of not more than six months, or by any combination of such
23 fine and imprisonment. Any day of any violation of this ordinance shall constitute a separate offense.

24 SECTION 9: All ordinances or parts of ordinances or sections, subsections, phrases,
25 ...
26 ...
27 ...
28 ...

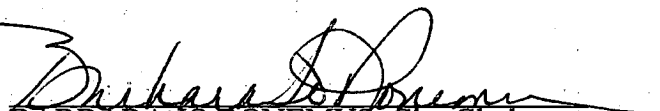
1 sentences, clauses or paragraphs contained in the Municipal Code of the City of Las Vegas, Nevada,
2 1983 Edition, in conflict herewith are hereby repealed.

3 PASSED, ADOPTED and APPROVED this 17th day of May, 2000.

4 APPROVED:

5 By 
6 OSCAR B. GOODMAN, Mayor

7 ATTEST:

8 
9 BARBARA JO RONEMUS, City Clerk

10
11 APPROVED AS TO FORM:

12 Val Steed 4-10-2000
13 Date

1 The above and foregoing ordinance was first proposed and read by title to the City Council on
2 the 19th day of April, 2000 and referred to the following committee composed of the
3 Councilmen Weekly and Mack for recommendation; thereafter the said committee reported
4 favorably on said ordinance on the 17th day of May, 2000 which was a regular meeting of
5 said Council; that at said regular meeting, the proposed ordinance was read by title to the City
6 Council as introduced and adopted by the following vote:

7 VOTING "AYE": Mayor Goodman and Councilmembers M. McDonald, Reese, Brown,
8 L. B. McDonald, Weekly and Mack

9 VOTING "NAY": NONE

10 EXCUSED: NONE

11 APPROVED:

12
13 
14 OSCAR B. GOODMAN, Mayor

15 ATTEST:

16 
17 BARBARA JO RONEMUS, City Clerk

**A SUPPLEMENTAL DOCUMENT AMENDING
THE NATIONAL ELECTRICAL CODE, 1999 EDITION**

Section 1: Certain provisions of the National Electrical Code, 1999 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, 1999 Edition.

Section 2: Chapter 1 of the National Electrical Code, 1999 Edition, is hereby amended by adding thereto a new article designated as Article 120, reading as follows:

Article 120 - ADMINISTRATION

Section 120-1. ABBREVIATIONS AND DEFINITIONS. For the purpose of this Supplemental Document, certain terms, phrases, words and their derivatives shall be construed as specified in this section. Where terms are within the context with which they are used. Webster's Third New International Dictionary of the English Language, Unabridged, Copyright 1981, shall be considered as providing ordinarily accepted meanings. Words used in the singular include the plural and the plural the singular. Words used in the masculine gender include the feminine and the feminine the masculine.

"APPROVED" - As to materials, equipment or method of construction, refers to approval by the Building Official as the result of investigation and tests by recognized authorities, technical or scientific organizations. Unless otherwise stated, a current listing of a product by the Underwriter's Laboratories (UL) or other testing agency approved by the Building Official shall be considered as an approval of that product.

"AWG" - American Wire Gauge; a standard of conductor measure.

"BUILDING OFFICIAL" - The officer or employee of the City who is charged with the administration and enforcement of the building and technical codes; or the Authority Having Jurisdiction as specified in the National Electrical Code. Except as otherwise provided, the term includes a designated representative of the Building Official who is duly authorized with respect to a particular act or responsibility.

"CITY ELECTRICAL INSPECTOR" - One or more of the electrical inspectors employed by the City.

"FIRE ASSEMBLY AND FIRE RESISTIVE CONSTRUCTION" - As defined in Chapter 4 of the UBC.

"LISTED, LABELED, and LISTING" - Refer to equipment and materials which are shown in a list published by an approved testing agency, qualified and equipped for experimental testing and maintaining an adequate periodic inspection of current productions and whose listing states that the equipment complies with recognized safety standards.

"MASTER" - A generic term including Master Electricians, Master Neon Electricians and Master Technicians certified as such by Clark County before July 1, 1985 as well as individuals who have passed the appropriate examination(s) of the State of Nevada Contractor's Board subsequent

to July 1, 1985 and otherwise met the qualifications of and been accepted by the State of Nevada Contractor's Board as Qualified Individuals for the full extent of Category C-2 Electrical Contractor after July 1, 1985.

"MASTER NEON ELECTRICIAN" - A person capable of laying out, installing and supervising electrical and gas-tube sign fabrication and erection who was certified as such by Clark County before July 1, 1985.

"MASTER TECHNICIAN" - A person capable of laying out and supervising commercial sound, radio, television, and low voltage control systems involving solid state devices or electronic tubes who was certified as such by Clark County before July 1, 1985.

"OCCUPANCY" - The purpose for which a building, or part thereof, is used or intended to be used.

"QUALIFIED INDIVIDUAL/QI" - For the purposes of this ordinance, an individual who has passed an appropriate examination(s) of the State of Nevada Contractor's Board subsequent to July 1, 1985 and otherwise met the qualifications of and been accepted by the State of Nevada Contractor's Board as a Qualified Individual in one or more of the subcategories of electrical contracting after July 1, 1985.

"UBC" - Uniform Building Code, adopted as the Building Code of the City of Las Vegas.

"UL" - Underwriters' Laboratories, Inc.

"UNIT" - One home, apartment building, store, warehouse, hall auditorium, condominium unit or hotel. Each interior remodel for single occupancy of a store or warehouse shall establish a new unit.

Section 120-2. AUTHORITY AND ENFORCEMENT

I. **Administration.** The purpose of this Code is to provide requirements for installation of electric wiring devices, appliances, and equipment within the City of Las Vegas. The provisions of this Code are intended to be used in conjunction with the Uniform Administrative Code adopted by the City of Las Vegas (the "UAC") and other appropriate codes and ordinances. Several provisions of this Code are parallel or similar to provisions of the UAC. Both codes shall be applied to the extent possible. In the event of conflict, the provisions of Section 106 of the UAC shall govern, unless otherwise deemed appropriate by the Building Official or his designee.

II. **Compliance.** It shall be unlawful for any person, firm, or corporation to use within the City of Las Vegas any electrical wiring, fixture, appliance, or apparatus that does not conform to the requirements of this Code and the UL (or any other approved testing agency with equivalent standards). Upon notice or otherwise, the City Electrical Inspector is authorized to conduct any inspection necessary to ascertain that all electrical wiring, fixtures, appliances, and apparatuses for use, used, or installed within the City comply with the requirements of this Code and the UL (or any other approved testing agency with equivalent standards).

III. Unlawful Installations. If the City Electrical Inspector finds any part of any electric light or power wiring, appliance, apparatus, or fixture in or upon any building in the City of Las Vegas to have been installed without a permit or installed in such a manner to constitute a hazard, the Building Official 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 the 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 Building Official. It shall be unlawful for any person to use any current in or through such disconnected wiring, appliance, apparatus, or fixture, or otherwise supply current to such disconnected wiring, fixture, appliance, or apparatus, or to remove, break, or deface any seal so placed.

SECTION 120-3. PERMITS, CERTIFICATION AND LICENSING

I. Permit Requirements.

A. General. No wiring shall be installed or layed out for any lights, power, heating devices, or any apparatus which generates, transmits, transforms, or utilizes any electricity, including private telephone systems, nor shall any alteration or addition be made in existing wiring without securing a permit therefor; provided, however, that no permit shall be required for service work or changeouts up to the first means of disconnect, in single family dwellings only, of existing air conditioning/heating units which have identical ampacity requirements. Permit applications must describe the proposed work and shall be made in writing by the person, firm or other entity that will do the work. The application must identify the work location by street and house number, and the permit shall be valid only for that location.

B. Drawings. Each application for a permit to install electrical wiring in a single family dwelling or an accessory building (shed, garage, etc.) must have attached thereto a drawing showing the electrical layout, including the wire apparatus. Load calculations must be included if required by the City Electrical Inspector or by the Building Official or his designee. Each application for a permit to install electrical wiring in a structure other than a single family dwelling or an accessory building must have attached thereto drawings showing in detail the electrical layout, including the wire apparatus and load calculations. The City Electrical Inspector may waive drawings for small, insignificant structures or additions.

II. Journeyman Electrician. A Journeyman Electrician is an individual who has demonstrated qualifications in having the skills to perform independent work in the electrical field or to supervise lesser qualified electricians. The individual has taken and passed the Journeyman Electrician examination given by an independent agency accepted by the Building Official. Such examination shall be designed for the purpose of establishing qualifications to perform the work of a Journeyman Electrician. An individual holding a valid, current certificate of Journeyman Electrician qualification

from an accepted independent testing agency or from a political subdivision of the State of Nevada within the geographic boundaries of Clark County may be recognized as a Journeyman Electrician.

III. Master Electrician and Qualified Individual.

A. General. A Master Electrician and Qualified Individual (QI) are individuals who have demonstrated competency to lay out, inspect, install and supervise all aspects of electrical work in one or more categories of the field. The term "Master" shall be considered generic to include Master Neon Electricians, Master Electricians, and Master Technicians who were certified under the Joint Board of Electrical Examiners of Clark County program prior to July 1, 1985.

B. Duties.

(1) Supervision and Inspection. The Master or QI is responsible to supervise and inspect the work to be performed pursuant to the scope of the permit and the approved plans and verify that said work shall meet all the requirements of this Code, and to ensure that the work is installed in good workmanlike manner. The Master or QI is responsible to the Building Official for conformance with the requirements of this Code and other applicable standards and requirements.

(2) Plan/Calculation Preparation. When plans and calculations have been required pursuant to this Code or other building-related code and are not done by an electrical engineer who is responsible for the work, the Master or QI is responsible for the correctness of calculation and design in conformance to the Electrical Code of the City of Las Vegas. This includes all work provided for review by the Building Official prior to issuance of a permit or provided for approval of a change to approved plans. Electrical plans shall be prepared only by one or more of the following: an electrical engineer registered in the State of Nevada, an architect registered in the State of Nevada, a Master, or a QI. Plans prepared by an engineer or architect shall be stamped, dated, and signed by that person. Plans prepared by a Master or a QI must be signed by that person and shall indicate whether the person is a Master or a QI.

(3) Pretesting Required. It is the responsibility of the Master or QI to ensure that all required life safety systems provided in any building (i.e., fire alarms, emergency generators, duct detector devices, voice alarm/paging systems, central controls, and other electrical systems) are pretested and in proper working order prior to making inspection requests to the Building Official.

C. Certification. A certification issued by a third-party independent agency in compliance with the following standards and maintained in current standing by renewal of the certification shall be recognized by the Official as meeting the technical requirements inherent in the duties of a Master or QI stated above:

(1) A Master Electrician, Master Neon Electrician or Master Technician who was previously tested and certified under the Joint Board of Electrical Examiners of Clark County Program prior to July 1, 1985.

(2) **A Qualified Individual** who, after July 1, 1985, has taken and passed the qualification examination of the State of Nevada Contractor's Board (or their authorized third-party testing agency) for one or more categories of electrical contracting.

The City of Las Vegas accepts a QI who has been tested and certified by the State of Nevada Contractor's Board as being competent to perform duties equivalent to any or all functions of Masters identified in the Electrical Code of the City of Las Vegas to the extent of this qualification. This means that a Qualified Individual must be verified as competent in the specific area of electrical work related to the scope of work requested for the permit.

D. Renewal of Certificates. It is the duty of every Master and QI to maintain Master and QI certifications in a current active status in accordance with the third-party testing agency accepted by the State of Nevada Contractor's Board and to renew as required.

E. Currency of State Certification. A Master or QI found not to meet the qualification standard of the State of Nevada Contractor's Board for a Qualified Individual in any electrical contractor's license classification, or whose certification has been revoked, shall not be recognized as certified, until that person again meets the standards of certification by re-examination.

F. Multiple Affiliations. In order for a Master or QI to act as such on behalf of more than one electrical contracting business, the Master or QI must have supervisory responsibility for, and at least a 50% ownership interest in, each such business.

IV. Contractors' Responsibilities.

A. Business License. Any person engaged in the business of installing electrical wires (including, but not limited to power, signal, or control fixtures, appliances, apparatus, raceways or conduits, or any parts thereof), which utilize energy in any form and in connection with which electrical energy is used for any purpose whatsoever in the City of Las Vegas shall first secure the appropriate contractor's license from the State Contractor's Board and a contractor's business license from the City's Department of Finance and Business Services.

B. Competent Employees. No person, firm or corporation shall engage in the installation, alteration, construction of any electrical work, wiring devices, fixtures, appliances or equipment inside or outside of any building either by himself or through his agents or employees unless he holds an appropriate category of business license, and he or one of his employees holds an appropriate Master or QI certification or its equivalent, issued by the County. The contractor is responsible to hire competent employees to perform all electrical work.

1. Master or QI Required. It is the contractor's responsibility to employ at least one Master or QI of the appropriate category for permits requested to perform the duties of a Master or QI. In addition, the contractor shall ensure that all employees engaged in electrical work are qualified to perform that work. Upon written request by the City Electrical Inspector or other representatives of the Building Official, the contractor shall provide a written list of Masters, QI, and

other employees performing electrical work with their respective certification qualification control numbers and issuing agency, by each job or permit in effect.

2. **Supervision on Site.** Every building construction job site, at which there is electrical work being performed under a permitted scope of work, shall have one or more of the following persons present during work hours in a supervisory capacity for the permitted work:

- (a) A Master or QI, or,
- (b) A Journeyman electrician.

3. **Duties.** Each electrical contractor, whether he possesses a valid appropriate Master or QI certification or employs a person possessing either the Master or QI certification shall at all times be responsible for the proper supervision and inspection of the work to be performed pursuant to the scope of the electrical permit(s) issued to him and that said work shall meet all the requirements of the Electrical and Building Codes of the City of Las Vegas, and be installed in a workmanlike manner.

C. **Exception.** The requirements of this Subsection IV do not apply to work done under a permit issued to an owner/builder for a work in or on a one or two family dwelling used exclusively for living purposes, including any customary and incidental accessory structure, if the permittee:

- (A) Is the bona fide owner of the premises on which the structures are located; and
- (B) Occupies or demonstrates an intention to occupy those premises for living purposes.

SECTION 120-4. VIOLATION AND PENALTIES.

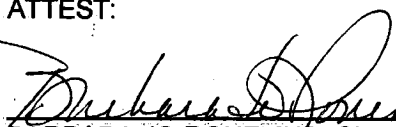
It shall be unlawful for any person, firm or corporation to erect, install, alter, repair, relocate, add to, replace, use, or maintain electrical installation or electrical fixtures in this jurisdiction, or cause the same to be done, contrary to or in violation of any of the provisions of this Code, as amended. Maintenance of an electrical installation or electrical fixtures which was unlawful at the time it was installed and which would be unlawful under this Code if installed after the effective date of this Code or any amendment thereto, shall constitute a continuing violation of this Code.

PASSED, ADOPTED and APPROVED this 17th day of May, 2000.

APPROVED:

By 
OSCAR B. GOODMAN, Mayor

ATTEST:


BARBARA JO RONEMUS, City Clerk

Approved as to form:

 4-10-2000
Date

AFFP DISTRICT COURT
Clark County, Nevada

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA)
COUNTY OF CLARK)

SS:

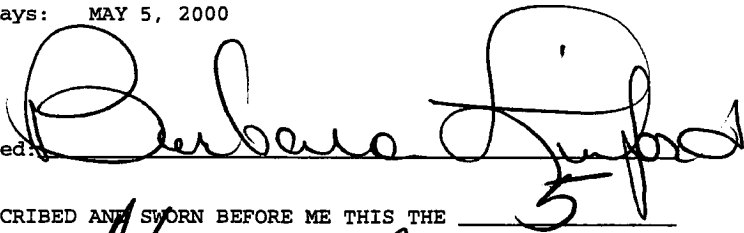
Barbara Linford, being 1st duly sworn, deposes and says:

That she is the 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 attached for,

LV CITY CLERK
1225916

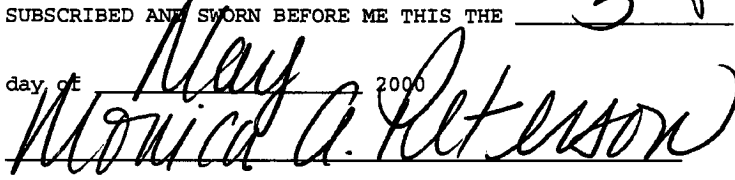
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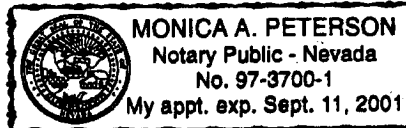
was continuously published in said Las Vegas Review Journal and/or Las Vegas Sun in 1
edition(s) of said newspaper issued from 05/05/00 to 05/05/2000, on
the following days: MAY 5, 2000

Signed: 

SUBSCRIBED AND SWORN BEFORE ME THIS THE 5

day of May 2000


Notary Public



BILL NO. 2000-32

AN ORDINANCE TO ADOPT THE 1999 EDITION OF THE NATIONAL ELECTRICAL CODE, TOGETHER WITH AMENDMENTS AND SUPPLEMENTARY MATERIAL, AND TO PROVIDE FOR OTHER RELATED MATTERS.

Proposed by: Paul Wilkins Director of Building and Safety

Summary: Adopts the 1999 Edition of the National Electrical Code, together with amendments and supplementary material.

At a City Council meeting April 19, 2000
BILL NO. 2000-32 WAS READ BY TITLE AND REFERRED TO RECOMMENDING COMMITTEE: Councilmen Weekly and Mack

COPIES OF THE COMPLETE BILL ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 1ST FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.
PUB: May 5, 2000
Las Vegas Review-Journal

RECEIVED
CITY CLERK

2000 MAY 15 P 2:04

AFFP DISTRICT COURT
Clark County, Nevada

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA)
COUNTY OF CLARK) SS:

Barbara Linford, being 1st duly sworn, deposes and says:

That she is the 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 attached for,

LV CITY CLERK
1248840

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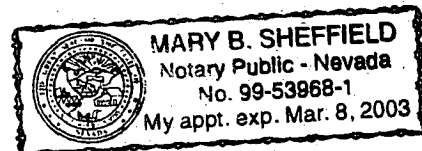
was continuously published in said Las Vegas Review Journal and/or Las Vegas Sun in 1 edition(s) of said newspaper issued from 05/19/00 to 05/19/2000, on the following days: MAY 19, 2000

Signed: Barbara Linford

SUBSCRIBED AND SWORN BEFORE ME THIS THE 21

day of June 2000

Mary B. Sheffield
Notary Public



RECEIVED
CITY CLERK

2000 JUN 27 A 10:52

BILL NO. 2000-32
ORDINANCE NO. 5221

AN ORDINANCE TO ADOPT THE 1999 EDITION OF THE NATIONAL ELECTRICAL CODE, TOGETHER WITH AMENDMENTS AND SUPPLEMENTARY MATERIAL, AND TO PROVIDE FOR OTHER RELATED MATTERS.

Proposed by: Paul Wilkins Director of Building and Safety
Summary: Adopts the 1999 Edition of the National Electrical Code, together with amendments and supplementary material.

The above and foregoing ordinance was first proposed and read by title to the City Council on the 19TH day of April, 2000, and referred to the following committee composed of Councilmen Weekly and Mack for recommendation. Thereafter the said committee reported favorably on said ordinance on the 17TH day of May, 2000, which was a regular meeting of said City Council; and 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": Mayor Goodman and Councilmembers M. McDonald, Reese, Brown, L.B. McDonald, Weekly and Mack
VOTING "NAY": NONE
EXCUSED: NONE

COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 1ST FLOOR, 400 STEWART AVENUE, LAS VEGAS, NEVADA.
PUB: May 19, 2000
Las Vegas Review-Journal