



Key Developer Program Guide

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Our Commitment to You

Introduction

The purpose of this guide is to highlight activities and requirements which allow Clay Electric to work with builders and developers to achieve a successful project completion.

The guide is not intended to conflict with our "Standards for Electric Service" located in the Standards section herein. The purpose is to supplement the Standards and to offer some clarifications of our service requirements. With that said, it is not expected that this information will cover all circumstances that may arise. In these cases, contact a representative of Clay Electric to assist you further.

It should be noted that the information in this guide is subject to change. The most current version may be found on Clay Electric's website at www. clayelectric.com

Communication

As a not-for-profit, customer-owned electric service provider, we are committed to serving our customers effectively and efficiently by utilizing sound business practices and appropriate technology.

We recognize that we have an important task to work in partnership with key developers and builders so that together we can meet this commitment to our mutual customers. We are committed to providing new electric service to your projects where you need it and when you need it.

Throughout the years, we have found that communication is the key element in meeting the goals and objectives of our developers/builders. This guide is intended to enhance our communication with you and to provide information that we hope will help us stay in step as we work together.

We look forward to working with you on your projects as they progress. Please talk with us early and often. We are committed to do the same.

Contacts

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Introduction - Clay Electric and the Development Process

Clay Electric's utmost commitment is to provide a safe work environment for its employees and all employees involved in a development.

Clay is also committed to providing safe, reliable electric service to its customers who will reside or work in the development. To do this, Clay will comply with all applicable safety codes and construction standards:

- Occupational Safety & Health Administration (OSHA) Standards
- National Electrical Safety Code (NESC)
- National Electrical Code (NEC)
- Local Code Requirements

Clay will also comply with its own Standards for Electric Service and will expect compliance by developers and builders who will be receiving service from Clay Electric. A copy of these Standards is included (see section entitled "Standards for Electric Service"). The latest version of these Standards can also be viewed by going to Clay Electric's website at clayelectric.com. Also available at clayelectric.com are rates and fees as filed with the Florida Public Service Commission.

Site Ready Checklist for Underground Electric

- All required fees have been paid
- Documents and easements have been provided
- Right-of-way and easements have been cleared and grubbed
- Rough grade has been established within +/- six inches
- Conduit system installed by developer/land owner and inspected by CEC personnel
- Property corners and other boundaries along the cable route have been marked with a metal survey stake with lots identified on above ground marker or as mutually agreed

Rights-of-Way and Easements for Electric Distribution Construction

Clay Electric utilizes both public and private rights-of-way to extend overhead and underground electric distribution facilities. However, the developer shall furnish private right-of-way easements for electric facilities as required by CEC within the development. The routing of electric lines is based on:

- Cost both initial and continuing operation costs
- Safety public and employee
- Reliability and continuity of service
- Aesthetics

To accomplish these objectives, power lines (both underground and overhead) need to be located in a way that physical separation from other objects — both man-made and natural — is established and maintained. Establishing a right-of-way or easement allows us to provide clearance from trees, other utilities, buildings and other structures that could interfere with the installation, maintenance and operation of the electric distribution system.

Overhead Distribution — Typical Right-of-Way Clearance



Guidelines for Planting and Landscaping Around Pad Mounted Transformers and Other Equipment

Clay Electric appreciates how much you value the appearance of your home and commercial landscaping. Good appearance is one of the primary reasons for underground utilities.

However, those underground electric lines must surface somewhere if they are to serve electrical equipment. In areas that are served by underground facilities, pad mount transformers and switchgear, or "those green boxes," are placed at selected intervals along main electric lines near streets and roadways.

It is critical that the access or door(s) to pad mount transformers and switchgear be kept clear for 12 feet. The non-door sides must have a three (3)-foot clearance free of obstacles. If landscaping is placed too close to the transformer, service restoration efforts can be delayed and not enough air circulation can cause equipment failure. Additionally, workers must sometimes cut down the plantings to perform their restoration work.

With that in mind, here are a few landscaping ideas you may find helpful:

- Do not plant ivy or other climbing plants, as they grow into the metal enclosures and cause problems.
- Grass, gravel or small rocks are recommended within the three (3)- or 12-foot free zone.
- Avoid delicate flowerbed plantings that may be harmed.
- Large rocks should be placed at least 10 feet away from all sides of the equipment.

Rights-of-Way and Easements for Electric Distribution Construction

Underground Distribution — Typical Right-of-Way Easement Requirements



Clay Electric's standard easement requirement for constructing URD electric facilities in a residential development is 10 feet. If there is a need to make adjustments in this requirement, a request to do so should be submitted to the District Engineer. After review, if the exception is approved, notification will be given and the exception must be included as a part of the plan drawings.

Clay Electric requires a minimum separation of three (3) feet between electric cables and any telephone or CATV cable. A separation of five (5) feet is required from any gas line.

If electric service is needed on both sides of the roadway, these easement requirements will need to be provided on both sides as well.

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Guidelines for Planting and Landscaping Near an Overhead Power Line



- Zone A Shrubs up to 6' high at maturity should be planted 5' away from the pole.
- **Zone B** Shrubs up to 10' high should be planted 10' from the pole.
- Zone C Small trees & large shrubs up to 20' high should be planted 15' from the pole.
- **Zone D** Medium trees up to 40' high should be planted 30' from the pole.

Zone E – Large trees over 40' high should be planted 45' from the pole.

The distances given above are the minimum distance the plant should be placed away from the pole. Refer to the tree and shrub charts in the back of this booklet for examples of plants for each zone.

Guidelines for Planting and Landscaping Around Pad Mounted Transformers and Other Equipment

Remember, Clay Electric employees may need access to the equipment at any time for troubleshooting or emergency repairs. Electric equipment must be visually and physically accessible to utility crews at all times.

For underground power lines, trees should be planted far enough away from the pad mount equipment that when they reach maturity, overhanging branches won't obstruct a crane from removing a defective transformer or setting a new one. Trees, shrubs and other landscape plantings should not be placed on the utility easement above underground electric cables. Do not change the grade around equipment to avoid problems with access and depth requirements for buried cables.



Roadway and Other Outdoor Lighting in a Development

Clay Electric will work with developers, customers, associations and public agencies to provide outdoor lighting as requested for a development.

- **Public Roadway Lighting** A city, county, State of Florida or other governmental agency having jurisdiction may request lighting for public roadways within or adjacent to a development.
- **Residential Subdivision Lighting** In a residential subdivision meeting the criteria of Clay Electric's Residential Subdivision Roadway Lighting Rate as filed with the Florida Public Service Commission (PSC), Clay Electric, at the request of a developer, can provide roadway lighting.
- Other Lighting Options- In a development that does not meet either criterion stated above, Clay Electric can install outdoor lighting as requested by a developer, customer, homeowners association, condominium association or other subject to design considerations by Clay Electric and as specified in the executed Agreement for Outdoor Lighting Service.
- **General Area Lighting-** Clay Electric can provide general area lighting for parking areas, storage areas and other outdoor areas requiring lighting.
- Standards for Electric Service- More detailed information on lighting options and requirements is provided in Clay Electric's Standards for Electric Service (see Standards tab in back of guide).

Public Roadway Lighting

Clay Electric, at its discretion based on applicability, will install lighting on public roadways upon written request and approval from the city, county, State of Florida, or other governmental agency having jurisdiction. All such lighting will be covered by a permit executed by Clay Electric and the authorizing government agency.

The amount of illumination required in a roadway lighting system is based on the classification of the road, the pavement type and the presence of walkways. For the applications, Clay Electric will design lighting in conformance to applicable standards such as American Association of State Highway and Transportation Officials (AASHTO) Roadway Lighting Design Guide or Illuminating Engineering Society (IES) Standards.

These installations will comply with Clay Electric's Standards for Electric Service and rate tariffs as filed with the Florida PSC.



The streetlight is used mostly for roadway lighting, but can also be used for general areas such as parking lots, storage areas, parks and campuses where greater illumination that can be achieved with the standard light pictured here. This light is 150W LED with an initial illumination of 16,500 lumens and 4000K correlated color temperature.

Residential Subdivision Roadway Lighting

In residential subdivisions, Clay Electric can, at the developer's request, provide roadway lighting under its Residential Subdivisions Roadway Lighting (RSL) rate. This rate is subject to design constraints based on the number of lights per lot and may not be applicable to subdivisions with larger lots. Options can be reviewed at the preconstruction meeting.

This lighting will not adhere to AASHTO or IES guidelines. It will be designed and installed to light areas where higher visibility is needed, such as intersections, curves and cul-de-sacs. Typically, lights are installed every 200 to 300 feet.

The lights will be billed to customers living in subdivisions based on the number of customers per light according to Clay Electric's RSL rate schedule. A contribution in aid charge is required for subdivisions with underground electric or in subdivisions served by overhead electric with poles installed exclusively for lighting.

Clay Electric offers two standard lighting options for subdivision roadway lighting under the RSL rate.



Standard lighting mounted on a wood pole served by overhead wiring. For residential developments served by underground electric, a cost of \$750 per pole is required as a contribution in aid of construction.



Decorative lighting mounted on a fiberglass pole served by underground wiring. A cost of \$1,200 per light and pole assembly is required as a contribution in aid of construction.

Other Lighting Options

In a subdivision or other development where lighting is requested but the parameters for either the RSL rate or public lighting cannot be applied, lighting can be installed under Clay Electric's rate schedule for rental lighting (L).

In these cases, the standard contribution is aid of construction (CIAC) shown for residential subdivision lighting (RSL rate) may not be sufficient. Because of the non-standard nature of these installations, an additional CIAC may be required to offset initial cost to install lighting equipment and distribution facilities necessary to serve the lighting.

Prior to installing the outdoor lighting services, an *Agreement for Outdoor Lighting Services* shall be executed between Clay Electric and the developer, homeowners association or other responsible party requesting service.

Any of Clay Electric's standard outdoor lights as applicable are available for these lighting purposes.

General Area Lighting

Clay Electric offers area pole-mounted outdoor lighting for the convenience of its customers. This is intended for year-round outdoor lighting of parking areas, storage areas, boat ramps, parks, or other areas on property owned by the customer where general area lighting is needed. All lights are equipped with a photo-electric control for dusk to dawn operation. Lighting locations must be in accessible areas that Clay Electric personnel can access and maintain conveniently.

Any of the standard outdoor lights can be used for this purpose, but most frequently used are the lights shown on the following page. The floodlights shown below can be used where more directional and higher intensity lighting is preferred.

Clay Electric's engineering staff is available to assist you with a lighting layout that will meet your requirements in a cost-effective way.

Prior to installing the outdoor lighting services, an *Agreement for Outdoor Lighting Services* shall be executed between Clay Electric and the developer, homeowners association or other responsible party requesting service.

Electricity used for these lights is unmetered. Clay Electric charges a monthly rental fee for each light, which includes operating and maintenance cost. Poles used exclusively for lighting purpose are also charged to the customer using a monthly rental fee.

General Area Lighting Categories



Standard lighting mounted on a wood pole served by overhead wiring. This light provides a circular pattern of light starting below the light and spreading outwardly in an even distribution. This light is 50w LED with an initial illumination of 5,000 lumens and 3,000K correlated color temperature.



The streetlight is used mostly for roadway lighting but can also be used for general areas such as parking lots, storage areas, parks or campuses where greater illumination than can be achieved with the standard light above is desired. This light is 150w LED with an initial illumination of 16,500 lumens and 4,000K correlated color temperature.



The floodlight provides directional lighting over a wide coverage area. Two options are available- the smaller provides 10,500 lumens; the larger 17,000 lumens. This light is generally preferred where greater illumination is needed. The two options have a 4,000K correlated color temperature.



Decorative lighting mounted on a fiberglass pole served by underground wiring. This lighting can be used for roadway, parking or general area. This light is 50w LED with an initial illumination of 4,000 lumens and a 3,000K correlated color temperature.

Clay Electric Cooperative, Inc. Agreement for Outdoor Lighting Services

The undersigned Developer/Owner, Homeowner's Association, Condominium Association, or other Entity ("Costumer")

whose mailing address is

(type or print legal name)

has requested outdoor lighting services ("the Service") from Clay Electric Cooperative, Inc. ("CEC") at the following location(s)______

CEC is willing to provide the Service generat to the following terms and coordinate

CEC AGREES:

- CEC will provide the Service in accordance with its filed tariffs at the Florida Public. Service Commission and its Standards for Electric Service, as they are now written, or as they may be hereafter revised, amended or supplemented.
- 2. CEC shall install the facilities necessary to provide the requested service at such locations as designated by the Customer, at the Customer's sole discretion, provided the Customer has complied with the documentation and cost provisions of this Agreement. CEC disclaims all warranties, express or implied, including any implied warranties or merchantability, fitness for use, or fitness for particular purpose, CEC shall not be responsible for direct, incidental, consequential, or economic damages, including, but not limited to damages, claims, losses, injuries to persons or property including death, arising out of the use or the performance of the facilities, loss of use of the facilities, loss of use of the service, location of the facilities installed, inadequate illumination, interruption of electric service regardless of cause or failure of the facilities to adequately operate, CEC makes no warranties as to the adequacy, sufficiency, or appropriateness of the lighting system for purposes of safety, security, or other illumination.
- 3. Once installed CEC shall have no further responsibility or liability to Customer or third parties for the maintenance of the facilities. CEC will repair or replace the light during regular daytime working boars, Monday through Friday, as soon as practicable after verification (Cooperative goal is 10 working days) and subject to appropriate operating policies and procedures, the availability of replacement parts and other matters beyond the control of the Cooperative. It shall be the Customer's responsibility to notify CEC in the event the lights are "out" or not working property.

- CEC will not be required to install facilities at any location where the service may be objectionable to others. If it is found after installation that the light is objectionable, CEC may terminate service without obligation or liability.
- 5. CEC shall use reasonable diligence to install the requested facilities and to provide a constant and uninterrupted supply of electric power energy to the facilities. However, if such supply shall fail or be interrupted, or become defective through an act of God, or the public energy, or by accidents, or by action of the elements, or the inability to secure rights-of-way or other permits needed, or for any other cause beyond the reasonable control of CEC, CEC shall have no liability to Costomer for such failure. Customer specifically acknowledges, that CEC is not insurer of uninterrupted service, and that service failures and other interruptions occur on any utility system no matter how well maintained. CEC shall not be liable to Customer for any such failures or interruptions, including interruptions CEC deems prodent for maintenance and repair of the installed facilities or its adjacent facilities. In no event shall CEC be liable for any losses Customer may incur as a result of the failure or interruption of electric service.

CUSTOMER AGREES:

- Customer agrees to pay for Service, including any contribution-in-aid, in accordance with CEC's filed tariffs at the Florida Public Service Commission and CEC's Standards for Electric Service, as they are now written, or as they may be bereafter revised, amended or supplemented.
- 2. Construmer shall be solely responsible for setting the standards for the Service requested. Construmer specifically acknowledges and agrees that CEC is not responsible for determining any lighting standards for the purpose intended by Customer with respect to the facilities installed, their location and placement, as well as the amount of the illumination and any other criteria that may be applicable. It shall be the Customer's responsibility to obtain all permits, licenses, and other approvals necessary from all governmental agencies having jurisdiction over the premises where the facilities shall be located and Customer shall defend, indemnify, and **bold CEC** harmless from any damages, fines, penalties, relocation costs, removal costs, or other economic damages incurred by CEC should any governmental authority require the modification or removal of the facility installed by CEC.
- Costomer shall provide CEC with such drawings, surveys, plats, evidence of title, and other documentation as CEC, in its judgment, deems necessary prior to providing the Service.
- Customer shall be responsible for notifying CEC when hight(s) are "out" or not working properly.
- 5. Contourer shall be solely responsible for maintaining, including trimming or removing, any landscaping or vegetation in the areas around the facilities. This also applies to any obstructions that would effect the light illumination from the facilities.

- 6. The Customer hereby grants CEC the right to enter upon, occupy, and use such areas of the Customer's premises as are necessary to enable CEC to construct, install operate, repair, or replace said electric facilities which are owned by CEC.
- The customer agrees to take responsibility for the cost incurred by CEC to repair or replace any fixture which has been willfully damaged. CEC will not be required to make such repair or replacement prior to payment by the Customer for damage.
- Costomer agrees to reimburse CEC for all unsalvageable material, labor and overhead costs required for installation and removal if customer requests termination of service before end of initial term.

IT IS MUTUALLY AGREED:

- Either party shall have the right to terminate this Agreement after the initial term of year (s) upon 30 days written notice to the other.
- This Agreement shall be binding on the successors and assigns of the respective parties, and shall be construed in accordance with the laws of the State of Florida, and shall be interpreted without regard to the party or parties deemed to have drafted it.
- 3. This is the entire agreement between the parties, superseding all prior oral or written agreements or negotiations, and no alteration, modification or amendment to this Agreement shall be valid unless the same be reduced to writing and signed by the parties hereto.

CLAY ELECTRIC COOPERATIVE, INC.

By:	B y :
Print Name:	Print Name:
Title:	Title:
Danie:	Date:

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Working Safely on a Construction Site

Clay Electric has a primary goal to construct, maintain and operate electric transmission and distribution facilities in a way that provides for the safeguarding of our employees, our customers and the general public. To assure this, Clay has design and construction standards that conform to the National Electric Safety Code (NESC), an IEEE and national standard for electric utilities.

On a construction site, however, the surrounding environment where the electric facilities are located becomes very dynamic as construction progresses. It is critical for construction workers and others who are on these sites and who are involved in the work to be attentive to potential hazards that may be created as work progresses.

The information included in this section will hopefully be helpful in encouraging better awareness of potential hazards and help all involved to work more safely.

Clay Electric desires to be partners with you to not only allow all employees on a construction site to work productively, but more importantly, to work safely.

Working Safely Near Overhead Power Lines

Overhead power lines are not insulated. These lines are operated at 25,000 volts, so if you touch one with your body, your equipment, or your tools, you or someone you work with could be injured or killed. Everyone who works near power lines is at risk, whether you operate heavy equipment or use ladders and handheld tools. It's up to you to work safely to protect yourself, your crew, and the public.

These are steps to be safe:

Distance is the key. OSHA defines minimum approach distances. For lines operated at 69,000 volts or less that distance is <u>10 feet</u>. Neither you nor your tools or equipment should ever be closer than <u>10 feet</u>. Before you work, **LOOK UP and LIVE**.

THEN:

If you are on equipment that makes contact – **STAY CALM** – and evaluate your situation:

You are not in danger from fire or being hit by the power line	Move equipment away from line Warn others to stay away Have someone call 911 and Clay Electric at 1-888-434-9844
You are in danger and must get off equipment	Jump as far as you can and land with both feet together. No part of your body should touch the equipment and the ground at the same time. From there, hop or shuffle away with feet together. When clear, don't return until Clay Electric has cleared the line.

IF:

Working Safely Near Overhead Power Lines

If a fellow worker contacts a power line, do this:

- Stay away
- Warn others to stay away
- Call 911
- Call Clay Electric @ 1-888-434-9844
- Ladders and power lines don't mix. If you are holding a ladder or any other extended object that contacts a power line, you may become part of the electricity's path to ground. You can be seriously injured or killed. LOOK UP and LIVE.
- If you can't avoid the power line, don't do the work. Contact Clay Electric to have it covered or deenergized. Remember that trees can hide a nearby power line.
- Downed lines can be deadly. Don't assume a line on the ground is not energized. Don't touch or attempt to move the line with anything. Sticks and PVC pipe, as examples, are not rated to protect against 25,000 volts. Call Clay Electric @ 1-888-434-9844.

Working Safely Near Underground Power Lines

Underground utility contacts cost utility owners and contractors millions of dollars in repair and service disruption costs every year. Workers who contact buried utilities put themselves and the public at risk of injury or death. It's your responsibility to dig safely to protect yourself, your crew, and the public.

These are steps to be safe:

Before you dig, blast, bore, trench, drill, grade, or excavate in any way, notify Sunshine State One Call. First, it is the law - Chapter 556 F.S.

Call 1-800-432-4770 two full business days before digging. Call 10 days before digging when digging under water. At the end of your call, you'll receive a locate ticket number. The locate ticket has all the details of your job site.

Wait the required time for buried utilities to be located and marked. Standard color codes for marking are shown on the next page.

Protect the marks during your project. If marks are destroyed, call again.

Dig safely, using extreme caution when digging within 24 inches on either side of the marks to avoid hitting the buried utility lines.

At no time is the customer or his or her electrician to work inside of or insert anything into a Clay Electric energized transformer or other pad mounted equipment.



www.callsunshine.com

Marking Underground Utility Lines



Call Before You Dig



callsunshine.com

Fees and Costs Associated with Development

The fees and costs furnished herein are subject to change and should agree with fees filed with the Florida Public Service Commission. The most current version may be found at www.clayelectric.com under Member Information>Accounts.

Underground Electric Service

- Clay Electric will construct facilities and provide service in the most economical way. In some cases, this may be achieved by placing primary distribution lines underground. In most cases, however, the installation of overhead is more economical. In these cases, Clay Electric will install underground lines provided the developer pays a contribution in aid of construction that covers the additional cost. The developer will also be responsible for the installation of the underground conduit system to Clay Electric specifications.
- There are three standard residential developments where this differential has been determined and standardized on a per lot or unit basis:

Single family, unattached house with a maximum average lot size of 1/2 acre and a minimum of 12 units.	\$800 per lot*
Multi-family developments with one service installed to a ganged meter center, with a density of 6 units/ acre and with a minimum of twelve (12) units (if developer installs conduits per Clay specification, the per unit charge will be waived).	\$0 per unit*

 All other residential developments where single-phase or three-phase electric is required, a contribution in aid of construction will be calculated based on a cost differential between standard overhead electric facilities and the equivalent underground electric facilities.*

Fees and Costs Associated with Development

For larger three-phase commercial service, underground is often the more economical or practical way to construct electric distribution facilities. If underground is desired but not the most economical or practical, underground can be installed if the developer/customer pays the cost difference.

Temporary Electric

Single-phase temporary service with only a service drop for construction purposes	\$60.00
For other construction required only for temporary service that will be removed afterward	Full cost to construct & retire facilities required

New Service Fee - \$125.00

- The New Service Fee is a fee collected to cover the administrative cost of setting up a new customer service location for a permanent service and is effective for 12 months from the time of the application.
- The Fee is applicable to residential, commercial or other general service requirements.
 - The Fee can be paid by the builder/developer or by the customer receiving permanent service, but shall be paid prior to the permanent service being connected.

Line Relocation

• Relocation of electric facilities for the sole benefit of the developer, builder or customer will be done at the expense of the developer, builder or customer requesting the relocation. This will include the cost to both construct new facilities and retire existing facilities.

• If, in Clay Electric's opinion, the relocation is for Clay Electric's benefit or for the mutual benefit of Clay Electric and others, there will be no charge to the customer for such relocation.

• Removing an overhead power line and replacing it with underground facilities is considered a line relocation and will be handled as described above.

Line Extension

• When distribution electric lines, overhead or underground, must be extended to provide service to a customer or a development, Clay Electric will evaluate the cost of this extension and the subsequent revenue that will be provided to Clay Electric by the customer or the developer and determine if a line extension charge is required. If required, this amount due will be paid to Clay Electric by the customer or developer as a contribution in aid of construction. Details of these calculations are found in the Electric Rate Structure Documentation of Clay Electric as filed with the Florida Public Service Commission.



A Touchstone Energy® Cooperative K

STANDARDS

FOR

ELECTRIC SERVICE

CLAY ELECTRIC COOPERATIVE, INC.

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Gainesville

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Lake City

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Keystone Heights

(352) 473-4917

Orange Park

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Salt Springs

(352) 685-2111

<u>Palatka</u>

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INTRODUCTION TO

STANDARDS FOR ELECTRIC SERVICE

The Standards for Electric Service is presented to acquaint architects, developers, engineers, contractors, and members with requirements for receiving electric service.

These service standards are not intended to conflict in any manner with the National Electrical Code, the National Electrical Safety Code, or other State, County, or Cities' electrical code, but are intended to supplement these codes and to clarify certain service requirements which have been found from experience to be best for maintaining safe, satisfactory and good service to the members. It is not expected that this book of standards will cover in detail all of the conditions that arise with the many combinations possible in the construction of electric service installations. The illustrations offered are typical and intended to show the most important points in construction. Where conditions arise that this book does not cover, a representative of Clay Electric Cooperative, Inc., may be contacted to aid the member.

The Clay Electric Cooperative District Offices, listed on the title page will be glad to assist you with your request for new services, changes in existing services, or additions of new loads to existing installations.

Yours truly,

Richard K. Davis General Manager & CEO

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Definitions

Accessible:

Capable of being reached quickly without requiring the adjustment or removal of obstacles; not being closely enclosed by fences, hedges, or other obstacles, which prevent or hinder approachability.

Code:

The National Electric Code, NFPA No. 70; the National Electrical Safety Code, ANSI No. C2; State or local codes having jurisdiction over an electrical installation.

Member:

Any present or prospective user of electric service from the Cooperative or his authorized representative - architect, engineer, contractor, etc.

Cooperative:

Clay Electric Cooperative, Inc.

District Office:

An office of the Cooperative located in one of the six district service areas.

Load:

The member's equipment requiring electrical power: The quantity of electric power required usually expressed in amperes, kilowatt (kW), or kilovolt - amperes (kVA).

Primary:

These are the main feeder circuits extending from the Cooperative's substation to the general vicinity of the member's point of service. Primary voltages are either 7,200/12,470 or 14,400/24,900 Volts.

Secondary:

This is the portion of the Cooperative system that extends from the Cooperative's distribution transformer to the service drop. Secondary voltages are usually 120/240 Volts but may be as listed in Paragraph 3.022.

Service:

The supply of electric energy to a member; the wire connecting the Cooperative's wiring to the member's wiring.

Service Drop:

The overhead service conductors between the Cooperative's pole and the member's point of attachment.

Service Entrance:

Wires and enclosures connecting the member's service equipment to the Cooperative's service drop or other source of supply.

GENERAL INFORMATION

1.01 Application for Electric Service

An application for permanent service must be made by the member as far in advance of their occupancy as possible.

Each applicant for service must complete and sign an "Application for Membership and for Electric Service", for each individual service requested. Identification of the person responsible for the charges is required.

All new service requests are subject to the availability of material!

- 1.02 Service Connection
- 1.021 Each individual service connection shall be metered and billed separately. Each dwelling shall be treated as an individual service connection. Each individual mobile home shall be treated as an individual service connection. Out buildings, pumps, etc., may be supplied from a meter on any individual service connection as described above.
- 1.022 Connection of services to and disconnection from the Cooperative's system (including temporary services) shall be carried out by Cooperative personnel only. With prior approval from the Cooperative, licensed electricians are permitted to disconnect service drops in order to perform necessary work on service entrance and equipment. In these instances, the Cooperative will reconnect the service drop after any required County inspections.
- 1.03 Availability of Service
- 1.031 Information may be obtained at the local district office as to the availability of service at the location where it is desired. The Cooperative will make extensions to its existing facilities when required, provided the revenue to be derived shall be sufficient to afford a fair and reasonable return on the cost of making such extensions.
- 1.032 The Cooperative will provide service in the most economical way possible. If, at the member's request and for their benefit, the Cooperative's facilities are designed and constructed in a way which is not the most economical, the member shall be required to pay the cost differential between the two. This shall include the additional cost of materials, labor and overhead and shall be paid prior to construction of any facilities.
- 1.033 Three-phase power is not available in every part of the service area, especially in rural areas served underground or in isolated urban areas. Therefore, contact should be made with the Cooperative for service availability before specifying and purchasing equipment or wiring of buildings for three-phase equipment or motors of any size.

- 1.034 A combination of a minimum of 10 horsepower, with at least one motor 5 horsepower or larger is required for three-phase service to be extended.
- 1.035 Timely request for service location shall be made by the member at the nearest Cooperative District Office before construction is started. This request for service is not an application for service to the completed building.
- 1.036 The Cooperative will provide service to public or private airports in accordance with paragraph 1.031 above. However, in so providing service, the Cooperative will not build overhead lines across runways or taxiways. If member requires service across runways or taxiways the member shall pay for such service to be placed underground in accordance with formula as set forth in paragraph 5.022D.
- 1.037 The Cooperative reserves the right to refuse overhead service to areas deemed unsafe or impractical for overhead facilities. If the member requires service in these areas, the member shall pay for such service to be placed in conduit underground in accordance with the formula as set forth in paragraph 5.022D.
- 1.038 The Cooperative's distribution facilities both overhead & underground will be located along public/private road rights-of-way whenever possible to provide for the greatest accessibility for maintenance and operation.
- 1.04 Line Extension Charges
- 1.041 General

Line extension charges are designed to allow the Cooperative to have a reasonable assurance that adequate revenue will be provided by a new member to give a fair rate of return on the investment cost of the new transmission or distribution facilities required to serve the member.

These extension charges are based on overhead extensions. Underground extensions are handled as set forth in Section 5.

1.042 Commercial Member (Demand)

Facilities to provide electric service to a new commercial member except those with a small load or infrequent use shall be furnished by the Cooperative at a cost to the member, if any, as determined by the line extension formula.

The following line extension formula shall be used to determine the contribution in aid of construction owed by member.

CIAC _{OH} =	(Actual or estimated job cost (for new poles, conductors (and appropriate fixtures required (to provide service, excluding (transformers, service drops, (and meters))))))
-	(5X nonfuel energy charge per (kWh X expected annual kWh (sales over the new line)))
-	(5X expected annual demand (charge revenues from sales (over the new line)))

This contribution in aid of construction is a one-time charge, which must be paid before construction is begun on the line extension and shall be non-reimbursable.

1.043 Residential and Small Commercial (Non-Demand)

Facilities to provide service to new residential or small commercial members shall be furnished by the Cooperative at a cost, if any, as determined by the line extension formula. Right of way clearing will <u>not</u> be absorbed by the Cooperative for these applications described above.

The following line extension formula shall be used to determine the contribution in aid of construction owed by member.

CIAC _{OH} =	(Actual or estimated job cost (for new poles, conductors (and appropriate fixtures required (to provide service, excluding (transformers, service drops, (and meters))))))
-	` (5X nonfuel energy charge per (kWh X expected annual kWh (sales over the new line)))

This contribution in aid of construction is a one-time charge, which must be paid before construction begins on the line extension and shall be non-reimbursable. At a residential member's request, the Cooperative may finance the line extension charge for a period of one (1) to seven (7) years at an appropriate annual interest rate. This monthly rate will then be added to the normal monthly charge for electricity until paid in full plus interest. Financing will be for not less than \$1000 or more than \$7500 and the term of financing will be adjusted based on the amount financed. If a member chooses the monthly charge and, at some time up to the seven (7) year period, service to a second member is provided from the same line extension, the existing line shall be considered an "existing line" for the purpose of any calculations for the new member.

The new member shall pay line extension charges <u>only</u> for new lines constructed exclusively to serve their location, and this will be calculated as described in Section I.

The line extension charge applied to the existing member will be removed if the original extension to the existing member was less than one (1) mile (5,280 feet) and the second or new member has estimated usage greater than 10,000 kWh per year (833 kWh per month). If the extension was longer than one (1) mile or the estimated usage is less, a proportional amount of the charge should be removed.

- 1.05 Temporary Service
- 1.051 Temporary Service for Construction Purposes

No charge, except for a connect fee, will be required for the installation of a single phase temporary service for construction purposes when the installation of only a service drop is involved. When other construction, such as the installation of lift poles, transformers, etc., is required for the temporary service and will be retired when the temporary service is disconnected, the cost of construction and retirement of these temporary facilities will be charged and shall be collected before beginning work. Charges for temporary service for construction purpose shall not include the cost of any facilities, which shall become permanent.

1.052 Temporary Service for Community Service

No charge for connecting or for electricity used is made to a community civic body when used for only two days or less. Examples of this type of service are for voting booths, special suppers, or entertainment for a community.

1.053 Temporary Service for Commercial Purpose

When special temporary service is requested for a carnival, truck trailer shows or other similar commercial purposes, the Cooperative's cost of construction and retirement of the service, plus a deposit for the estimated electric bill must be secured before beginning work on installing the electric service.

1.054 Inspection of Member's Temporary Facilities

Service entrance, meter, and other wiring for temporary installations shall be made and inspected in the same manner as permanent installations.

1.06 Standby Service

The Cooperative will extend to a member an electric service, which is to provide an alternate source of electricity on a standby basis, i.e. the Cooperative's service to the member is not the normal source of electric power. The cost of such extension including the material and the labor to install and remove the required facilities shall be paid in full by the member prior to work being started. The monthly charge for a standby service shall be contracted on an individual basis to insure a reasonable return to the Cooperative on its investment to provide this service. If a member is receiving service from the Cooperative as the normal source and desires a second source from the Cooperative, the second source shall be handled as a standby service.

1.07 Signs on Federal Financed Roads

The Cooperative will extend service to a sign in accordance with paragraph 1.043 above. The member will be required to pay for the electricity used under the General Service, Non-Demand rate for all signs.

The member will be required to sign a contract for a minimum on the General Service, Non-Demand rate for all signs.

An approved sign permit shall be presented to the Cooperative prior to any construction by the Cooperative.

1.08 Limits of Cooperative's Liability

The Cooperative will use reasonable diligence at all times to provide dependable service at the nominal voltage but does not guarantee nor will it be liable to the member for complete or partial failure or interruption of service or fluctuation in voltage or for phase failure or reversal.

The Cooperative shall not be liable for any condition caused directly or indirectly by mechanical failure of equipment and/or facilities, by repairs or adjustments to its system or for want of supply or by riots, strikes, civil unrest, insurrections, accident litigation, interference by Federal, State or Municipal Governments, acts of God, acts of the public enemy, or any cause beyond the Cooperative's control.

After the electric energy passes the metering equipment of the Cooperative it becomes the property of the member and the Cooperative shall not be liable for loss or damage to any person or property whatsoever resulting directly or indirectly from the use, misuse, or presence of said electric energy on the member's premises.

Protection of motors against under voltage, overcurrent, phase failure or reversal and short circuit is the responsibility of the member.

1.09 Inspection

The wiring and equipment of the member shall be installed and maintained in accordance with the latest edition of the National Electrical Code and local requirements.

All wiring installations shall be inspected and approved by an authorized inspector before the installation is connected. Where such inspection is required by law, the Cooperative will make connection only after approval by the authorized inspecting authority.

The Cooperative reserves the right to refuse service to any new installation or disconnect service to any existing installation that is unsafe and not in accord with code standards. The Cooperative will not be responsible for defective wiring or defective equipment of the member or damage resulting from such defects.

Prior to energizing a new service or cutting on an existing service the safety of the wiring shall be verified using a Cooperative approved meter socket tester. If the tester indicates a wiring problem, the meter shall not be set and the member notified that there is a problem.

1.10 Member Use of Cooperative's Facilities

Member owned facilities shall not be permitted on the Cooperative's poles or other equipment.

DEVELOPMENTS

2.01 General

A residential development shall be a single family development with twelve or more lots, a multifamily development with six or more units, or a mobile home park of twelve or more units where lots are relatively small and are rented or leased by one owner.

- 2.012 A commercial development shall be a project under one ownership consisting of three or more meter points utilized predominately for non-residential purposes.
- 2.013 A complete set of plans for the development shall include the following:
 - 1. Name, address and phone number of person responsible for the development
 - 2. Registered survey including lots and right-of-way
 - 3. Proposed water distribution
 - 4. Proposed sanitary sewer system
 - 5. Proposed storm drain and ponds
 - 6. Proposed curb and gutter, edge of pavement, and road centerlines
 - 7. Construction plans including electrical and load requirements commercial and multifamily
 - 8. Electronic set of plans should include the following:
 - CAD file in AutoDesk/AutoCad.dwg format
 - Any Layers shall be imbedded in the .dwg file and capable of editing.
 - CAD drawing should be spatially accurate with NAD 1983 State Plane Florida North FIPS 0903 Feet being the preferred coordinate system.

2.02 Extension of Electric Facilities

The Cooperative will extend a distribution line to an area being developed in accordance with Section 1. When an underground extension is required to reach an area being developed, a cost difference between overhead and underground will be charged as described in Section 5. The cost shall be paid with a certified or cashiers check made payable to Clay Electric Cooperative, Inc., and payment shall be made prior to the beginning of any construction.

- 2.03 Development Coordination
- 2.031 A preconstruction conference shall be held as soon as possible after the developer and the Cooperative have agreed upon service to the subdivision. The purpose of the conference is to avoid costly construction conflicts and delays in completion dates caused by the lack of overall coordination and understanding of each company's responsibilities and policies. It shall be the developer's responsibility to coordinate the work and to advise the Cooperative as necessary

for it to carry out its responsibilities as agreed upon at the preconstruction conference. It shall be the developer or general contractor's responsibility to assure the attendance of the representatives of all utilities and contractors at the preconstruction conference.

- 2.032 The developer shall be responsible for identifying lot corners and other necessary boundaries required for the Cooperative to locate its facilities within the development. Lot corners shall be marked with a metal stake or other previously accepted means. In an existing development, when the developer is unavailable, the applicant for service may be asked to locate his property corner.
- 2.033 Once a satisfactory route has been arrived upon, utility easements must be obtained across all portions of said route under private ownership, prior to the beginning of construction activities.
- 2.034 When underground electric service is extended, prior to the installation of curb and gutter and/or paving of the streets and in conjunction with the preparation of the sub grade, the developer shall notify the Cooperative that the street sub grade is being completed and the necessary property markers are installed. Any work required above normal construction practices by the Cooperative will be at the expense of the developer.
- 2.035 When served by underground electric, it shall be the developer's responsibility to have the URD cable route cleared and graded to rough grade (+ 6 inches), a final grade established, and a conduit system furnished for both the primary and secondary cables in accordance with Cooperative specifications. The specifications of the conduit system will be distributed at the utility preconstruction meeting. The installation and integrity of the conduit is the responsibility of the developer until such time that the Cooperative has successfully installed cable in the conduit. Any work required, above normal construction practices, by the Cooperative will be at the expense of the developer. Once the Cooperative has successfully installed cable in the conduit, the conduit along with any fittings, shall become the sole property of the Cooperative at no charge to the Cooperative. Should the grade be changed after the cable has been pulled into the conduits and the transformers and hand vaults set, the developer shall bear the cost of the adjustments. When all required fees have been paid, documents and easements secured, the right of way has been cleared, rough grade finished, conduits installed, and the property corners along the proposed cable route have been properly marked, the Cooperative shall be notified and construction will be started as soon as possible.
- 2.036 The Cooperative primary method of installation is to pull cable into developer installed conduit. Should the Cooperative decide that this is not feasible, open trenching installation method will be implemented. If the Cooperative encounters obstacles to productive trenching such as a rock subsoil the Cooperative will stop trenching construction and determine if the obstacle is sufficient to stop underground construction or if additional aid-to-construction will be required to proceed. The Cooperative will require approval of the developer on plan of action or additional cost before proceeding. The developer will be responsible for supplying and installing all street crossing conduits in accordance with

Cooperative specifications. The installation and integrity of the conduit crossing is the responsibility of the developer until such time that the Cooperative has successfully installed cable in the conduit. Any work required above normal construction practices by the Cooperative will be at the expense of the developer. Once the Cooperative has successfully installed cable in the conduits, the conduits, along with any fittings, shall become the sole property of the Cooperative at no charge to the Cooperative.

- 2.04 New Right of Way Clearing
- 2.041 New right of way in a development to be served overhead:

In all new developments, the developer shall clear right of way to Cooperative needs along with road clearing and land clearing operations. In established developments, the developers will be requested to clear right of way to Cooperative needs along with his road clearing and land clearing operation. If it is already past this stage before the Cooperative gets application and Cooperative has to clear right of way, the Cooperative will leave debris in as orderly a fashion as possible by windrowing or, if absolutely necessary, by cutting trunks into lengths that can be handled (6 feet).

2.042 New right of way involving individual property owners:

The Cooperative, at the time of obtaining easements or designing primary line, will work with the property owner to establish route with the least tree removal or trimming impact. The Cooperative's goal is to minimize tree removal and trimming. The Cooperative's goal is also not to remove all debris but leave it in as orderly a manner as possible by windrowing or cutting trunks into manageable lengths (6 feet).

2.043 New right of way in a development to be served underground:

Developer shall be required to clear right of way including stumps for at least all primary cable routes and all conduit installations per section 2.0355.

2.044 Service laterals in a development to be served underground:

It will be the individual builder's responsibility to make a formal application for service to the Cooperative at the time that the meter can and all conduits have been installed. It will also be the responsibility of the home builder to furnish and install conduit with pull string, per Cooperative specifications, from the meter can to the lot corner. At the lot corner, the home builder must connect as well as furnish material for connecting to the Cooperative's conduit system. The installation and integrity of the conduit is the responsibility of the home builder until such time that the Cooperative has successfully installed cable in the conduit. Any work required, above normal construction practices, by the Cooperative will be at the expense of the home builder.

Once the Cooperative has successfully installed cable in the conduit, the conduit, along with any fittings, shall become the sole property of the Cooperative at no charge to the Cooperative.

TYPE AND CHARACTERISTICS OF ELECTRIC SERVICE

3.01 Characteristics of Service

Electric service supplied by the Clay Electric Cooperative, Inc., is alternating current with a frequency of 60 Hertz.

- 3.02 Types of Electric Service
- 3.021 Voltage for Lighting Overhead and Underground Distribution:

The nominal voltage at the point of delivery for typical lighting service is 120/240 Volts, 3-wire, single-phase.

3.022 Voltage for Lighting and Power

The following service voltages will be supplied for qualifying loads upon prior approval of the Cooperative:

- 1. 120/240 Volts nominal, 4-wire, 3-phase Delta
- 2. 120/208 Volts nominal, 4-wire, 3-phase Wye
- 3. 120/208 Volts nominal, 3-wire, single phase
- 4. 240/480 Volts nominal, 4-wire, 3-phase Delta
- 5. 277/480 Volts nominal, 4-wire, 3-phase Wye
- 6. 7200/12470 Volts nominal, 4-wire, 3-phase Wye
- 7. 14400/24900 Volts nominal, 4-wire, 3-phase Wye
- 3.023 The voltage and number of phases which will be supplied depend upon the character of the load, its size, and location. It is necessary that the member consult the Cooperative regarding type of service, which can be furnished before proceeding with the purchase of equipment or installation of wiring.
- 3.03 Service Voltage Limits

Insofar as possible, the Cooperative will design and operate its electric systems so that most service voltages are within a limit of 5% above or below the service voltage assigned. Service voltage shall be defined as the voltage at the point where the electric system of the Cooperative and the member are connected. This is usually considered the voltage at the meter socket or the service entrance point.

Upon request, the Cooperative will test the voltage supply to the member and take corrective action if it is found to be consistently outside the specified limits. The member shall be responsible for providing unusually close voltage regulation when required by the nature of the member's load.

3.04 Neutral Voltage

Small voltages may appear on the system neutral of the Cooperative's distribution system during the normal operation of the line. In most cases, this is not apparent to the member and causes no problems. A neutral voltage if present however, can on occasion cause problems on a dairy farm or other similar situation where animals being fed or worked with make contact with metallic objects and feel a small current caused by the voltage present.

If a member has reason to suspect that neutral voltage is causing problems with his farm operation, the Cooperative will assist the member in locating the source of the voltage. Because there are a number of possible causes for this type of problem, many of which are caused by faulty equipment owned by the member, a thorough investigation is required to isolate and correct the problem. It is recommended that the member contact a qualified electrician to inspect the wiring on his premises. (A check list is available as a guide - see Figure A.)

If, after investigation it is determined that the neutral on the Cooperative's system is contributing to the problem, the Cooperative will install a neutral isolator to separate the Cooperative's neutral from the member's grounding system. Because this is a nonstandard service which is not normally required and is not included in the standard rates charged, the member would be required to pay the cost of this installation.

SECONDARY SERVICE - OVERHEAD

4.01 Member's Service Entrance

Beginning on 1/1/2018 and thereafter, new service wire from the point of take off to the meter location shall be underground unless otherwise approved by the Cooperative. Refer to Section 5 for Service-Underground requirements.

Service entrance wires between the Cooperative's service drop terminal and the member's service entrance should be as short as practical and enclosed in conduit. An approved type service entrance cable may be used where permitted by local code requirements, but not exposed to the exterior of the building.

The neutral conductor of each service entrance wiring shall be plainly marked at the service outlet and at the meter location.

The high leg of each 4 wire, 3 phase Delta service shall be plainly marked at the service outlet and at the metering point and preferably an orange marker should be used. The high leg shall be on the right hand side when facing meter base.

At least two feet of service entrance wire shall be left projecting from the service outlet fitting for connection to the service drop.

Where conduit is used, fittings with removable covers should be avoided in the service entrance run if possible. If such fittings cannot be avoided, they shall not be concealed.

Where a group of commercial occupancies are served from a service raceway, the covers to the pull boxes must be provided with means for sealing or locking where individual service taps are made to the raceway.

The location of the service entrance is important to both the member and the Cooperative. In order to avoid additional cost it is essential that the member contact the Cooperative as to where the service wires and meter should be attached to the building or other supporting structures.

The member's wiring shall be extended to the outside of the building wall to a point high enough to allow clearances as shown herein in Paragraph 4.03. An approved conduit extension shall be provided by the member if required to obtain specified clearances.

The member shall provide and install all material or equipment required for connecting the member's service equipment to the service drop or source of supply. The Cooperative will provide meter and meter base (meter base to be installed by the member.) There will be a contribution in aid to construction for every single phase meter base supplied by the Cooperative. This aid will be due and payable at the time the meter base is received.

4.02 Service Drops - Number per Building

No building shall be supplied from more than one service drop except by special permission of the Cooperative and as permitted by the National Electrical Code or by County Code.

- 4.03 Service Drops Clearance
- 4.031 General

Clearances shall conform to the National Electrical Safety Code, American National Standards Institute C2.

4.032 Clearance Over Roofs

Service drops will not be installed over roofs. If the service drop exists, the service drop must meet clearance required of NESC over any newly installed roof.

Service drop conductors of 300 Volts or less to ground which do not pass over more than a maximum of 4 feet of the overhanging portion of the roof for the purpose of terminating at a service raceway mast, may be maintained at a minimum of 18 inches from any part of the roof over which they pass.

4.033 Clearance from Swimming Pools

Service drop conductors shall not be installed above a swimming pool, diving structure, observation stands, towers or platforms or surrounding area extending 10 feet horizontally from the pool edge. In no instance shall the clearance in any direction to the service drop from the pool surface, edge of water surface, or base of diving platform be less than 23 feet.

Clearance in any direction from the top of the diving platform or tower to the service conductor shall be more than 15 feet.

4.034 Minimum Vertical Clearance of Wires Above Ground:

	0-750 Volts	From 750 Volts to 15 kV
	To Ground	To Ground
Roads, streets and other areas		
subject to truck traffic	16'	18.5'
Driveways, parking lots, and alleys	16'	18.5'
Spaces or ways accessible to		
pedestrians only	12'	14.5'

4.04 Service Drops - Anchorage

4.041 Location

The anchorage for the service drop shall be located on the building or structure at the nearest practical point to the pole and shall be mounted at such a height that the conductors will have the proper clearance as set out in Paragraph 4.034.

4.042 Construction

To fasten the service drop to the building, there are various types of cable grips and anchors used depending on the type of service drop conductors being used. These secure the cable to the building by use of an eye-bolt bolted through the wall or rafters. If the building is not high enough to get the proper service drop clearances above ground, a minimum, rigid 2 inch or larger steel conduit (steel tube or E.M.T. not acceptable) should be installed from the meter socket or enclosure up through the eaves for the dual purpose of supporting the service drop and enclosing the service entrance conductors. This type of installation is referred to as a mast.

The Cooperative will furnish an eye-bolt or an insulated conduit clevis for the member to install during construction.

4.043 Guying-Service Poles

As shown in Figures 1, 1A, and 4A, if the service drop is greater than 50 feet the member must guy their meter pole and install a guy marker on the guy.

4.05 Service Drops - Connectors

The service drop conductors will be connected to the service entrance conductors by means of wire or cable connectors. These connectors will be furnished and installed by the Cooperative.

4.06 Large Services

Because of mechanical support problems and the unsightly appearance of large overhead service conductors, large services may be run underground. The Cooperative reserves the right to make this determination.

4.07 Grounding

Grounding wires shall be installed in accordance with the requirements of the National Electrical Code and local authorities having jurisdiction.

Driven 5/8" ground rods or 3/4" galvanized pipe, both of a minimum length of 8 feet must be used for grounding. Water system grounding alone is not acceptable; however, the two may be tied together for more adequate protection.

SERVICE - UNDERGROUND

5.01 Service Entrance Requirements

5.011 Location

The member shall contact the Cooperative to determine the required location of the service entrance.

5.012 Service Entrance Material and Installation

Underground service conductors will be installed from the Cooperative's point of take-off to the line side of the meter socket as specified herein under paragraphs for residential and commercial installations. Other material is specified in the following paragraphs as appropriate for residential or commercial.

- 5.02 Residential: Single Phase Underground
- 5.021 Underground Service off Overhead Line

Individual underground service off the overhead system will be installed in member furnished conduit for no charge. The installation and integrity of the conduit is the responsibility of the member until such time that the Cooperative has successfully installed cable in the conduit. Any work required, above normal construction practices, by the Cooperative will be at the expense of the member. Once the Cooperative has successfully installed cable in the conduit, the conduit, along with any fittings, shall become the sole property of the Cooperative at no charge to the Cooperative. Member should refer to Figures in Appendix for proper burial depth and size of conduit.

5.022 Underground Primary Extensions

The Cooperative, when requested by an applicant, will provide single phase 120/240 Volt underground electric distribution facilities for residential service as defined in paragraphs A, B, and C below at charges that reflect the annual average cost difference between overhead and underground.

The schedule of charges per meter is as follows:

- A. To single family unattached houses with a maximum average lot size of 1/2 acre and a minimum of twelve (12) units = \$800.00.
- B. To multifamily developments with one service installed to a ganged meter center with a density of six (6) units/acre, and with a minimum of twelve (12) units (If developer installs conduits per Clay specification per meter charge will be waived) = No Charge

C. All other single-phase underground extension and all three phase underground extensions will be in conduit and charged in accordance with the following formula:

Underground Distribution Facilities-For Residential (R) services underground primary installations will be in conduit installed by the Cooperative at a cost in accordance to the below formula.

CIAC_{UG} = (Estimated difference between the) (cost of providing the distribution) (line extension, including not only (the distribution line extension) (itself but also the transformer,) +СІАСон (the service drop, and other (necessary fixtures with underground) (facilities vs. the cost of) (providing service using overhead (facilities)

In no case will the $CIAC_{OH}$ credit be less than zero.

- D. The costs above are based on the Cooperative's being able to install conduit by standard open trenching practices. Should the Cooperative encounter obstacles such as rock subsoil that prevent standard trenching operations, additional aid-to-construction may be required. If this occurs, the Cooperative will require approval of Owner or Developer before proceeding.
- 5.023 Member Owned Underground Service

The Cooperative will connect a member owned underground service under the following conditions:

- A. Service is installed in accordance with all applicable codes.
- B. The meter shall be located ahead of the service. The location of the meter will identify ownership. The member shall own and maintain all facilities behind the meter.
- 5.03 Underground Service Commercial
- 5.031 Underground Service (Rate classes GS, GSD, LGSD & LGSDT/LM)

The member shall install service conduit per Cooperative standards. Cooperative will install service wire free of charge. <u>Single phase underground service</u> will be extended from either a pole or padmount transformer as is most practical at a voltage of 120/240. The 240/480 volt application may be available upon request.

<u>Three phase underground service</u> will be extended from either a pole or padmount transformer as is most practical. Only the following voltages are available when a padmount transformer is used:

120/240 Delta	25 kVA through 75 kVA
120/208 GRDY	75 kVA through 1000 kVA
277/480 GRDY	75 kVA and larger

5.033 The Cooperative will provide and install the following equipment:

- A. Transformer as required
- B. All conductor and connections on the line side of the meter when metering is self contained. This includes connections at transformer if conductor supplied by Cooperative.
- C. Current transformers, wiring and meter socket when installed on the transformer. This will only be used when one service is extended from the transformer (Figure 18).
- D. Meter
- E. Cooperative will install member furnished conduit sweeps (PVC or Metal) if they terminate in an energized transformer or enclosure. Member is to coordinate this installation with Cooperative.
- F. Cooperative will connect all conductors, even member furnished, at the transformer if transformer is energized.
- 5.034 The Cooperative will provide for the member to install the following:
 - A. A three phase meter socket (standard type only) will be furnished by Clay Electric when installed on the member's building. For any single-phase meter sockets furnished there will be an aid to construction cost payable to the Cooperative at the time of receipt of meter socket.
- 5.035 The member will provide and install the following equipment:
 - A. Transformer pad if required
 - B. Two parallel conduit runs with pull strings for primary conductor. These shall include sweeps of at least 24" radius to turn up the pole

or into a URD enclosure. If the member furnished sweeps turn up into an energized URD enclosure the Cooperative will install. The member is to coordinate this installation with Cooperative. **AT NO TIME IS THE MEMBER OR THEIR ELECTRICIAN TO WORK INSIDE THE COOPERATIVE'S_ENERGIZED EQUIPMENT.** The installation and integrity of the conduit is the responsibility of the member until such time that the Cooperative has successfully installed cable in the conduit. Any work required, above normal construction practices, by the Cooperative will be at the expense of the member. Once the Cooperative has successfully installed cable in the conduit, the conduit, along with any fittings, shall become the sole property of the Cooperative at no charge to the Cooperative.

- C. Conduits and pull strings as required for service conductors. This shall include ells to turn up the pole or into a URD_transformer. If the member furnished ells turn up into an energized URD transformer the Cooperative will install. The member is to coordinate this installation with Cooperative. **AT NO TIME IS THE MEMBER OR THEIR ELECTRICIAN TO WORK INSIDE THE COOPERATIVE'S ENERGIZED_EQUIPMENT.** The installation and integrity of the conduit is the responsibility of the member until such time that the Cooperative has successfully installed cable in the conduit. Any work required, above normal construction practices, by the Cooperative will be at the expense of the member. Once the Cooperative has successfully installed cable in the conduit, the conduit, along with any fittings, shall become the sole property of the Cooperative at no charge to the Cooperative.
- D. All conductor and connections on the load side of the meter. This includes service conductors if service is CT metered at the transformer. If transformer is energized the member must coordinate conductor installation and connection with Cooperative. The Cooperative will perform any work required during installation and connection at the transformer if transformer is energized. AT NO TIME IS THE MEMBER OR THEIR ELECTRICIAN TO WORK INSIDE THE_COOPERATIVE'S ENERGIZED TRANSFORMER. The Cooperative will furnish its standard connectors for the secondary of the transformer.
- E. Enclosure for current transformers, if required, when CT metered at the member's building. This shall be required for CT metering when more than one service is extended from the transformer providing service. Conduit and pull string shall be provided from enclosure to meter socket. An approved means of disconnect shall be provided to separate the Cooperative's service conductors from the member's service entrance conductors and shall be located

outside adjacent to the CT enclosure. Enclosure, meter socket and disconnect shall be located as approved by the Cooperative on the outside of the building (Figure 17).

F. Any special meter socket which is not furnished by the Cooperative shall require prior approval of the Cooperative.

METER INSTALLATIONS

6.01 Meter Location

The location of meters is an important consideration to both the Cooperative and the member. The Cooperative should always be consulted and will endeavor to select a location that will be the most suitable to both parties. Normally all metering will be outdoors.

In the event that a meter area is later enclosed, the member shall, at his expense, have the meter facilities moved to an outside location.

Meters for apartment houses, offices, or commercial buildings should, where possible, shall be outside but they may be grouped together in a meter room provided for that purpose. Meters installed outdoors should be located on the building in a place where they will be protected from mechanical injury.

Meter sockets and enclosures shall be securely mounted in a plumb and level position on a solid wall or structure. When mounted on masonry walls or structures, meter sockets and enclosures shall be secured with screws set in lead shields or with toggle bolts. Wood pegs shall not be used. The center of the meter shall not be more than 6 feet from the ground or less than 4 feet.

Meters shall be located outside on the first floor and shall be easily accessible at all times for reading and testing. Meters shall not be installed near belts or other moving machinery endangering the safety of those doing work about the meter.

The member shall furnish and install meter boards, service switches, and other equipment to form a complete wiring system. Mounting devices that are not provided with hangers for the meter equipment shall have boards installed in back of them to permit the meter equipment to be attached with wood screws. These boards shall be of a clear, soft, dressed wood at least 3/4 inch thick, free from knots and cracks and painted with a good quality paint. They shall be securely fastened to the wall in a vertical position.

A clear space of at least 60 inches shall be maintained in front of all meters for reading and testing and the Cooperative shall have the right of entry to the member's premises at reasonable hours to install, read, inspect, repair or remove meters or other system-owned equipment used to supply electricity.

6.02 Identification of Meters

All meter sockets or enclosures on multiple occupancy dwellings, mobile home parks, or commercial services requiring the use of more than one meter at a location shall be permanently identified as to street number, apartment number, building section or other permanent location designation which that meter serves.

6.03 Single Phase Meter Installations

The member may obtain a meter socket from the Cooperative or purchase a Cooperative approved meter socket from a local supplier. The metering sockets forming portions of the wiring installations shall be installed by the member as a part of his wiring. All meter sockets once installed become the property of the Cooperative. For all single-phase meter sockets furnished by the Cooperative there will be an aid to construction cost payable at the time of receipt of meter socket.

6.031 150 Amperes or Less

On installations where the service entrance conductors are sized for 150 amperes or less, a meter socket with a 2 inch hub can be reduced down to accommodate smaller conduits as required.

6.032 200 Amperes or Less, but More than 150

On installations requiring service entrance conductors to carry up to 200 amperes, the Cooperative will furnish a 200 ampere rated socket with a 2-inch hub as required. There will be an aid to construction cost for all single-phase meter sockets.

6.033 Over 400 Amperes

Installations of this size will necessitate the use of instrument current transformers. The Cooperative shall be consulted on all installations of this character before any work is done.

- 6.04 Four-Wire, Three-Phase Meter Installations
- 6.041 400 Amperes or Less

On installations of 400 amperes or less, the Cooperative will furnish a suitable socket type meter base.

6.042 Over 400 Amperes

On installations over 400 amperes the use of instrument current transformers will be necessary. The Cooperative shall be consulted on all installations of this character before any work is done.

6.043 Main Disconnect Rule

There shall be a Main Disconnect on the source side of any self contained meter 480V Phase to Phase.

6.05 Instrument Transformer Installations

On installations requiring the use of instrument current transformers, the member will furnish a Cooperative approved enclosure.

All wiring except that from the secondary terminals of the current transformers to the meter shall be completed by the member: Along with this the member will furnish and install all conduit and pull wire required for meter installation.

6.06 Impulse Metering for Large Services

Certain large use members may wish to investigate the incorporation of impulse equipment within the meter for the explicit purpose of load monitoring and control. The Cooperative makes this convenience available and will install the necessary equipment at their metering station. The cost of such equipment and labor shall be borne by the member and only kilowatt impulse equipment will be provided. The member will have the responsibility for all other wiring beyond the metering point.

6.07 Time-of-Use Metering

Certain members, if eligible, may choose one of the Cooperative's time-of-use rates. The Cooperative makes these rates available and will install the necessary equipment at the metering station. The cost of this equipment installation will be borne by the Cooperative. The member will have the responsibility for providing a standard telephone line to the metering station. This phone line should be a private line and if member is using PBX equipment, the metering station should be installed preferably on a telephone line, which does not go through PBX. The Cooperative shall be consulted on all installations of this character.

PRIMARY SERVICE

7.01 General

Primary metered service is available to members who provide, install and maintain their own distribution system and equipment unless otherwise specified in the contract for service. The metering of this service will be at the primary voltage level at a voltage determined by the Cooperative. Normally primary service will be made available only to members with a minimum demand of 300 kVA.

- 7.02 Metering
- 7.021 Location

The member's service location for primary service is at the metering point and to be placed within access of the Cooperative. Beyond the metering is fully the member's responsibility unless otherwise specified in the contract for service. The Cooperative shall approve location.

7.022 Metering in Member's Substation

At a member's request, metering will be incorporated within the member's substation or switchgear. Contact should be made as early as possible to allow for coordination of the proposed installation.

7.023 Protective Equipment

Protective equipment as required on the load side of a meter installation shall be provided by the member as directed and approved by the Cooperative.

7.03 Cooperative owned equipment behind Primary Meter

The Cooperative will furnish service under the GSD, GSDT/LM, LGSD, LGSDT/LM, HLF, SS, INT, INT-T, AND INT-C at a single voltage. Equipment to supply additional voltages or additional facilities for the use of the member shall be furnished and maintained by the member. The member may request the Cooperative to furnish the additional equipment and facilities, and the Cooperative at its sole option, may furnish install, operate and maintain such additional equipment and facilities, charging the member for the use thereof at the rate of 1.75% per month of the installed cost of such additional equipment and facilities.

MEMBER UTILIZATION EQUIPMENT

8.01 General

The Cooperative builds and maintains adequate lines to supply proper service to all members using normal equipment. However, since equipment installed by one member may affect the adequate service to other members and because the misuse of some equipment would constitute a life or fire hazard, the Cooperative has prepared the following regulations covering the more common installation of utilized equipment.

The Cooperative specifies only such requirements as are necessary to safeguard both its members and the Cooperative to the end that service may be rendered with a maximum of safety and with a minimum of interruption or disturbance. The member shall consult the Cooperative for details on special equipment.

8.02 Motors

In order to insure a good quality of service, the Cooperative has established certain limits for the maximum allowable starting currents of motors to be connected to their lines. Single phase motors not exceeding 5 horsepower and three phase motors not exceeding 20 horsepower may be installed without restrictions.

8.021 Motors - Starting Methods

Motors larger than specified above shall require completion of a Motor Start Application, Exhibit A. These are available from the Cooperative. In the event that starting equipment is required, the maximum starting current will be specified and equipment shall be installed by the member prior to the service being connected. The number and frequency of starts may also be specified by the Cooperative.

8.022 Voltage Fluctuation Due to an Existing Motor

The Cooperative shall require the member to correct voltage fluctuation exceeding 2% when affecting another member.

- 8.03 Special Equipment
- 8.031 Non-Standard Equipment

The member is cautioned against the purchase and use of any type of electrical equipment that is NOT OF STANDARD MANUFACTURE AND IS NOT APPROVED BY A COMPETENT AUTHORITY (such as Underwriter's Laboratories).

8.032 Flashing Signs

All flashing signs or lights served by the Cooperative shall be provided with the necessary type of switching equipment to eliminate undesirable flicker and radio trouble interference to other members.

8.033 Other Equipment

Due to the very severe operating characteristics of such equipment as electric welders (particularly of the transformer type), strip heat, furnaces, x-ray, wireless and radio broadcasting stations, the member shall apply to the Cooperative for approval to use such equipment before installation is made. When the operation of any equipment is detrimental to satisfactory operation of the Cooperative's distribution system, the Cooperative may require the installation of special protective equipment at the expense of the member.

8.04 Member Owned Generators

If a member purchases a portable generator, the Cooperative recommends this unit not be wired into a home's distribution panel or into a receptacle that is connected to a home's electrical system. Appliances should be plugged directly into the generator or plugged into a heavy-duty extension cord, which is plugged directly into the generator.

If a member wishes to permanently install an emergency or standby generation system, a switching and control scheme or a mechanically interlocked transfer switch shall be provided by the member to preclude the possibility that any energy generated by the member's equipment will back feed into the Cooperative's system (reference Figure 22). The member should check with the local county authorities to determine if any permits or inspections are required. Such generation systems and their associated equipment shall be installed by a Licensed Electrician. Failure to provide such safety switching equipment shall subject the member to possible disconnection of electric service by the Cooperative.

8.041 Meter Base Transfer Switch

There are now available several manufacturers of transfer switches that can be installed between the meter and meter base. The Cooperative does not object to the installation of these type transfer switches.

- A. The member must use a Cooperative approved meter base transfer switch. At present the only switches approved are:
 - 1. GenerLInk Global Power Products 1-800-886-3837

2. GenConnect Models: LG-050M210 LG-050M213 Electro Industries, Inc. 1-800-922-4138

If member desires to use another brand, they must first receive approval from Cooperative. Failure to receive prior approval could subject member to possible removal of switch from meter base by Cooperative.

- B. The meter base the transfer switch is to be mounted in must be rated at 200 amperes and constructed of rigid metal (not aluminum) and firmly attached to the wall or pole.
- C. The transfer switch must be installed by a licensed electrician. The electrician must call the Cooperative notifying us he is cutting the meter seal to install the transfer switch. The electrician must install the transfer switch and meter according to manufacturer's specifications. If a new or additional meter band is needed the electrician can get one at no charge from a local Cooperative office.
- D. A Cooperative representative will reseal the meter base and inspect the installation when in the area or during the next meter reading cycle. Should the inspection reveal an improper installation the Cooperative may remove the improper transfer switch.

8.05 Harmonics

The Cooperative shall require the member to correct voltage distortion when such distortion due to harmonic loads of the member equals or exceeds 5% THD of the delivery voltage.

- 8.06 Interconnection Guidelines of Member-Owned Distributed Generation
- 8.061 The Cooperative entered into a Wholesale Power Contract (WPC) with Seminole Electric Cooperative, Inc. ("Seminole"), effective as of July 30, 1975, which, as amended, has a term through December 31, 2055. The WPC provides among other things that the Cooperative shall purchase from Seminole all electric power and energy which the Cooperative shall require for the operation of the Cooperative's system.
- 8.062 In 1978 Congress enacted the Public Utility Regulatory Policies Act of 1978 ("PURPA"). The Federal Energy Regulatory Commission ("FERC") adopted rules implementing PURPA, particularly, sections 201 and 210 that require the Cooperative and Seminole to interconnect with and to buy from and to sell to Qualifying Facilities ("QF") as defined by PURPA. As a result, the Cooperative and Seminole received permission from FERC to operate as a single entity for purposes of implementing PURPA. It is the policy of the Cooperative and

Seminole: (1) to permit any QF to interconnect with Seminole's transmission system, or the distribution or transmission system of the Cooperative; (2) to permit any QF to sell energy and capacity to Seminole; (3) to permit any QF to purchase supplementary, back-up, maintenance, and interruptible power from the Cooperative at rates that are nondiscriminatory, just and reasonable, and in the public interest; and (4) to permit any QF so requesting to wheel its energy and capacity over the distribution or transmission system of the Cooperative and/or the transmission system of Seminole, to the extent transmission or distribution capacity is available, to any electric utility purchasing such power. Seminole develops, amends, and maintains the interconnection guidelines, standard offer contracts, and applicable rate schedules. Upon a member's request, the Cooperative will furnish these documents.

- 8.063 Effective January 1, 2009 the Cooperative and Seminole amended the WPC to allow the Cooperative to net meter renewable energy resources located on member's premises. The terms of net metering are described in the Cooperative's rate tariffs along with an interconnection agreement. These rates and agreements may be viewed and downloaded on the Cooperative's website <u>www.clayelectric.com</u>.
- 8.064 All other distributed generation installations not meeting paragraphs 8.062 and 8.063 and desiring to operate in parallel with the Cooperative's electrical system shall first contact the Cooperative and provide detailed equipment specifications. It is the Cooperative's policy that any such interconnection should follow the Institute of Electrical and Electronics Engineers ("IEEE") standard 1547 for Interconnecting Distributed Resources with Electric Power Systems as they may be amended from time to time. The member must certify in writing that the proposed installation meets IEEE Standard 1547.

The Cooperative after review of member's interconnection request may deny request or if approved Cooperative will prepare specific interconnection agreement for this installation. The member must execute an interconnection agreement before interconnecting.

MAINTENANCE OF SERVICE

9.01 Alterations and Additions

9.011 Increase in Service Size

Connection to the member's premises is made with service wires, meters, transformers, and other necessary facilities to properly supply adequate electric service for the operation of the member's installation in accordance with the application. If any additional load of substantial size is added, the Cooperative shall be notified so that satisfactory service may be maintained.

To safeguard both the property of the member and that of the Cooperative, the member must not overload or overfuse any service or branch circuit.

9.012 Relocation of Cooperative's Facilities

A member may request the Cooperative to relocate or rearrange its facilities to better accommodate the member. If, in the opinion of the Cooperative, such relocation is for the sole benefit of the member or is necessary because of changes on the member's premises to allow the Cooperative to maintain compliance with the National Electrical Safety Code and Section 9.04 of this Standard, and without the Cooperative receiving any benefits due to the relocation, the member will be charged the cost of the relocation.

If, in the opinion of the Cooperative, there is a mutual benefit for the member and the Cooperative for the Cooperative to relocate, the relocation will be performed by the Cooperative at no cost to the member.

9.02 Protection by Member of Cooperative's Property

The member shall properly protect the Cooperative's property on a member's premises and shall permit no one but persons authorized by law to have access to Cooperative owned wiring, meters, and apparatus. In the event of any loss or damage to the property of the Cooperative caused by or arising out of carelessness, neglect, misuse by the member the cost of replacing or repairing such damage shall be paid by the member. The member shall not plant any vegetation that would interfere with the Cooperative's adjacent overhead conductors, hinder ventilation for and maintenance of any padmounted facilities or obstruct visual reading of electric meters.

9.03 Right of Entry

The Cooperative shall have the rights of entry to the member's premises at reasonable hours to install, read, inspect, repair or remove meters or other system-owned equipment used to supply electricity.

9.04 Easement Restrictions

The Cooperative restricts the use of the easement to general farming, citrus groves, or pasture purposes, as long as such does not interfere with the Cooperative's use of the easement. The easement is to be clear of all buildings, structures or other obstructions except citrus trees, low-growing shrubbery and fences that do not otherwise interfere with Cooperative's use of the easement. The Cooperative specifically prohibits the construction of any aircraft runways or taxiways, both private and public, on Cooperative's easements.

OUTDOOR LIGHTING SERVICE

10.01 General

The terms and conditions contained in this General Section 10.01 apply to all services provided in this Section 10.

Cooperative will provide public roadway lighting and area lighting services in accordance with Rate Schedules RSL, L, and FL and Cooperative policy. The lighting design will consist of suitable lighting patterns for roadway and area lighting projects using our standard fixtures and taking in account the member's request.

The Cooperative, while exercising reasonable diligence to furnish outdoor lighting services, does not guarantee continuous service, regardless of the type of service provided, and will not be liable for damages for any interruption, deficiency or failure of service, and reserves the right to interrupt service at any time necessary for repairs to lines or equipment. The member shall be solely responsible for notifying the Cooperative of any required repair and replacement services to the facilities, and such services will be provided during regular daytime working hours, Monday through Friday, as soon as practicable after verification and subject to appropriate operating policies and procedures, the availability of replacement parts and other matters beyond the control of the Cooperative. The Cooperative specifically does not warrant or guarantee that the outdoor lighting services shall meet any lighting standard, including, but not limited to, the location of the facilities and the illumination provided.

Member waives any claim, liability, damage (both as to persons and property, including death), costs, expenses, and attorney's fees (collectively referred to for purposes of this paragraph as "claims") that the member may have or assert against the Cooperative arising out of the service provided hereunder, or the failure, interruption, inadequacy or insufficiency of the service provided. Member shall defend, indemnify, and hold harmless the Cooperative from all claims asserted against the Cooperative arising out of the services provided hereunder, or the failure, interruption, or insufficiency of the services provided hereunder, or the failure, interruption, or insufficiency of the service provided. Outdoor lighting services shall not include maintenance, monitoring, or inspection.

The Cooperative is not responsible for trimming trees that may either obstruct light output from fixture or that obstruct repair or replacement access to the light fixture. The member will be responsible for trimming trees around lights. Due to the possibility of high voltage, lines near the light the member should contact the Cooperative before trimming any trees around the light so the Cooperative can determine if it will be safe for the member to trim the trees.

The Cooperative may remove any outdoor light fixtures and/or poles that require repeated repairs due to vandalism. The Cooperative will notify the member or agency of its intent to remove the lighting equipment. The member or agency will have the option of continuing service if it agrees to pay all excess repair expenses resulting from vandalism as determined by Cooperative.

10.02 Public Roadway Lighting

Cooperative will install lighting on any public roadway upon written request and approval from the city, county, state, or other governmental agency having jurisdiction. All such lighting will be covered by a contract executed by Cooperative and the authorizing government agency.

The amount of illumination required in a roadway lighting system varies based on roadway classification, pavement type, and presence of pedestrian sidewalks.

The Cooperative will exercise reasonable diligence in designing and installing roadway lighting that meets member needs as well as conforming to applicable standards such as American Association of State Highway and Transportation Officials Street lighting Guidelines (AASHTO Guidelines) or Illuminating Engineering Society (IES) standards.

The Cooperative does not guarantee these lighting levels throughout the life of the installation and will not be liable for damages for any obstructions or deterioration that would reduce the fixture output at roadway level. The member or agency responsible for roadway shall be responsible for maintenance of rightof-way to trim or remove any trees or obstacles that would reduce the fixture output at roadway level.

The Cooperative's standard installation includes mounting light fixture on an existing pole. A monthly fee as defined in rate schedules L and FL will be added if a new pole must be added to install the light. Where more than a standard wood pole and service drop is required, the member will be charged for the additional cost. If a transformer must be installed for the exclusive purpose of providing service to the light, the member shall be charged the materials, labor, and overhead costs for the transformer.

For Cooperative owned and installed street lighting facilities, a contribution in aid of construction (CIAC) will be required from the member for:

1. The installation cost of any new overhead distribution facilities for the exclusive purpose of providing service to the lights, exclusive of the installed cost of a standard lighting fixture itself and one span of service wire to the light.

2. The installation cost of any new underground distribution facilities for the exclusive purpose of providing service to the lights, exclusive of the installed cost of a standard lighting fixture itself and the equivalent cost of one span of overhead service wire to the light.

This CIAC if any shall be paid by Member before the commencement of any construction work by the Cooperative.

The only exception to the above design standards will be systems designed for subdivision roadways. These type roadways often contain many curves and culde-sacs, which make uniform lighting difficult. These will comply with the standards described in Section 10.021.

Once installed the roadway lighting will be repaired or replaced by the Cooperative. The member or governmental agency requesting the lighting shall be solely responsible for notifying the Cooperative of any lights needing repair or replacement services. These services will be provided during regular daytime working hours, Monday through Friday, as soon as practicable after verification (Cooperative goal is 3 working days) and subject to appropriate operating policies and procedures, the availability of replacement parts and other matters beyond the control of the Cooperative. These services are subject to any specific contract the Cooperative may have executed with a member or governmental agency.

10.021 Subdivision Roadway Design Standard

Standard lighting practice along subdivision roadways will not adhere to AASHTO or IES guidelines due to the many varied roadway curves, cul-de-sacs and homes with close proximity to roadway.

The Cooperative's standard design on these roadways will consist of standard lighting fixtures at potential areas of conflict such as intersections, curves and cul-de-sacs. Standard light fixtures will then be installed between these conflict areas to "fill in" the roadway lighting. This typically consists of lights installed every 200 – 300 feet.

This standard does not apply to any main boulevard or collector roadway within a subdivision. Their lighting standard will be as described in 10.02 above.

This design will be done before determining which charge to use under the Cooperative's RSL rate schedule.

Should additional poles need to be added in subdivisions served by overhead distribution lines, the Cooperative shall charge the developer as applicable in the rate schedules of the Cooperative to cover the cost of the additional poles. If a transformer must be installed for the exclusive purpose of providing service to the light, the member shall be charged the total cost of the installed transformer. Where the subdivision is served by underground distribution lines, the Cooperative will furnish and install its standard lights provided the applicant for such service pays for the installed cost of such lighting system.

10.022 Public Roadway Intersection Lighting

Cooperative will install lighting at any public road intersection upon written request from member and approval from the city, county, state, or other agency having jurisdiction over the public roadway. All such lighting will be covered by a contract executed by Cooperative, member and agency responsible for roadway.

Intersection shall be defined as joining of two public roadways or a private/public driveway onto a public roadway.

The Cooperative will exercise reasonable diligence in designing and installing roadway lighting that meets member needs as well as conforming to applicable standards such as AASHTO Guidelines or IES Standards.

Typical installations are shown in Figures 23-25. If intersection needing lighting is not shown in Figures 23-25, the Cooperative will provide a design specific to members' intersection.

All other conditions of section 10.02 Public Roadway Lighting shall apply.

10.023 Crosswalk/Bus Stop Lighting

The Cooperative will install lighting for these areas under the same conditions as Public Roadway Intersection Lighting Section 10.022.

Typical installations are shown in Figure 26. If crosswalk or bus stop needing lighting is not shown in figure 26, the Cooperative will provide a design specific to members' request.

10.02 Residential Outdoor Lighting

The Cooperative will furnish and install any of its standard outdoor lights for a residential member provided such residential member agrees to pay a charge as applicable in the Cooperative's rate schedules L and FL.

This outdoor lighting is for year-round outdoor lighting of yards, walkways, or other areas on property owned by the requesting residential member.

The light must be faced towards private property if installed on poles along an adjacent roadway.

The Cooperative does not design to or guarantee minimum outdoor lighting levels based on any IES standards. These lights are located solely on direction and request of residential member for their use and pleasure.

The Cooperative will not be required to install outdoor lighting at any location where the service may be objectionable to others. If it is determined after installation that the light is objectionable, the Cooperative may terminate the service without obligation or liability.

The Cooperative's standard installation includes mounting light fixture on an existing pole. A monthly fee as defined in rate schedules L and FL will be added if a new pole must be added to install the light. Where more than a standard wood pole and service drop is required, the member will be charged for the additional cost. If a transformer must be installed for the exclusive purpose of providing service to the light, the member shall be charged the materials, labor, and overhead costs for the transformer.

The member shall be solely responsible for notifying the Cooperative that a light is not working properly or is out. The Cooperative will repair or replace the light during regular daytime working hours, Monday through Friday, as soon as practicable after verification (Cooperative goal is 7-10 working days) and subject to appropriate operating policies and procedures, the availability of replacement parts and other matters beyond the control of the Cooperative.

10.03 Public/Commercial Outdoor Lighting

The Cooperative will furnish and install any of its standard outdoor lights for a commercial member or public agency in accordance with Rate Schedules L and FL and Cooperative policy. All such lighting will be covered by a contract executed by Cooperative and the commercial member or public agency.

This outdoor lighting is for year-round outdoor lighting of parking areas, storage area, boat ramps, parks, or other areas on property owned by the requesting party. The light must be faced towards private property if installed on poles along an adjacent roadway.

Unless required by executed contract the Cooperative does not design to or guarantee minimum outdoor lighting levels based on any IES standards. These lights are located solely on direction and request of member or public agency for
their use and pleasure.

The Cooperative will not be required to install outdoor lighting of any location where the service may be objectionable to others. If it is determined after installation that the light is objectionable, the Cooperative may terminate the service without obligation or liability.

The Cooperative's standard installation includes mounting light fixture on an existing pole. A monthly fee as defined in rate schedules L and FL will be added if a new pole must be added to install the light. Where more than a pole, light fixture and service drop is required, the member will be charged for the additional cost. If a transformer must be installed for the exclusive purpose of providing service to the light, the member shall be charged the materials, labor, and overhead costs for the transformer.

Member waives any claim, liability, damage (both as to persons and property, including death), costs, expenses, and attorney's fees (collectively referred to for purposes of this paragraph as "claims") that the member may have or assert against the Cooperative arising out of the service provided hereunder, or the failure, interruption, inadequacy or insufficiency of the service provided. Member shall defend, indemnify, and hold harmless the Cooperative from all claims asserted against the Cooperative arising out of the services provided hereunder, or the failure, interruption, or insufficiency of the services provided hereunder, or the failure, interruption, or insufficiency of the service provided. Outdoor lighting services shall not include maintenance, monitoring, or inspection.

The member shall be solely responsible for notifying the Cooperative that a light is not working properly or is out. The Cooperative will repair or replace the light during regular daytime working hours, Monday through Friday, as soon as practicable after verification (Cooperative goal is 7-10 working days) and subject to appropriate operating policies and procedures, the availability of replacement parts and other matters beyond the control of the Cooperative.

W:/Engineering/Trans&Dist/DOC Revised 060223

CLAY ELECTRIC COOPERATIVE, INC.

NEUTRAL VOLTAGE CHECKLIST

Service Entrance Farm - Power Pole	Yes*	No
Connection to the Ground Rod - Loose, Corroded		
Covers loose		
• Excessive rust		
Porn Sorvico Entronço		
Dath Service Entrance		
Ground Rod missing at the service entrance		
Connection to Ground Rod - Loose, Corroded		
Covers loose		
Excessive rust.		
• wet or Damp areas		
Large accumulation of feed dust on service box		
• Frequent fuse blowing		
<u>Milk house</u>		
Excessive rust on electrical boxes or conduit		
Water sitting on or in electrical boxes		
Covers missing or open to electrical boxes		
Wires sitting in water		
In the Parlor or Around-The-Barn		
Pulsator wiring- Pinched Wires		
o Loose, Hanging wires		
• Scrapes, Breaks, or Cracks in insulation		
• Exposing the conductors		
• Broken Stall Cocks		
Excessive rust on electrical boxes or conduit		
• Wires laving in wet or damp areas		
Electrical Boxes missing covers		
Loose, Hanging wires		
Broken or bend conduit		
A Constal Pavian of all Form Electrical Equipment		
• Lights dimming when motors start		
 Electrical shocks from any equipment 		
 Excessive rust on electrical boxes or conduit 		
 Wires Electrical bases or Motors in wet or damp areas 		
 Accumulation of dust on or around electrical equipment 		
Bent or Broken Conduit		
Scrand wire insulation expering conductors		
 Scraped wife insulation exposing conductors		
 Connections to service entrance Ground Rous - Loose, Conforded Extension Cords 		
Extension Colds Electrical Power missing covers		
 Electrical Boxes missing covers. Loose Hanging wines 		
 Loose, manging wires. Matana an anting imperchange and an logit an anti- 		
 Motors operating irregularly under load, sparking, etc Electrical extlater issues think hale for any set. 		
Electrical outlet missing third note for ground		

*A <u>"Yes"</u> Check-mark in this space indicates a potential problem. In most instances, a qualified electrician should be contacted for repair or replacement of the electrical equipment. Figure

Figure A Sept. 29, 2020

Motor Starting Application

The foll	owing information to be	completed by the me	nber
Applicant Name:		Date:	
Application of Motor:			
Irrigation	Pump, Air Compressor, Elevator, etc		
Starts Per Day:	Interval Between Starts:		
Motor Phasing:	Single Phase	Three	Phase
Motor Classification:	Induction	Synch	ronous
Motor Type:			
Squirrel Co	nge, Wound Rotor, Shaded Pole, etc.		
Motor Horsepower:	NEMA Code:	Moto	r Voltage:
Motor Starting Assistance:			
Red	uced Voltage Start, Resistive Start, A	uto Transformer Start, etc. If no	one please specify.
amount of voltage reduction.			
Will there be other motors sta	rting simultaneously?	Yes	No
lf "Yes", explain:			<u> </u>]
Additional Information:			
	Signature of Member		Date
The followi	ng information to be con	pleted by District Eng	gineering
Substation Name:		Feeder Number:	
Map ID:		Is the member/location:	□ New? □ Existing?
Transformer Bank Type:		Total Transformer kVA:	
Secondary Service Length:		Secondary Conductor:	
The followi	ng information to be com	pleted by Engineering	g Services
Request Status: A Comments:	ccepted Decl	ined	FIGURE



- 2. If service length is 50 feet or greater, guying is required. Refer to Insert detail.
- 3. One 5/8" x 8' ground rod may be used if the measured resistance to ground is 25 ohms or less.
- 4. The upper end of the grounding rod shall be flush with or below finished grade unless the above ground end and the grounding rod conductor attachment are protected against physical damage per NEC
- 4.1. Member Shall adhere to county code requirements in conjunction with the NEC.
- 5. Local codes that may exceed these requirements shall apply.
- Satellite dishes, area lights and other member owned attachments shall be a minimum of 12" below the service drip loop. Clearance shall be measured to the highest point of attached object. The most current National Electrical Safety Code (NESC) requirements shall apply.

01/01/13	Rev. 09/20/20	Esfig1 2020.dwg
	TYPICAL OVERHEAD	TEMPORARY SERVICE
FIGURE 1	CLAY ELECTRIC C KEYSTONE HEI	OOPERATIVE, INC. STANDARDS FOR GHTS, FLORIDA ELECTRIC SERVICE





Figure 2	CLAY ELECTRIC COOPERATIVE, INC. Keystone heights, florida	STANDARDS FOF







code (NESC) requirements shall apply.			
12/08/17	REV. 10/06/2020	Esfig4A 2	2020.dwg
TYPICAL OVERHEAD SERVICE TO MOBILE HOME, PUMP, ETC.			
FIGURE 4A	CLAY ELECTRIC C KEYSTONE HEI	OOPERATIVE, INC. GHTS, FLORIDA	STANDARDS FOR ELECTRIC SERVICE















METER SC AND INST	CKETS WILL BE FURNISHED		
3/8" OR EQUAL GALV. FOR MOUNTING CHANNE AND METER SOCKETS	BOLTS	– 2" (EQU METE	GALV. STEEL CHANNEL OR VALENT FOR MOUNTING ER SOCKETS
MAIN SERVICE FUSED DISCO OR CIRCUIT BREAKER (OUTE SIZED ACCORDING TO THE I ELECTRICAL CODE.	NNECT DOOR TYPE) NATIONAL		_
2" GALV. STEEL CHANN EQUIVALENT FOR MOUN SERVICE DISCONNECTS			
			Flush with Finished grade or below.
	3' MIN.		
30" to 42" REQUIRED		4" CONDUIT (MINIMUM) See Note 4.	2 - 5/8" X 8' GROUND RODS
MIN. 24" RADIUS 90° SWEEP			
(Gray Sch. 40)			
INSERT NOTES SIDE VIEW 1. MEMBER TO PROVIDE COL	NTINUOUS CONDUIT FROM CEC	ACILITY TO METER COMPLETE V	NITH SWEEPS. CONSULT CEC
 ONE 5/8" X 8' GROUND ROD MAY BE USED IF THE MEASURED RESISTANCE TO GROUND IS 25 OHMS OR LESS. THE UPPER END OF THE GROUNDING ROD SHALL BE FLUSH WITH OR BELOW FINISHED GRADE UNLESS THE ABOVE GROUND END AND THE GROUNDING ROD CONDUCTOR ATTACHMENT ARE PROTECTED AGAINST PHYSICAL DAMAGE PER NEC. 			
 3.1. MEMBER SHALL ADHERE TO COUNTY CODE REQUIREMENTS IN CONJUNCTION WITH THE NEC. 4. METER SOCKETS AND ALL OTHER MATERIAL TO BE FURNISHED AND INSTALLED BY MEMBER IN ACCORDANCE WITH NATIONAL ELECTRIC CODE 			
 5. POST TO BE CONSTRUCTE BELOW GROUND LEVEL. 6. FOR A TWO (2) UNIT SERV 	D OF REINFORCED CONCRETE 5">	(5" OR 2" GALV. STEEL PIPE WIT	H 2" CONCRETE ENCASEMENT
12/20/17	Rev. 10/15/2020	Esfig 7	2020.dwg
MOBILE HOME PARK SERVICE			
Figure 7	CLAY ELECTRIC C KEYSTONE HEI	OOPERATIVE, INC. GHTS, FLORIDA	STANDARDS FOR ELECTRIC SERVICE



FIGURE	7A
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KEYSTONE HEIGHTS, FLORIDA

ELECTRIC SERVICE















2. MAIN DISCONNECTS ARE TO BE LOCKED BY COOPERATIVE.

09/30/92	Rev. 10/20/20	Esfig12 2020.dwg
I	Multi-unit M	leter Center
FIGURE 12	CLAY ELECTRIC C KEYSTONE HEI	COOPERATIVE, INC. STANDARDS FOR GHTS, FLORIDA ELECTRIC SERVICE
































- 1. An average footcandle value of 2.3 is anticipated within the Traffic Conflict Area shown for Arrangement "A"; average footcandle value of 5.0 is anticipated for Arrangement "B". Note traffic volume for each lighting arrangement.
- 2. Required permitting will need to be granted from the appropriate roadway agency prior to installing lighting within the public roadway. The CEC Public Roadway Lighting Services Utility Permit Attachment "A" shall be attached to the permit applications.
- 3. *Horizontal Clearances listed above are for Rural roadways (flush shoulders). For Urban roadways (curb and gutter), the minimum setback shall be four (4') feet from back of face of curb.

04/08/05	Rev. 10/21/20	Esfig25 2020.dwg		
GUIDELINE FOR LIGHTING INTERSECTION OF TWO PUBLIC ROADS				
FIGURE 25	CLAY ELECTRIC C KEYSTONE HEI	OOPERATIVE, INC. STANDARDS FOR GHTS, FLORIDA ELECTRIC SERVICE		



- 2. For bus stops, the lighting pole shall be installed approximately ten (10') feet beyond the point in front of the bus when loading and unloading.
- 3. An average foot-candle value of 2.4 is anticipated within the forty (40') feet long "traffic conflict area" on a 24' wide two-lane roadway.
- 4. Permitting will need to be granted from the "local" roadway agency prior to installing lighting within the public roadway. The CEC Public Roadway Lighting Services Utility Permit Attachment "A" shall be attached to the permit application.

04/08/05	Rev. 10/21/20	Esfig26 2020.dwg
GUIDELINE FOR LIGHTING AT BUS STOPS & CROSSWALKS		
FIGURE 26	CLAY ELECTRIC C KEYSTONE HEI	COOPERATIVE, INC. STANDARDS FOR GHTS, FLORIDA ELECTRIC SERVICE

CLAY ELECTRIC COOPERATIVE, INC. DISCLAIMER AND HOLD HARMLESS AGREEMENT FOR THE INSTALLATION OF ELECTRIC FACILITIES

The undersigned Consumer has requested that Clay Electric Cooperative, Inc. (Clay) install an electric meter at the Consumer's premises for the purpose of providing electric service to Consumer's

Description of Consumer's Property/Building

Consumer acknowledges that Florida Statute §553.73(10)(c) exempts nonresidential farm buildings from the Florida Building Code and has advised Clay that inspection of the electric wiring is not required by the local county government.

The following definitions apply to this disclaimer:

Consumer's Facilities means all wiring and other related electric facilities that exist between Clay's meter and all parts of the Consumer's building or other exempt agricultural applications.

Clay means Clay Electric Cooperative, Inc., an electric utility.

Consumer means the property owner or other proper applicant requesting electric service from Clay who has signed this form.

By signing below, I acknowledge that Clay will be installing or has installed an electric meter at my request to provide electric service to Consumer's Facilities. I acknowledge that Clay is responsible only for the electric meter and that Consumer's Facilities are entirely my responsibility.

By signing below, I acknowledge that Clay has not inspected Consumer's Facilities nor has Clay rendered any opinion whatsoever on Consumer's Facilities. I understand that Clay recommends that I have these facilities inspected even though these facilities are exempted from inspection requirements. I further acknowledge that Clay disclaims any liability or responsibility for anything that has been or will be done in relation to Consumer's Facilities.

By signing below, I agree to defend, indemnify, and hold harmless Clay from any liability, loss, damage, injury, claim, and attorney's fees incurred by Clay or asserted against Clay relating to any such liability to persons or property caused by Consumer's Facilities. I waive and release Clay from any claim I may have related to any loss caused to me by Consumer's Facilities. I further agree that I am responsible for any injury or damage caused to Clay, its facilities, or its agents by Consumer's Facilities.

In witness whereof, this agreement is execu ,20	ted by Consumer this day of
Signature of Consumer	Signature of Witness
Print Name:	Print Name:
Address:	Address:
Phone Number:	Phone Number:
Company:	
Title:	