

ORDINANCE NO. 1843-2

An ordinance to adopt an Electrical Code for Jefferson County, Alabama

WHEREAS, on the 9th day of July 2020, at a regular meeting of the Jefferson County Commission the following resolution was adopted:

BE IT RESOLVED BY THE JEFFERSON COUNTY COMMISSION, AS FOLLOWS:

Section A That the Jefferson County Commission proposes to consider the adoption of an amendment of Ordinance 1843 electrical code by ordinance as authorized by Act No, 676 of the Regular Session of the Legislature of Alabama of 1967, approved September 8, 1967, (Alabama Acts, 1967, pp, 1501-1503), and Act No, 1055 of the Regular Session of the Legislature of Alabama of 1975, approved October 10, 1975, (Alabama Acts, 1975, pp, 2116-2118), and will hold a public hearing thereon at the regular meeting of the Jefferson County Commission to be held in the Jefferson County Commission Chambers in the County Courthouse in Birmingham, Alabama, on the 9th day of July 2020, at 9:00 A.M. Said code shall be known as the "Electrical Code of Jefferson County, Alabama, 2017."

Section B. That copies of said proposed "Electrical Code of Jefferson County, Alabama, 2017" shall be filed in the office of the Director of Development Services Department of Jefferson County, Alabama, Room 260, Courthouse by the 17th day of June, 2020, for the use and examination by the public during the regular business hours of said offices from said date until 9:00 AM, on the 9th day of July 2020.

Section C. That the Director of the Development Services Department of Jefferson County, Alabama, be and is hereby authorized, empowered and directed to cause fifteen (15) days' notice to be given of the time, place and purpose of the public hearing provided for in Section A of this resolution by publication of such notice once a week for three (3) successive weeks in a newspaper of general circulation in Jefferson County, which said notice shall be in words and figures as follows:

NOTICE OF PROPOSAL BY THE JEFFERSON COUNTY COMMISSION TO
ADOPT AN ELECTRICAL CODE FOR JEFFERSON COUNTY, ALABAMA,
BY ORDINANCE AND OF A PUBLIC HEARING THEREON,

Notice is hereby given that the Jefferson County Commission proposes to consider the adoption of an amendment to the previously adopted electrical code for Jefferson County, Alabama, to be known as the "Electrical Code of Jefferson County, Alabama, 2017," by ordinance, in order to update and amend the Ordinance 1843 and that a public hearing thereon will be held at the regular meeting of the Jefferson County Commission, in the Courthouse in Birmingham, Alabama, at 9:00 AM, on

the 9th day of July 2020, for the consideration of the same, Three (3) copies of said proposed "Electrical Code of Jefferson Count, Alabama, 2017" (consisting of the "2017 Edition of the National Electrical Code" that was made available for adoption by National Fire Protection Association, Inc., on August 4, 2016, which code has been copyrighted, and the "Special Provisions," which modify, revise or are in addition to provisions contained in the "2017 Edition of the National Electrical Code") will be on file in the office of the Director of Development Services Department of Jefferson County, Alabama, Room B200, Courthouse; by the 17th day of June 2020, for the use and examination by the public during the regular business hours of said offices from said date until 9:00 a.m. on the 9th day of July 2020; and

WHEREAS, the Jefferson County Commission now finds that all the provisions of said resolution have been complied with:

NOW, THEREFORE, BE IT ORDAINED BY THE JEFFERSON COUNTY COMMISSION AS FOLLOWS:

Section I. That Ordinance 1843-2 amendment updates identified scrivener's errors, updates format and layout, and updates fees to be consistent with online permitting software. The "Electrical Code of Jefferson County, Alabama, 2017," shall be effective and operative as such on and after the 3rd day of August, 2020, and on and after said date shall be binding in all unincorporated areas of Jefferson County, Alabama, and also in those parts of said county lying within the corporate limits of municipalities which have not adopted and are not enforcing municipal electrical codes.

Section 2. That, under this section, the Jefferson County Commission Minute Clerk shall spread said "Special Provisions" on the official minutes of the County Commission. (See the "Special Provisions" following Section 9 of this ordinance.)

Section 3. That Ordinance No. 1843-2, the "Electrical Code of Jefferson County, Alabama, 2017," adopted by the Jefferson County Commission on July 9, 2020, be, and the same is hereby amended, becomes effective as provided by said Section I; provided, however, that no cause of action nor any fine, forfeiture, judgment, penalty, right, remedy or defense accrued at said date, nor any prosecution or complaint pending at said date shall be in any manner released, affected, abated, or impaired by this ordinance or by the code adopted by this ordinance.

Section 4. That immediately after the adoption of this ordinance and in the presence of the Jefferson County Commission, the County Commission Minute Clerk shall further identify the "2017 Edition of the National Electrical Code" referred to in Section I hereof, which is before this Commission by appending thereto and signing a certificate in form substantially as follows:

"I, Millie Diliberto, County Commission Minute Clerk, hereby certify that the document (the "2017

Edition of the National Electrical Code") to which this certificate is appended is the document referred to in Section I of Ordinance No. 1843-2 adopted by the Jefferson County Commission at a regular meeting thereof held on this the 9th day of July 2020, and that I have signed this certificate in the presence of said Commission at said regular meeting on said date."



Millie Diliberto,
County Commission Minute Clerk

The County Commission Minute Clerk shall carefully preserve this ordinance and said documents adopted by Section I hereof as the "Electrical Code of Jefferson County, Alabama, 2017" as a part of the permanent records of her office.

Section 5. That it be, and hereby is proclaimed that the code adopted by Section I hereof is on file with the Jefferson County Commission Minute Clerk where the same may be inspected by the public and that the public is hereby notified of this ordinance by publication as set forth in Section 7 hereof.

Section 6. That prior to the 3rd day of August, 2020, the effective date of the code adopted by Section I of this ordinance, a copy of this ordinance and of the code adopted by Section I of this ordinance shall be placed on the Jefferson County Web Site and also made available to the general public at the office of the Development Services Department of Jefferson County, Alabama. A copy of this ordinance may be obtained in the Development Services Department for the cost of reproduction as established by Jefferson County Commission Administrative Order 03-1, As Amended.

Section 7. That the County Commission Minute Clerk shall cause a true copy of this ordinance to be promptly published in a newspaper published and of general circulation in Jefferson County, Alabama, and shall carefully preserve in her office a thus published copy of said ordinance as a part of the permanent records of her office.

Section 8. That any person who knowingly violates any of the provisions of the "Electrical Code of Jefferson County, Alabama, 2017" shall be subject to the penalty provided for by State Laws.

Section 9. That the provisions of this ordinance are severable. If any part of the ordinance is declared invalid or unconstitutional, such declaration shall not affect the part which remains.

SPECIAL PROVISIONS

Add CHAPTER 1 – ADMINISTRATION to the “2017 Edition of the National Electrical Code.”

CHAPTER 1 – ADMINISTRATION

SECTION 101 – TITLE AND SCOPE

101.1 – TITLE

Provisions in the following chapters and sections shall constitute and be known and may be cited as the "Electrical Code of Jefferson County, Alabama, 2017" hereinafter referred to as "this code".

101.2 – CODE REMEDIAL

101.2.1. General. This code is hereby declared to be remedial, and shall be construed to secure the beneficial interest and purposes thereof, which are public safety, health, and general welfare, by regulating installation and maintenance of all electrical systems and equipment.

101.2.2. Quality Control - Quality control of materials and workmanship is not within the purview of this Code except as it relates to the purpose stated herein.

101.2.3 Permitting and Inspection - The inspection or permitting of any building or plan under the requirements of this code shall not be construed in any court as a warranty of the physical condition of such building or the adequacy of such plan. Neither Jefferson County nor any employee thereof shall be liable in tort for damages for any defect or hazardous or illegal condition or inadequacy in such building or plan, nor for any failure of any component of such building, which may occur subsequent to such inspection or permitting.

101.3 – SCOPE

101.3.1. Applicability - The provisions of this code shall apply in all unincorporated areas of Jefferson County and also in those parts of said county lying within the corporate limits of municipalities which have not adopted and are not enforcing municipal electrical codes to every electrical installation, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and/or appurtenances thereto.

101.3.2. Federal and State Authority The provisions of this code shall not be held to deprive any federal or state agency, or any applicable governing body having jurisdiction, of any power or authority which it had on the effective date of this ordinance or of any remedy then existing for the enforcement of its orders, nor shall it deprive any individual or corporation of its legal rights as provided by law.

101.3.3. Appendices - The appendices included in this Code are not intended for enforcement unless specifically referenced in the code text or specifically included in the adopting ordinance.

101.4 – MAINTENANCE

All electrical installations and equipment, both existing and new, and all parts thereof shall be maintained in a safe condition. All devices and safeguards which are required by this code shall

be maintained in good working order. The owner, or his designated agent, shall be responsible for the maintenance thereof in accordance with this code.

101.5 – SPECIAL HISTORIC BUILDINGS

The provisions of this Code relating to the installation, alteration, repair, enlargement, restoration, replacement or relocation of an electrical system shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as Historic Buildings when such systems are judged by the Director of Development Services to be safe and in the public interest of health, safety and welfare regarding any proposed alteration, repair, enlargement, relocation or replacement.

101.6 – ELECTRICAL INSTALLATION OR MAINTENANCE BY HOMEOWNER

It shall be unlawful for any homeowner/ property owner to install or complete maintenance on their electrical systems. A licensed electrical contractor shall be required to perform all electrical installations and maintenance.

SECTION 102 – ORGANIZATION

102.1 – BUILDING OFFICIAL

A Building Official shall work in the Development Services Department and be appointed by the County Manager. Typically, the Building Official is the Building Inspection Services Manager or manager of the Building Division. The Building Official shall have the authority to render interpretations of this code and to adopt policies and procedures to clarify the application of its provisions. Such interpretations, policies, and procedures shall comply with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code.

102.2 – INSPECTORS

The Governing Body of the county may appoint such number of officers, inspectors, assistants, and other employees to carry out the provisions of this code.

102.3 – DEPUTIES

The Building Official may designate as his deputy an employee in the department who shall, during the absence or disability of the Building Official, exercise all the powers of the Building Official.

102.4 – RESTRICTION ON EMPLOYEES

No officer, inspector, assistant or employee connected with the department, except one whose only connection is as a member of the boards established by this code, shall be financially interested in the furnishing of labor, material, or appliances for the construction, alteration, or maintenance of electrical installations or in the making of plans or of specifications therefor, except for property owned by him and after satisfying the Personnel Board rule on conflict of interest. No such officer or employee shall engage in any work which is inconsistent with his duties or with the interests of the department.

102.5 – RECORDS

The Building Official shall keep, or cause to be kept, a record of the business of the department. All records shall be kept for a minimum period of seven (7) years as required by the Records Disposition Authority for County Commissions approved by the Jefferson County Commission on January 16, 2001, and amended by the Authority on April 22, 2015. The records of the department shall be open to public inspection during regular business hours.

102.6 – MODIFICATIONS

Where there are practical difficulties involved in carrying out the provisions of this code, the Building Official shall have the authority to grant modifications for the individual cases, upon

application of the owner or the owner's authorized agent, provided that the Building Official shall first find that special individual reason makes the strict letter of the code impractical, the modification is in compliance with the intent and purpose of this code and that such modification does not lessen health, accessibility, life and fire safety or structural requirements. The details of action granting modification shall be recorded and entered in the files of the Department of Development Services.

SECTION 103 – POWERS AND DUTIES OF THE BUILDING OFFICIAL

103.1 – RIGHT OF ENTRY

Whenever necessary to make an inspection to enforce any of the provisions of this Code, or whenever the Building Official has reasonable cause to believe that there exists in any building or upon any premises any condition or code violation which makes such building or premises unsafe, dangerous or hazardous, the Building Official may enter such building or premises in the areas described in 101.2 – CODE REMEDIAL at all reasonable times to inspect the same or to perform any duty imposed upon the Building Official by this Code, provided that if such building or premises is occupied, he shall first present proper credentials and request entry. If such building or premises is unoccupied, he/she shall first make a reasonable effort to locate the owner or other persons having charge or control of the building or premises and request entry. If such entry is refused, the Building Official shall have recourse to every remedy provided by law to secure entry.

When the Building Official shall have first obtained a proper inspection warrant or other remedy provided by law to secure entry, no owner or occupant or any other persons having charge, care or control of any building or premises shall fail or neglect, after proper request is made as herein provided, to promptly permit entry therein by the Building Official for the purpose of inspection and examination pursuant to this Code.

103.2 – STOP WORK ORDERS

Upon notice from the Building Official that work on any electrical installation is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall be immediately stopped. Such notice shall be in writing and shall be given to the owner of such property, or his agent, or to the person doing the work, and shall state the conditions under which work may be resumed. Where any emergency exists, verbal notice given by the Building Official shall be sufficient notice.

103.3 – REVOCATION OF PERMITS

The Building Official may revoke a permit or approval, issued under the provisions of this Code, in cases where there has been any false statement or misrepresentation as to a material fact in the application or plans on which the permit or approval was based. Administrative, technology or permit fees shall not be refunded in case of a revocation.

103.3.1 Misrepresentation of Application. The Building Official may revoke a permit or approval, issued under the provisions of this Code, in case there has been any false statement or misrepresentation as to a material fact in the application or plans on which the permit or approval was based. Permit fees shall not be refunded in case of revocation.

103.3.2 Violation of Code Provisions. The Building Official may revoke a permit upon determination by the Building Official that the construction, erection, alteration, repair, moving or demolition of the building for which the permit was issued is in violation of, or not in conformity with, the provisions of this Code.

103.4 – NON-CONFORMING WORK

Any person, firm or corporation engaged in the electrical business, or any person lawfully doing work under the provisions of this code, whose work does not conform to the regulations herein set

out, shall on notice from the Building Official make the necessary changes at once in order to remedy the same. If the work has not been so changed after ten (10) days-notice from the Building Official, the said Building Official may disconnect the premises on which such work is installed from the electrical services without further notice. Any person, firm or corporation having control of such work, failing or refusing to make said changes shall be punished, on conviction as provided in SECTION 113 – VIOLATIONS AND PENALTIES. It shall be unlawful for the property owner, or person in charge, or control of the property of any building, dwelling or dwelling unit to permit or maintain in or thereon any condition or situation concerning an electrical condition or situation that is contrary to or in violation of any provisions of this Code, or any related code or law.

103.5 – UNSAFE CONDITIONS/INSTALLATIONS

All electrical installations, regardless of type, which are unsafe or which constitute a hazard to human life, health or welfare are hereby declared illegal and if not corrected or abated in accordance herein the same shall be punishable in accordance with SECTION 113 – VIOLATIONS AND PENALTIES hereof. The Building Official shall notify the owner or agent thereof in writing of the illegal electrical installation along with the notice of a date by which the required correction shall be made. Failure to timely make the required corrections or obtain an extension of the date shall authorize the Building Official to disconnect or order the discontinuance of electrical service to the premises.

103.6 – REQUIREMENTS NOT COVERED BY CODE

Any requirement necessary for the safety, strength or stability of an existing or proposed gas installation, or for the safety of the occupants of a building or structure, not specifically covered by this Code, shall be determined by the Building Official, subject to the right of appeal to the Plumbing and Fuel Gas Board of Adjustments and Appeals.

103.7 – ALTERNATE MATERIALS AND METHODS OF INSTALLATIONS

103.7.1. Approval - The provisions of this Code are not intended to prevent the use of any material or method of construction not specifically prescribed by this Code, provided any such alternate has been approved by the Building Official. The Building Official shall approve any such alternate, provided he finds that the alternate for the purpose intended is at least the equivalent of that prescribed in this Code in quality, strength, effectiveness, durability and safety. The Building Official shall require that sufficient evidence or proof be submitted to substantiate any claim made regarding its use.

103.7.2. Evidence of Compliance - The Building Official shall require sufficient evidence to enable him to judge whether proposed alternates meet the requirements of this Code for safety and health.

103.7.3. Tests - When there is insufficient evidence to substantiate claims for alternates, the Building Official may require tests of compliance as proof to be made by an approved agency at the expense of the applicant.

103.7.4. Test Procedure - Tests shall be made in accordance with generally recognized standards; but in the absence of such standards, the Building Official shall specify the test procedure.

103.7.5. Repeated Tests - The Building Official may require tests to be repeated if, at any time, there is reason to believe that an alternate no longer conforms to the requirements on which its approval was based.

103.8 – LIABILITY

103.8.1. This Code shall not be construed as imposing upon Jefferson County any liability or responsibility for damages to any person or property caused by any defect in any electrical work mentioned herein, or by installation thereof, nor shall Jefferson County or any officer, inspector, assistant or employee thereof, be held as assuming any such liability or responsibility by reason of the inspection authorized hereunder or the certificate of approval issued by the inspector.

103.8.2. Any officer, inspector, assistant or employee, or member of any boards, charged with the enforcement of this code, acting for Jefferson County in the discharge of his duties, shall not thereby render himself personally liable and he is hereby relieved from all personal liability for any damage that may accrue to persons or property as a result of any act required or permitted in the discharge of his duties. Any suit brought against any such officer, inspector, assistant or employee or member of any such boards, arising out of any such act performed by him in the enforcement of any provision of this code shall be defended by the County Attorney until the final termination of the proceedings.

SECTION 104 – APPLICATION FOR PERMIT

104.1 – WHEN REQUIRED

Any person, firm or corporation who desires to install wiring, devices or equipment for the transmission, distribution, or utilization of electrical energy for lights, heat or power within or on any building, structure, or premises, or make any alterations, repair, or addition in any such existing wiring, devices or equipment, shall first make application to the Building Official and obtain the required permit therefor, except as stated in paragraphs (a), (b), (c), (d), (e), or (f) of this section.

- (a) No permit shall be required for minor repairs, such as repairing flush and snap switches, replacing fuses, changing lamp sockets and receptacles, taping joints and repairing drop cords.
- (b) No permit shall be required for the installation of wiring, devices or equipment for telephone, telegraph, district messenger or any signaling systems operating at 50 volts or less, when installed by a public utility subject to regulation as such by the Alabama Public Service Commission, or any agency of the United States.
- (c) No permit shall be required for the installation of electric wiring, devices or equipment installed in any building, the major portion of which is occupied by a public utility corporation to transmit and sell or use electric energy, provided such wiring, devices or equipment are for the use of said corporation in its operation as a public utility; provided, however, that permits shall be required for installations in public utility buildings to which the general public has regular access.
- (d) No permit shall be required for maintenance and repairs that is done by or under the immediate supervision of a certified Journeyman or Master Electrician; provided, that permits shall be required in all cases where new circuits, additional load or new equipment is added.
- (e) Unless specifically required elsewhere in this code, no permit shall be required for the installation, maintenance, or repair of the facilities (other than buildings) of a public utility corporation selling electricity regulated by the Alabama Public Service Commission, when such utility is acting in the exercise of its function as a utility.

- (f) Optional Procedure for Five Hundred Employee Companies - Any person, firm or corporation operating any manufacturing plant or establishment that actively employs at least 500 persons in Jefferson County on a regular basis (herein called the company), and employs one or more full time salaried electrical engineers duly registered and licensed under the laws of the State of Alabama, as such, and who desires to install wiring, devices or equipment for the transmission, distribution, or utilization of electrical energy for lights, heat or power within or on any building, structure or premises, or make any alterations, repair, or addition in any such existing wiring, devices or equipment, and not be inspected as required in SECTION 107 - INSPECTIONS of this code, shall first make application, signed by said engineer, for the electrical permit, and submit electrical permit fees prior to commencing any electrical work on any such building, structure, or premises, and provided further that the said engineer shall, when electrical work is completed, submit a Certificate of Completion on a form provided by the Building Official that shall include the certificate of said engineer and the company that the work was done in compliance with all provisions of this code and all other pertinent county ordinances and codes and that said engineer and company assumes full responsibility therefor.

104.2 – APPLICATION FORM

Permits shall be issued to any person, firm or corporation upon application bearing the signature of his/her, it's or their authorized Master Electrician except as may be approved in 104.1 - WHEN REQUIRED (f) of this Code. The applicant shall provide the necessary information to complete the application form furnished by the Building Official. Application for a permit can be made in person or by mail or electronically. It shall be unlawful for any person, firm or corporation to proceed with any electrical installation or repair before the required permit or permission thereof has been issued or granted. It shall be unlawful for any person, firm or corporation to proceed with any electrical installation or repair before the required permit or permission thereof has been issued or granted except as may be approved in 105.5 EMERGENCY PERMITS.

104.3 – DRAWINGS AND SPECIFICATIONS

104.3.1. Application for a permit to install electrical systems or equipment shall be accomplished by drawings and specifications and other necessary information as required by the Building Official to determine accurately the character of the work and compliance with this code; provided, however, that drawings and specifications may not be required in the following types of installations:

1. For one- or two-family dwellings unless, in the opinion of the Building Official, the complexity of the installation is such as to necessitate the filing of plans and/or specifications to ascertain compliance with this code.
2. For one story buildings of areas not exceeding 7,500 square feet gross floor area unless, in the opinion of the Building Official, the complexity of the installation is such as to necessitate the filing of plans and/or specifications to ascertain compliance with this code.
3. For electrical work not associated with other construction or renovation, a complete list of work elements, outlined in (c) below, at the discretion of the Building Official, may be accepted in lieu of drawings.

104.3.2. Drawings required shall clearly illustrate and, together with specifications, shall contain sufficient detail and data to indicate code compliance and character of the work substantially as follows:

1. Floor plan of each floor drawn to a scale of not less than 1/8" = 1 foot on a minimum sheet size of eleven inches by seventeen inches (11" x 17") or submit electronically.
2. Plot plan drawn to a scale of not less than 1" = 40'.
3. Reference to code: Such drawings and/or specifications shall be specific, and this code shall not be cited as a whole or in part nor shall the term "legal" or its equivalent be used as a substitute for specific information.
4. All drawings and specifications required shall be submitted in duplicate unless submitted electronically.
5. When symbols are used, such symbols shall be identified in symbol schedule on drawings.
6. The Building Official may require that drawings be prepared by an architect or engineer duly registered in the State of Alabama.

104.3.3. For Electrical or Low Voltage Electrical Building Permits where there are not complete drawings indicating fixtures and wiring, or where, in the determination of the Building Official an additional listing of all the work elements will be required including:

- a. WIRING TO OUTLETS Including Light Switches.
- b. The total number of fixtures, Including Wiring to Fixture Outlets.
- c. CIRCUITS - Number of each type:
 - ◆ 20 amperes
 - ◆ 30 amperes
 - ◆ 40 amperes
 - ◆ 50 amperes
 - ◆ 60 amperes
 - ◆ 100 amperes
 - ◆ 125 amperes
 - ◆ 150 amperes
 - ◆ 200 amperes
 - ◆ Over 200
- d. SERVICE EQUIPMENT FOR LIGHT, HEAT OR POWER - Number of each type:
 - ◆ Temporary Service
 - ◆ 100 ampere switch
 - ◆ 200 ampere switch
 - ◆ 400 ampere switch
 - ◆ 600 ampere switch.
 - ◆ 800 ampere switch
 - ◆ 1,200 ampere switch
 - ◆ 1,201 amperes and over
- e. SUB-PANEL AND FEEDERS - Number of each type:
 - ◆ 100 ampere or less
 - ◆ 150 ampere
 - ◆ 200 ampere
 - ◆ 400 ampere
 - ◆ Over 400 ampere

- f. FANS - the total number and type, including paddle fans and vent/exhaust fans
- g. INSTALLATION OF ELECTRIC APPLIANCES - Number of each type:
 - ◆ Cooktops
 - ◆ Dish Washers
 - ◆ Dryers
 - ◆ Microwaves
 - ◆ Ovens
 - ◆ Ranges
 - ◆ Water Heaters
- h. DIMMERS - Number of each type:
 - ◆ 500 - 1,000 watts
 - ◆ 1,000.1 - 5,000 watts
 - ◆ Above 5,000.1 watts
- i. FUEL DISPENSING UNITS - the number and the wiring for and/installation, new or rewired.
- j. MOTORS, their wiring for and/or installation - Number of each type:
 - ◆ Up to 5
 - ◆ Above 5 horse power to 25 horse power
 - ◆ Above 25 horse power
- k. GENERATORS their wiring for and/or installation - Number of each type:
 - ◆ Up to 10 kw
 - ◆ Above 10.1-25kw
 - ◆ Above 25.1-50kw
 - ◆ Above 50kw
- l. TRANSFORMERS - Number of each type:
 - ◆ Up to 5 KVAR
 - ◆ 5.1 to 50 KVAR
 - ◆ Above 50 KVAR

LOW VOLTAGE

- m. The number of the following types of Low Voltage systems shall be submitted:
 - ◆ Telecommunication
 - ◆ Sound
 - ◆ Burglar Alarm
 - ◆ Video/Cable TV
 - ◆ Lawn Sprinkler
 - ◆ Fiber Optics
 - ◆ Class II Control
 - ◆ Energy Management
 - ◆ Card Access
 - ◆ Data
 - ◆ Other

104.4 – TIME LIMITATION

Application. An application for a permit for any proposed work shall be deemed to have been abandoned, becoming null and void 90 days after the date of application filing if no inspections

have occurred.

Permit. An issued permit shall be deemed to have been abandoned, becoming null and void 180 days after the last scheduled inspection, unless the owner, or their agent, provides a written request to extend the permit demonstrating justifiable cause on a form provided by the County to the Building Official within 30 business days of expiration of said permit. The Building Official is authorized to grant one or more extensions of time for additional periods not to exceed 180 days each. Approved extensions shall incur a fee for each permit extension request. Permits that expire will need to have new a permit application and approval to continue work and will be assessed the original building valuation fee.

104.5 – EXAMINATION OF DRAWINGS

104.5.1. Plan Review - The Building Official shall examine or cause to be examined each application for a permit and the drawings and specifications and accompanying data which may be filed therewith, and shall ascertain by such examination whether the electrical installation indicated and described is in accordance with the requirements of this Code and all other pertinent county ordinances and codes.

104.5.2. Affidavits Accepted - The Building Official may accept a sworn affidavit from a registered architect or engineer stating that the drawings and specifications submitted of the electrical installation conform to all requirements of this Code and they may without any examination or inspection accept such affidavit, provided the architect or engineer who made such affidavit agrees to submit to the Building Official upon completion of the installation, a Certificate of Completion that the electrical installation has been installed in accordance with the requirements of this Code. Where the Building Official relies upon such affidavit, the architect or engineer shall assume full responsibility for the compliance with all provisions of this Code and the architect or engineer shall state in the Certificate of Completion that they assume full responsibility for compliance with all provisions of this Code and all other pertinent county ordinances and codes.

1.04.5.3. Affidavits Required - The Building Official may require a sworn affidavit from the registered architect or engineer who prepared the plans stating requirements in the preceding paragraph have been met, whenever in the opinion of the Building Official the size or complexity of the electrical installation requires such affidavit.

SECTION 105 – PERMITS

105.1 – ACTION ON APPLICATION

105.1.1. Permit Issuance - The Building Official shall act upon an application for a permit without unreasonable or unnecessary delay. If the Building Official is satisfied that the work described in an application for permit and the drawings and specifications which may be filed therewith conform to the requirements of this Code, and other pertinent county ordinances and codes, he shall issue a permit therefore to the applicant.

105.1.2. Refusal To Issue Permits - If the application for the permit and the drawings and specifications that are filed describe work that does not conform to the requirements of this Code or other pertinent county ordinances and codes, the Building Official shall not issue a permit, but shall return the drawings to the applicant with his refusal to issue such a permit. Such refusal shall, when requested, be in writing or email and shall contain the reasons for denial.

105.2 – CONDITIONS OF THE PERMIT

105.2.1. Permit Intent - A permit issued shall be construed to be a license to proceed with the work and shall not be construed as authority to violate, cancel, alter, or set aside any of the provisions of this Code, nor shall such issuance of a permit prevent the Building Official from thereafter requiring a correction of errors in drawings or in construction or of violations of this Code. See 104.4 -- TIME LIMITATION.

105.2.2. Permit Transferability - A permit may be transferable only for good cause, such as instances from death of the applicant/designee for said permit, terminating of the permit holder for work not complete, or other good cause as determined by the Building Official and approved by Director of Development Services, or designee. The permit shall not be in conflict with any other part of this Code, County code or State law and all outstanding fees shall be paid prior to permit transfer. There will be an administrative fee to transfer a permit.

105.2.3. Failure to Obtain a Permit - If any person commences any work on an electrical installation before obtaining the necessary permit from the County is subject to the penalty prescribed in SECTION 113 - VIOLATIONS AND PENALTIES.

105.2.4. Suspension or Revocation - The Building Official is authorized to suspend or revoke a permit issued under the provisions of this code whenever the permit is issued in error or on the basis of incorrect, inaccurate or incomplete information, or in violation of any ordinance or regulation or any of the provisions of this Code.

105.2.5. Suspension or Revocation - The Building Official is authorized to suspend or revoke a permit issued under the provisions of this code whenever the permit is issued in error or on the basis of incorrect, inaccurate or incomplete information, or in violation of any ordinance or regulation or any of the provisions of this Code.

105.2.6. Placement of Permit - The Electrical Permit or copy shall be kept on the site of the work until the completion of the project. See 105.2.7 – CONDITIONS OF THE PERMIT, 105.2.7 POSTING OF PERMIT for posting requirements.

105.2.7. Validity of the Permit - The issuance or granting of a permit shall not be interpreted to be a permit for, or an approval of, any violation of any of the provisions of this code or other ordinances of the County. Permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on construction documents and other data shall not prevent the Building Official from requiring the correction of errors in the construction documents and other data. The Building Official is authorized to prevent occupancy or use of a structure where in violation of this code or any of the ordinances of Jefferson County.

105.2.8. Posting of Permit - Work requiring an Electrical Permit shall not commence until the permit holder or their agent posts the Electrical Permit in a conspicuous place on the front of the premises, however it is preferred to keep the Electrical Permit with any required drawings inside a permit/doc box. The location of the Electrical Permit and any drawings shall be protected from the weather and located in such position as to allow the Building Official, or their authorized representative, to conveniently review and notate. When there is not a suitable place to post the Electrical Permit and any associated plans, a permit/doc box shall be used not to exceed thirty-six (36) inches in any dimension. The Electrical Permit shall be maintained and posted by the permit holder until the final inspection is issued by the Building Official.

105.3 – EMERGENCY PERMITS

Nothing herein shall make it unlawful for the Building Official to issue a permit prior to receiving the required application and fee for work under emergency conditions, as may be determined by

said Building Official, provided all information required in written application under Section 104 of this Code is given orally along with request for emergency permit. Any person, firm or corporation obtaining an emergency permit or inspection shall within five (5) days (Sunday and holidays excluded) after the issuance of such emergency permit or the giving of such emergency inspection, remit to the Building Official, at his office, fees in the amount required for such permit and/or inspection together with written application required under Section A-105 of this Code. If such fees are not paid within the above five (5) days, a double fee shall be charged in accordance with SECTION 106 - FEES.

- a. An emergency permit or inspection may be given only under the following conditions:

When it is necessary to immediately repair electrical wiring, devices or equipment in order to protect the health, safety and welfare of occupants of any building or structure.

SECTION 106 – FEES

106.1 – PRESCRIBED FEES

Before any permit is granted herewith, the person making application for such permit shall pay to the County a fee in such amount as specified herein.

106.2 – ACCOUNTING

The Building Official shall keep an accurate accounting of all permit fees and other monies collected, the names and vital contact information of all persons upon whose account the same was paid, the date and the amount thereof. Such accounting records shall be maintained for a minimum period of seven (7) years in accordance with state law.

106.2.1. Electrical Fees - If the electrical work is independent of an overall building permit, the fees shall be as follows:

1. Administrative Processing Fee -- \$50.00 for all permit types and non-refundable.
2. Technology Cost -- \$10.00 for all permit types and non-refundable.
3. Permit Extension Cost: \$50 each occurrence.
4. Trade Permit:
 - a. For a valuation up to and including \$5,000.00, the fee shall be \$50.00.
 - b. For a valuation over \$5,000.00, the fee shall be \$9.00 per thousand or fraction hereof.
5. Inspection:
 - a. Passed inspection – No charge
 - b. Incomplete or failed inspections -- \$55.00 each occurrence
 - c. After Hours inspections fee:
 - Up to 4 hours -- \$300.00
 - Each additional hour over 4 hours -- \$75.00
6. Work Commencing Before Permit Issuance – First Offense: Double Permit Cost
Additional Offense: Triple Permit Cost
7. Stop Work Order – Double Permit Cost, per instance.

106.3 – BUILDING/ELECTRICAL/LOW VOLTAGE ELECTRICAL PERMIT VALUATIONS

If, in the opinion of the Building Official, the valuation of the electrical work appears to be underestimated on the application, the permit shall be denied, unless the applicant can show detailed estimated costs to meet the approval of the Building Official. Permit valuations shall include total costs for the work.

106.5 – FEES, HOW PAID

All fees for permits and inspections required under this code shall be paid to the offices of the Development Services Department in the Birmingham Courthouse in person or electronically.

106.5 – REFUND OF FEES

Refund of fee's may be requested, however, where the claim for refund involves the duplicating or permitting of the same job more than once, no refund shall be made on the most current permit after sixty (60) days from date of issuance of most current permit.

- a. Refund of some fees paid for a building permit may be provided if the following conditions have been met:
 1. No work has begun under said permit; and
 2. The filing by the permit holder of a refund claim with Jefferson County within six (6) months of the date of issuance of said permit. Provided, however, where the claim for refund involves the duplicating or permitting of the same job more than once, no refund shall be made on the most current permit after sixty (60) days from date of issuance of most current permit.

There shall be an administrative charge of \$50.00 on all refunds, and there shall be no refund of a minimum permit fee.

SECTION 106 – INSPECTIONS

106.1 – INSPECTION REQUIRED

All new electrical work and such portions of existing systems as may be affected by new work or any change shall be inspected to insure compliance with all the requirements of this code and to assure that the installation and construction of the electrical system is in accordance with approved plans.

106.2 – NOTIFICATION

106.2.1. Advance Notice/Concealed Work - It shall be the responsibility of the master electrician to give reasonable advance notice to the Building Official when electrical work is ready for test or inspection.

- i. When any part of a wiring installation is to be hidden from view by the permanent placement of parts of the building, the person installing the wiring shall notify the Building Official, and such parts of the wiring installation shall not be concealed until they have been inspected and approved by the Building Official; provided, that on large installations where the concealment of parts of the wiring proceeds continuously, the person installing the wiring shall give the Building Official reasonable notice and inspection shall be made periodically during the progress of the work.

106.2.2. Re-inspection - If the Building Official finds that the work will not pass the inspection, the permittee shall be required to make necessary corrections and the work shall then be resubmitted for inspection. Where additional inspections are necessary there shall be an additional fee as provided for in SECTION 106 – FEES.

106.2.3. Inspection: Unsafe Installations - The Building Official may make, periodically, a thorough re-inspection of the installation of all electrical wiring, electrical devices and electrical equipment and when such installation of any wiring, devices or equipment is found to be in a dangerous or unsafe condition, the Building Official shall proceed in accordance with 103.5 – NON-CONFORMING WORK, hereof.

106.2.4. Inspections - It shall be the duty of the electrical contractor to ensure that a current licensed journeyman/ master electrician is present during all inspections.

- i. Upon the completion of the installation of the electric wiring, devices and equipment that has been authorized by issuance of a permit, it shall be the duty of the person installing the same to notify the Building Official who shall inspect the installation within a reasonable time, and
- ii. It shall also be the responsibility of the master electrician to ensure that the premises, work, and personnel are available and accessible to the Building Official or his representative for inspection and to provide personnel and assistance as necessary to complete the inspection, and
- iii. If the work is found to be fully in compliance with this code and does not constitute a hazard to life and property, he shall, upon request, issue to such person, for delivery to the owner, a Certificate of Completion.

If, upon inspection, the installation is not found to be in full compliance with this code, the Building Official shall at once notify the person performing the installation, including a statement of the defects that has been found to exist.

SECTION 107 – CERTIFICATE OF COMPLETION

107.1 – INITIAL CONNECTIONS

It shall be unlawful for any person, firm or corporation to make or to allow connections from a source of electrical energy to any electrical wiring, devices or equipment for the installation of which a permit is required, until approval has been given by the Building Official authorizing such connection and the use of such wiring, devices or equipment.

107.2 – RECONNECTIONS

It shall be unlawful for any person, firm or corporation to make connection from a source of electrical energy to any electrical wiring, device or equipment which has been disconnected or ordered to be disconnected by the Building Official or the use of which has been ordered by the Building Official to be disconnected until approval has been given by the Building Official authorizing the reconnection and use of such wiring, devices or equipment.

108.3 – APPROVED MATERIALS, APPARATUS, EQUIPMENT AND METHODS

107.3.1. Regulation of Electrical Goods Installed - All electrical materials, apparatus, fittings, appliances, devices and/or appurtenances, shall bear the manufacturer's name, trademark or other identification symbol along with markings giving operating voltage, type of current, wattage, and/or other pertinent information as may be necessary to determine the character of the material, apparatus, fitting, appliance, devices and/or appurtenance and the use for which it is intended.

- a. It shall be unlawful for any person, firm or corporation, to remove, alter, change, mar and/or deface any manufacturer's name, trademark, symbol, and/or markings required in immediate preceding paragraph of this section.

107.3.2. Approved Electrical Materials, Defined - No electrical material, apparatus, fitting, appliance, device and/or appurtenance shall be installed by any person, firm or corporation, until such material, apparatus, fitting, appliance, device and/or appurtenance shall have been submitted to a nationally recognized testing laboratory for examination and testing. Only electrical materials, apparatus, fittings, appliances, devices and/or appurtenances labeled or listed by a nationally recognized testing laboratory, shall be considered as having complied with the foregoing regulation or requirement.

SECTION 108 – QUALIFYING ELECTRICIANS

108.1 – GENERAL

Before any person, firm or corporation shall engage in the electrical business within the area described in Section A-101.3 of this code, he shall be qualified as set forth herein, and a license shall be obtained from the Alabama Electrical Contractors Board (AECB) as required. Bonds are no longer required in Jefferson County.

108.2 – DEFINITIONS

108.2.1. Electrical construction - shall include all work and materials used in installing, maintaining or extending a system of electrical wiring for light, heat or power and all appurtenances, apparatus or equipment used in connection therewith, inside of or attached to any building or structure, lot or premises.

108.2.2. Electrical Contractor - shall mean a person, firm or corporation who is engaged in the business of electrical construction and who is qualified under the terms and provisions of State Law and this code.

108.2.3. Master Electrician - shall mean a person certified in accordance with State Law who possesses the necessary qualifications, training and technical knowledge to plan, layout and supervise the installation of and install electrical wiring, apparatus and equipment for light, heat and power, as covered by the terms and provisions of this code.

108.2.4. Journeyman Electrician - shall mean a person who possesses necessary qualifications, training, and technical knowledge to install electrical wiring, apparatus, or equipment lighting, heating, or power or control. He or she shall work under a master or state certified electrical contractor and shall be capable of doing work according to plans and specifications furnished to him or her and in accordance with standard rules and regulations governing such work.

108.2.5. Apprentice Electrician - shall mean a person certified in accordance herewith performing electrical work under the direct supervision of a master or journeyman electrician.

108.2.6. Direct Supervision - shall mean close supervision provided on the same subject property, or under the same roof with those supervised.

108.3 – ELECTRICAL EXAMINING BOARD

There shall be an Electrical Examining Board consisting of nine members, namely, the Building Official, the Chief Electrical Inspector, a registered engineer who practices electrical engineering, two Jefferson County electrical contractors, two journeyman electricians, a master electrician and an attorney. The members of the board, other than the Building Official and the Chief Electrical Inspector shall be appointed by the Jefferson County Commission for a term of four years. The Jefferson County Commission may replace any member of the board at any time and without notice. The Building Official shall be chairman of the Board and in his absence the Chief Electrical

Inspector shall act as chairman. No member of the Board shall receive compensation for his services as such. Five members of said Board shall constitute a quorum. At least five affirmative votes shall be necessary to determine any decision to be rendered by the Board.

108.4 – QUALIFICATIONS OF JOURNEYMAN ELECTRICIANS

The Alabama Board of Electrical Contractors shall determine the qualifications of every person who may apply for certification as journeyman electrician in accordance with their law. Such applicants shall make written application for said journeyman certificate to the Alabama Board of Electrical Contractors.

108.5 – QUALIFICATIONS OF MASTER ELECTRICIANS

It shall be the duty of the Alabama Board of Electrical Contractors to pass upon the qualification of every person who may apply for certification as a master electrician in accordance with their law.

108.6 – RECIPROCITY

Notwithstanding the foregoing, it shall be lawful for the Electrical Examining Board to reciprocate and accept a valid, current, unrevoked Certificate as a Master or Journeyman Electrician issued by the Alabama Board of Electrical Contractors.

108.7 – MEETING OF THE BOARD

Board will meet when required and called by the Building Official at the office of the Building Official in Room B200, Jefferson County Courthouse. Special meetings of the Board may be called by the chairman at any time.

108.8 – REVOCATION AND SUSPENSION OF CERTIFICATE

The Department of Development Services in conjunction with the Alabama Board of Electrical Contractors has the power to revoke or suspend any certificate if after hearing an act by the certificate holder warrants such action. Such action taken by the State Electrical Contractors Board and/or the Director of Development Services, or designee, shall render the license holder invalid and suspend or terminate the permitting privileges for such violations.

108.9 – APPEAL FROM ACTION OF BOARD

Every decision of the Electrical Examining Board shall be final, subject, however, to such remedy as any aggrieved party might have at law or in equity. It shall be in writing and shall indicate the vote upon the decision. Every decision shall be promptly filed in the office of the Building Official, and shall be open to public inspection. The Electrical Examining Board shall, in every case, reach a decision without unreasonable or unnecessary delay.

108.10– DUTY OF EMPLOYER

No electrical contractor shall work any person on any job in the county in the capacity of either a master electrician or a journeyman electrician or an apprentice electrician, unless such person shall have in his possession a valid certificate for the capacity of the work performed, issued to him as hereinabove provided in this code.

108.11 – UNLAWFUL TO DO BUSINESS WITHOUT CERTIFICATE

As herein used the word "certificate" shall mean a "Certificate of Competency" issued in accordance with SECTION 109 – QUALIFYING ELECTRICIANS, hereof.

It shall be unlawful:

- 1) For any person other than a holder of a current certificate to do any electrical installation or construction work in the county; or

- 2) For any holder of a current certificate to employ as an assistant in any such work any person other than a holder of a certificate; or,
- 3) For any holder of a current master or journeyman certificate to require a registered apprentice electrician to do any such work other than under his direct supervision; or,
- 4) For any registered apprentice electrician to do any such work other than under the direct supervision of the holder of a current master or journeyman certificate; or,
- 5) For any person than a holder of a current master or journeyman electrician certificate to make any alterations or additions to the wiring systems of the person, firm, company, or corporation by whom he is employed.

Anything hereinabove to the contrary notwithstanding, it shall not be unlawful for any public utility corporation to transmit and sell electrical energy, or any employee of such public utility corporation to do any such work as a part of the public utility business of such corporation.

108.12 – INSTALLATION AND OPERATION OF ILLEGAL WIRING OR EQUIPMENT

It shall be unlawful for any person, firm, or corporation to permit the installation of any electrical wiring, apparatus, or other appurtenances upon his premises, works, ways, machinery or plant except in strict accordance with all provisions of this code; it shall be further unlawful for any person to maintain, operate or attempt to operate any electrical wiring, apparatus, equipment, or other appurtenances in or upon his premises, works, ways, machinery or plant which has not been installed in strict accordance with this code.

108.13 – VEHICULAR SIGNS

All trucks and similar vehicles used by electrical contractors shall have painted on the body of both sides of same, the full name and address of the firm to which it belongs. Lettering may be any color in contrast to the color of the body, but letters must be at least 2 1/2 inches high on firm's name.

108.14 – ALLOWING ONE'S NAME OR LICENSE TO BE USED TO OBTAIN PERMIT FRAUDULENTLY

No person, firm or corporation engaged in the electrical business shall allow his, it's or their names to be used by any other person, firm or corporation directly or indirectly, to obtain a permit for any work under his, it's or their names or license; nor shall he, it or they make any misrepresentations or omissions in his, its, or their applications. No person holding a master certificate shall represent more than one business as such master.

SECTION 109 – ELECTRICAL BOARD OF ADJUSTMENTS AND APPEALS

109.1 – APPOINTMENT

There shall be an Electrical Board of Adjustments and Appeals consisting of seven (7) members. The members of the Electrical Examining Board with the exception of the Building Official, and the Chief Electrical Inspector, shall constitute the Electrical Board of Adjustments and Appeals.

109.2 – QUORUM

Four members of said board shall constitute a quorum. At least four (4) affirmative votes shall be required to transact any business. No board member shall act in a case in which he has a personal interest.

109.3 – RECORDS

The Building Official shall act as Secretary of the Electrical Board of Adjustments and Appeals and shall make a detailed record of all its proceedings, which shall include names of the members present, the reasons for the board's decisions, the vote of each member participating therein, and any failure of a member to vote.

109.4 – PROCEDURE

The board may establish rules and regulations for its own procedure not inconsistent with the provisions of this code. The board shall meet at the call of the Chairman or Building Official and within twenty (20) days after notice of appeal has been received.

SECTION 110 – APPEALS

110.1 – TIME LIMIT

- a. Whenever the Building Official shall reject or refuse to approve the mode or manner of construction proposed to be followed or materials to be used in a building or structure, or when it is claimed that the provisions of this code do not apply, or that an equally good or more desirable form of construction can be employed in any specific case, or when it is claimed that the true intent and meaning of this code or any of the regulations thereunder have been misconstrued or wrongly interpreted, the owner of such building or structure, or his duly authorized agent may appeal from the decision of the Building Official to the Electrical Board of Adjustments and Appeals. Notice of appeal shall be in writing on form provided by the county and filed with Building Official within twenty (20) days after the decision is rendered by the Building Official. A fee of \$50.00 shall accompany such notice of appeal.
- b. In case of electrical work which, in the opinion of the Building Official, is unsafe or dangerous, the Building Official, may, in his decision, limit the time for such appeal to a shorter period.

SECTION 111 – DECISIONS OF THE ELECTRICAL BOARD OF ADJUSTMENTS AND APPEALS

111.1 – VARIATIONS AND MODIFICATIONS

- a. Upon appeal and after hearing, the Electrical Board of Adjustments and Appeals, may vary the application of any provision of this code to any particular case when, in its opinion, the enforcement thereof would do manifest injustice, and would be contrary to the spirit and purpose of this code or public interest, or when, in its opinion the interpretation of the Building Official should be modified or reversed.
- b. A decision of the Electrical Board of Adjustments and Appeals to vary the application of any provision of this code or to modify an order of the Building Official shall specify in what manner such variation or modification is made, the conditions upon which it is made and the reason therefor.

111.2 – DECISIONS

- a. Every decision of the Electrical Board of Adjustments and Appeals shall be final, subject, however, to such remedy as any aggrieved party including the Building Official might have at law or in equity. It shall be in writing and shall indicate the vote upon the decision. Every decision shall be promptly filed in the office of the Building Official, and shall be open to public inspection.
- b. The Electrical Board of Adjustments and Appeals shall, in every case, reach a decision without unreasonable or unnecessary delay.
- c. If a decision of the Electrical Board of Adjustments and Appeals reverses or modifies a refusal, order, or disallowance of the Building Official, or varies the application of any provision of this code, the Building Official shall immediately take action in accordance with such decision unless appealed.

SECTION 112 – EXCAVATIONS-PUBLIC SAFETY

A permit shall be obtained by any person, firm or corporation for each excavation for the installation, maintenance, extension, and alteration of any pipe, cable, conduit, or appurtenance on a right-of-way of any county street, highway or any public easement. All work shall be done in accordance with applicable laws and ordinances of Jefferson County.

SECTION 113 – VIOLATIONS AND PENALTIES

Any person, firm or corporation violating any provision of this code or failing to comply with any of the provisions of this code after ten (10) days written notice from the Building Official shall be guilty of a misdemeanor punishable by a fine of not more than five hundred dollars (\$500) or thirty (30) days in jail, or both, and a penalty of fifty dollars (\$50) per day, each day during the continuance of the violation.

SECTION 114 – AMENDMENTS TO THE ELECTRICAL CODE OF JEFFERSON COUNTY, ALABAMA 2017

When removing, replacing, or upgrading any residential panel, the Electrical Contractor shall upgrade the breaker requirements for protection of the residence in accordance with Article 210.12 (A) of the 2017 National Electrical Code.

If any section, sub-section, sentence, clause or phrase of this ordinance is for any reason held to be unconstitutional or otherwise invalid, such decision shall not affect the validity of the remaining portions of this code.

Article A-21 0.11 (a) Add the following sentence to the end of this section: "For the purpose of determining the number of branch circuits, general purpose outlets shall be calculated at 180 volt amperes." For example: 10 outlets on 15 amp circuit; and 13 outlets on 20 amp circuit.

SECTION – 115

The Jefferson County Department of Development Services shall not complete reconnections/ or meter resets without an electrical contractor first obtaining an electrical permit. All meter resets and power restorations that the Utility Company requires an electrical inspection shall require an electrical contractor to obtain a permit before an inspection by the Development Services Department of Jefferson County.

ARTICLE 230.3 INSTALLATION REQUIREMENTS

FOR SERVICE CONDUCTORS AND FEEDERS

Service conductors supplying a building or other structure shall not pass through the interior of another building or other structure.

Feeders in residential multiple-occupancy or tenancy buildings from service drop or lateral to distribution panels shall be installed in rigid metal conduit, IMC, EMT, or rigid non-metallic conduit either in slab, basement or crawl space under a building, or in such a manner that the raceway will not pass through one occupancy or tenancy to reach another, except the vertical portion from the first floor to the panel.

ARTICLE 230.28 SERVICE MASTS AS SUPPORTS

Where a service mast is used for support of service drop conductors, it shall be a minimum size of 2" rigid metal or IMC conduit. 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 identified for use with service masts. Only power service-drop conductors shall be permitted to be attached to a service mast.

ARTICLE 550.32 (B) MANUFACTURED HOMES

The manufactured home service equipment shall be permitted to be installed in or on a manufactured home, provided that all of the following conditions are met.

- (1) The manufactured home is secured to a permanent foundation that complies with the U.S. Department of Housing and Urban Development Permanent Foundation Guide for Manufactured Housing.
- (2) The installation of the service equipment shall comply with Article 230.
- (3) Means shall be provided for the connection of a grounding electrode conductor to the service equipment and routing it outside the structure.
- (4) Bonding and grounding of the service shall be in accordance with Article 250.
- (5) The manufacturer shall include in its written installation instructions one method of grounding the service equipment at the installation site. The instructions shall clearly state that other methods of grounding are found in Article 250.
- (6) The minimum size grounding electrode conductor shall be specified in the instructions.
- (7) A red warning label shall be mounted on or adjacent to the service equipment. The label shall state the following:

WARNING
DO NOT PROVIDE ELECTRICAL POWER
UNTIL THE GROUNDING ELECTRODE(S)
IS INSTALLED AND CONNECTED
(SEE INSTALLATION INSTRUCTIONS).

Where the service equipment is not installed in or on the unit, the installation shall comply with the other provisions of this section.