| | |
|---|---|
| Issue: | Resolution #2022-057 – Contract for Electric System Labor |
| Date: | 05.15.2022 |
| Submitted By: | Doug Colvin<br>Assistant City Administrator – Director, Nixa Utilities and Public Works |

## Background

This agreement sets pricing for labor by a contractor on a per item basis for work that may be requested throughout the year. This is for labor only. Any related materials are to be supplied by the City.

Passage of the Resolution authorizes the City Administrator to execute the agreement for the period through 2024. It also includes an option for a three, one-year renewals.

## Analysis

For many years, the City has contracted with an electric line construction company to complete certain construction activities to assist with the operations and maintenance of the electric distribution system. Typically, these activities are utilized when we don't have enough of the proper equipment or the number of personnel to complete a job in an efficient manner without taking long planned outages.

Staff solicited for bids for 246 potential standardized tasks to allow for any combination of work to be completed. These include things such as setting a pole or installing cutouts or switches. Total funds expended are limited to budget authorization.

As sometimes occurs, we had only one proposal submitted even though we sent a direct request to a number of qualified firms in addition to the normal advertising routine set forth in our purchasing policy. Fortunately for us, that lone response was from BBC Electrical Services, LLC which is the same firm we have used very successfully over the past several years. Prices submitted for the 246 potential tasks items are in line with previous years and local industry ranges based on references and research by staff and our consulting engineer, Toth and Associates.

## Recommendation

Staff recommends passage of Resolution 2022-059

**RESOLUTION NO. 2022-057**

**A RESOLUTION OF THE COUNCIL OF THE CITY OF NIXA AUTHORIZING THE CITY ADMINISTRATOR TO EXECUTE A CONTRACT WITH BBC ELECTRICAL SERVICES, LLC. FOR CONSTRUCTION SERVICES RELATED TO THE ELECTRIC SYSTEM.**

_____

**WHEREAS** City staff have solicited proposals for certain construction services related to the electric transmission system; and

**WHEREAS** City Council desires to authorize the execution of the Contract, attached hereto as "Resolution Exhibit A," for the purpose described therein.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF NIXA, AS FOLLOWS, THAT:**

**SECTION 1:** The City Administrator, or designee, is hereby authorized to execute the Contract attached hereto, and incorporated herein by this reference, as "Resolution Exhibit A," with BBC Electrical Services, LLC. Said Contract shall be in substantially similar form as the document attached hereto as "Resolution Exhibit A."

**SECTION 2:** The City Administrator and the officers of the City are hereby authorized to do all things necessary or convenient to carry out the terms and intent of this Resolution.

**SECTION 3:** This Resolution shall be in full force and effect from and after its final passage by the City Council and after its approval by the Mayor, subject to the provisions of section 3.11(g) of the City Charter.

**ADOPTED BY THE CITY COUNCIL THIS 23rd DAY OF MAY 2022.**

ATTEST:

_____ _____

CITY CLERK PRESIDING OFFICER

**APPROVED BY THE MAYOR.**

ATTEST:

_____ _____

CITY CLERK MAYOR

APPROVED AS TO FORM: _____

DATE OF APPROVAL

_____

CITY ATTORNEY

Resolution Exhibit A

# CITY OF NIXA, MISSOURI
## Nixa, Missouri

**Electric Distribution Construction Contract**
**(Labor Only)**

## 2022 LABOR CONTRACT FOR POWER LINE PROJECTS

## MONX-2022-01L

**May 2022**

**FOR APPROVAL**

Contractor: _____

_____

_____

Contract Date: _____


TOTH & ASSOCIATES

Phone:
417-888-0645

1550 E. Republic Road
Springfield, MO 65804

Fax:
417-888-0657

A. Notice and Instructions to Bidders



B. Proposal

Article I - General

# INDEX

B. Contractor's Proposal *(continued)*

Article II - Construction



Article III - Payments and Release of Liens



Article IV - Particular Undertakings of the Bidder



Article V - Remedies



Article VI - Miscellaneous

# INDEX

Exhibits:

# ELECTRIC SYSTEM CONSTRUCTION CONTRACT
## (Labor Only)

### Check List for Pages to be Completed

Engineer - Prior to Release for Bids completes:

| *Page/s* | |
|---|---|
| 1 | paragraphs 1, 3 |
| 3 | paragraphs 17d, 17f |
| 4 | top of page |
| 4 | Article I, Section 5 |
| 5 | Article I, Section 7 |
| 6 | Article II, Section 1a |
| 9 | Article III, Section 1c, 1d |
| 11 | Article IV, Section 1f |
| 14 | Article V, Section 2 |
| 18 | Article VI, Section 11 |
| 19 | Project Name, Sections, Owner |
| Exhibit A | Construction Units |
| Exhibit B | Supplemental Terms and Conditions |
| Exhibit C | Specifications for Construction |
| ~~Exhibit D~~ | ~~Construction Drawings~~ |

Bidder - Prior to Submitting Bid completes:

| | |
|---|---|
| 5 | Article I, Section 7 (if required) |
| 15 | Article VI, Section 6a |
| 18 | Article VI, Section 11 - Signature, Address & Date / also seal, if corporation |
| Exhibit A | Construction Units |

Owner - On Acceptance completes:

| | |
|---|---|
| - - | Board/Council resolution/ordinance - *4 executed copies* |
| 19 | Acceptance, Signature & Date - *4 executed copies* |

Bidder - Upon Notification of Acceptance obtains:

| | |
|---|---|
| 12 | Certificate of Insurance |
| 18 | Signature, Address & Date / also seal, if corporation - *4 executed copies* |

# ELECTRIC SYSTEM CONSTRUCTION CONTRACT
# PROJECT CONSTRUCTION

## NOTICE AND INSTRUCTIONS TO BIDDERS

1. **Sealed proposals** for *the construction, including the supply of necessary labor of an electric project of,*

City of Nixa, Missouri,

*(hereinafter called the "Owner") will be received by the Owner on or*

*before* 10:00 *o'clock* A. *M.,* April 28 CDT , *20* 22 , *at its office at,*
Nixa City Hall, 715 W. Mt. Vernon St., Nixa, MO 65714 ~~*at which time and place the proposals will be publicly opened and read. Any proposals received subsequent to the time specified will be promptly returned to the Bidder unopened.*~~

2. **Owner Furnished Materials.** *The unit prices in the proposal are to include provisions for transportation, handling, installing and returning Owner Furnished Materials as required. All material will be furnished by the Owner.*

* 3. **Obtaining Documents.** *The Plans, Specifications and Construction Drawings, together with all necessary forms and other documents for bidders may be obtained from the Owner, or from the Engineer*
Toth & Assoc, Inc. *at the latter's office at* 1550 E. Republic Road Springfield, MO 65804.

*The Plans, Specifications, and Construction Drawings may be examined at the office of the Owner or at the office of the Engineer.*

4. **Manner of Submitting Proposals.** *Proposals and all supporting instruments must be submitted on the forms furnished by the Owner and must be delivered in a sealed envelope addressed to the Owner. The name and address of the Bidder, its license number if a license is required by the State, and the date and hour of the opening of bids must appear on the envelope in which the Proposal is submitted. Proposals must be completed in ink or typewritten. No alterations or interlineations will be permitted, unless made before submission, and initialed and dated. The successful Bidder will be required to execute four additional counterparts of the Proposal.*

5. **Due Diligence.** *Prior to the submission of the Proposal, the Bidder shall make and shall be deemed to have made a careful examination of the site of the project and of the Plans, Specifications and forms of Contractor's Proposal and Contractor's Bond, and shall review the location and nature of the proposed construction, the transportation facilities, the kind and character of soil and terrain to be encountered, the kind of facilities required before and during the construction of the project, general local conditions, environmental and historic preservation considerations, and all other matters that may affect the cost and time of completion of the project. Bidder will be required to comply with all federal, state, and local laws, rules, and regulations applicable to its performance, including those pertaining to the licensing of contractors, and the Anti Kick-Back Act of 1986 (41 U.S.C. 51 et seq).*

6. **Proposals** *will be accepted only from those prequalified bidders invited by the Owner to submit a proposal.*

*** The initial documents provided to the Bidder will not include project plans. The construction plans (staking sheets) will be provided to the contractor in advance of construction on a project-by-project basis.**

7. **The Time for Completion of Construction** *of the project is of the essence of the Contract and shall be as specified by the Engineer in the Proposal.*

8. **Bid Bond.** ~~*Each Proposal must be accompanied by a Bid Bond in the form attached hereto or a certified check on a bank that is a member of the Federal Deposit Insurance Corporation, payable to the order of the Owner, in an amount equal to ten percent (10%) of the maximum bid price. Each Bidder agrees, provided its Proposal is one of the three low Proposals, that, by filing its Proposal together with such Bid Bond or check in consideration of the Owner's receiving and considering such Proposals, said Proposal shall be firm and binding upon each such Bidder and such Bid Bond or check shall be held by the Owner until a Proposal is accepted and a satisfactory Contractor's Bond is furnished (where required) by the successful Bidder, or for a period not to exceed sixty (60) days from the date hereinbefore set for the opening of Proposals, whichever period shall be the shorter. If such Proposal is not one of the three low Proposals, the Bid Bond or check will be returned in each instance within a period of ten (10) days to the Bidder furnishing same.*~~

9. **Contractor's Bond.** ~~*For a Contract in excess of $100,000, the Bidder agrees to furnish a Contractor's Bond in triplicate in the form attached hereto with sureties listed by the United States Treasury Department as Acceptable Sureties, in a penal sum not less than the contract price.*~~

10. **Failure to Furnish Contractor's Bond.** ~~*Should the successful Bidder fail or refuse to execute such counterparts or to furnish a Contractor's Bond (where required) within ten (10) days after written notification of the acceptance of the Proposal by the Owner, the Bidder will be considered to have abandoned the Proposal. In such event, the Owner shall be entitled (a) to enforce the Bid Bond in accordance with its terms, or (b) if a certified check has been delivered with the Proposal, to retain from the proceeds of the certified check, the difference (not exceeding the amount of the certified check) between the amount of the Proposal and such larger amount for which the Owner may in good faith contract with another party to construct the project. The term "Successful Bidder" shall be deemed to include any Bidder whose Proposal is accepted after another Bidder has previously refused or has been unable to execute the counterparts or to furnish a satisfactory Contractor's Bond (where required.)*~~

11. **Debarment Certification.** *The Bidder must provide to the Owner a suspension and debarment certificate in the form attached hereto.*

12. **Contract is Entire Agreement.** *The Contract to be effected by the acceptance of the Proposal shall be deemed to include the entire agreement between the parties thereto, and the Bidder shall not claim any modifications thereof resulting from any representation or promise made at any time by any officer, agent or employee of the Owner or by any other person.*

13. **Minor Irregularities.** *The Owner reserves the right to waive minor irregularities or minor errors in any Proposal, if it appears to the Owner that such irregularities or errors were made through inadvertence. Any such irregularities or errors so waived must be corrected on the Proposal in which they occur prior to the acceptance thereof by the Owner.*

14. **Bid Rejection.** *The Owner reserves the right to reject any or all Proposals.*

15. **Discrepancy in Unit Prices.** *Where the unit prices in the Contractor's Proposal are separated into three columns designated as "NO. OF UNITS", "UNIT PRICE", "EXTENDED PRICE" and where a discrepancy appears between the quantities in the "No. of Units" column multiplied by the "Unit Price", the correct multiplication shall control the amounts appearing in the "Extended Price" column. Likewise, the correct extensions shall control the amounts appearing in the "Total, Part_____ " line for each respective part.*

16. **Definition of Terms.** *The terms " Engineer," "Completion of Construction," and "Completion of the Project" as used throughout this Contract shall be as defined in Article VI Section 1, of the Proposal.*

**17. The Owner Represents:**

a. *If by provisions of the Proposal the Owner shall have undertaken to furnish any materials for the construction of the project, such materials are on hand at locations specified or if such materials are not on hand they will be made available by the Owner to the successful Bidder at the locations specified before the time such materials are required for construction, except that the Owner does not guarantee delivery of material in any particular sequence. It shall be the Contractors responsibility to schedule crews and equipment according to the availability of materials. Any additional costs incurred by the Bidder due to premature commitment of crew and equipment shall be borne by the Bidder.*

b. *All titles, easements and rights-of-way have been obtained from the owners of the properties on which the project is to be constructed (including tenants who may reasonably be expected to object to such construction).*

c. *All staking has been completed and sufficient staking crews will be available to maintain stakes at all times in advance of construction.*

d. *Notwithstanding such permission granted to the Owner, each Bidder is responsible for ascertaining that the equipment, methods of construction, and repair proposed to be used on the project will meet all requirements of public authorities having jurisdiction over highway and road right-of-way. The successful Bidder will be required to furnish proof satisfactory to the Owner of compliance with this requirement. If required by highway or road authorities, the successful Bidder will furnish to such authorities a bond or meet other guaranty requirements to assure the prompt repair of all damages to highways and roads and their associated rights-of-way caused by the Bidder during construction of the project. The acceptance of a bid from any Bidder is not to be construed as approval of the Bidder's equipment or proposed construction methods by or on behalf of the highway and road authorities.* The Owner shall reimburse the bidder for all costs associated with the repair(s) upon receipt of: (1) Copies of all third-party invoices for labor, materials or services rendered, totaling the cost of reimbursement as requested and (2) Proof of acceptance by an authorized representative of the applicable jurisdiction. Reasonable and customary direct or administrative labor costs incurred solely by the Bidder shall be subject to reimbursement upon receipt of a line-item invoice to the Owner with hourly rates not exceeding those as submitted in this this contract. (Part L.). *Bidders may obtain information concerning the requirements of highway and road authorities by communicating with the following:*

Missouri Department of Transportation & Christian County Highway Department

e. *All funds necessary for prompt payment for the construction of the project will be available.*

f. *The Bidder will obtain and the Owner will pay for crossing permits for highways, railroads, power lines, communication lines and other utilities as required; however, the Bidder will make arrangements with the Owners of these facilities regarding rules, regulations and permissible times for making the crossings and be responsible for the costs associated therewith.*

*If the Owner shall fail to comply with any of the undertakings contained in the foregoing representation or if any of such representations shall be incorrect, the Bidder will be entitled to an extension of time of completion for a period equal to the delay, if any, caused by the failure of the Owner to comply with such undertakings or by any such incorrect representation; provided the Bidder shall have promptly notified the Owner in writing of its desire to extend the time of completion in accordance with the foregoing; provided, however, that such extension, if any, of the time of completion shall be the sole remedy of the Bidder for the Owner's failure, because of conditions beyond the control and without the fault of the Owner, to furnish materials in accordance with subparagraph a. above.*

City of Nixa, Missouri
*Owner*

*By* Jeffrey M. Mueller
Toth & Associates, Inc.
P.E.
*Title*

April 5, *20* 22

# PROPOSAL

*TO:*
**City of Nixa, Missouri**

**715 W. Mt. Vernon Street / Nixa, Missouri 65714** *(hereinafter called the "Owner").*

## ARTICLE I—GENERAL

**Section 1. Offer to Construct.** *The undersigned (hereinafter called the "Bidder') hereby proposes to receive and install such materials and equipment as may hereinafter be specified to be furnished by the Owner, and to furnish all machinery, tools, labor, transportation and other means required to construct the project in strict accordance with the Plans, Specifications and Construction Drawings (available upon request) for the prices hereinafter stated.*

*The total length of the project lines shall be determined by taking the sum of all straight horizontal span distances between pole stakes or from center to center of poles, or centerline of structures, carrying conductors, plus the length of service drops, if any, measured horizontally from center of last pole to the point of attachment to the consumer's building.*

**Section 2. Materials and Equipment**. *The Owner will provide all materials for this contract on a project-by-project basis, with the exception of the following items: (1) High Density Polyethylene (HDPE) conduit. This item shall be furnished by the Bidder when required. Cost associated with furnishing said conduit shall be included in the unit prices where listed in this proposal. (2) Rock Backfill for Poles. Cost associated with this item shall be included in the unit price for "Rock Back-Fill Adder" (3) Rock Backfill for Vaults. Cost associated with this item shall be included in the Vault unit prices included in this proposal. (4) Rock Backfill for conduit embedment. Cost associated with this item shall be included in the unit prices for conduits included in this proposal. The financial responsibility for replacement of damaged materials after delivery will be borne by the Bidder*

**Section 3. Owner Furnished Materials.** *The Bidder understands and agrees that, if this Proposal is accepted, the Owner will furnish to the Bidder all new material with the exception of the items as outlined above in Section 2. For those items not yet delivered, the Bidder will, on behalf of the Owner, accept delivery of such of the materials as may be subsequently delivered and will promptly forward to the Owner for payment the supplier's invoice. The Bidder will acknowledge in writing the receipt of all materials received. The Bidder will use such materials in constructing the project.*

*Materials, if any, not required for the project, which have been furnished to the Bidder by the Owner or delivery of which has been accepted by the Bidder on behalf of the Owner, shall be returned to the Owner by the Bidder upon completion of construction of the project.*

**Section 4. Proposal on Unit Basis.** *The Bidder understands and agrees that the various Construction Units on which bids are made are defined by symbols and descriptions in this Proposal, that all said bids are on a unit basis, and that the Owner may specify any number or combination of Construction Units that the Owner may deem necessary for the construction of the project. Separate Construction Units are designated for each different arrangement which maybe used in the construction of the project. This Proposal is based on a consideration of each unit in place and includes only the materials listed on the corresponding Construction Drawings (available upon request) or description of unit where no drawing exists.*

**Section 5. Description of Contract.** *The Notice and Instructions to Bidders, which by this reference are incorporated herein, together with the Proposal and Acceptance constitute the Contract and are attached hereto and identified as follows:*

| | |
|---|---|
| Exhibit A | Distribution Construction Assembly Units-Line Changes |
| Exhibit B | Supplemental Terms and Conditions |
| Exhibit C | Specifications for Construction |

*The Plans, Specifications, and Construction Drawings (available upon request), including maps, special drawings, and approved modifications in standard specifications are issued on a project-by-project basis. The vast majority of the Construction Drawings are the same or with only slight modifications as shown in USDA Rural Utility Services (RUS) Bulletin 1728F-804 (Overhead) and 1728F-806 (Underground) and are available upon request.*

**Section 6.** **Due Diligence.** *The Bidder has made a careful examination of the site of the project to be constructed and of the Plans, Specifications, Construction Drawings (available upon request), and form of Contractor's Bond attached hereto, and has become informed as to the location and nature of the proposed construction, the transportation facilities, the kind and character of soil and terrain to be encountered, and the kind of facilities required before and during the construction of the project, and has become acquainted with the labor conditions, federal, state, and local laws, rules, and regulations applicable to its performance.*

**Section 7.** **License.** *The Bidder warrants that a Contractor's License is _____, is not __X__ required, and if required,*

*it possesses Contractor's License No. _____ for the State of_____*

*in which the project is located and said license expires on _____, 20 _____*

**Section 8.** **Warranty of Good Faith.** *The Bidder warrants that this Proposal is made in good faith and without collusion or connection with any person or persons bidding for the same work.*

**Section 9.** **Financial Resources.**

a. *The Bidder warrants that it has or will obtain the financial resources necessary to ensure completion of the project.*

b. *The Bidder agrees that in the event this Proposal is accepted and a Contractor's Bond is required, it will furnish a Contractor's Bond in the form attached hereto, in a penal sum not less than the maximum Contract price, with a surety or sureties listed by the United States Department of Treasury as Acceptable Sureties.*

**Section 10.** **Taxes.** *The unit prices for Construction Units in this Proposal include provisions for the payment of all monies which will be payable by the Bidder or the Owner in connection with the construction of the project on account of taxes imposed by any taxing authority upon the sale, purchase or use of materials, supplies and equipment, or services or labor of installation thereof to be incorporated in the project as part of such Construction Units. The Bidder agrees to pay all such taxes, except taxes upon the sale, purchase or use of Owner Furnished Materials. The Bidder will furnish to the appropriate taxing authorities all required information and reports pertaining to the project.*

**Section 11.** **Changes in Quantities.** *The Bidder will not be given specific construction quantities for the bid process. The Owner will provide construction specifications with quantities specified on a project-by-project basis at the time of construction. The exact quantity of units constructed and removed will be based upon a monthly inspection of "AS BUILT Construction" and "AS BUILT Removal" units. The construction and removal unit tabulation for monthly invoices may be provided by the Bidder, the Owner, or the Engineer.*

## ARTICLE II-CONSTRUCTION

**Section 1. Time and Manner of Construction.**

a. *The Commencement Date and the number of calendar days allowed for construction will be established on a project-by-project basis in accordance with the following:*
*TERM:*
*The term of this contract shall expire on 12/31/2024. The City may, at its sole option, extend the contract for up to three (3) additional one-year terms upon written notice to the Contractor.*
*ESCALATION/DE-ESCALATION:*
*Bid prices shall remain firm throughout the initial term which expires on 12/31/2024. The contract prices may be changed for subsequent terms, if any, for the following reasons:*
*An increase or decrease in the Bidder's cost of labor may be justification for price change. All written requests for price increase must include backup documentation as to the nature of the increase and shall be submitted to the City at least 60 days prior to the scheduled price increase/decrease or renewal of contract. Approval of each request shall be by written confirmation from the City. If the City should consider said increase unwarranted or unreasonable, the City reserves the right to terminate the contract with the Bidder.*

**Section 2. Environmental Protection.** *The Bidder shall perform the work in compliance with all applicable Federal, State, and local Environmental Laws. For purposes of this Agreement, the term "Environmental Laws" shall mean all Federal, state, and local laws including statutes, regulations ordinances, codes, rules, and other governmental restriction and requirements relating to the environment or solid waste, hazardous substances, hazardous waste, toxic or hazardous material, pollutants or contaminants including, but not limited to the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, 42 U.S.C. §§ 9601, et seq., the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§ 1251, et seq., and the Solid Waste Disposal Act, as amended, 42 U.S.C. §§ 6901, et seq., now or at any time hereafter in effect.*

**Section 3. Tools, Equipment, and Qualified Personnel.** *The Bidder agrees that in the event this Proposal is accepted it will make available for use in connection with the proposed construction all necessary tools and equipment and qualified supervisors and workers.*

**Section 4. Changes in Construction.** *The Bidder agrees to make such changes in construction previously installed in the project by the Bidder as required by the Owner for prices arrived at as follows:*

a. *For units where only a portion of the complete unit is affected by the change, the compensation for such change shall be as agreed upon in writing by the Bidder and the Owner prior to the commencement of work in connection with such change.*

b. *For all other units, the compensation for such change shall be the reasonable cost thereof as agreed upon by the Bidder and the Owner, but in no event shall it exceed two (2) times the labor price quoted in the Proposal for the installation of the unit to be changed. Such compensation shall be in lieu of any other payment for the installation and removal of the original unit. (If a new or replacing unit is installed, payment for such new or replacing unit shall be made as shown in the final inventory.)*

*No payment shall be made to the Bidder for materials or labor involved in correcting errors or omissions on the part of the Bidder which result in construction not in accordance with the Plans and Specifications.*

**Section 5. Construction Not in Proposal.** *The Bidder also agrees that when it is necessary to construct units not shown in the Proposal, in absence of other mutual agreement, it will construct such units for a price arrived at as follows:*

*a. The cost of labor shall be the reasonable cost thereof based on the cost of similar units in the proposal.*

*b. The cost of labor performed not meeting the cost of a similar unit(s) in this proposal, shall be performed and subject to, the hourly labor and equipment schedule as submitted in this contract. (See Part L.).*

**Section 6. Supervision and Inspection.**

*a. The Bidder shall give sufficient supervision to the work, using its best skill and attention. The Bidder will carefully study and compare all drawings (available upon request), specifications and other instructions and will at once report to the Owner any error, inconsistency or omission which it may discover. The Bidder shall cause the construction work on the project to receive constant supervision by a competent superintendent (hereinafter called the 'Superintendent") who shall be present at all times during working hours where construction is being carried on. The Bidder shall also employ, in connection with the construction of the project, capable, experienced and reliable supervisors and such skilled workers as may be required for the various classes of work to be performed. The Bidder shall be solely responsible for the means and methods of construction and for the supervision of the Bidder's employees.*

*b. The Owner reserves the right to require the removal from the project of any employee of the Bidder if in the judgment of the Owner such removal shall be necessary in order to protect the interest of the Owner. The Owner shall have the right to require the Bidder to increase the number of its employees and to increase or change the amount or kind of tools and equipment if at any time the progress of the work shall be unsatisfactory to the Owner; but the failure of the Owner to give any such directions shall not relieve the Bidder of its obligations to complete the work within the time and in the manner specified in this Proposal.*

*c. The construction of the project and all materials and equipment used therein, shall be subject to the inspection, tests, and acceptance by the Owner. All Bidder procedures and records pertaining to the work shall be made available to the Owner for review prior to such inspections and tests. The Bidder shall provide all reasonable facilities necessary for such inspection and tests. The Bidder shall have an authorized agent accompany the Owner/Engineer when final inspection is made and, if requested by the Owner, when any other inspection is made. The performance of such inspections or tests by the Owner shall not relieve the Bidder of its obligations to perform the work in accordance with the requirements of this Contract.*

*d. In the event that the Owner shall determine that the construction contains or may contain numerous defects, it shall be the duty of the Bidder and the Bidder's Surety or Sureties, if any, to have an inspection made by an engineer approved by the Owner for the purpose of determining the exact nature, extent and location of such defects.*

*e. The Owner may suspend the work wholly or in part for such period or periods as the Owner may deem necessary due to unsuitable weather or such other conditions as are considered unfavorable for satisfactory prosecution of the work or because of the failure of the Bidder to comply with any of the provisions of the Contract: Provided, however, that the Bidder shall not suspend work pursuant to this provision without written authority from the Owner so to do. The time of completion hereinabove set forth shall be increased by the number of days of any such suspension, except when such suspension is due to the failure of the Bidder to comply with any of the provisions of this Contract. In the event that work is suspended by the Bidder with the consent of the Owner, the Bidder before resuming work shall give the Owner at least twenty-four (24) hours notice thereof in writing.*

**Section 7. Defective Materials and Workmanship.**

a. *The acceptance of any materials, equipment or any workmanship by the Owner or the Engineer shall not preclude the subsequent rejection thereof if such materials, equipment, or workmanship shall be found to be defective after delivery or installation, and any such materials, equipment or workmanship found defective before final acceptance of the construction shall be replaced or remedied, as the case may be, by and at the expense of the Bidder. Any such condemned material or equipment shall be immediately removed from the site of the project by the Bidder at the Bidder's expense. The Bidder shall not be entitled to any payment hereunder so long as any defective materials, equipment or workmanship in respect to the project, of which the Bidder shall have had notice, shall not have been replaced or remedied, as the case may be. This only applies to defective materials, equipment and workmanship caused by the Bidder.*

b. *Notwithstanding any certificate which may have been given by the Owner or the Engineer, if any materials, equipment or any workmanship which does not comply with the requirements of this Contract shall be discovered within one (1) year after Completion of Construction of the project, the Bidder shall replace such defective materials or equipment or remedy any such defective workmanship within thirty (30) days after notice in writing of the existence thereof shall have been given by the Owner. If any such defective materials, equipment, or workmanship so replaced or repaired is found to be defective within one year after the completion of the replacement or repair the Bidder shall replace or remedy such defective materials, equipment, or workmanship. If the Bidder shall be called upon to replace any defective materials or equipment or to remedy defective workmanship as herein provided, the Owner, if so requested by the Bidder shall deenergize that section of the project involved in such work. In the event of failure by the Bidder so to do, the Owner may replace such defective materials or equipment or remedy such defective workmanship, as the case may be, and in such event the Bidder shall pay to the Owner the cost and expense thereof. This only applies to defective materials, equipment and workmanship caused by the Bidder.*

***ARTICLE III--PAYMENTS AND RELEASE OF LIENS***

***Section 1. Payments to Bidder.***

*a. On or before the fifth (5) day of each calendar month, the Bidder will make application for payment, and the Owner, on or before the fifteenth (15) day of such month, shall make partial payment to the Bidder for construction accomplished during the preceding calendar month on the basis of completed Construction Units furnished and certified to by the Bidder, verified by the Engineer and approved by the Owner solely for the purposes of payment: Provided, however, that such approval shall not be deemed approval of the workmanship or materials. Only ninety percent (90%) of each such estimate approved during the construction of the project shall be paid by the Owner to the Bidder prior to Completion of the project. Upon completion by the Bidder of the construction of the project, the Engineer will prepare an inventory of the project showing the total number and character of Construction Units and, after checking such inventory with the Bidder, will certify it to the Owner. Upon the approval by the Owner of a Certificate of Completion in the form attached hereto, showing the total cost of the construction performed, the Owner shall make payment to the Bidder of all amounts to which the Bidder shall be entitled thereunder which shall not have been paid: Provided, however, that such final payment shall be made not later than ninety (90) days after the date of Completion of Construction of the project, as specified in the Certificate of Completion, unless withheld because of the fault of the Bidder.*

*b. The Bidder shall be paid on the basis of the number of Construction Units actually installed at the direction of the Owner shown by the inventory based on the staking sheets or structure lists.*

*c. Interest at the rate of* three+1/2 *percent (* 3.50 *%) per annum shall be paid by the Owner to the Bidder on all unpaid balances due on monthly estimates, commencing fifteen (15) days after the due date; provided the delay in payment beyond the due date is not caused by any condition within the control of the Bidder. The due date for purposes of such monthly payment or interest on all unpaid balances shall be the fifteenth (15) day of each calendar month provided (1) the Bidder on or before the fifth (5) day of such month shall have submitted its certification of Construction Units completed during the preceding month and (2) the Owner on or before the fifteenth (15) day of such month shall have approved such certification. If, for reasons not due to the Bidder's fault, such approval shall not have been given on or before the fifteenth (15) day of such month, the due date for purposes of this subsection c shall be the fifteenth (15) day of such month notwithstanding the absence of the approval of the certification.*

*d. Interest at the rate of* three+1/2 *percent (* 3.50 *%) per annum shall be paid by the Owner to the Bidder on the final payment for the project or any completed Section thereof commencing fifteen (15) days after the due date. The due date for purposes of such final payment or interest on all unpaid balances shall be the date of approval by the Owner of all of the documents requiring such approval, as a condition precedent to the making of final payment, or ninety (90) days after the date of Completion of Construction of the project, as specified in the Certificate of Completion, whichever date is earlier.*

e. *No payment shall be due while the Bidder is in default in respect of any of the provisions of this Contract and the Owner may withhold from the Bidder the amount of any claim by a third party against either the Bidder or the Owner based upon an alleged failure of the Bidder to perform the work hereunder in accordance with the provisions of this Contract.*

f. *The Owner shall have the right to inspect all payrolls and other data and records of the Bidder and of any subcontractor, relevant to the construction of the project.*

**Section 2. Release of Liens and Certificate of Contractor.** *Upon the completion by the Bidder of the construction of the project but prior to final payment to the Bidder, the Bidder shall deliver to the Owner, in duplicate, releases of all liens and of rights to claim any lien, in the form attached hereto from all subcontractors furnishing services for the project and a certificate in the form attached hereto to the effect that all labor used on or for the project has been paid and that all such releases have been submitted to the Owner.*

**Section 3. Payments to Subcontractors.** *The Bidder shall pay each subcontractor, if any, within five (5) days after receipt of any payment from the Owner, the amount thereof allowed the Bidder for and on account of construction performed by each subcontractor.*

## ARTICLE IV--PARTICULAR UNDERTAKINGS OF THE BIDDER

**Section I. Protection to Persons and Property.** *The Bidder shall at all times take all reasonable precautions for the safety of employees on the work and of the public, and shall comply with all applicable provisions of federal, state, and local laws, rules, and regulations and building and construction codes, in addition to the safety rules and procedures of the Owner.*

*The following provisions shall not limit the generality of the above requirements:*

a *The Bidder shall at no time and under no circumstances cause or permit any employee of the Bidder to perform any work upon energized lines, or upon poles carrying energized lines, unless otherwise specified in the Project Details.*

b. *The Bidder shall transport and store all material in facilities and vehicles which are designed to protect the material from damage. The Bidder shall ensure that all vehicles, trailers, and other equipment used comply with all applicable licensing, traffic, and highway requirements.*

c. *The Bidder shall so conduct the construction of the project as to cause the least possible obstruction of public highways.*

d. *The Bidder shall provide and maintain all such guard lights and other protection for the public as may be required by applicable statutes, ordinances and regulations or by local conditions.*

e. *The Bidder shall do all things necessary or expedient to properly protect any and all parallel, converging and intersecting lines, joint line poles, highways, and any and all property of others from damage, and in the event that any such parallel, converging and intersecting lines, joint line poles, highways or other property are damaged in the course of the construction of the project the Bidder shall at its own expense restore any or all of such damaged property immediately to as good a state as before such damage occurred.*

*f. Where the right-of-way of the project traverses cultivated or grazing lands, the Bidder shall limit the movement of its crews and equipment so as to cause as little damage as possible to crops, orchards or property and shall endeavor to avoid marring the lands. All fences which are necessarily opened or moved during the construction of the project shall be replaced in as good condition as they were found and precautions shall he taken to prevent the escape of livestock. Except as otherwise provided in the descriptions of underground plowing and trenching assembly units, the Bidder shall not be responsible for loss of or damage to crops, orchards or property (other than livestock) on the right-of-way necessarily incident to the construction of the project and not caused by negligence or inefficient operation of the Bidder. The Bidder shall be responsible for all other loss of or damage to crops, orchards, or property, whether on or off the right-of-way, and for all loss of or damage to livestock caused by the construction of the project.*

*The right-of-way for purposes of this said section shall consist of an area extending* 15 *feet on both sides of the center line of the poles along the route of the project lines, plus such area reasonably required by the Bidder for access to the route of the project lines from public roads to carry on construction activities.*

*g. The project, from the commencement of work to completion, or to such earlier date or dates when the Owner may take possession and control in whole or in part as hereinafter provided shall be under the charge and control of the Bidder and during such period of control by the Bidder all risks in connection with the construction of the project and the materials to be used therein shall be borne by the Bidder. The Bidder shall make good and fully repair all injuries and damages to the project or any portion thereof under the control of the Bidder by reason of any act of God or other casualty or cause whether or not the same shall have occurred by reason of the Bidder's negligence.*

*(i) To the maximum extent permitted by law, Bidder shall defend, indemnify, and hold harmless Owner and Owner's directors, officers, and employees from all claims, causes of action, losses, liabilities, and expenses (including reasonable attorney's fees) for personal loss, injury, or death to persons (including but not limited to Bidder's employees) and loss, damage to or destruction of Owner's property or the property of any other person or entity (including but not limited to Bidder's property) in any manner arising out of or connected with the Contract, or the materials or equipment supplied or services performed by Bidder, its subcontractors and suppliers of any tier. But nothing herein shall be construed as making Bidder liable for any injury, death, loss, damage, or destruction caused by the sole negligence of Owner.*

*(ii) To the maximum extent permitted by law, Bidder shall defend, indemnify, and hold harmless Owner and Owner's directors, officers, and employees from all liens and claims filed or asserted against Owner, its directors, officers, and employees, or Owner's property or facilities, for services performed or materials or equipment furnished by Bidder, its subcontractors and suppliers of any tier, and from all losses, demands, and causes of action arising out of any such lien or claim. Bidder shall promptly discharge or remove any such lien or claim by bonding, payment, or otherwise and shall notify Owner promptly when it has done so. If Bidder does not cause such lien or claim to be discharged or released by payment, bonding, or otherwise, Owner shall have the right (but shall not be obligated) to pay all sums necessary to obtain any such discharge or release and to deduct all amounts so paid from the amount due Bidder.*

*(iii) Bidder shall provide to Owner's satisfaction evidence of Bidder's ability to comply with the indemnification provisions of subparagraphs i and ii above, which evidence may include but may not be limited to a bond or liability insurance policy obtained for this purpose through a licensed surety or insurance company.*

*h. Any and all excess earth, rock, debris, underbrush and other useless materials shall be removed by the Bidder from the site of the project as rapidly as practicable as the work progresses.*

*i Upon violation by the Bidder of any of the provisions of this section, after written notice of such violation given to the Bidder by the Engineer or the Owner, the Bidder shall immediately correct such violation. Upon failure of the Bidder so to do the Owner may correct such violation at the Bidder's expense: Provided, however, that the Owner may, if it deems it necessary or advisable, correct such violation at the Bidder's expense without such prior notice to the Bidder.*

*j. The Bidder shall submit to the Owner monthly reports in duplicate of all accidents, giving such data as may be prescribed by the Owner.*

*k. The Bidder shall not proceed with the cutting of trees or clearing of right-of-way without written notification from the Owner that proper authorization has been received from the owner of the property, and the Bidder shall promptly notify the Owner whenever any landowner objects to the trimming or felling of any trees or the performance of any other work on its land in connection with the project and shall obtain the consent in writing of the Owner before proceeding in any such case.*

*l. The Bidder will furnish, prior to the commencement of underground distribution construction, proof satisfactory to the Owner, of compliance with requirements of highway and road authorities having jurisdiction, including without limitation, the furnishing of a bond or other guaranty, and approval by such authorities of the equipment and methods of construction and repair to be used by the Bidder.*

**Section 2. Insurance.** *The Bidder shall take out and maintain throughout the period of this Agreement the following types and minimum amounts of insurance:*

*a. Workers' compensation and employers' liability insurance, as required by law, covering all its employees who perform any of the obligations of the Bidder under the contract. If any employer or employee is not subject to the workers' compensation laws of the governing state, then insurance shall be obtained voluntarily to extend to the employer and employee coverage to the same extent as though the employer or employee were subject to the workers' compensation laws.*

*b. Public liability insurance covering all operations under the contract shall have limits for bodily injury or death of not less than $1 million each occurrence, limits for property damage of not less than $1 million each occurrence, and $1 million aggregate for accidents during the policy period. A single limit of $1 million of bodily injury and property damage is acceptable. This required insurance may be in a policy or policies of insurance, primary and excess including the umbrella or catastrophe form.*

*c. Automobile liability insurance on all motor vehicles used in connection with the contract, whether owned, nonowned, or hired, shall have limits for bodily injury or death of not less than $1 million per person and $1 million each occurrence, and property damage limits of $1 million for each occurrence. A single limit of $1 million of bodily injury and property damage is acceptable. This required insurance may be in a policy or policies of insurance, primary and excess including the umbrella or catastrophe form.*

*d. All subcontractors employed by the Bidder shall maintain the same minimum insurance coverage as the Bidder.*

*e. The cost of all insurance for this project shall be covered in the Bidder's proposal price.*

*f. Evidence of all insurance must be provided to the Project Engineer prior to construction Commencement Date (article II.1.a.).*

*g. Insurance shall be placed with companies with a minimum Best's rating of at least A:VII and a Standard and Poors Rating (if rated) of a least BBB.*

*The Owner shall have the right at any time to require public liability insurance and property damage liability insurance greater than those required in subsection "b" and "c" of this Section. In any such event, the additional premium or premiums payable solely as the result of such additional insurance shall be added to the Contract price.*

*The Owner and Engineer shall be named as Additional Insured on all policies of insurance required in subsections "b" and "c" of this Section.*

*The policies of insurance shall be in such form and issued by such insurer as shall be satisfactory to the Owner. The Bidder shall furnish the Owner a certificate evidencing compliance with the foregoing requirements which shall provide not less than (30) days prior written notice to the Owner of any cancellation or material change in the insurance.*

**Section 3. Delivery of Possession and Control to Owner.**

a. *Upon written request of the Owner the Bidder shall deliver to the Owner full possession and control of any portion of the project provided the Bidder shall have been paid at least ninety percent (90%) of the cost of construction of such portion. Upon such delivery of the possession and control of any portion of the project to the Owner, the risk and obligations of the Bidder as set forth in Article IV Section 1.g hereof with respect to such portion of the project so delivered to the Owner shall be terminated; Provided, however, that nothing herein contained shall relieve the Bidder of any liability with respect to defective materials and workmanship as contained in Article II, Section 7 hereof.*

b. *Where the construction of a Section as herein before defined in Article II, Section 1.c and Article III, Section 1.c shall have been completed by the Bidder, the Owner agrees, after receipt of a written request from the Bidder, to accept delivery of possession and control of such Section upon the issuance by the Engineer of a written statement that the Section has been inventoried and found acceptable by the Engineer. Upon such delivery of the possession and control of any such Section to the Owner, the risk and obligations of the Bidder as set forth in Article IV, Section 1.g hereof with respect to such Section so delivered to the Owner shall be terminated: Provided however, that nothing herein contained shall relieve the Bidder of any liability with respect to defective materials or workmanship as contained in Article II, Section 7 hereof.*

**Section 4. Energizing the Project.**

a. *Prior to Completion of the project the Owner, upon written notice to the Bidder, may test the construction thereof by temporarily energizing any portion or portions thereof. During the period of such test the portion or portions of the project so energized shall be considered as within the possession and control of the Owner and governed by the provisions of Section 3 of this Article. Upon written notice to the Bidder by the Owner of the completion of such test and upon deenergizing the lines involved therein said portion or portions of the project shall be considered as returned to the possession and control of the Bidder unless the Owner shall elect to continue possession and control in the manner provided in Section 3 of this Article.*

b. *The Owner shall have the right to energize permanently any portion or portions of the project delivered to its possession and control pursuant to the provisions of Section 3 of this Article.*

**Section 5. Assignment of Guarantees.** *All guarantees of materials and workmanship running in favor of the Bidder shall be transferred and assigned to the Owner prior to the time the Bidder receives final payment.*

## ARTICLE V--REMEDIES

**Section 1. Completion on Bidder's Default.** If *default shall be made by the Bidder or by any subcontractor in the performance of any of the terms of this Proposal, the Owner, without in any manner limiting its legal and equitable remedies in the circumstances, may serve upon the Bidder and the Surety or Sureties, if any, upon the Contractor's Bond or Bonds a written notice requiring the Bidder to cause such default to be corrected forthwith. Unless within twenty (20) days after the service of such notice upon the Bidder such default shall be corrected or arrangements for the correction thereof satisfactory to the Owner shall be made by the Bidder or its Surety or Sureties, if any, the Owner may take over the construction of the project and prosecute the same to completion by Contract or otherwise for the account and at the expense of the Bidder, and the Bidder and its Surety or Sureties, if any, shall be liable to the Owner for any cost or expense in excess of the Contract price occasioned thereby. In such event the Owner may take possession of and utilize, in completing the construction of the project, any materials, tools, supplies, equipment, appliances, and plant belonging to the Bidder or any of its subcontractors, which may be situated at the site of the project. The Owner in such contingency may exercise any rights, claims or demands which the Bidder may have against third persons in connection with this Contract and for such purpose the Bidder does hereby assign, transfer and set over unto the Owner all such rights, claims and demands.*

**Section 2. Liquidated Damages.** *The time of the Completion of Construction of the project is of the essence of the Contract. Should the Bidder neglect, refuse or fail to complete the construction within the time herein agreed upon, after giving effect to extensions of time, if any, herein provided, then, in that event and in view of the difficulty of estimating with exactness damages caused by such delay, the Owner shall have the right to deduct from and retain out of such moneys which may be then due, or which*

*may become due and payable to the Bidder the sum of* two hundred *dollars (* 200.00 *) per day for each and every day that such construction is delayed in its completion beyond the specified time, as liquidated damages and not as a penalty if the amount due and to become due from the Owner to the Bidder is insufficient to pay in full any such liquidated damages, the Bidder shall pay to the Owner the amount necessary to effect such payment in full: Provided, however, that the Owner shall promptly notify the Bidder in writing of the manner in which the amount retained, deducted or claimed as liquidated damages was computed.*

**Section 3. Cumulative Remedies.** *Every right or remedy herein conferred upon or reserved to the Owner shall he cumulative, shall be in addition to every right and remedy now or hereafter existing at law or in equity or by statute and the pursuit of any right or remedy shall not be construed as an election: Provided, however, that the provisions of Section 2 of this Article shall be the exclusive measure of damages for failure by the Bidder to complete the construction of the Project within the time herein agreed upon.*

## ARTICLE VI-MISCELLANEOUS

**Section 1. Definitions.**

a. *The term "Engineer " shall mean the Engineer employed by the Owner, to provide engineering services for the project and said Engineer's duly authorized assistants and representatives.*

b. *The term "Completion of Construction " shall mean full performance by the Bidder of the Bidder's obligations under the Contract and all amendments and revisions thereof except the Bidder's obligations in respect of (1) Releases of Liens and Certificate of Contractor under Article III, Section 2 hereof (2) the inventory referred to in Article III, Section 1 hereof and (3) other final documents. The term "Completion of the Project" shall mean full performance by the Bidder of the Bidder's obligations under the Contract and all amendments and revisions thereof. The Certificate of Completion, signed by the Engineer and approved in writing by the Owner shall be the sole and conclusive evidence as to the date of Completion of Construction and as to the fact of Completion of the Project.*

**Section 2. Materials and Supplies.** *In the performance of this contract there shall be furnished only such unmanufactured articles, materials, and supplies as have been mined or produced in the United States or in any eligible country, and only such manufactured articles, materials, and supplies as have been manufactured in the United States or in any eligible country substantially all from articles, materials, or supplies mined, produced or manufactured, as the case may be, in the United States or in any eligible country; provided that other articles, materials, or supplies may be used in the event and to the extent that the Owner may such use. For the purposes of this section, an "eligible country" is any country that applies with respect to the United States an agreement ensuring reciprocal access for United States products and services and suppliers to the markets of that country, as determined by the Unites States Trade Representative. The Bidder agrees to submit to the Owner such certificates with respect to compliance with the foregoing provision.*

**Section 3. Patent Infringement.** *The Bidder shall hold harmless and indemnify the Owner from any and all claims, suits and proceedings for the infringement of any patent or patents covering any materials or equipment used in construction of the project.*

**Section 4. Permits for Explosives.** *All permits necessary for the handling or use of dynamite or other explosives in connection with the construction of the project shall be obtained by and at the expense of the Bidder.*

**Section 5. Compliance with Laws.** *The Bidder shall comply with all federal, state, and local laws, rules, and regulations applicable to its performance under the contract and the construction of the project. The Bidder acknowledges that it is familiar with the Rural Electrification Act of 1936, as amended, the Anti Kick-Back Act of 1986 (41 U.S.C. 51 et seq), and 18 U.S.C. §§ 286, 287, 641, 661, 874, 1001, and 1366, as amended.*

*The Bidder represents that to the extent required by Executive Orders 12549 (3 CFR, 1985-1988 Comp., p. 189) and 12689 (3 CFR, 1989 Comp., p. 235). Debarment and Suspension, and 7 CFR part 3017, it has submitted to the Owner a duly executed certification in the form prescribed in 7 CFR part 3017.*

*The Bidder represents that, to the extent required, it has complied with the requirements of Pub. L. 101-121, Section 319, 103 Stat. 701, 750-765 (31 U.S. C. 1352), entitled "Limitation on use of appropriated funds to influence certain Federal contracting and financial transactions," and any rules and regulations issued pursuant thereto.*

**Section 6. Equal Opportunity Provisions.**

a. *Bidder's Representations.*

*The Bidder represents that:*

*It has ___, does not have ✓, 100 or more employees, and if it has, that it has ___, has not ___, furnished the Equal Employment Opportunity-Employers Information Report EEO-1, Standard Form 100, required of employers with 100 or more employees pursuant to Executive Order 11246 of September 24, 1965, and Title VII of the Civil Rights Act of 1964.*

*The Bidder agrees that it will obtain, prior to the award of any subcontract for more than $10,000 hereunder to a subcontractor with 100 or more employees, a statement, signed by the proposed subcontractor, that the proposed subcontractor has filed a current report on Standard Form 100.*

*The Bidder agrees that if it has 100 or more employees and has not submitted a report on Standard Form 100 for the current reporting year and that if this Contract will amount to more than $10,000, the Bidder will file such report, as required by law, and notify the owner in writing of such filing prior to the Owner's acceptance of this Proposal.*

b. *Equal Opportunity Clause. During the performance of this Contract, the Bidder agrees as follows:*

   (1) *The Bidder will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The Bidder will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotions or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection of training, including apprenticeship. The Bidder agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this Equal Opportunity Clause.*

   (2) *The Bidder will, in all solicitations or advertisements for employees placed by or on behalf of the Bidder, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.*

   (3) *The Bidder will send to each labor union or representative of workers, with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the Bidder's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.*

   (4) *The Bidder will comply with all provisions of Executive Order 11246 of September 24, 1965, and the rules, regulations and relevant orders of the Secretary of Labor.*

   (5) *The Bidder will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to its books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.*

   (6) *In the event of the Bidder's noncompliance with the Equal Opportunity Clause of this Contract or with any of the said rules, regulations, or orders, this Contract may be canceled, terminated, or suspended in whole or in part, and the Bidder may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as provided by law.*

(7) *The Bidder will include this Equal Opportunity Clause in every subcontractor purchase order unless exempted by the rules, regulations, or order of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Bidder will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance; Provided, however, that in the event Bidder becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the Bidder may request the United States to enter into such litigation to protect the interests of the United States.*

*c. Certificate of Nonsegregated Facilities. The Bidder certifies that it does not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The Bidder certifies further that it will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it will not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The Bidder agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this Contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The Bidder agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods) it will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding $10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that it will retain such certifications in its files.*

**Section 7. Franchises and Rights-of-Way.** *The Bidder shall be under no obligation to obtain or assist in obtaining: Any franchises, authorizations, permits or approvals required to be obtained by the Owner from Federal, State, County, Municipal or other authorities; any rights-of-way over private lands; or any agreements between the Owner and third parties with respect to the joint use of poles, crossings, or other matter incident to the construction and operation of the project.*

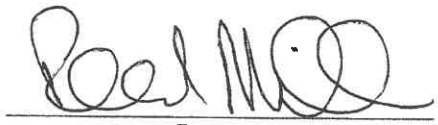
**Section 8. Nonassignment of Contract.** *The Bidder shall perform directly and without subcontracting not less than twenty-five percent (25%) of the construction of the project, to be calculated on the basis of the total Contract price. The Bidder shall not assign the Contract effected by an acceptance of this Proposal or any interest in any funds that may be due or become due hereunder or enter into any contract with any person, firm or corporation for the performance of the Bidder's obligations hereunder or any part thereof without the approval in writing of the Owner and of the Surety or Sureties, if any, on any bond furnished by the Bidder for the faithful performance of the Bidder's obligations hereunder. If the Bidder, with the consent of the Owner and any Surety or Sureties on the Contractor's Bond or Bonds, shall enter into a subcontract with any subcontractor for the performance of any part of this Contract, the Bidder shall be as fully responsible to the Owner and the Government for the acts and omissions of such subcontractor and of persons employed by such subcontractor as the Bidder would be for its own acts and omissions and those of persons directly employed by it. Owner reserves the right to accept or reject any subcontractor.*

**Section 9. Successors and Assigns.** *Each and all of the covenants and agreements herein contained shall extend to and be binding upon the successors and assigns of the parties hereto.*

**Section 10. Independent Contractor.** *The Bidder shall perform the work as an independent contractor, not as a subcontractor, agent, or employee of the Owner. Upon acceptance of this Proposal, the successful Bidder shall be the Contractor and all references in the Proposal to the Bidder shall apply to the Contractor.*

**Section 11. Acknowledgement of Document Review.** The Bidder certifies that he has read this document in its entirety. The Bidder further certifies that; 1) he has reviewed and understands the Exhibits A, B, C and D; 2) he understands that these instructions, conditions and requirements amend and add to the Plans and Specifications.

*ATTEST*



*Secretary*

BBC Electrical Services, Inc.

*Bidder*

Bryan Simpson

*President*

*Dated* 4-28-22

5467 Hwy 43 S. Joplin, MO 64804

*Address*

*The Proposal must be signed with the full name of the Bidder. If the Bidder is a partnership, the Proposal must be signed in the partnership name by a partner. If the Bidder is a corporation, the Proposal must be signed in the corporate name by a duly authorized officer and the corporate seal affixed and attested by the Secretary of the Corporation.*

## ACCEPTANCE

The Owner hereby accepts the foregoing Proposal of the Bidder:

_____

for construction of the following:

**2022 Labor Contract for Power Line Projects**

*Distribution Construction Units:*

Sections: **"R", "N", "L" and "M"**

IN TESTIMONY WHEREOF, the Contractor has hereunto set his hand and seal, and the City of Nixa executes this contract by its City manager.

**THE CITY OF NIXA, MISSOURI**

*By:* _____

*Mayor*

Approved as to form:

_____

*City Attorney*

CERTIFICATE OF FINANCIAL OFFICER

I certify that this contract is within the purpose of the appropriation to which it is to be charged and that there is an unencumbered balance to the credit of such appropriation sufficient to pay therefore, and that the appropriate accounting entries have been made.

_____

*Financial Officer*

# Exhibit A

# DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS-LINE CHANGES

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS – LINE CHANGES

*The general heading of Line Changes applies to the changing of existing lines or portion thereof from their existing phasing, wire size, and type to new phasing, wire size, and type and the removal of existing lines or portion thereof and replacing with new lines in close proximity thereto. In general line changes involve three types of construction assembly units as follows:*

*Part TRANSFER: Transfer construction assembly units;*
*Part R: Removal construction assembly units;*
*Part N: New construction assembly units on existing lines or in replacing lines.*

*The construction assembly units that are included in Parts "R", "N" and "Transfer" (defined by the prefix "TR") and descriptions which follow together with the applicable descriptions included under New construction. Where the descriptions are not correct or sufficiently explicit, or when special units are not covered by Construction Drawings, descriptions have been provided.*

*Line changes may also be subject to two (2) additional Parts:*

*Part M: Site Restoration and Miscellaneous*
*Part L: Hourly Labor and Equipment Rates*

*Part M and Part L are as follows:*

*Note: The Bidder shall note and be made aware, that the bid amounts submitted under Parts M and Part L shall be considered only supplemental to the Total Proposal (Parts Transfer, R & N) and are not subject to the determination of the contract award.*

### Part M – SITE RESTORATION AND MISC.

*Site Restoration work covers the restoration work of construction areas, including but not limited to, seeding, mulching, erosion control, driveway repair or replacement. Part M also covers work not subject to Parts Transfer, Part L, Part R or Part N.*

a. **Seed Mulch ROW (Right-of-Way).** *Includes the work necessary to prepare work areas located within the road, street and highway right-of-ways, private easement areas and in some cases, residential or commercial yards for the placement of broad casted seed and mulch.*

**b. Sod Yard**. *Includes the work necessary to prepare the work area and the placement of (rolled) sod. Typically applies to residential yards or commercial greenscapes that are routinely maintained.*

**c. Hydro Seeding.** *Includes the preparation for and placement of hydro seeding.*

d. **Surface Restoration Rock, Asphalt & Concrete.** *Includes the replacement of disturbed surface(s) including but not limited to, driveways, alley ways, parking areas and public areas to at minimum, the condition of which it was prior to construction. Restoration and unit pricing includes up to a depth of (6) inches of applicable restoration materials ( i.e. rock, concrete, asphalt) or a combination of materials. This work does not include surface restoration work that may be subject to the "Notice and Instruction to Bidders, Item 17, Paragraph d.*

**e. Erosion Control Silt.** *Includes the placement of standard silt fence, silt socks, straw bales or equivalent silt prevention measures.*

f. **Off-Road Adder**. *Includes a price adder, defined by an additional percent (%) added to the unit cost of the pole.*

g. **Rock Backfill Adder.** *Includes the procurement and placement of rock backfill around wood or steel poles to within 12" of existing groundline. Rock is typically 3/4" road stone, but may be subject to a specific gradation under certain circumstances.*

h. **"B" or Two-Phase Construction and Retirement Units Labor Cost Factor.** *Due to the infrequent construction of "B" or "Two-Phase" construction by the Owner, Bidder shall submit a Percentage factor, less than 100, to be applied to all similarly situated Three-Phase Units including both New and Retirement Units. This will be the Unit Price paid for any Two-Phase work that may arise under this agreement.*

## Part L – LABOR AND EQUIPMENT RATES

*Bidder shall submit an hourly rate for each class of labor and equipment. The hourly rates included in Part L will apply to labor performed under Article II, Section 5, Construction Not in Proposal, paragraph b.*

## Part R--REMOVAL CONSTRUCTION ASSEMBLY UNITS

*Removal construction assembly units cover the furnishing of all labor for the removal of existing units of construction from existing lines, disassembling into material items, and all labor and transportation for the returning of all materials to the warehouse of the Owner in an orderly manner or transporting elsewhere to the site of the Project for reuse in the prosecution of this Contract as approved by the Engineer.*

*The unit removal prices shall include all material and labor required to reinstall in accordance with specifications any conductors temporarily detached. The Bidder will reinstall at the Bidder's own expense any other units removed by the Bidder for the Bidder's own convenience.*

*The removal units are specified by the prefix "R" on the staking sheets and followed by the construction assembly unit designation of existing construction assembly unit to be removed. For example, an R A1 signifies the removal of an A1 construction assembly unit. The following special notes apply to specific removal units:*

**a. Poles.** *All poles of the same height, regardless of pole class, are designated by the same unit. Thus an R 30-foot pole signifies the removal of a 30-foot pole of any class. The Bidder is not required under this unit to remove from the pole any ground wire or pole numbering attached to the pole. This unit includes the refilling and tamping of holes in a workmanlike manner unless they are to be reused.*

**b. Pole-Top Assemblies.** *The unit of removal of pole-top assemblies includes, in addition to the removal of the construction assembly itself, any necessary handling, resagging, and retying of conductors in those cases where an existing pole-top construction assembly will be removed and replaced by a new pole-top construction assembly and where any existing conductor is to be reused.*

*The unit of removal of pole-top assemblies also includes any holding or handling of mainline or tap conductors at tap lines, angles, and deadends where such is involved, and reinstalling of such conductor in accordance with the specifications; for example, an R A5-1 will include the disconnection of the tap conductors, snubbing off the tap line at the nearest practical point and the reconnection and resagging of these tap conductors if necessary to the new tap construction assembly when installed. The new unit of construction, however, will be specified separately in Part N.*

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS – LINE CHANGES *(Continued)*

### Part R--REMOVAL CONSTRUCTION ASSEMBLY UNITS *(Continued)*

c. **Conductor.** *The conductor removal unit covers the removal of 1,000 feet of conductor or cable and reeling or coiling it in a workmanlike manner in such a way that it can be reused by the Bidder or the Owner. The Owner will furnish to the Bidder reels if it is to be returned to the Owner's warehouse on reels. The Bidder will retain possession of all jumpers, tie wire, armor rods, connectors, and other conductor accessories removed. These items will not be returned to the Owner. The removal unit for each size of conductor or cable is shown by the prefix R followed by the conductor or cable type; thus an R #2 ACSR signifies the removal unit for 1,000 feet of #2 ACSR conductor.*

d. **Guys.** *All guys regardless of length, type of attachment, or size of guy strand are specified by the same unit; thus an R E signifies the removal of any guy.*

e. **Anchors.** *Only anchor rods are to be removed by the Bidder in anchor removal units. The anchor will be left in the ground; thus an R F signifies the removal of any anchor rod. If the rod cannot be unscrewed, the end of the rod shall either be cut off or bent down so that the top of the rod will be at least 18 inches below ground.*

f. **Transformers.** *The unit for removal of transformer construction assembly units is designated by the prefix R followed by the description of the unit to be removed; thus R G-Unit signifies the removal of a transformer construction assembly for any size transformer.*

g. **Secondary Units.** *The unit for removal of secondary assemblies includes, in addition to the removal of the construction assembly itself, all necessary handling such as untying, resagging, and retying of secondary conductor or cables where existing secondary conductor or cable is to be reused.*

   *In addition, the unit for removal of the secondary construction assembly includes the handling or holding of any conductor at tap lines where such is involved, and the reinstalling of such tap conductor in accordance with the specifications.*

h. **Service Units.** *The unit for removal of service assemblies includes, in addition to the removal of the construction assembly itself, all necessary handling such as untying, resagging, and retying of service conductor or cable where existing service conductor or cable is to be reused.*

*The following descriptions apply only to those removal units not sufficiently explicit:*

| Unit | Description |
|---|---|
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| | |
| | |
| | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES
## Part L - LABOR AND EQUIPMENT RATES

| UNIT NO - LABOR. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|
| Superintendent | 1 | HR. | $ 137.95 | $ 137.95 |
| General Foreman | 1 | HR. | $ 131.84 | $ 131.84 |
| Foreman (Assist. General) | 1 | HR. | $ 126.54 | $ 126.54 |
| Safety Officer | 1 | HR. | $ 115.93 | $ 115.93 |
| Administrative Assistant\Clerical | 1 | HR. | $ 32.00 | $ 32.00 |
| Journeyman Linemen | 1 | HR. | $ 115.93 | $ 115.93 |
| Apprentice 1 Year | 1 | HR. | $ 73.49 | $ 73.49 |
| Apprentice 2 Year | 1 | HR. | $ 78.79 | $ 78.79 |
| Apprentice 3 Year | 1 | HR. | $ 84.10 | $ 84.10 |
| Apprentice 4 Year | 1 | HR. | $ 89.40 | $ 89.40 |
| Apprentice 5 Year | 1 | HR. | $ 94.71 | $ 94.71 |
| Apprentice 6 Year | 1 | HR. | $ 100.01 | $ 100.01 |
| Apprentice 7 Year | 1 | HR. | $ 105.32 | $ 105.32 |
| Operator | 1 | HR. | $ 105.53 | $ 105.53 |
| Groundman | 1 | HR. | $ 75.26 | $ 75.26 |
| General Laborer | 1 | HR. | $ 75.26 | $ 75.26 |
| Mechanic | 1 | HR. | $ 105.53 | $ 105.53 |
| | | | | |
| **UNIT NO - EQUIPMENT** | **NO OF UNITS** | **UNIT** | **UNIT PRICE** | **EXTENDED PRICE** |
| Bucket Truck 35-45 Foot | 1 | HR. | $ 39.00 | $ 39.00 |
| Bucket Truck 46-55 Foot | 1 | HR. | $ 44.00 | $ 44.00 |
| Bucket Truck 56-65 Foot | 1 | HR. | $ 49.00 | $ 49.00 |
| Bucket Truck 66'+ Foot | 1 | HR. | $ 69.00 | $ 69.00 |
| Digger Truck 47' | 1 | HR. | $ 44.00 | $ 44.00 |
| Digger Truck 50' | 1 | HR. | $ 54.00 | $ 54.00 |
| Digger Truck 60' | 1 | HR. | $ 65.00 | $ 65.00 |
| Digger Truck - Pressure Digger | 1 | HR. | $ 80.00 | $ 80.00 |
| Truck Pick Up | 1 | HR. | $ 20.00 | $ 20.00 |
| Dump Truck | 1 | HR. | $ 33.00 | $ 33.00 |
| Vac Truck | 1 | HR. | $ 345.00 | $ 345.00 |
| Vac Trailer | 1 | HR. | $ 35.00 | $ 35.00 |
| Trailer Pole | 1 | HR. | $ 10.00 | $ 10.00 |
| Trailer Spool ( 3 Reel ) | 1 | HR. | $ 26.00 | $ 26.00 |
| Trailer Spool ( 1 Reel ) | 1 | HR. | $ 20.00 | $ 20.00 |
| Trailer Stringing - Three or Four-Reel | 1 | HR. | $ 15.00 | $ 15.00 |
| Trailer Stringing - One or Two Reel | 1 | HR. | $ 10.00 | $ 10.00 |
| Trailer - Underground Puller | 1 | HR. | $ 35.00 | $ 35.00 |
| Trailer Enclosed- Multi Axel | 1 | HR. | $ 15.00 | $ 15.00 |
| Trailer Enclosed - Single Axel | 1 | HR. | $ 10.00 | $ 10.00 |
| Trailer Flatbed\Dump - Multi-Axel | 1 | HR. | $ 15.00 | $ 15.00 |
| Trailer Flatbed\Dump - Single Axel | 1 | HR. | $ 15.00 | $ 15.00 |
| Skidloader (Standard, Wheel or track) | 1 | HR. | $ 27.00 | $ 27.00 |
| Skidloader (Walk-Behind) | 1 | HR. | $ 27.00 | $ 27.00 |
| Track Machine (Pole Handling-Small, Backyard Type) | 1 | HR. | $ 47.00 | $ 47.00 |
| Track Machine (Pole Handling-Large) | 1 | HR. | $ 120.00 | $ 120.00 |
| Track Hoe (Large-Excavating) | 1 | HR. | $ 85.00 | $ 85.00 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES
## Part L - LABOR AND EQUIPMENT RATES

| UNIT NO - LABOR. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|
| Track Hoe (Small-Mini Excavator) | 1 | HR. | $ 30.00 | $ 30.00 |
| Backhoe (Standard) | 1 | HR. | $ 35.00 | $ 35.00 |
| Trencher (Standard) | 1 | HR. | $ 37.00 | $ 37.00 |
| Trencher (Walk-Behind) | 1 | HR. | $ 35.00 | $ 35.00 |
| Semi-Tractor & Trailer | 1 | HR. | $ 55.00 | $ 55.00 |
| Dozer D4 or D5 | 1 | HR. | $ 70.00 | $ 70.00 |
| Dozer D6 | 1 | HR. | $ 80.00 | $ 80.00 |
| Crane 1-20 Ton | 1 | HR. | $ 54.00 | $ 54.00 |
| Crane 21+ Ton | 1 | HR. | $ 80.00 | $ 80.00 |
| Broadcast Spreader (Seed) | 1 | HR. | $ 10.00 | $ 10.00 |
| Wheel Disc-Cultivator (Soil Prep) | 1 | HR. | $ 15.00 | $ 15.00 |
| Straw Blower (Mulch) | 1 | HR. | $ 29.00 | $ 29.00 |
| Air Compressor | 1 | HR. | $ 15.00 | $ 15.00 |
| | Total Part L--Labor & Equipment Rates | | | $ 3,546.59 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

### PART M - SITE RESTORATION & MISC.

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| SEED MULCH ROW | 1 | SQ. FT. | $ 0.45 | $ 0.45 | Site restoration of road right-of-ways or undeveloped private land (standard seeding, no sod) | X |
| SOD YARD | 1 | SQ. FT. | $ 1.40 | $ 1.40 | Site restoration of residential or commercial yards or greenscapes requiring sod replacement | X |
| HYDRO SEEDING | 1 | SQ. FT. | $ 0.50 | $ 0.50 | Site preparation and application of hydro-seed | X |
| SURFACE RESTORATION ROCK | 1 | SQ. FT. | $ 1.05 | $ 1.05 | Replacement of a private granular surface driveway 6" depth | X |
| SURFACE RESTORATION ASPHALT | 1 | SQ. FT. | $ 17.00 | $ 17.00 | Replacement of a private asphalt or seal coat surface driveway 6" depth. | X |
| SURFACE RESTORATION CONCRETE | 1 | LIN. FT | $ 180.00 | $ 180.00 | Replacement of a private concrete surface driveway 6" depth. | X |
| EROSION CONTROL - SILT | 1 | LIN. FT | $ 6.50 | $ 6.50 | Installation of standard silt fence, silt socks, straw bales or equivalent silt prevention measures. | X |
| OFF-ROAD ADDER | 1 | LUMP | $ 600.00 | $ 600.00 | Adder applying to pole locations not readily accessed by a standard bucket or digger derrick truck. | X |
| ROCK BACK-FILL ADDER | 1 | LUMP | $ 275.00 | $ 275.00 | Adder for furnishing and placing rock backfill around wood or steel poles. | X |
| | Total Part M--Site Restoration & Misc | | | $ 1,081.90 | | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART N - NEW CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| Wood Pole 30 | 1 | Ea. | $ 1,200.00 | $ 1,200.00 | | |
| Wood Pole 35 | 1 | Ea. | $ 1,370.00 | $ 1,370.00 | | |
| Wood Pole 40 | 1 | Ea. | $ 1,460.00 | $ 1,460.00 | | |
| Wood Pole 45 | 1 | Ea. | $ 1,570.00 | $ 1,570.00 | | |
| Wood Pole 50 | 1 | Ea. | $ 1,650.00 | $ 1,650.00 | | |
| Wood Pole 55 | 1 | Ea. | $ 1,680.00 | $ 1,680.00 | | |
| Wood Pole 60+ | 1 | Ea. | $ 1,800.00 | $ 1,800.00 | | |
| Steel Pole 30 | 1 | Ea. | $ 1,450.00 | $ 1,450.00 | | |
| Steel Pole 35 | 1 | Ea. | $ 1,450.00 | $ 1,450.00 | | |
| Steel Pole 40 | 1 | Ea. | $ 1,550.00 | $ 1,550.00 | | |
| Steel Pole 45 | 1 | Ea. | $ 1,650.00 | $ 1,650.00 | | |
| Steel Pole 50 | 1 | Ea. | $ 1,750.00 | $ 1,750.00 | | |
| Steel Pole 55 | 1 | Ea. | $ 1,850.00 | $ 1,850.00 | | |
| Steel Pole 60+ | 1 | Ea. | $ 1,990.00 | $ 1,990.00 | | |
| H1.1 | 1 | Ea. | $ 160.00 | $ 160.00 | Driven Ground Rod | RUS-1728F-804 |
| H5.1 | 1 | Ea. | $ 120.00 | $ 120.00 | Butt Plate | RUS-1728F-804 |
| H3.1 | 1 | Ea. | $ 250.00 | $ 250.00 | Ground Rod for Airbreak Switch | RUS-1728F-804 |
| H4.1 | 1 | Ea. | $ 250.00 | $ 250.00 | Ground Rod for Airbreak Switch Platform Type | RUS-1728F-804 |
| E1.1 | 1 | Ea. | $ 120.00 | $ 120.00 | 3/8" Guy Wire, 4" Washer, 5200lb Attachment | RUS-1728F-804 |
| E1.1L | 1 | Ea. | $ 120.00 | $ 120.00 | 7/16" Guy Wire, 4" Washer, 8500lb Attachment | RUS-1728F-804 |
| E1.3L | 1 | Ea. | $ 140.00 | $ 140.00 | Pole Band (Large Conductors) | RUS-1728F-804 |
| E1.4 | 1 | Ea. | $ 280.00 | $ 280.00 | Overhead Guy, 4" Washers, 6600lbs | RUS-1728F-804 |
| E1.4L | 1 | Ea. | $ 280.00 | $ 280.00 | Overhead Guy, 4" Washers (Heavy Duty) 8500lbs | RUS-1728F-804 |
| E1.5 | 1 | Ea. | $ 75.00 | $ 75.00 | Guy Strain Insulator (Lengths Vary) | RUS-1728F-804 |
| F1.8 | 1 | Ea. | $ 450.00 | $ 450.00 | Bust Anchor 8" | RUS-1728F-804 |
| F1.12 | 1 | Ea. | $ 450.00 | $ 450.00 | Bust Anchor 12" | RUS-1728F-804 |
| F2.8 | 1 | Ea. | $ 390.00 | $ 390.00 | Screw Anchor 8" | RUS-1728F-804 |
| F2.12 | 1 | Ea. | $ 390.00 | $ 390.00 | Screw Anchor 12" | RUS-1728F-804 |
| F5.1 | 1 | Ea. | $ 430.00 | $ 430.00 | Rock Anchor | RUS-1728F-804 |
| A1.1 | 1 | Ea. | $ 170.00 | $ 170.00 | Tangent, Vertical Construction, Pin Insulator | RUS-1728F-804 |
| A1.1P | 1 | Ea. | $ 170.00 | $ 170.00 | Tangent, Vertical Construction, Post Insulator, Max Angle 5 Deg, 2 Deg 1/0 Greater | RUS-1728F-804 |
| A2.1 | 1 | Ea. | $ 170.00 | $ 170.00 | Tangent, Verticle Construction, Double Support, Pin Insulator, Max Angle 5 Deg, 2 Deg 1/0 Greater | RUS-1728F-804 |
| A2.1P | 1 | Ea. | $ 170.00 | $ 170.00 | Tangent, Verticle Construction, Double Support, Post Insulator, Max Angle 5 Deg, 2 Deg 1/0 Greater | RUS-1728F-804 |
| A2.3 | 1 | Ea. | $ 170.00 | $ 170.00 | Angle, Vertical Construction, Double Support, Pin Insulators, Max Angle 13 Deg, 1/0 ACSR | RUS-1728F-804 |
| A2.3P | 1 | Ea. | $ 170.00 | $ 170.00 | Angle, Vertical Construction, Double Support, Post Insulators, Max Angle 13 Deg, 1/0 ACSR | RUS-1728F-804 |
| A3.1 | 1 | Ea. | $ 180.00 | $ 180.00 | Angle, Vertical Construction, Suspension Insulators, Max Angle 20 to 60 Deg, 1/0 & Greater | RUS-1728F-804 |
| A4.1 | 1 | Ea. | $ 320.00 | $ 320.00 | Angle, Vertical Construction, Double Dead-End, Max Angle 90 to 150 Deg. | RUS-1728F-804 |
| A5.1 | 1 | Ea. | $ 250.00 | $ 250.00 | Single Deadend, Vertical Construction | RUS-1728F-804 |
| A5.2 A5.3 | 1 | Ea. | $ 330.00 | $ 330.00 | Single Deadend, Vertical Construction with Extension (for Tap) | RUS-1728F-804 |
| A6.1 | 1 | Ea. | $ 320.00 | $ 320.00 | Double Deadend, Vertical Construction | RUS-1728F-804 |
| A6.2 | 1 | Ea. | $ 320.00 | $ 320.00 | Double Deadend, Vertical Construction (with Pole Top Pin Jumper) | RUS-1728F-804 |
| A5.21 | 1 | Ea. | $ 270.00 | $ 270.00 | Single Deadend, Horizontal Construction | RUS-1728F-804 |
| A6.21 | 1 | Ea. | $ 320.00 | $ 320.00 | Double Deadend, Horizontal Construction | RUS-1728F-804 |
| A2.21 | 1 | Ea. | $ 220.00 | $ 220.00 | Tangent, Horizontal, Neutral High, Pin Insulator, Double Support, Max Angle 22 Deg 1/0 ACSR | RUS-1728F-804 |
| A2.21P | 1 | Ea. | $ 220.00 | $ 220.00 | Tangent, Horizontal, Neutral High, Post Insulator, Double Support, Max Angle 22 Deg 1/0 ACSR | RUS-1728F-804 |
| A1.11 | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral High, Pin Insulator, Max Angle 9 Deg 1/0 ACSR | RUS-1728F-804 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART N - NEW CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| A1.11P | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral High, Post Insulator, Max Angle 9 Deg 1/0 ACSR | RUS-1728F-804 |
| C1.11 | 1 | Ea. | $ 310.00 | $ 310.00 | Tangent, Horizontal, Neutral Low, Pin Insulators, Single Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |
| C2.24 | 1 | Ea. | $ 420.00 | $ 420.00 | Tangent, Horizontal, Neutral Low, Pin Insulators, Double Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |
| C2.24P | 1 | Ea. | $ 420.00 | $ 420.00 | Tangent, Horizontal, Neutral Low, Post Insulators, Double Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |
| C1.11P | 1 | Ea. | $ 310.00 | $ 310.00 | Tangent, Horizontal, Neutral Low, Post Insulators, Single Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |
| C1.11L | 1 | Ea. | $ 310.00 | $ 310.00 | Tangent, Horizontal, Neutral Low, Pin Insulators, Single Arm 8', Large Conductors, Max Angle 2 Deg | RUS-1728F-804 |
| C2.21L | 1 | Ea. | $ 420.00 | $ 420.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Large Conductors, Max Angle 7 Deg 336 ACSR | RUS-1728F-804 |
| C2.21P | 1 | Ea. | $ 420.00 | $ 420.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C2.21 | 1 | Ea. | $ 420.00 | $ 420.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Max Angle 21 Deg #2 ACSR | RUS-1728F-804 |
| C2.52 | 1 | Ea. | $ 430.00 | $ 430.00 | Angle, Horizontal, Double Support, Double Arm 10', Pin Insulators, Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C2.52L | 1 | Ea. | $ 430.00 | $ 430.00 | Angle, Horizontal, Double Support, Double Arm 10', Large Conductor, Pin Insulators, Max Angle 22 Deg #336 ACSR | RUS-1728F-804 |
| C2.52P | 1 | Ea. | $ 430.00 | $ 430.00 | Angle, Horizontal, Double Support, Double Arm 10', Large Conductor, Post Insulators, Max Angle 16 Deg #336 ACSR | RUS-1728F-804 |
| C3.1 | 1 | Ea. | $ 420.00 | $ 420.00 | Angle, Vertical, Suspension Insulators, Max Angle 30 to 60 Deg, 1/0 & Smaller, 20 to 60 Deg 1/0 & Larger | RUS-1728F-804 |
| C3.1L | 1 | Ea. | $ 420.00 | $ 420.00 | Angle, Vertical, Suspension Insulators, Large Conductor, Max Angle 10 to 30 Deg | RUS-1728F-804 |
| C4.1G C4.2G | 1 | Ea. | $ 590.00 | $ 590.00 | Angle, Vertical, Double Dead-End, Suspension Insulators Angle 90-150 Deg (C4.2G 15-90 Deg) | RUS-1728F-804 |
| C5.1 | 1 | Ea. | $ 440.00 | $ 440.00 | Deadend, Single, Vertical, Suspension Insulators | RUS-1728F-804 |
| C5.21 C5.21L | 1 | Ea. | $ 440.00 | $ 440.00 | Deadend, Single, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |
| C5.71L | 1 | Ea. | $ 440.00 | $ 440.00 | Deadend, Single, Horizontal, Neutral Low, Single 8' OR 10' Arm HD Fiberglass | RUS-1728F-804 |
| C6.21 C6.21L | 1 | Ea. | $ 950.00 | $ 950.00 | Deadend, Double, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |
| C6.52 | 1 | Ea. | $ 950.00 | $ 950.00 | Deadend, Double, Horizontal, Double 10' Arm Wood ( or 1 HD Fiberglass ) | RUS-1728F-804 |
| C2.51 | 1 | Ea. | $ 420.00 | $ 420.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Double Arms 10', Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C1.41 | 1 | Ea. | $ 310.00 | $ 310.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Max Angle 14 Deg #2 ACSR | RUS-1728F-804 |
| C2.51L | 1 | Ea. | $ 430.00 | $ 430.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Large Conductor, Double Arms 10', Max Angle 16 Deg 336 ACSR | RUS-1728F-804 |
| C2.51P | 1 | Ea. | $ 430.00 | $ 430.00 | Tangent, Horizontal, Neutral High, Post Insulators, Double Arms 10', Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C1.41P | 1 | Ea. | $ 310.00 | $ 310.00 | Tangent, Horizontal, Neutral High, Post Insulators, Max Angle 14 Deg #2 ACSR | RUS-1728F-804 |
| C1.41L | 1 | Ea. | $ 310.00 | $ 310.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Large Conductors, Max Angle 13 Deg 1/0 ACSR | RUS-1728F-804 |
| G1.2 | 1 | Ea. | $ 410.00 | $ 410.00 | Single Phase CSP Transformer | RUS-1728F-804 |
| G1.4 | 1 | Ea. | $ 410.00 | $ 410.00 | Single Phase Conventional Transformer | RUS-1728F-804 |
| G2.1 | 1 | Ea. | $ 1,200.00 | $ 1,200.00 | Two Phase Transformer Bank | RUS-1728F-804 |
| G3.1 G3.2 G3.3 | 1 | Ea. | $ 1,560.00 | $ 1,560.00 | Three Phase Transformer Bank | RUS-1728F-804 |
| K2.1 | 1 | Ea. | $ 60.00 | $ 60.00 | House Knob | RUS-1728F-804 |
| K1.1 | 1 | Ea. | $ 60.00 | $ 60.00 | Clevis & Spool Bracket with Throughbolt | RUS-1728F-804 |
| K3.2 | 1 | Ea. | $ 60.00 | $ 60.00 | Service Mast | RUS-1728F-804 |
| A1.01 | 1 | Ea. | $ 120.00 | $ 120.00 | Pole Top Pin & Pin Insulator | RUS-1728F-804 |
| A1.01P | 1 | Ea. | $ 120.00 | $ 120.00 | Pole Top Pin & Post Insulator | RUS-1728F-804 |
| A1.011 | 1 | Ea. | $ 110.00 | $ 110.00 | Pin Insulator | RUS-1728F-804 |
| A1.011P | 1 | Ea. | $ 110.00 | $ 110.00 | Post Insulator | RUS-1728F-804 |
| A5.01 | 1 | Ea. | $ 120.00 | $ 120.00 | Suspension Insulator | RUS-1728F-804 |
| N1.1 | 1 | Ea. | $ 80.00 | $ 80.00 | Neutral Spool with Single Upset Bolt | RUS-1728F-804 |
| N1.11 | 1 | Ea. | $ 110.00 | $ 110.00 | Insulator & Pin (on Crossarm) | RUS-1728F-804 |
| N2.1 | 1 | Ea. | $ 60.00 | $ 60.00 | Neutral Spool & Clevis | RUS-1728F-804 |
| N5.1 | 1 | Ea. | $ 60.00 | $ 60.00 | Neutral Deadend Eyebolt | RUS-1728F-804 |
| N5.2 | 1 | Ea. | $ 60.00 | $ 60.00 | Neutral Deadend Eyebolt & Swinging Clevis | RUS-1728F-804 |
| N5.3 | 1 | Ea. | $ 80.00 | $ 80.00 | Neutral Deadend Eyebolt & Suspension Insulator | RUS-1728F-804 |
| N6.1 | 1 | Ea. | $ 60.00 | $ 60.00 | Neutral Double Deadend (D.A. Bolt & 2 Eyenuts) | RUS-1728F-804 |
| N6.21 | 1 | Ea. | $ 70.00 | $ 70.00 | Neutral Double Deadend (D.A. Bolt & 2 Eyenuts) on Crossarm | RUS-1728F-804 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART N - NEW CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| M5-14 | 1 | Ea. | $ 150.00 | $ 150.00 | Crossarm 8' Wood or Fiberglass | RUS-1728F-804 |
| M5-16 | 1 | Ea. | $ 160.00 | $ 160.00 | Crossarm 10' Wood or Fiberglass | RUS-1728F-804 |
| W3.1 | 1 | Ea. | $ 60.00 | $ 60.00 | Crossarm Brace 28" | RUS-1728F-804 |
| W3.2 | 1 | Ea. | $ 60.00 | $ 60.00 | Crossarm Brace 60" | RUS-1728F-804 |
| S1.01 | 1 | Ea. | $ 155.00 | $ 155.00 | Cutout (Crossarm Mounted) | RUS-1728F-804 |
| S1.02 | 1 | Ea. | $ 160.00 | $ 160.00 | Cutout & Arrester Combination (Crossarm Mounted) | RUS-1728F-804 |
| S1.1 | 1 | Ea. | $ 155.00 | $ 155.00 | Cutout with Extension Bracket | RUS-1728F-804 |
| S1.3 | 1 | Ea. | $ 230.00 | $ 230.00 | Cutouts (3) Single Phase Cross-Arm Mounted | RUS-1728F-804 |
| S2.31 | 1 | Ea. | $ 550.00 | $ 550.00 | Disconnect Switch, Crossarm Mounted | RUS-1728F-804 |
| S2.32 | 1 | Ea. | $ 2,100.00 | $ 2,100.00 | Group Operated Airbrake Switch (GOAB) - Hog Switch | RUS-1728F-804 |
| S3.2 | 1 | Ea. | $ 580.00 | $ 580.00 | Sectionalizer - OCR with Cut-Out | RUS-1728F-804 |
| P1.01 | 1 | Ea. | $ 110.00 | $ 110.00 | Surge Arrestor Single Phase | RUS-1728F-804 |
| Y1.1 | 1 | Ea. | $ 2,800.00 | $ 2,800.00 | Voltage Regulator, Single Phase | RUS-1728F-804 |
| Y1.3 | 1 | Ea. | $ 3,300.00 | $ 3,300.00 | Voltage regulator, Three Phase, Platform Mounted | RUS-1728F-804 |
| Y3.1 | 1 | Ea. | $ 380.00 | $ 380.00 | Capacitor Assembly Single Phase | RUS-1728F-804 |
| Y3.2 | 1 | Ea. | $ 680.00 | $ 680.00 | Capacitor Assembly Three Phase | RUS-1728F-804 |
| Q2.2G | 1 | Ea. | $ 600.00 | $ 600.00 | Single Phase Meter Assembly on Pole or Structure | RUS-1728F-804 |
| Q3.1 | 1 | Ea. | $ 600.00 | $ 600.00 | Three Phase Meter Assembly on Pole | RUS-1728F-804 |
| Q4.1 | 1 | Ea. | $ 700.00 | $ 700.00 | Primary Metering Assembly on Pole | RUS-1728F-804 |
| U01.COB | 1 | Ea. | $ 90.00 | $ 90.00 | Street Light COBRA HEAD, Pole Mount OR equivalent (Intersection or Highway Lighting) | |
| U01.DEC | 1 | Ea. | $ 90.00 | $ 90.00 | Street Light on Galvinized Steel Pole | |
| U01.HPS | 1 | Ea. | $ - | $ - | Security Light HPS, Pole Mount (Retirement unit only) | |
| U01.LED | 1 | Ea. | $ 70.00 | $ 70.00 | Security Light LED, Pole Mount | |
| COM-TAN | 1 | Ea. | $ 80.00 | $ 80.00 | Communications Tangent Assembly | |
| COM-ANG | 1 | Ea. | $ 130.00 | $ 130.00 | Communications Angle Assembly | |
| COM-DE | 1 | Ea. | $ 250.00 | $ 250.00 | Communications Dead-End Assembly | |
| COM-LOOP | 1 | Ea. | $ 250.00 | $ 250.00 | Communicatios Splice Box or Storage Loop Assembly | |
| COM-SNGL | 1.000 | /1000 Ft. | | $ - | Communications Cable 1 cable self-supporting or 1 cable and 1 messenger. | |
| COM-MULTI | 1.000 | /1000 Ft. | | $ - | Communications Cable Multiple Cables including Messenger | |
| B1.11 | 1 | Ea. | $ 250.00 | $ 250.00 | Tangent, Horiz, Neutral Low, Neutral Spool, Pin Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.11P | 1 | Ea. | $ 250.00 | $ 250.00 | Tangent, Horiz, Neutral Low, Neutral Spool, Post Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.13 | 1 | Ea. | $ 250.00 | $ 250.00 | Tangent, Horiz, Neutral Low, Neutral Clevis, Pin Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.13P | 1 | Ea. | $ 250.00 | $ 250.00 | Tangent, Horiz, Neutral Low, Neutral Clevis, Post Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.14 | 1 | Ea. | $ 250.00 | $ 250.00 | Tangent, Horiz, Neutral High,Pin Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.14P | 1 | Ea. | $ 250.00 | $ 250.00 | Tangent, Horiz, Neutral High, Post Insulators, Single Arm 8'. | RUS-1728F-804 |
| B2.21 | 1 | Ea. | $ 310.00 | $ 310.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Neutral Spool | RUS-1728F-804 |
| B2.21P | 1 | Ea. | $ 310.00 | $ 310.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Neutral Spool. | RUS-1728F-804 |
| B2.22 | 1 | Ea. | $ 310.00 | $ 310.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Neutral High. | RUS-1728F-804 |
| B2.22P | 1 | Ea. | $ 310.00 | $ 310.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Neutral High. | RUS-1728F-804 |
| B2.24 | 1 | Ea. | $ 310.00 | $ 310.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Neutral Clevis. | RUS-1728F-804 |
| B2.24P | 1 | Ea. | $ 310.00 | $ 310.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Neutral Clevis. | RUS-1728F-804 |
| B3.1 | 1 | Ea. | $ 390.00 | $ 390.00 | Angle, Vertical, Suspension Insulators. | RUS-1728F-804 |
| B4.1G | 1 | Ea. | $ 520.00 | $ 520.00 | Angle, Vertical, Double Dead-End, Suspension Insulators Angle 90-150 Deg | RUS-1728F-804 |
| B5.1 | 1 | Ea. | $ 410.00 | $ 410.00 | Deadend, Single, Vertical, Suspension Insulators | RUS-1728F-804 |
| B5.21 | 1 | Ea. | $ 410.00 | $ 410.00 | Deadend, Single, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |
| B6.21 | 1 | Ea. | $ 850.00 | $ 850.00 | Deadend, Double, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

### PART N - NEW CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| #2 ACSR | 1.000 | /1000 Ft. | $ 2,800.00 | $ 2,800.00 | Primary Overhead Conductor | |
| #4 ACSR | 1.000 | /1000 Ft. | $ 2,800.00 | $ 2,800.00 | Primary Overhead Conductor | |
| 1/0 ACSR | 1.000 | /1000 Ft. | $ 2,800.00 | $ 2,800.00 | Primary Overhead Conductor | |
| 2/0 ACSR | 1.000 | /1000 Ft. | $ 2,950.00 | $ 2,950.00 | Primary Overhead Conductor | |
| 3/0 ACSR | 1.000 | /1000 Ft. | $ 2,950.00 | $ 2,950.00 | Primary Overhead Conductor | |
| 4/0 ACSR | 1.000 | /1000 Ft. | $ 3,200.00 | $ 3,200.00 | Primary Overhead Conductor | |
| 336 ACSR | 1.000 | /1000 Ft. | $ 3,450.00 | $ 3,450.00 | Primary Overhead Conductor | |
| 477 ACSR | 1.000 | /1000 Ft. | $ 3,450.00 | $ 3,450.00 | Primary Overhead Conductor | |
| #2 OH TPX | 1.000 | /1000 Ft. | $ 3,300.00 | $ 3,300.00 | Secondary Overhead Conductor | |
| 1/0 OH TPX | 1.000 | /1000 Ft. | $ 3,300.00 | $ 3,300.00 | Secondary Overhead Conductor | |
| 2/0 OH TPX | 1.000 | /1000 Ft. | $ 3,300.00 | $ 3,300.00 | Secondary Overhead Conductor | |
| 3/0 OH TPX | 1.000 | /1000 Ft. | $ 3,500.00 | $ 3,500.00 | Secondary Overhead Conductor | |
| 4/0 OH TPX | 1.000 | /1000 Ft. | $ 3,550.00 | $ 3,550.00 | Secondary Overhead Conductor | |
| 1/0 OH QUAD | 1.000 | /1000 Ft. | $ 3,500.00 | $ 3,500.00 | Secondary Overhead Conductor | |
| 4/0 OH QUAD | 1.000 | /1000 Ft. | $ 3,800.00 | $ 3,800.00 | Secondary Overhead Conductor | |
| #6 SOLID CU | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #6 DUPLEX | 1 | Lf. | $ 2.50 | $ 2.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #6 ALUM TIE | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #6 CU COATED | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #2 BARE STR | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #4 SOLID CU | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #4 STR CU | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 1/0 STR CU BARE | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 4/0 STR CU BARE | 1 | Lf. | $ 3.50 | $ 3.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 1/0 STR CU COA | 1 | Lf. | $ 3.00 | $ 3.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 4/0 STR CU COA | 1 | Lf. | $ 3.50 | $ 3.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 500 STR AL COA | 1 | Lf. | $ 4.00 | $ 4.00 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 10-12-14 CU | 1 | Lf. | $ 2.00 | $ 2.00 | 10-12-14 Guage Wire, Multi-Color | |
| 10-12-14 CU UF | 1 | Lf. | $ 2.00 | $ 2.00 | 10-12-14 Gauge Wire, Underground Rated | |
| | Total Part N--New Construction (Overhead) | | | $ 115,696.50 | | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART N - NEW CONSTRUCTION ASSEMBLY UNITS UNDERGROUND

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| UA1 | 1 | EA. | $ 900.00 | $ 900.00 | Single Phase riser Terminal Pole | RUS-1728F-806 |
| UB1 | 1 | EA. | $ 1,100.00 | $ 1,100.00 | Two Phase Riser Terminal Pole with Cutouts on Crossarm | RUS-1728F-806 |
| UB2 | 1 | EA. | $ 1,100.00 | $ 1,100.00 | Two Phase Riser Terminal Pole with Cutouts on Alumiform Bracket | RUS-1728F-806 |
| UC1 | 1 | EA. | $ 1,900.00 | $ 1,900.00 | Three Phase Riser Terminal Pole with Cutouts on Crossarm | RUS-1728F-806 |
| UC2 | 1 | EA. | $ 1,900.00 | $ 1,900.00 | Three Phase Riser Terminal Pole with Cutouts on Alumiform Bracket | RUS-1728F-806 |
| UP7.B1 | 1 | EA. | $ 400.00 | $ 400.00 | One Conduit Riser with Stand-Off Brackets Includes: (5) Brackets (40') PVC Conduit, 2,3 or 4" & Backer Plate | RUS-1728F-806 |
| UP7.B3 | 1 | EA. | $ 600.00 | $ 600.00 | Three Conduit Riser with Stand-Off Brackets Includes: (5) Brackets (120') PVC Conduit, 2,3 or 4" & Backer Plate | RUS-1728F-806 |
| UP7.UG | 1 | EA. | $ 75.00 | $ 75.00 | U-Guard (All sizes) | RUS-1728F-806 |
| UF1.BC | 1 | EA. | $ 900.00 | $ 900.00 | Single Phase Transformer Vault 40x40x30, 650 Pounds | RUS-1728F-806 |
| UF1.BC | 1 | EA. | $ 1,100.00 | $ 1,100.00 | Single Phase Junction Cabinet Vault 40x40x36, 1125 Pounds with Concrete Lid 42x47x3, 580 Pounds | RUS-1728F-806 |
| UF1.BC | 1 | EA. | $ 1,300.00 | $ 1,300.00 | Combo Vault, Single Phase Cabinet & Transformer 42x80x36, XXXX Pounds with Concrete Lid 42x80x5, XXXX Pounds | RUS-1728F-806 |
| UF3.BC | 1 | EA. | $ 1,450.00 | $ 1,450.00 | Three Phase Transformer Vault 60x60x36, 2150 Pounds with Concrete Lid 70x70x5, 1500 Pounds | RUS-1728F-806 |
| UF3.BC | 1 | EA. | $ 1,400.00 | $ 1,400.00 | Three Phase Junction Cabinet Vault 38x96x36, 2525 Pounds with Concrete Lid 38x96x5, 1050 Pounds | RUS-1728F-806 |
| UF3.BC | 1 | EA. | $ 2,150.00 | $ 2,150.00 | Combo Vault, Three Phase Cabinet & Transformer 38x132x36, 3750 Pounds with Concrete Lid 38x132x5, 1550 Pounds | RUS-1728F-806 |
| UF3.BC | 1 | EA. | $ 800.00 | $ 800.00 | Three Phase Transformer Concrete Pad 80x90x5, 2300 Pounds | RUS-1728F-806 |
| UG1.XXX | 1 | EA. | $ 450.00 | $ 450.00 | Transformer, Single Phase Padmount 25 to 167 KVA | RUS-1728F-806 |
| UG1.XXX | 1 | EA. | $ 500.00 | $ 500.00 | Transformer, Single Phase Padmount Larger than 167 KVA | RUS-1728F-806 |
| UG3.XXX | 1 | EA. | $ 800.00 | $ 800.00 | Transformer, Three Phase Padmount 25 to 500 KVA | RUS-1728F-806 |
| UG3.XXX | 1 | EA. | $ 1,200.00 | $ 1,200.00 | Transformer, Three Phase Padmount Larger than 500 KVA | RUS-1728F-806 |
| UH1.1 | 1 | EA. | $ 75.00 | $ 75.00 | Ground Rod for Transformers & Enclosures, includes solid or stranded Copper conductor. | RUS-1728F-806 |
| UJ1.01 | 1 | EA. | $ 75.00 | $ 75.00 | Secondary Cable Splice | RUS-1728F-806 |
| UJ2.X | 1 | EA. | $ 75.00 | $ 75.00 | Transformer Connector Blocks (positions vary) | RUS-1728F-806 |
| UJ3.1 | 1 | EA. | $ 140.00 | $ 140.00 | Secondary Splice Pedestal (above grade) | RUS-1728F-806 |
| UJ4.1 | 1 | EA. | $ 310.00 | $ 310.00 | Secondary Splice Vault (below grade) | RUS-1728F-806 |
| UK1.1 | 1 | EA. | $ 420.00 | $ 420.00 | Secondary Cable Riser Assembly (No Meter Base) | RUS-1728F-806 |
| UK4 | 1 | EA. | $ 180.00 | $ 180.00 | Secondary Breaker Box (Under Meter Base) | RUS-1728F-806 |
| UM6.EL2.1/0 | 1 | EA. | $ 90.00 | $ 90.00 | 200A Elbow, Load Break, 1/0 (or smaller) | RUS-1728F-806 |
| UM6.EL2.4/0 | 1 | EA. | $ 90.00 | $ 90.00 | 200A Elbow, Load Break, 4/0 | RUS-1728F-806 |
| UM6.EL6.350 | 1 | EA. | $ 150.00 | $ 150.00 | Elbow, Load Break, 350 | RUS-1728F-806 |
| UM6.EL6.750 | 1 | EA. | $ 175.00 | $ 175.00 | Elbow, Load Break, 750 | RUS-1728F-806 |
| UM6.EL6.1000 | 1 | EA. | $ 200.00 | $ 200.00 | Elbow, Load Break, 1000 | RUS-1728F-806 |
| UM6.FI | 1 | EA. | $ 60.00 | $ 60.00 | Fault Indicators | RUS-1728F-806 |
| UM6.C2 | 1 | EA. | $ 60.00 | $ 60.00 | Protective Cap, 200 Amp | RUS-1728F-806 |
| UM6.C6 | 1 | EA. | $ 60.00 | $ 60.00 | Protective Cap, 600 Amp | RUS-1728F-806 |
| UM6.JN2222 | 1 | EA. | $ 90.00 | $ 90.00 | Multipoint Junction 200 Amp (Three or Four Points) | RUS-1728F-806 |
| UM6.JN6666 | 1 | EA. | $ 120.00 | $ 120.00 | Multipoint Junction 600 Amp (Three or Four Points) | RUS-1728F-806 |
| UM6.T.1/0 | 1 | EA. | $ 90.00 | $ 90.00 | Primary Terminator 1/0 Cable or smaller cable | RUS-1728F-806 |
| UM6.T.4/0 | 1 | EA. | $ 100.00 | $ 100.00 | Primary Terminator 4/0 Cable | RUS-1728F-806 |
| UM6.T.350 | 1 | EA. | $ 150.00 | $ 150.00 | Primary Terminator 350 Cable | RUS-1728F-806 |
| UM6.T.750 | 1 | EA. | $ 175.00 | $ 175.00 | Primary Terminator 750 Cable | RUS-1728F-806 |
| UM6.T.1000 | 1 | EA. | $ 200.00 | $ 200.00 | Primary Terminator 1000 Cable | RUS-1728F-806 |
| UM6.SP.1/0 | 1 | EA. | $ 150.00 | $ 150.00 | Primary Underground Splice 1/0 or smaller cable | RUS-1728F-806 |
| UM6.SP.4/0 | 1 | EA. | $ 180.00 | $ 180.00 | Primary Underground Splice 4/0 | RUS-1728F-806 |
| UM6.SP.350 | 1 | EA. | $ 200.00 | $ 200.00 | Primary Underground Splice 350 | RUS-1728F-806 |
| UM6.SP.750 | 1 | EA. | $ 350.00 | $ 350.00 | Primary Underground Splice 750 | RUS-1728F-806 |
| UM6.SP.1000 | 1 | EA. | $ 450.00 | $ 450.00 | Primary Underground Splice 1000 | RUS-1728F-806 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART N - NEW CONSTRUCTION ASSEMBLY UNITS UNDERGROUND

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| UP7.04.22 | 1 | EA. | $ 80.00 | $ 80.00 | PVC Elbow 2" 3" 4" or 6" 22 Degrees Long or Short Radius | RUS-1728F-806 |
| UP7.04.45 | 1 | EA. | $ 80.00 | $ 80.00 | PVC Elbow 2" 3" 4" or 6" 45 Degrees Long or Short Radius | RUS-1728F-806 |
| UP7.04.90 | 1 | EA. | $ 80.00 | $ 80.00 | PVC Elbow 2" 3" 4" or 6" 90 Degrees Long or Short Radius | RUS-1728F-806 |
| UP7.04.22G | 1 | EA. | $ 150.00 | $ 150.00 | Rigid Galvanized Elbow 2" 3" 4" or 6" 22 Degrees Long or Short Radius | RUS-1728F-806 |
| UP7.04.90G | 1 | EA. | $ 150.00 | $ 150.00 | Rigid Galvanized Elbow 2" 3" 4" or 6" 90 Degrees Long or Short Radius | RUS-1728F-806 |
| UP7.04.45G | 1 | EA. | $ 150.00 | $ 150.00 | Rigid Galvanized Elbow 2" 3" 4" or 6" 45 Degrees Long or Short Radius | RUS-1728F-806 |
| UP8.1P | 1 | LF | $ 1.50 | $ 1.50 | Conduit, 1" PVC or smaller | RUS-1728F-806 |
| UP8.2P | 1 | LF | $ 1.70 | $ 1.70 | Conduit, 2" PVC | RUS-1728F-806 |
| UP8.3P | 1 | LF | $ 1.80 | $ 1.80 | Conduit, 3" PVC | RUS-1728F-806 |
| UP8.4P | 1 | LF | $ 2.00 | $ 2.00 | Conduit, 4" PVC | RUS-1728F-806 |
| UP8.6P | 1 | LF | $ 2.20 | $ 2.20 | Conduit, 6" PVC | RUS-1728F-806 |
| UP8.1G | 1 | LF | $ 3.00 | $ 3.00 | Conduit, 1" Rigid Galvanized or smaller | RUS-1728F-806 |
| UP8.2G | 1 | LF | $ 3.50 | $ 3.50 | Conduit, 2" Rigid Galvanized | RUS-1728F-806 |
| UP8.3G | 1 | LF | $ 3.75 | $ 3.75 | Conduit, 3" Rigid Galvanized | RUS-1728F-806 |
| UP8.4G | 1 | LF | $ 4.50 | $ 4.50 | Conduit, 4" Rigid Galvanized | RUS-1728F-806 |
| UP8.6G | 1 | LF | $ 5.50 | $ 5.50 | Conduit, 6" Rigid Galvanized | RUS-1728F-806 |
| UP8.1POLY | 1 | LF | $ 1.20 | $ 1.20 | Conduit, 1" HDPE or smaller | RUS-1728F-806 |
| UP8.2POLY | 1 | LF | $ 1.50 | $ 1.50 | Conduit, 2" HDPE | RUS-1728F-806 |
| UP8.3POLY | 1 | LF | $ 1.70 | $ 1.70 | Conduit, 3" HDPE | RUS-1728F-806 |
| UP8.4POLY | 1 | LF | $ 1.80 | $ 1.80 | Conduit, 4" HDPE | RUS-1728F-806 |
| UP8.6POLY | 1 | LF | $ 2.00 | $ 2.00 | Conduit, 6" HDPE | RUS-1728F-806 |
| US1.PJ2222 | | EA. | $ 960.00 | $ 960.00 | Junction Cabinet, Single Phase 200 Amp | RUS-1728F-806 |
| US1.PJ6666 | | EA. | $ 960.00 | $ 960.00 | Junction Cabinet, Single Phase 600 Amp | RUS-1728F-806 |
| US3.PJ2222 | | EA. | $ 1,200.00 | $ 1,200.00 | Junction Cabinet, Three Phase 200 Amp | RUS-1728F-806 |
| US3.PJ6666 | | EA. | $ 1,200.00 | $ 1,200.00 | Junction Cabinet, Three Phase 600 Amp | RUS-1728F-806 |
| UM8 | | EA. | $ 450.00 | $ 450.00 | Meter on Building Assembly | |
| UM8-3 | | EA. | $ 675.00 | $ 675.00 | Meter Pedestal Assembly | |
| UM8-9 | | EA. | $ 960.00 | $ 960.00 | Primary Metering Cabinet & Vault | |
| UT1.48.06 | | LF | $ 39.00 | $ 39.00 | Trench 48" Depth. Width 1" to 6" includes Warning Tape | RUS-1728F-806 |
| UT1.48.06 | | LF | $ 52.00 | $ 52.00 | Trench 48" Depth. Width 7" to 12" includes Warning Tape | RUS-1728F-806 |
| TRENCH or BACKHOE ROCK ADDER | | LF | $ 28.00 | $ 28.00 | Excessive large rock contained in trench alignment | |
| UT1B.48.XX | | LF | $ 22.00 | $ 22.00 | Backhoe 48" Depth width varies includes Warning Tape and Backfilling | |
| UT5.48.XX | | LF | $ - | $ - | Plow 48" Depth width varies includes knife track restoration | |
| BORE 1.234.PVC | | LF | $ 49.00 | $ 49.00 | Directional Bore (1) 2" 3" or 4" PVC Pipe | |
| BORE 2.234.PVC | | LF | $ 71.00 | $ 71.00 | Directional Bore (2) 2" 3" or 4" PVC Pipes | |
| BORE 3.234.PVC | | LF | $ 88.00 | $ 88.00 | Directional Bore (3) 2" 3" or 4" PVC Pipes | |
| BORE 4.234.PVC | | LF | $ 99.00 | $ 99.00 | Directional Bore (4) 2" 3" or 4" PVC Pipes | |
| BORE 1.6.PVC | | LF | $ 55.00 | $ 55.00 | Directional Bore (1) 6" PVC Pipe | |
| BORE 2.6.PVC | | LF | $ 82.00 | $ 82.00 | Directional Bore (2) 6" PVC Pipes | |
| BORE 3.6.PVC | | LF | $ 137.00 | $ 137.00 | Directional Bore (3) 6" PVC Pipes | |
| BORE 4.6.PVC | | LF | $ 154.00 | $ 154.00 | Directional Bore (4) 6" PVC Pipes | |
| BORE 1.234.HDPE | | LF | $ 44.00 | $ 44.00 | Directional Bore (1) 2" 3" or 4" HDPE Pipe | |
| BORE 2.234.HDPE | | LF | $ 66.00 | $ 66.00 | Directional Bore (2) 2" 3" or 4" HDPE Pipes | |
| BORE 3.234.HDPE | | LF | $ 82.00 | $ 82.00 | Directional Bore (3) 2" 3" or 4" HDPE Pipes | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART N - NEW CONSTRUCTION ASSEMBLY UNITS UNDERGROUND

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| BORE 4.234.HDPE | | LF | $ 93.00 | $ 93.00 | Directional Bore (4) 2" 3" or 4" HDPE Pipes | |
| BORE 1.6.HDPE | | LF | $ 49.00 | $ 49.00 | Directional Bore (1) 6" HDPE Pipe | |
| BORE 2.6.HDPE | | LF | $ 77.00 | $ 77.00 | Directional Bore (2) 6" HDPE Pipes | |
| BORE 3.6.HDPE | | LF | $ 132.00 | $ 132.00 | Directional Bore (3) 6" HDPE Pipes | |
| BORE 4.6.HDPE | | LF | $ 148.00 | $ 148.00 | Directional Bore (4) 6" HDPE Pipes | |
| BORE ROCK ADDER 1 | | LF | $ 38.00 | $ 38.00 | Directional Bore Diameter 1" to 5" | |
| BORE ROCK ADDER 2 | | LF | $ 55.00 | $ 55.00 | Directional Bore Diameter 6" to 8" | |
| BORE ROCK ADDER 3 | | LF | $ 77.00 | $ 77.00 | Directional Bore Diameter 9" to 12" | |
| ROCK SAW 1 | | LF | $ 46.00 | $ 46.00 | Saw 48" Depth. Width 1" to 6" | |
| ROCK SAW 2 | | LF | $ 66.00 | $ 66.00 | Saw 48" Depth. Width 7" to 12" | |
| POT-HOLING | | EA. | $ 192.00 | $ 192.00 | Unit Price for one Pot-hole location Rock or Soil | |
| POT-HOLING HARD SURFACE | | EA. | $ 300.00 | $ 300.00 | Unit Price for one Pot-hole location Hard Surface | |
| 1/0 PRI URD | 1 | LF | 4.5 | $ 4.50 | Primary Jacketed Cable | |
| 4/0 PRI URD | 1 | LF | 4.5 | $ 4.50 | Primary Jacketed Cable | |
| 350 PRI URD | 1 | LF | 4.8 | $ 4.80 | Primary Jacketed Cable | |
| 750 PRI URD | 1 | LF | 5.8 | $ 5.80 | Primary Jacketed Cable | |
| 1000 PRI URD | 1 | LF | 6 | $ 6.00 | Primary Jacketed Cable | |
| 1/0 URD TPX | 1 | LF | 4.5 | $ 4.50 | Secondary Underground Triplex | |
| 2/0 URD TPX | 1 | LF | 4.5 | $ 4.50 | Secondary Underground Triplex | |
| 3/0 URD TPX | 1 | LF | 4.5 | $ 4.50 | Secondary Underground Triplex | |
| 4/0 URD TPX | 1 | LF | 4.5 | $ 4.50 | Secondary Underground Triplex | |
| 350 URD TPX | 1 | LF | 4.8 | $ 4.80 | Secondary Underground Triplex | |
| 500 URD TPX | 1 | LF | 5 | $ 5.00 | Secondary Underground Triplex | |
| Total Part N--New Construction (Underground) | | | | $ 33,967.05 | | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

### PART TRANSFER - TRANSFER UNITS

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| TR-JU-COIL | 1 | EA. | $ 250.00 | $ 250.00 | Transfer of Communications Coil Rack from old pole to new pole | |
| TR-JU-HDWR | 1 | EA. | $ 80.00 | $ 80.00 | Transfer of Communications pole attachment hardware from old pole to new pole | |
| TR-JU-RSR | 1 | EA. | $ 250.00 | $ 250.00 | Transfer of Communications Riser Conduit(s) | X |
| TR-JU-GUY | 1 | EA. | $ 100.00 | $ 100.00 | Transfer of Communications Guy Wire (Down or Overhead) | X |
| TR-JU-PRI-1PH | 1 | EA. | $ 190.00 | $ 190.00 | Transfer of Foreign Utility Primary Conductor Single-Phase | X |
| TR-JU-PRI-MP | 1 | EA. | $ 400.00 | $ 400.00 | Transfer of Foreign Utility Primary Conductor Multi-Phase | X |
| TR-JU-SEC | 1 | EA. | $ 190.00 | $ 190.00 | Transfer of Foreign Utility Secondary Conductor Single or Muti-Phase | X |
| TR-LIGHT | 1 | EA. | $ 90.00 | $ 90.00 | Transfer of Street or Highway lighting fixture from old pole to new pole. | X |
| TR-Q2.2G | 1 | EA. | $ 600.00 | $ 600.00 | Transfer Single Phase Meter Assembly on Pole or Structure | RUS-1728F-804 |
| TR-Q3.1 | 1 | EA. | $ 600.00 | $ 600.00 | Transfer Three Phase Meter Assembly on Pole | RUS-1728F-804 |
| TR-Q4.1 | 1 | EA. | $ 700.00 | $ 700.00 | Transfer Primary Metering Assembly on Pole | RUS-1728F-804 |
| TR-G1.2 | 1 | EA. | $ 410.00 | $ 410.00 | Transfer Single Phase CSP Transformer | RUS-1728F-804 |
| TR-G1.4 | 1 | EA. | $ 410.00 | $ 410.00 | Transfer Single Phase Conventional Transformer | RUS-1728F-804 |
| TR-G2.1 | 1 | EA. | $ 1,200.00 | $ 1,200.00 | Transfer Two Phase Transformer Bank | RUS-1728F-804 |
| TR-G3.1 TR-G3.2 TR-G3.3 | 1 | EA. | $ 1,600.00 | $ 1,600.00 | Transfer Three Phase Transformer Bank | RUS-1728F-804 |
| TR-S2.32 | 1 | EA. | $ 1,800.00 | $ 1,800.00 | Transfer GOAB Switch (Hog Switch) from old pole to new pole | RUS-1728F-804 |
| TR-S2.31 | 1 | EA. | $ 550.00 | $ 550.00 | Transfer Disconnect Switches, Three Phase, Crossarm Mounted from old pole to new pole | RUS-1728F-804 |
| TR-S1.01 | 1 | EA. | $ 180.00 | $ 180.00 | Transfer Cut-Out, Pole or Crossarm Mounted, Each Cut-Out | RUS-1728F-804 |
| | | | Total Part T--Transfer | $ 9,600.00 | | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART R - REMOVAL CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| Wood Pole 30 | 1 | Ea. | $ 620.00 | $ 620.00 | | |
| Wood Pole 35 | 1 | Ea. | $ 620.00 | $ 620.00 | | |
| Wood Pole 40 | 1 | Ea. | $ 700.00 | $ 700.00 | | |
| Wood Pole 45 | 1 | Ea. | $ 700.00 | $ 700.00 | | |
| Wood Pole 50 | 1 | Ea. | $ 770.00 | $ 770.00 | | |
| Wood Pole 55 | 1 | Ea. | $ 800.00 | $ 800.00 | | |
| Wood Pole 60+ | 1 | Ea. | $ 850.00 | $ 850.00 | | |
| Steel Pole 30 | 1 | Ea. | $ 620.00 | $ 620.00 | | |
| Steel Pole 35 | 1 | Ea. | $ 620.00 | $ 620.00 | | |
| Steel Pole 40 | 1 | Ea. | $ 700.00 | $ 700.00 | | |
| Steel Pole 45 | 1 | Ea. | $ 700.00 | $ 700.00 | | |
| Steel Pole 50 | 1 | Ea. | $ 770.00 | $ 770.00 | | |
| Steel Pole 55 | 1 | Ea. | $ 800.00 | $ 800.00 | | |
| Steel Pole 60+ | 1 | Ea. | $ 850.00 | $ 850.00 | | |
| H4.1 | 1 | Ea. | $ 50.00 | $ 50.00 | Ground Rod for Airbreak Switch Platform Type | RUS-1728F-804 |
| E1.1 | 1 | Ea. | $ 90.00 | $ 90.00 | 3/8" Guy Wire, 4" Washer, 5200lb Attachment | RUS-1728F-804 |
| E1.1L | 1 | Ea. | $ 90.00 | $ 90.00 | 7/16" Guy Wire, 4" Washer, 8500lb Attachment | RUS-1728F-804 |
| E1.3L | 1 | Ea. | $ 135.00 | $ 135.00 | Pole Band (Large Conductors) | RUS-1728F-804 |
| E1.4 | 1 | Ea. | $ 135.00 | $ 135.00 | Overhead Guy, 4" Washers, 6600lbs | RUS-1728F-804 |
| E1.4L | 1 | Ea. | $ 135.00 | $ 135.00 | Overhead Guy, 4" Washers (Heavy Duty) 8500lbs | RUS-1728F-804 |
| E1.5 | 1 | Ea. | $ 50.00 | $ 50.00 | Guy Strain Insulator (Lengths Vary) | RUS-1728F-804 |
| F1.8 | 1 | Ea. | $ 130.00 | $ 130.00 | Bust Anchor 8" | RUS-1728F-804 |
| F1.12 | 1 | Ea. | $ 130.00 | $ 130.00 | Bust Anchor 12" | RUS-1728F-804 |
| F2.8 | 1 | Ea. | $ 130.00 | $ 130.00 | Screw Anchor 8" | RUS-1728F-804 |
| F2.12 | 1 | Ea. | $ 130.00 | $ 130.00 | Screw Anchor 12" | RUS-1728F-804 |
| F5.1 | 1 | Ea. | $ 145.00 | $ 145.00 | Rock Anchor | RUS-1728F-804 |
| A1.1 | 1 | Ea. | $ 120.00 | $ 120.00 | Tangent, Vertical Construction, Pin Insulator | RUS-1728F-804 |
| A1.1P | 1 | Ea. | $ 120.00 | $ 120.00 | Tangent, Vertical Construction, Post Insulator, Max Angle 5 Deg, 2 Deg 1/0 Greater | RUS-1728F-804 |
| A2.1 | 1 | Ea. | $ 120.00 | $ 120.00 | Tangent, Vertical Construction, Double Support, Pin Insulator, Max Angle 5 Deg, 2 Deg 1/0 Greater | RUS-1728F-804 |
| A2.1P | 1 | Ea. | $ 120.00 | $ 120.00 | Tangent, Vertical Construction, Double Support, Post Insulator, Max Angle 5 Deg, 2 Deg 1/0 Greater | RUS-1728F-804 |
| A2.3 | 1 | Ea. | $ 120.00 | $ 120.00 | Angle, Vertical Construction, Double Support, Pin Insulators, Max Angle 13 Deg, 1/0 ACSR | RUS-1728F-804 |
| A2.3P | 1 | Ea. | $ 120.00 | $ 120.00 | Angle, Vertical Construction, Double Support, Post Insulators, Max Angle 13 Deg, 1/0 ACSR | RUS-1728F-804 |
| A3.1 | 1 | Ea. | $ 150.00 | $ 150.00 | Angle, Vertical Construction, Suspension Insulators, Max Angle 20 to 60 Deg, 1/0 & Greater | RUS-1728F-804 |
| A4.1 | 1 | Ea. | $ 210.00 | $ 210.00 | Angle, Vertical Construction, Double Dead-End, Max Angle 90 to 150 Deg. | RUS-1728F-804 |
| A5.1 | 1 | Ea. | $ 150.00 | $ 150.00 | Single Deadend, Vertical Construction | RUS-1728F-804 |
| A5.2 A5.3 | 1 | Ea. | $ 160.00 | $ 160.00 | Single Deadend, Vertical Construction with Extension (for Tap) | RUS-1728F-804 |
| A6.1 | 1 | Ea. | $ 210.00 | $ 210.00 | Double Deadend, Vertical Construction | RUS-1728F-804 |
| A6.2 | 1 | Ea. | $ 210.00 | $ 210.00 | Double Deadend, Vertical Construction (with Pole Top Pin Jumper) | RUS-1728F-804 |
| A5.21 | 1 | Ea. | $ 170.00 | $ 170.00 | Single Deadend, Horizontal Construction | RUS-1728F-804 |
| A6.21 | 1 | Ea. | $ 180.00 | $ 180.00 | Double Deadend, Horizontal Construction | RUS-1728F-804 |
| A2.21 | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horizontal, Neutral High, Pin Insulator, Double Support, Max Angle 22 Deg 1/0 ACSR | RUS-1728F-804 |
| A2.21P | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horizontal, Neutral High, Post Insulator, Double Support, Max Angle 22 Deg 1/0 ACSR | RUS-1728F-804 |
| A1.11 | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horizontal, Neutral High, Pin Insulator, Max Angle 9 Deg 1/0 ACSR | RUS-1728F-804 |
| A1.11P | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horizontal, Neutral High, Post Insulator, Max Angle 9 Deg 1/0 ACSR | RUS-1728F-804 |
| C1.11 | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral Low, Pin Insulators, Single Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |
| C2.24 | 1 | Ea. | $ 220.00 | $ 220.00 | Tangent, Horizontal, Neutral Low, Pin Insulators, Double Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |
| C2.24P | 1 | Ea. | $ 220.00 | $ 220.00 | Tangent, Horizontal, Neutral Low, Post Insulators, Double Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART R - REMOVAL CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| C1.11P | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral Low, Post Insulators, Single Arm 8', Max Angle 5 Deg 1/0 & Smaller, 2 Deg Larger than 1/0 | RUS-1728F-804 |
| C1.11L | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral Low, Pin Insulators, Single Arm 8', Large Conductors, Max Angle 2 Deg | RUS-1728F-804 |
| C2.21L | 1 | Ea. | $ 220.00 | $ 220.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Large Conductors, Max Angle 7 Deg 336 ACSR | RUS-1728F-804 |
| C2.21P | 1 | Ea. | $ 220.00 | $ 220.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C2.21 | 1 | Ea. | $ 220.00 | $ 220.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Max Angle 21 Deg #2 ACSR | RUS-1728F-804 |
| C2.52 | 1 | Ea. | $ 220.00 | $ 220.00 | Angle, Horizontal, Double Support, Double Arm 10', Pin Insulators, Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C2.52L | 1 | Ea. | $ 220.00 | $ 220.00 | Angle, Horizontal, Double Support, Double Arm 10', Large Conductor, Pin Insulators, Max Angle 22 Deg #336 ACSR | RUS-1728F-804 |
| C2.52P | 1 | Ea. | $ 220.00 | $ 220.00 | Angle, Horizontal, Double Support, Double Arm 10', Large Conductor, Post Insulators, Max Angle 16 Deg #336 ACSR | RUS-1728F-804 |
| C3.1 | 1 | Ea. | $ 240.00 | $ 240.00 | Angle, Vertical, Suspension Insulators, Max Angle 30 to 60 Deg, 1/0 & Smaller, 20 to 60 Deg 1/0 & Larger | RUS-1728F-804 |
| C3.1L | 1 | Ea. | $ 240.00 | $ 240.00 | Angle, Vertical, Suspension Insulators, Large Conductor, Max Angle 10 to 30 Deg | RUS-1728F-804 |
| C4.1G C4.2G | 1 | Ea. | $ 310.00 | $ 310.00 | Angle, Vertical, Double Dead-End, Suspension Insulators Angle 90-150 Deg (C4.2G 15-90 Deg) | RUS-1728F-804 |
| C5.1 | 1 | Ea. | $ 250.00 | $ 250.00 | Deadend, Single, Vertical, Suspension Insulators | RUS-1728F-804 |
| C5.21 C5.21L | 1 | Ea. | $ 350.00 | $ 350.00 | Deadend, Single, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |
| C5.71L | 1 | Ea. | $ 250.00 | $ 250.00 | Deadend, Single, Horizontal, Neutral Low, Single 8' OR 10' Arm HD Fiberglass | RUS-1728F-804 |
| C6.21 C6.21L | 1 | Ea. | $ 380.00 | $ 380.00 | Deadend, Double, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |
| C6.52 | 1 | Ea. | $ 380.00 | $ 380.00 | Deadend, Double, Horizontal, Double 10' Arm Wood ( or 1 HD Fiberglass ) | RUS-1728F-804 |
| C2.51 | 1 | Ea. | $ 220.00 | $ 220.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Double Arms 10', Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C1.41 | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Max Angle 14 Deg #2 ACSR | RUS-1728F-804 |
| C2.51L | 1 | Ea. | $ 220.00 | $ 220.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Large Conductor, Double Arms 10', Max Angle 16 Deg 336 ACSR | RUS-1728F-804 |
| C2.51P | 1 | Ea. | $ 220.00 | $ 220.00 | Tangent, Horizontal, Neutral High, Post Insulators, Double Arms 10', Max Angle 34 Deg #2 ACSR | RUS-1728F-804 |
| C1.41P | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral High, Post Insulators, Max Angle 14 Deg #2 ACSR | RUS-1728F-804 |
| C1.41L | 1 | Ea. | $ 190.00 | $ 190.00 | Tangent, Horizontal, Neutral High, Pin Insulators, Large Conductors, Max Angle 13 Deg 1/0 ACSR | RUS-1728F-804 |
| G1.2 | 1 | Ea. | $ 180.00 | $ 180.00 | Single Phase CSP Transformer | RUS-1728F-804 |
| G1.4 | 1 | Ea. | $ 180.00 | $ 180.00 | Single Phase Conventional Transformer | RUS-1728F-804 |
| G2.1 | 1 | Ea. | $ 450.00 | $ 450.00 | Two Phase Transformer Bank | RUS-1728F-804 |
| G3.1 G3.2 G3.3 | 1 | Ea. | $ 750.00 | $ 750.00 | Three Phase Transformer Bank | RUS-1728F-804 |
| K2.1 | 1 | Ea. | $ 50.00 | $ 50.00 | House Knob | RUS-1728F-804 |
| K1.1 | 1 | Ea. | $ 50.00 | $ 50.00 | Clevis & Spool Bracket with Through bolt | RUS-1728F-804 |
| K3.2 | 1 | Ea. | $ 50.00 | $ 50.00 | Service Mast | RUS-1728F-804 |
| A1.01 | 1 | Ea. | $ 80.00 | $ 80.00 | Pole Top Pin & Pin Insulator | RUS-1728F-804 |
| A1.01P | 1 | Ea. | $ 80.00 | $ 80.00 | Pole Top Pin & Post Insulator | RUS-1728F-804 |
| A1.011 | 1 | Ea. | $ 80.00 | $ 80.00 | Pin Insulator | RUS-1728F-804 |
| A1.011P | 1 | Ea. | $ 80.00 | $ 80.00 | Post Insulator | RUS-1728F-804 |
| A5.01 | 1 | Ea. | $ 80.00 | $ 80.00 | Suspension Insulator | RUS-1728F-804 |
| N1.1 | 1 | Ea. | $ 50.00 | $ 50.00 | Neutral Spool with Single Upset Bolt | RUS-1728F-804 |
| N1.11 | 1 | Ea. | $ 50.00 | $ 50.00 | Insulator & Pin (on Crossarm) | RUS-1728F-804 |
| N2.1 | 1 | Ea. | $ 50.00 | $ 50.00 | Neutral Spool & Clevis | RUS-1728F-804 |
| N5.1 | 1 | Ea. | $ 50.00 | $ 50.00 | Neutral Deadend Eyebolt | RUS-1728F-804 |
| N5.2 | 1 | Ea. | $ 50.00 | $ 50.00 | Neutral Deadend Eyebolt & Swinging Clevis | RUS-1728F-804 |
| N5.3 | 1 | Ea. | $ 50.00 | $ 50.00 | Neutral Deadend Eyebolt & Suspension Insulator | RUS-1728F-804 |
| N6.1 | 1 | Ea. | $ 50.00 | $ 50.00 | Neutral Double Deadend (D.A. Bolt & 2 Eyenuts) | RUS-1728F-804 |
| N6.21 | 1 | Ea. | $ 50.00 | $ 50.00 | Neutral Double Deadend (D.A. Bolt & 2 Eyenuts) on Crossarm | RUS-1728F-804 |
| M5-14 | 1 | Ea. | $ 120.00 | $ 120.00 | Crossarm 8' Wood or Fiberglass | RUS-1728F-804 |
| M5-16 | 1 | Ea. | $ 120.00 | $ 120.00 | Crossarm 10' Wood or Fiberglass | RUS-1728F-804 |
| W3.1 | 1 | Ea. | $ 50.00 | $ 50.00 | Crossarm Brace 28" | RUS-1728F-804 |
| W3.2 | 1 | Ea. | $ 50.00 | $ 50.00 | Crossarm Brace 60" | RUS-1728F-804 |
| S1.01 | 1 | Ea. | $ 80.00 | $ 80.00 | Cutout (Crossarm Mounted) | RUS-1728F-804 |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART R - REMOVAL CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| S1.02 | 1 | Ea. | $ 80.00 | $ 80.00 | Cutout & Arrester Combination (Crossarm Mounted) | RUS-1728F-804 |
| S1.1 | 1 | Ea. | $ 80.00 | $ 80.00 | Cutout with Extension Bracket | RUS-1728F-804 |
| S1.3 | 1 | Ea. | $ 120.00 | $ 120.00 | Cutouts (3) Single Phase Cross-Arm Mounted | RUS-1728F-804 |
| S2.31 | 1 | Ea. | $ 120.00 | $ 120.00 | Disconnect Switch, Crossarm Mounted | RUS-1728F-804 |
| S2.32 | 1 | Ea. | $ 900.00 | $ 900.00 | Group Operated Airbrake Switch (GOAB) - Hog Switch | RUS-1728F-804 |
| S3.2 | 1 | Ea. | $ 210.00 | $ 210.00 | Sectionalizer - OCR with Cut-Out | RUS-1728F-804 |
| P1.01 | 1 | Ea. | $ 60.00 | $ 60.00 | Surge Arrestor Single Phase | RUS-1728F-804 |
| Y1.1 | 1 | Ea. | $ 450.00 | $ 450.00 | Voltage Regulator, Single Phase | RUS-1728F-804 |
| Y1.3 | 1 | Ea. | $ 1,800.00 | $ 1,800.00 | Voltage regulator, Three Phase, Platform Mounted | RUS-1728F-804 |
| Y3.1 | 1 | Ea. | $ 130.00 | $ 130.00 | Capacitor Assembly Single Phase | RUS-1728F-804 |
| Y3.2 | 1 | Ea. | $ 280.00 | $ 280.00 | Capacitor Assembly Three Phase | RUS-1728F-804 |
| BARE 3-WIRE | 1.000 | /1000 Ft. | $ 1,800.00 | $ 1,800.00 | | |
| Q2.2G | 1 | Ea. | $ 220.00 | $ 220.00 | Single Phase Meter Assembly on Pole or Structure | RUS-1728F-804 |
| Q3.1 | 1 | Ea. | $ 280.00 | $ 280.00 | Three Phase Meter Assembly on Pole | RUS-1728F-804 |
| Q4.1 | 1 | Ea. | $ 280.00 | $ 280.00 | Primary Metering Assembly on Pole | RUS-1728F-804 |
| U01.COB | 1 | Ea. | $ 60.00 | $ 60.00 | Street Light COBRA HEAD, Pole Mount OR equivalent (Intersection or Highway Lighting) | |
| U01.DEC | 1 | Ea. | $ 60.00 | $ 60.00 | Street Light on Galvanized Steel Pole | |
| U01.HPS | 1 | Ea. | $ 60.00 | $ 60.00 | Security Light HPS, Pole Mount (Retirement unit only) | |
| U01.LED | 1 | Ea. | $ 60.00 | $ 60.00 | Security Light LED, Pole Mount | |
| COM-TAN | 1 | Ea. | $ 60.00 | $ 60.00 | Communications Tangent Assembly | |
| COM-ANG | 1 | Ea. | $ 60.00 | $ 60.00 | Communications Angle Assembly | |
| COM-DE | 1 | Ea. | $ 90.00 | $ 90.00 | Communications Dead-End Assembly | |
| COM-LOOP | 1 | Ea. | $ 90.00 | $ 90.00 | Communications Splice Box or Storage Loop Assembly | |
| COM-SNGL | 1.000 | /1000 Ft. | $ 1,300.00 | $ 1,300.00 | Communications Cable 1 cable self-supporting or 1 cable and 1 messenger. | |
| COM-MULTI | 1.000 | /1000 Ft. | $ 1,500.00 | $ 1,500.00 | Communications Cable Multiple Cables including Messenger | |
| B1.11 | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horiz, Neutral Low, Neutral Spool, Pin Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.11P | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horiz, Neutral Low, Neutral Spool, Post Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.13 | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horiz, Neutral Low, Neutral Clevis, Pin Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.13P | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horiz, Neutral Low, Neutral Clevis, Post Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.14 | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horiz, Neutral High,Pin Insulators, Single Arm 8'. | RUS-1728F-804 |
| B1.14P | 1 | Ea. | $ 140.00 | $ 140.00 | Tangent, Horiz, Neutral High, Post Insulators, Single Arm 8'. | RUS-1728F-804 |
| B2.21 | 1 | Ea. | $ 160.00 | $ 160.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Neutral Spool | RUS-1728F-804 |
| B2.21P | 1 | Ea. | $ 160.00 | $ 160.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Neutral Spool. | RUS-1728F-804 |
| B2.22 | 1 | Ea. | $ 160.00 | $ 160.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Neutral High. | RUS-1728F-804 |
| B2.22P | 1 | Ea. | $ 160.00 | $ 160.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Neutral High. | RUS-1728F-804 |
| B2.24 | 1 | Ea. | $ 160.00 | $ 160.00 | Angle, Horizontal, Double Support, Single Arm 8', Pin Insulators, Neutral Clevis. | RUS-1728F-804 |
| B2.24P | 1 | Ea. | $ 160.00 | $ 160.00 | Angle, Horizontal, Double Support, Single Arm 8', Post Insulators, Neutral Clevis. | RUS-1728F-804 |
| B3.1 | 1 | Ea. | $ 165.00 | $ 165.00 | Angle, Vertical, Suspension Insulators. | RUS-1728F-804 |
| B4.1G | 1 | Ea. | $ 190.00 | $ 190.00 | Angle, Vertical, Double Dead-End, Suspension Insulators Angle 90-150 Deg | RUS-1728F-804 |
| B5.1 | 1 | Ea. | $ 190.00 | $ 190.00 | Deadend, Single, Vertical, Suspension Insulators | RUS-1728F-804 |
| B5.21 | 1 | Ea. | $ 190.00 | $ 190.00 | Deadend, Single, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |
| B6.21 | 1 | Ea. | $ 250.00 | $ 250.00 | Deadend, Double, Horizontal, Neutral Low, Double 8' Arm Wood | RUS-1728F-804 |
| #2 ACSR | 1.000 | /1000 Ft. | $ 2,050.00 | $ 2,050.00 | Primary Overhead Conductor | |
| #4 ACSR | 1.000 | /1000 Ft. | $ 2,050.00 | $ 2,050.00 | Primary Overhead Conductor | |
| 1/0 ACSR | 1.000 | /1000 Ft. | $ 2,050.00 | $ 2,050.00 | Primary Overhead Conductor | |
| 2/0 ACSR | 1.000 | /1000 Ft. | $ 2,050.00 | $ 2,050.00 | Primary Overhead Conductor | |
| 3/0 ACSR | 1.000 | /1000 Ft. | $ 2,100.00 | $ 2,100.00 | Primary Overhead Conductor | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

### PART R - REMOVAL CONSTRUCTION ASSEMBLY UNITS OVERHEAD

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| 4/0 ACSR | 1.000 | /1000 Ft. | $ 2,100.00 | $ 2,100.00 | Primary Overhead Conductor | |
| 336 ACSR | 1.000 | /1000 Ft. | $ 2,180.00 | $ 2,180.00 | Primary Overhead Conductor | |
| 477 ACSR | 1.000 | /1000 Ft. | $ 2,200.00 | $ 2,200.00 | Primary Overhead Conductor | |
| #2 OH TPX | 1.000 | /1000 Ft. | $ 1,500.00 | $ 1,500.00 | Secondary Overhead Conductor | |
| 1/0 OH TPX | 1.000 | /1000 Ft. | $ 1,500.00 | $ 1,500.00 | Secondary Overhead Conductor | |
| 2/0 OH TPX | 1.000 | /1000 Ft. | $ 1,500.00 | $ 1,500.00 | Secondary Overhead Conductor | |
| 3/0 OH TPX | 1.000 | /1000 Ft. | $ 1,500.00 | $ 1,500.00 | Secondary Overhead Conductor | |
| 4/0 OH TPX | 1.000 | /1000 Ft. | $ 1,550.00 | $ 1,550.00 | Secondary Overhead Conductor | |
| 1/0 OH QUAD | 1.000 | /1000 Ft. | $ 1,500.00 | $ 1,500.00 | Secondary Overhead Conductor | |
| 4/0 OH QUAD | 1.000 | /1000 Ft. | $ 1,600.00 | $ 1,600.00 | Secondary Overhead Conductor | |
| #6 SOLID CU | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #6 DUPLEX | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #6 ALUM TIE | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #6 CU COATED | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #2 BARE STR | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #4 SOLID CU | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| #4 STR CU | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 1/0 STR CU BARE | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 4/0 STR CU BARE | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 1/0 STR CU COA | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 4/0 STR CU COA | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 500 STR AL COAT | 1 | Lf. | $ 1.50 | $ 1.50 | Misc Secondary Wire (Tie, Ground, Jumpers, Metering) | |
| 10-12-14 CU | 1 | Lf. | $ 1.50 | $ 1.50 | 10-12-14 Guage Wire, Multi-Color | |
| 10-12-14 CU UF | 1 | Lf. | $ 1.50 | $ 1.50 | 10-12-14 Gauge Wire, Underground Rated | |
| Total Part R--Removal Construction (Overhead) | | | | $ 63,466.00 | | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART R - REMOVAL CONSTRUCTION ASSEMBLY UNITS UNDERGROUND

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| UA1 | 1 | EA. | $ 300.00 | $ 300.00 | Single Phase Riser Terminal Pole | RUS-1728F-806 |
| UB1 | 1 | EA. | $ 350.00 | $ 350.00 | Two Phase Riser Terminal Pole with Cutouts on Crossarm | RUS-1728F-806 |
| UB2 | 1 | EA. | $ 350.00 | $ 350.00 | Two Phase Riser Terminal Pole with Cutouts on Alumiform Bracket | RUS-1728F-806 |
| UC1 | 1 | EA. | $ 450.00 | $ 450.00 | Three Phase Riser Terminal Pole with Cutouts on Crossarm | RUS-1728F-806 |
| UC2 | 1 | EA. | $ 450.00 | $ 450.00 | Three Phase Riser Terminal Pole with Cutouts on Alumiform Bracket | RUS-1728F-806 |
| UP7.B1 | 1 | EA. | $ 220.00 | $ 220.00 | One Conduit Riser with Stand-Off Brackets Includes: (5) Brackets (40') PVC Conduit, 2,3 or 4" & Backer Plate | RUS-1728F-806 |
| UP7.B3 | 1 | EA. | $ 310.00 | $ 310.00 | Three Conduit Riser with Stand-Off Brackets Includes: (5) Brackets (120') PVC Conduit, 2,3 or 4" & Backer Plate | RUS-1728F-806 |
| UG1.XXX | 1 | EA. | $ 320.00 | $ 320.00 | Transformer, Single Phase Padmount 25 to 167 KVA | RUS-1728F-806 |
| UG1.XXX | 1 | EA. | $ 320.00 | $ 320.00 | Transformer, Single Phase Padmount Larger than 167 KVA | RUS-1728F-806 |
| UG3.XXX | 1 | EA. | $ 500.00 | $ 500.00 | Transformer, Three Phase Padmount 25 to 500 KVA | RUS-1728F-806 |
| UG3.XXX | 1 | EA. | $ 750.00 | $ 750.00 | Transformer, Three Phase Padmount Larger than 500 KVA | RUS-1728F-806 |
| UJ2.X | 1 | EA. | $ 50.00 | $ 50.00 | Transformer Connector Blocks (positions vary) | RUS-1728F-806 |
| UJ3.1 | 1 | EA. | $ 90.00 | $ 90.00 | Secondary Splice Pedestal (above grade) | RUS-1728F-806 |
| UJ4.1 | 1 | EA. | $ 150.00 | $ 150.00 | Secondary Splice Vault (below grade) | RUS-1728F-806 |
| UK1.1 | 1 | EA. | $ 220.00 | $ 220.00 | Secondary Cable Riser Assembly (No Meter Base) | RUS-1728F-806 |
| UK4 | 1 | EA. | $ 90.00 | $ 90.00 | Secondary Breaker Box (Under Meter Base) | RUS-1728F-806 |
| UM6.EL2.1/0 | 1 | EA. | $ 50.00 | $ 50.00 | Elbow, Load Break, 1/0 (or smaller) | RUS-1728F-806 |
| UM6.EL2.4/0 | 1 | EA. | $ 50.00 | $ 50.00 | Elbow, Load Break, 4/0 | RUS-1728F-806 |
| UM6.EL6.350 | 1 | EA. | $ 60.00 | $ 60.00 | Elbow, Load Break, 350 | RUS-1728F-806 |
| UM6.EL6.750 | 1 | EA. | $ 70.00 | $ 70.00 | Elbow, Load Break, 750 | RUS-1728F-806 |
| UM6.EL6.1000 | 1 | EA. | $ 90.00 | $ 90.00 | Elbow, Load Break, 1000 | RUS-1728F-806 |
| UM6.FI | 1 | EA. | $ 50.00 | $ 50.00 | Fault Indicators | RUS-1728F-806 |
| UM6.C2 | 1 | EA. | $ 50.00 | $ 50.00 | Protective Cap, 200 Amp | RUS-1728F-806 |
| UM6.C6 | 1 | EA. | $ 50.00 | $ 50.00 | Protective Cap, 600 Amp | RUS-1728F-806 |
| UM6.JN2222 | 1 | EA. | $ 60.00 | $ 60.00 | Multipoint Junction 200 Amp (Three or Four Points) | RUS-1728F-806 |
| UM6.JN6666 | 1 | EA. | $ 60.00 | $ 60.00 | Multipoint Junction 600 Amp (Three or Four Points) | RUS-1728F-806 |
| UM6.T.1/0 | 1 | EA. | $ 50.00 | $ 50.00 | Primary Terminator 1/0 Cable or smaller cable | RUS-1728F-806 |
| UM6.T.4/0 | 1 | EA. | $ 50.00 | $ 50.00 | Primary Terminator 4/0 Cable | RUS-1728F-806 |
| UM6.T.350 | 1 | EA. | $ 50.00 | $ 50.00 | Primary Terminator 350 Cable | RUS-1728F-806 |
| UM6.T.750 | 1 | EA. | $ 60.00 | $ 60.00 | Primary Terminator 750 Cable | RUS-1728F-806 |
| UM6.T.1000 | 1 | EA. | $ 70.00 | $ 70.00 | Primary Terminator 1000 Cable | RUS-1728F-806 |
| US1.PJ2222 | 1 | EA. | $ 280.00 | $ 280.00 | Junction Cabinet, Single Phase 200 Amp | RUS-1728F-806 |
| US1.PJ6666 | 1 | EA. | $ 300.00 | $ 300.00 | Junction Cabinet, Single Phase 600 Amp | RUS-1728F-806 |
| US3.PJ2222 | 1 | EA. | $ 350.00 | $ 350.00 | Junction Cabinet, Three Phase 200 Amp | RUS-1728F-806 |
| US3.PJ6666 | 1 | EA. | $ 380.00 | $ 380.00 | Junction Cabinet, Three Phase 600 Amp | RUS-1728F-806 |
| UM8 | 1 | EA. | $ 150.00 | $ 150.00 | Meter on Building Assembly | |
| UM8-3 | 1 | EA. | $ 150.00 | $ 150.00 | Meter Pedestal Assembly | |
| UM8-9 | 1 | EA. | $ 200.00 | $ 200.00 | Primary Metering Cabinet & Vault | |
| 1/0 PRI URD | 1 | LF | 2.5 | $ 2.50 | Primary Jacketed Cable | |
| 4/0 PRI URD | 1 | LF | 2.7 | $ 2.70 | Primary Jacketed Cable | |
| 350 PRI URD | 1 | LF | 2.8 | $ 2.80 | Primary Jacketed Cable | |
| 750 PRI URD | 1 | LF | 3.4 | $ 3.40 | Primary Jacketed Cable | |
| 1000 PRI URD | 1 | LF | 3.9 | $ 3.90 | Primary Jacketed Cable | |
| 1/0 URD TPX | 1 | LF | 2 | $ 2.00 | Secondary Underground Triplex | |
| 2/0 URD TPX | 1 | LF | 2 | $ 2.00 | Secondary Underground Triplex | |
| 3/0 URD TPX | 1 | LF | 2 | $ 2.00 | Secondary Underground Triplex | |

## DISTRIBUTION CONSTRUCTION ASSEMBLY UNITS - LINE CHANGES

## PART R - REMOVAL CONSTRUCTION ASSEMBLY UNITS UNDERGROUND

| UNIT NO. | NO OF UNITS | UNIT | UNIT PRICE | EXTENDED PRICE | DESCRIPTION | DWG REFERENCE |
|---|---|---|---|---|---|---|
| 4/0 URD TPX | 1 | LF | 2 | $ 2.00 | Secondary Underground Triplex | |
| 350 URD TPX | 1 | LF | 2.2 | $ 2.20 | Secondary Underground Triplex | |
| 500 URD TPX | 1 | LF | 2.4 | $ 2.40 | Secondary Underground Triplex | |
| Total Part R--Removal Construction (Underground) | | | | $ 7,627.90 | | |

## PROPOSAL SUMMARY

Recapitulation of Proposal

| | | |
|---|---|---|
| Part N (Overhead) | ..... | $ 115,696.50 |
| Part N (Underground) | ..... | $ 33,967.05 |
| Part Transfer | ..... | $ 9,600.00 |
| Part R (Overhead) | ..... | $ 63,466.00 |
| Part R (Underground) | ..... | $ 7,627.90 |

**Total Proposal** **$ 230,357.45**

Supplemental (Parts L & M)

| | | |
|---|---|---|
| Part L | ..... | $ 3,546.59 |
| Part M | ..... | $ 1,081.90 |

# Exhibit B

# SUPPLEMENTAL TERMS AND CONDITIONS

## SUPPLEMENTAL TERMS AND CONDITIONS

The following instructions, conditions and supplemental requirements amend and add to the Plans and Specifications as listed.

1. Poles, equipment and all other material removed will not be left on public or private property for any extended time. Clean up of these items shall be done on a daily basis. Poles may be left at the site for a few days provided that they are left where they will not obstruct or be a hazard to public or private operation. At no time will poles be left more than five (5) working days

2. All material removed under the contract shall be accounted for and returned to the Owner's warehouse. Any material used or lost by the Contractor will be charged to the Contractor at the Owner's current restocking price. All poles and material returned shall be accompanied by a material list in triplicate and shall be signed by both Contractor and Owner. The Contractor shall sort all materials by item and will submit them in an orderly manner. The Contractor will prepare the material receipt, on a form provided by the Owner or Engineer, before attempting to return the material to the Owner. Poles shall be listed by length and class.

3. All owner furnished materials will be picked up at the Owner's warehouse in Nixa, Missouri. Both parties shall sign and retain a material sheet showing the material and quantities checked out. The Contractor shall notify the Owner 48 hours in advance prior to picking up material. If any material is backordered, the Owner will contact the Contractor when the back ordered material has arrived. The Contractor shall pick up the material within 48 hours. Once material has been issued, the Contractor will be responsible for storage, safety and handling of all material. New material will be issued at no cost to the Contractor for extra material needed due to changes in construction. Material needed due to loss or excess breakage will be charged to the Contractor at the Owner's restocking price. Any material remaining at the completion of the project shall be returned to the Owner's warehouse and shall become property of the Owner.

4. All poles installed shall be set at the depth as specified in Exhibit D of the Specifications for Construction. All dirt placed in the bottom of the hole shall be thoroughly tamped before pole is set. The pole shall be backfilled and tamped the full depth of the hole. Dirt shall be banked up around the pole. All labor costs for these items are to be included in the unit pole cost.

5. Split bolts will be installed in each new pole by the Contractor at no cost to the Owner. All labor costs for split bolts are to be included in the unit pole cost.

6. All new or replaced guy wires will include guy guards as part of the guy assembly.

7. Contractor shall string all conductors under tension using ropes and dollies unless agreed upon by the Owner in writing to use a different method. The Contractor will be responsible for supplying all equipment and labor necessary to string the conductor with all costs to be included in the conductor price. Conductor shall not touch the ground during the stringing process unless approved upon in writing by the Owner. Exception to the rule will be in instances where conductor is being strung in areas of five spans or less.

8. Preform wraplock ties will be used on insulators with ACSR conductors. Ties will be installed per manufacturer's specifications. Labor costs for the installation of all ties shall be included in the labor cost of the pole top assembly units.

9. The Bidder will use automatic and/or compression type conductor sleeves as provided by the Owner. Automatic sleeves will not be used in reduced tension spans. Sleeves will not be located within 10 feet of any structures. Sleeves will not be installed in double deadend spans, Grade B crossing spans or adjacent spans of the crossing.

10. Stirrups will be installed by the Bidder with all hot line clamps at no additional cost to the Owner. All labor will be included in the related assemblies.

11. All jumpers and stingers for equipment, corners or junctions will be of appropriate size and material. All labor to install the jumpers by the Bidder will be included in the pole top or related assemblies and shall be formed in a smooth and continuous manner without excess material or coiling.

12. All transformers installed shall include the installation of a cutout switch above the transformer on a fiber glass standoff bracket. All transformers shall also include the installation of a squirrel guard. The labor charges for the installation of the squirrel guard, fiberglass standoff bracket and cutout switches shall be included in the G39- unit price installed on new and transfer units.

13. All power anchors shall be installed in line with the strain of the guys. Anchors will be installed at depth as specified in Exhibit D Specifications for Construction. **If proper depth** cannot be obtained a different type of anchor will need to be installed.

14. Meter loops consist of all or part of the following items: meter, meter base, disconnect box, breaker box or fuse box, breakers, fuses, conduit, weatherhead, conduit straps, wire, connectors, receptacles, current transformers and potential transformers.

    Service and secondary assemblies such as J6, are shown as separate assemblies and are not part of the meter loop assembly.

    The meter loop assembly includes all labor and material to accomplish the following:

    a. Remove, disassemble and assemble, if necessary, and install assembly.

b. Bond service neutral to pole ground at weatherhead.

c. Bond meter base, equipment and other related devices to pole ground.

d. Make all connections to the Owner's and consumer's conductors.

e. Remove and install consumer's equipment, conduit and other devices for overhead or underground facilities.

Relocating a meter loop for the convenience of the Bidder for any reason other than shown on the staking sheets will be at the Bidder's own expense. Any relocation is to be approved by the Owner and the property owner. The Bidder will be responsible for any damage to Owner's or property owner's loop or equipment.

15. The Bidder is responsible for locating underground facilities of other utilities in the area. The Bidder is also responsible for coordination of other utilities, exposing of other underground facilities and transferring their equipment to the new structures. If the Bidder transfers any of the other utility's equipment or cables to the new structures they will do so with the permission of the other utility and will meet the other utility's and the Owner's requirements. Any damage that occurs while transferring facilities of other utilities by the Bidder will be the sole responsibility of the Bidder.

16. Access routes to the project are limited to the right-of-way of the Owner's existing line. Any other routes by the Bidder must be obtained from property owners by the Bidder.

17. During construction the Contractor shall have sole responsibility for any lines left leaning in the process of construction and shall take all reasonable precautions for safety of the public associated with such lines and will make reasonable efforts to minimize the length of time such lines are left in this condition.

If the Contractor elects to lean an existing pole line during the process of construction the following requirements shall be followed:

a. NESC minimum ground clearance shall be maintained.

b. No structures with primary taps, deadends or large angles will be left unattended with guys removed.

c. No structures with a transformer or other equipment will be left leaning. The equipment shall be transferred to the new pole so that maintenance can be done if needed.

18. If an outage occurs the Bidder will contact the Owner before reenergizing the line.

19. Guard structures will be used at all conductor and road crossings.

20. If a pole top or service assembly that is holding conductor is to be removed, relocated, installed or reinstalled, the Bidder shall handle, hold, resag and make any conductor connections that are necessary. All labor and material will be done by the Bidder at no additional cost to the Owner.

21. Payment will not be made for any assembly attached to the pole until the pole has been installed (when consideration is given for partial payment).

22. All poles requiring an M2-11 unit shall also have a butt plate installed as part of the unit.

23. Ground assemblies, for example: M2-1, shown on the staking sheets as "R" units will be ignored by the Contractor. The ground wire will remain on existing poles.

# Exhibit C

# SPECIFICATIONS FOR CONSTRUCTION

# SPECIFICATIONS FOR CONSTRUCTION

1. General

All construction work shall be done in accordance with the staking sheets, plans and specifications, and the construction drawings.

The ~~1981 or~~ latest edition of the National Electrical Safety Code (NESC), ANSI C2, shall be followed except where local regulations are more stringent, in which case local regulations shall govern.

2. Distribution of Poles

In distributing the poles, large, choice, dense poles shall be used at transformer, dead-end, angle, and corner locations.

3. Pole Setting

The minimum depth for setting poles shall be as follows:

| Length of Pole(Feet) | Setting in Soil(Feet) | ~~Setting in All Solid Rock(Feet)~~ |
|---|---|---|
| 20 | 4.0 | ~~3.0~~ |
| 25 | 5.0 | ~~3.5~~ |
| 30 | 5.5 | ~~3.5~~ |
| 35 | 6.0 | ~~4.0~~ |
| 40 | 6.0 | ~~4.0~~ |
| 45 | 6.5 | ~~4.5~~ |
| 50 | 7.0 | ~~4.5~~ |
| 55 | 7.5 | ~~5.0~~ |
| 60 | 8.0 | ~~5.0~~ |

~~"Setting in Soil" depths shall apply:~~

~~a. Where poles are to be set in soil.~~

~~b. Where there is a layer of soil of more than two (2) feet in depth over solid rock.~~

~~c. Where the hole in solid rock is not substantially vertical or the diameter of the hole at the surface of the rock exceeds approximately twice the diameter of the pole at the same level.~~

~~"Setting in All Solid Rock" depths shall apply where poles are to be set in solid rock and where the hole is substantially vertical, approximately uniform in diameter and large enough to permit the use of tamping bars the full depth of the hole.~~

~~Where there is a layer of soil two (2) feet or less in depth over solid rock, the depth of the hole shall be the depth of the soil in addition to the depth specified under "Setting in All Solid Rock" provided, however, that such depth shall not exceed the depth specified under "Setting in Soil."~~

On sloping ground, the depth of the hole shall be measured from the low side of the hole.

Poles shall be set so that alternate crossarm gains face in opposite directions, except at terminals and dead ends where the gains of the last two (2) poles shall be on the side facing the terminal or dead end. On unusually long spans, the poles shall be set so that the crossarm is located on the side of the pole away from the long span. Where pole top insulator brackets or pole top pins are used, they shall be located on the opposite side of the pole from the gain.

Poles shall be set in alignment and plumb, except at corners, terminals, angles, junctions, or other points of strain, where they shall be set and raked against the strain so that the conductors are in line.

Poles shall be raked against the conductor strain not less than 1-inch for each 10 feet of pole length nor more than 2 inches for each 10 feet of pole length after conductors are installed at the required tension.

Pole backfill shall be thoroughly tamped in full depth. Excess dirt shall be banked around the pole.

Poles which have been in storage for more than 1 year from the date of treatment shall be ground line treated when installed.

4. Grading of Line

When using high poles to clear obstacles such as buildings, foreign wire crossings, railroads, etc., there shall be no upstrain on pin-type or post-type insulators in grading the line each way to lower poles.

5. Guys and Anchors

Guys shall be placed before the conductors are strung and shall be attached to the pole as shown in the construction drawings.

All anchors and rods shall be in line with the strain and shall be installed so that approximately 6 inches of the rod remain out of the ground. In cultivated fields or other locations, as deemed necessary, the projection of the anchor rod above earth may be increased to a maximum of 12 inches to prevent burial of the rod eye. The backfill of all anchor holes must be thoroughly tamped the full depth.

After a cone anchor has been set in place, the pole shall be backfilled with coarse crushed rock for 2 feet above the anchor tamping during the filling. The remainder of the hole shall be backfilled and tamped with dirt.

6. Locknuts

A locknut shall be installed with each nut, eyenut or other fastener on all bolts or threaded hardware such as insulator pins and studs, upset bolts, double arming bolts, etc.

7. Conductors

Conductors must be handled with care. Conductors shall neither be trampled on nor run over by vehicles. Each reel shall be examined and the wire shall be inspected for cuts, kinks, or other injuries. Injured portions shall be cut out and the conductor spliced. The conductors shall be pulled over suitable rollers or stringing blocks properly mounted on the pole or crossarm if necessary to prevent binding while stringing.

The neutral conductor should be maintained on one side of the pole (preferably the road side) for tangent construction and for angles not exceeding 20°.

With pin-type or post-type insulators, the conductors shall be tied in the top groove of the insulator on tangent poles and on the side of the insulator away from the strain at angles. Pin-type and post-type insulators shall be tight on the pins and brackets, respectively, and the top groove must be in line with the conductor after tying.

For line angles of 0° to 5° in locations known to be subject to considerable conductor vibration, insulated brackets (material item da) may be substituted for the single and double upset bolts used for supporting the neutral and secondary conductors.

All conductors shall be cleaned thoroughly by wirebrushing before splicing or installing connectors or clamps. A suitable inhibitor shall be used before splicing or applying connectors over aluminum conductor.

8. Splices and Dead Ends

Conductors shall be spliced and dead-ended as shown on the construction drawings. There shall be not more than one splice per conductor in any span and splices shall be located at least 10 feet from the conductor support. No spices shall be located in Grade B crossing spans and preferably not in the adjacent spans. Splices shall be installed in accordance with the manufacturer's recommendations.

9. Taps and Jumpers

Jumpers and other leads connected to line conductors shall have sufficient slack to allow free movement of the conductors. Where slack is not shown on the construction drawings, it will be provided by at least two (2) bends in a vertical plane, or one (1) in a horizontal plane, or the equivalent. In areas where aeolian vibration occurs, special measures to minimize the effects of jumper breaks shall be used as specified.

All leads on equipment such as transformers, reclosers, etc., shall be a minimum of #6 copper conductivity. Where aluminum jumpers are used, a connection to an unplated bronze terminal shall be made by splicing a short stub of copper to the aluminum jumper using a compression connector suitable for the bimetallic connection.

10. Hot-Line Clamps and Connectors

Connectors and hot-line clamps suitable for the purpose shall be installed as shown on the guide drawings. On all hot-line clamp installations, the clamp and jumper shall be installed so that they are permanently bonded to the load side of the line, allowing the jumper to be de-energized when the clamp is disconnected.

11. Surge Arrester Gap Settings

The external gap electrodes of surge arresters, combination arrester cutout units, and transformer mounted arresters shall be adjusted to the manufacturer's recommended spacing. Care shall be taken that the adjusted gap is not disturbed when the equipment is installed.

12. Conductor Ties

Hand-formed ties shall be in accordance with the construction drawings. Factory-formed ties shall be installed in accordance with the manufacturer's recommendations.

13. Sagging of Conductors

Conductors shall be sagged in accordance with the conductor manufacturer's recommendations. All conductors shall be sagged evenly. The air temperature at the time and place of sagging shall be determined by a certified thermometer.

The sag of all conductors after stringing shall be in accordance with the engineer's instructions.

14. Secondaries and Service Drops

Secondary conductors may be bare or covered wires or multi-conductor service cable. The conductors shall be sagged in accordance with the manufacturer's recommendations.

Conductors for secondary underbuild on primary lines will normally be bare, except in those instances where prevailing conditions may limit primary span lengths to the extent that covered wires or service cables may be used. Service drops shall be covered wire or service cable.

Secondaries and service drops shall be so installed as not to obstruct climbing space. There shall not be more than one splice per conductor in an span, and splices shall be located at least 10 feet from the conductor support. Where the same covered conductors or service cables are to be used for the secondary and service drop, the may be installed in one continuous run.

15. Grounds

Ground rods shall be driven full length in undisturbed earth in accordance with the construction drawings. The top shall be at least 12 inches below the surface of the earth. The ground wire shall be attached to the rod with a clamp and shall be secured to the pole with staples. The staples on the ground wire shall be spaced 2 feet apart, except for a distance of 8 feet above the ground and 8 feet down from the top of the pole where they shall be 6 inches apart.

All equipment shall have at least two (2) connections from the frame, case or tank to the multi-grounded neutral conductor.

The equipment ground, neutral wires, and surge-protection equipment shall be interconnected and attached to a common ground wire.

16. Clearing Right-of-Way

The right-of-way shall be prepared by removing trees, clearing underbrush, and trimming trees so that the right-of-way is cleared close to the ground and is the width specified, except that low growing shrubs which will not interfere with the operation or maintenance of the line shall be left undisturbed if so directed by the owner. Slash may be chipped and blown on the right-of-way. The landowner's written permission shall be received prior to cutting trees outside the right-of-way. Trees fronting each side of the right-of-way shall be trimmed symmetrically unless otherwise specified. Dead trees beyond the right-of-way which would strike the line in falling shall be removed. Leaning trees beyond the right-of-way, which would strike the line in falling and which would require topping if not removed, shall either be removed or topped, except that shade, fruit, or ornamental trees shall be trimmed and not removed, unless otherwise authorized.

17. Structures Exceeding 200 Feet in Height and Structures in the Vicinity of Airports

The Federal Aviation Administration (FAA) requires (14 CRF 77) that in cases where structures or conductors will exceed a height of 200 feet, or are within 20,000 feet of an airport, the nearest regional or area office of the FAA be contacted and FAA Form 7460-1 be filed if necessary.