



### AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Consider Resolution Authorizing Execution of Labor Contract for UG Electric Relocation at Kirk Rd & Fabyan Parkway		
Presenter & Title:	Hal Wright, Superintendent of Electrical Services		
Date:	October 2, 2018		
<b>Please Check Appropriate Box:</b>			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: Vision 5, Goal L of the Geneva Strategic Plan, specifically maintain high-quality public services that serve and protect our residents and businesses.			
Estimated Cost: \$423,231.00		Budgeted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
If "Other Funding," please explain how the item will be funded:			
<b>Executive Summary:</b>			
<p>On 9/24/18, bids were opened for the Underground Electric Relocation Project which was approved in the 2019 budget. Work is to take place at the intersection of Kirk Rd &amp; Fabyan Parkway. Two bids were received. One other bidder responded that their work load would not allow them to bid the project. Utility Dynamics was the low bidder in the labor amount of \$423,231.00.</p>			
<b>Attachments:</b> (please list)			
<ul style="list-style-type: none"> <li>• Resolution</li> <li>• Memo</li> <li>• Bid Document</li> </ul>			
<b>Voting Requirements:</b>			
<p><i>This motion requires ___ affirmative votes for passage.</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the aldermen or trustees has resulted in a tie; (b) when one half of the aldermen or trustees elected have voted in favor of an ordinance, resolution, or motion even though there is no tie votes; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
<b>Recommendation / Suggested Action:</b> (how item should be listed on agenda)			
Award and enter into a labor contract with Utility Dynamics in the amount of \$423,210.00 at the October 15, 2018 City Council Meeting.			

**RESOLUTION NO. 2018-101**  
**RESOLUTION AUTHORIZING EXECUTION OF THE**  
**Labor Contract UG Electric Relocation**

---

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:**

**SECTION 1:** That the Mayor is hereby authorized to execute, on behalf of the City of Geneva, the Labor Contract with Utility Dynamics for UG Electric Relocation at Kirk & Fabyan in the amount of \$423,231.00, as recommended by Staff.

**SECTION 2:** This Resolution shall become effective from and after its passage as in accordance with law.

**PASSED** by the City Council of the City of Geneva, Kane County, Illinois, this 15th day of October, 2018.

**AYES: \_\_ NAYS: \_\_ ABSENT: \_\_ ABSTAINING: \_\_ HOLDING OFFICE: \_\_**

Approved by me this 15<sup>th</sup> day of October, 2018.

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk



**PUBLIC WORKS DEPARTMENT  
MEMORANDUM**

October 2, 2018

**Memo To:** Mayor Burns and Members of the City Council  
**From:** Hal Wright, Superintendent of Electrical Services  
**Re:** Recommendation for Labor for 2018-19 Underground Electric Relocation Contract

Bids were opened on Monday, September 24, 2018 for the labor portion of the bid. This is for a portion of the budgeted FY 2018-19 Cable Replacement Project, specifically the relocation project at Kirk & Fabyan. Kane County is widening the intersection of Kirk and Fabyan and our electric lines located within the right-of-way have to be relocated.

**BID SUMMARY**

Eleven bid packages were sent out through email and two (2) bids were received and opened. The bid amounts (with and without material costs) are as follows:

<u>Contractor</u>	<u>Bid Prices as Corrected</u>
Electric Conduit Construction	\$1,002,506
<b>Utility Dynamics</b>	<b>\$423,231</b>

Staff received a letter from Meade Electric that indicated their work load would not support this project.

**Staff Recommendations**

After reviewing the bids for the labor for 2018-19 Underground Cable Relocation Contract, it is the staff's recommendation to the City Council to **award to Utility Dynamics in the amount of \$423,231.00**

Cc: Stephanie Dawkins, City Administrator  
 Rich Babica, Director of Public Works  
 Jennifer Hilkemann, Manager of Distribution Construction & Maintenance  
 Aaron Holton, Manager of Electric Operations

BIDDING DOCUMENTS FOR CONSTRUCTION  
OF  
UNDERGROUND ELECTRIC RELOCATION  
KIRK RD & FABYAN PKWY

SEPTEMBER 2018



Prepared By:

CITY OF GENEVA  
ELECTRIC DIVISION  
1800 SOUTH STREET  
GENEVA, IL 60134  
TELEPHONE: (630) 232-1503  
FACSIMILE: (630) 208-1503

CONTACT PERSON:

JENNIFER HILKEMANN, MANAGER OF DISTRIBUTION CONSTRUCTION & MAINTENANCE

## TABLE OF CONTENTS

NOTICE TO BIDDERS .....	1
INSTRUCTIONS TO BIDDERS .....	2
2. <u>Work on Energized Lines</u> .....	2
3. <u>Materials</u> .....	2
4. <u>Obtaining Documents</u> .....	2
5. <u>Manner of Submitting Proposals</u> .....	3
6. <u>Familiarity with Conditions</u> .....	3
7. <u>Bidder's Qualifications</u> .....	4
8. <u>Alternate Designs</u> .....	4
9. <u>The Time for Completion of Construction</u> .....	5
10. <u>Bid Bond</u> .....	5
11. <u>Contractor's Bond</u> .....	5
12. <u>Failure to Furnish Contractor's Bond</u> .....	5
13. <u>Contract is Entire Agreement</u> .....	5
14. <u>Minor Irregularities</u> .....	5
15. <u>Rejection of Bids</u> .....	6
16. <u>Definition of Terms</u> .....	6
17. <u>The Owner Represents</u> .....	6
18. <u>Freedom of Information Act</u> .....	7
19. <u>Clean Construction and Demolition Debris</u> .....	7
20. <u>Tax Exempt Status</u> .....	7
<u>AFFIDAVIT OF EXPERIENCE</u> .....	9
<u>CERTIFICATION FOR BID</u> .....	10
<u>CERTIFICATION OF DRUG FREE WORKPLACE</u> .....	11
<u>CERTIFICATION FOR CONTRACT</u> .....	12
<u>CERTIFICATE OF COMPLIANCE WITH SECTION 11.42.1-1 OF THE ILLINOIS MUNICIPAL CODE</u> .....	13
<u>BID BOND</u> .....	14
<u>CONTRACTOR'S PROPOSAL</u> .....	15
<u>ARTICLE I--GENERAL</u> .....	15
<u>Section 1. Offer to Construct</u> .....	15
<u>Section 2. Owner-Furnished Materials</u> .....	15
<u>Section 3. Purchase of Materials Not Furnished by Owner</u> .....	16
<u>Section 4. Award of Contract</u> .....	16
<u>Section 5. Proposal on a Unit Basis</u> .....	17
<u>Section 6. Familiarity with Conditions</u> .....	17
<u>Section 7. License</u> .....	17
<u>Section 8. Proposal Made in Good Faith</u> .....	17
<u>Section 9. Financial Resources</u> .....	17
<u>Section 10. Taxes</u> .....	18
<u>Section 11. Changes in Quantities</u> .....	18
<u>Section 12. Description of Contract</u> .....	18
<u>LIST OF OWNER FURNISHED MATERIALS</u> .....	19
<u>ARTICLE II--CONSTRUCTION</u> .....	20
<u>Section 1. Time and Manner of Construction</u> .....	20
<u>Section 2. Protection and Restoration of Property</u> .....	21
<u>Section 3. The Bidder</u> .....	23
<u>Section 4. Changes in Construction</u> .....	23
<u>Section 5. Construction Not in Proposal</u> .....	24
<u>Section 6. Supervision and Inspection</u> .....	24
<u>Section 7. Defective Materials and Workmanship</u> .....	26
<u>Section 8. - Traffic Control and Road Conditions</u> .....	26
<u>ARTICLE III--PAYMENTS AND RELEASE OF LIENS</u> .....	27
<u>Section 1. Payments to Contractor</u> .....	27

Section 2. Release of Liens and Certificate of Contractor .....	29
Section 3. Payments to Materialmen and Sub-Contractors .....	29
<u>WAIVER AND RELEASE OF LIEN</u> .....	30
<u>CERTIFICATE OF CONTRACTOR</u> .....	31
<u>ARTICLE IV--PARTICULAR UNDERTAKINGS OF THE BIDDER</u> .....	32
Section 1. Protection to Persons and Property .....	32
Section 2. Insurance .....	34
Section 3. Indemnification .....	35
Section 4. Release of Liability .....	36
Section 5. Delivery of Possession and Control to Owner .....	36
Section 6. Assessment of Guarantees .....	36
Section 7. Energizing the Project .....	37
<u>ARTICLE V--REMEDIES</u> .....	38
Section 1. Completion on Contractor's Default .....	38
Section 2. Liquidated Damages .....	38
Section 3. Cumulative Remedies .....	38
<u>ARTICLE VI--MISCELLANEOUS</u> .....	39
Section 1. Definitions .....	39
Section 2. Patent Infringement .....	41
Section 3. Permits for Explosives .....	41
Section 4. Compliance with Statutes and Regulations .....	41
Section 5. Equal Opportunity Provisions .....	41
Section 6. Franchises and Rights-of-way .....	43
Section 7. Nonassignment of Contract .....	43
Section 8. Extension to Successors and Assigns .....	44
Section 9. Contractor .....	44
Section 10. Addenda .....	44
Section 11. Prevailing Wage .....	44
<u>PREVAILING WAGES FOR KANE COUNTY</u> .....	46
<u>DISTRIBUTION CONSTRUCTION UNITS -- NEW CONSTRUCTION</u> .....	52
Section UD -- Underground Cable Assembly Units .....	52
Section UG -- Underground Transformer Assembly Units .....	52
Section UM -- Miscellaneous Underground Assembly Units .....	52
Section UR -- Underground Excavation Assembly Units .....	54
Section I -- Removal Assembly Units .....	55
Crews & Equipment .....	56
Hipot & Energize .....	57
Landscaping .....	57
Surveying .....	57
<u>BID PAGES</u> .....	58
<u>PROPOSAL SUMMARY</u> .....	65
<u>PROPOSED SUB-CONTRACTORS</u> .....	66
<u>PROPOSAL SIGNATURE BY BIDDER</u> .....	67
<u>ACCEPTANCE</u> .....	68
<u>CONTRACTOR'S BOND</u> .....	69
<u>SPECIFICATIONS</u> .....	72
DIVISION 1 - GENERAL REQUIREMENTS	
DIVISION 2 - CABLE INSTALLATION, TERMINATION AND TESTING	
TREE ORDINANCE FOR THE CITY OF GENEVA	

**FY 2018-19 UNDERGROUND ELECTRIC REPLACEMENT CONTRACT****NOTICE TO BIDDERS**

**Duplicate** sealed Proposals submitted in a sealed envelope with the words "FY 2017-18 Underground Electric Relocation Contract" clearly marked on it, will be received by the City of Geneva, Illinois on or before ten o'clock a.m., local time, **September 24, 2018**, at the office of the City Administrator, 22 South First Street, Geneva, IL 60134, at which time they will be publicly opened and read for the construction, including the supply of necessary labor, materials and equipment of all related work thereto for the Project known as "FY 2018-19 Underground Electric Relocation Contract". Any Proposal received subsequent to the time specified will be promptly returned to the Bidder unopened.

Description of Project: The project will consist of:

The installation of new feeder circuits on Kirk Rd & Fabyan Parkway, relocating switchgear, abandoning of old cable and the installation of new primary cable through conduit at Kirk Rd & Fabyan Parkway in Geneva. The installation of new conduits (poly, pvc & rigid), primary cable, splicing etc to replace existing distribution feeder circuits.

There will be a pre-Bid meeting on Wednesday September 12, 2018 at 10:00 a.m. at Geneva Public Works, 1800 South Street, Geneva, IL 60134.

This work shall be done in accordance with the Specifications as prepared by the City of Geneva Electric Utility. Copies of the plans, Specifications, and construction drawings together with all necessary forms and other documents for Bidders may be obtained via the web. Contact the City of Geneva Public Works Department for instructions on how to do so. The plans, Specifications, and construction drawings may be examined at the Public Works Department located at 1800 South Street, Geneva, IL. 60134.

The Contractor and Sub-Contractors shall pay not less than the prevailing rate of wages as found by the Department of Labor or as determined by the Court of Appeal, to all laborers, workmen and mechanics performing work under the Contract. A signed certification stating the above as well as the fact that the Bidder is not barred from Bidding as a result of a violation of either Section 33E-3 or 33E-4 of Chapter 38, Illinois Revised Statutes, 1987 (as amended) must be submitted with the sealed Bid.

Each Bid must be accompanied by a Bid bond signed by a Surety company authorized to do business in Illinois, or by a cashier's check or certified check in the amount of ten (10) percent of the base Bid. Any Bid not accompanied by a required Bid deposit will be rejected.

The City of Geneva, IL reserves the right to reject any or all Bids and waive technicalities.

The City of Geneva, Illinois  
Stephanie Dawkins  
City Administrator  
August 31, 2018

Published in the "Kane County Chronicle": August 31, 2018

**FY 2017-18 UNDERGROUND ELECTRIC CABLE RELOCATION CONTRACT****INSTRUCTIONS TO BIDDERS**

1. Description of Project: The project will consist of:

The installation of new feeder circuits on Kirk Rd & Fabyan Parkway, relocating switchgear, abandoning of old cable and the installation of new primary cable through conduit at Kirk Road and Fabyan Parkway in Geneva. The installation of new conduits (poly, pvc & rigid), primary cable, splicing etc to replace existing distribution feeder circuits.

There will be a pre-Bid meeting on Wednesday September 12, 2018 at 10:00 a.m. at Geneva Public Works, 1800 South Street, Geneva, IL 60134.

The project is located in the City of Geneva, in the State of Illinois all as more fully described in the Plans, Specifications, Construction Drawings and Contractor's Proposal therefore hereinafter referred to.

2. Work on or around Energized Lines.

Any work done in vaults, all switching of high voltage cables, all splicing and terminating shall be performed by qualified personnel with proven experience in the type of work to be performed. The Bidder shall provide documentation that all employees working on high voltage cables are journeyman lineman and can demonstrate experience with overhead and underground 15 kV cable, terminations, etc. Lineman employed by the Contractor on this project shall be expected to be familiar with the operation and use of the tools of the trade, including but not limited to, Shotguns, Hot Stick Phasing Sets, and Grounding of Underground Cables. Contractor shall make sure each journeyman lineman has all necessary tools and equipment for use onsite. All such work shall be performed to meet at least the safety rules and regulations prescribed by the City of Geneva ("hereafter referred to as the "Owner") for its own employees including the use of rubber gloves, sleeves, hot sticks and associated protective equipment, a copy of which rules and regulations may be examined at the office of the Owner. Adherence to the latest revision any and all applicable OSHA and IDOL standards is required.

3. Materials.

At or prior to the commencement of construction, the Owner shall make available to the Contractor all materials which the Owner has on hand, and from time to time as such additional deliveries of materials, if any, are received by the Owner, the Owner shall make such materials available to the Contractor: Provided, however, that the Contractor or his authorized representative will give to the Owner a receipt in such form as the Owner shall approve for all materials furnished by the Owner to the Contractor. Upon completion of the Project the Contractor will return to the Owner all materials furnished by the Owner in excess of those required for the construction as determined from the Final Inventory approved by the Owner. The Contractor shall reimburse the Owner at the Owner's invoice cost, for loss and/or damage of materials furnished by the Owner to the Contractor while such materials are under the Contractor's care.

4. Obtaining Documents.

The Plans and Specifications for Construction together with all necessary forms and other documents for Bidders may be obtained via the web. The plans, Specifications, and construction drawings may be examined at the office of the Owner, 1800 South Street, Geneva, IL 60134.

5. Manner of Submitting Proposals.

Proposals and all supporting instruments must be submitted in duplicate on the forms furnished by the Owner and must be delivered in a sealed envelope addressed to the Owner. Only Proposals that are made on the regular Proposal forms will be considered. The Proposal forms must not be separated from the complete set of documents. The Proposal shall be executed properly, and Bids shall be made for all items indicated in the Proposal form, except that when alternate Bids are asked, a Bid on more than one alternative for each item is not required, unless the special provisions provide otherwise. The Bidder shall indicate, in U.S. Dollars, a unit price for each of the separate items called for in the Proposal; he shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the Proposal shall be the summation of said products. All unit prices shall be conditioned on furnishing a bond executed by a corporate Surety company satisfactory 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 filled in ink, computer generated or typewritten. No alterations or interlineations will be permitted, unless made before submission. Any such modifications shall be initialed and dated.

If the Proposal is made by an individual, his name and post office address shall be shown. If made by a firm or partnership, the name and post office addresses of the president, secretary, and treasurer, and the seal of the corporation shall be affixed and attested by the secretary.

6. Familiarity with Conditions.

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 and Specifications for Construction, and forms of Contractor's Proposal and Contractor's Bond on file with the City Clerk of the Owner, and shall 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, the kind of facilities required before and during the construction of the Project, general local conditions and all other matters that may affect the cost and the time of completion of the Project. The City does not guarantee the existence, non-existence, or locations of any surface or sub-surface structures, nor the character of any sub-surface material which may be shown on the plans. The inclusion of such structures or materials is based on the best data available but should not be regarded as conclusive. The Owner assumes no responsibility whatsoever in respect to the sufficiency or accuracy of the information, and there is no guaranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the work, or that unanticipated developments may not occur.

When the plans or special provisions include information pertaining to the location of underground utility facilities, such information is only included for the convenience of the Bidder. The Owner assumes no responsibility whatever in respect to the sufficiency or accuracy of the information, or lack of information shown on the plans relative to the locations of underground facilities. It shall be the Contractor's responsibility to determine the actual location of all such facilities. He shall also obtain from the respective utility companies detailed information relative to the location of their facilities and the working schedules of the utility companies for removing or adjusting them.

If any Bidder is in doubt as to the true meaning of any part of the Specifications, or other Contract documents, he may submit to the Superintendent of the Electric Utility a written request for an interpretation thereof; said Bidder will be responsible for its prompt delivery. The Superintendent of the Electric Division will give an interpretation of the matter in question by issuing an "Addenda" and sending same to each person receiving a set of Contract documents.

Bidders will be required to comply with all applicable statutes, regulations, Federal and State laws, local laws and ordinances, etc., including those pertaining to the licensing of Contractors, and the so-called "Kickback Statute" (48 Stat.948) and regulations issued pursuant thereto. Bidder will

also be required to comply with rules and regulations of the City of Geneva, IL, in which city these improvements are located.

7. Bidder's Qualifications.

A Bidder may be required to file with the Owner the Bidder's Qualifications on forms supplied by the Owner, at least ten (10) days in advance of the scheduled Bid opening if the Owner does not have any knowledge of the Bidder completing a similar construction project. A Bid will not be considered from a Bidder required to submit Bidder's Qualifications who has not been notified by the Owner prior to the Bid opening that such Bidder's Qualifications are satisfactory to the Owner. Questions, if any, concerning the sufficiency of such prior work performed by a prospective Bidder or the necessity for filing Bidder's Qualifications forms shall be raised by the Bidder at least five (5) days prior to the time herein specified for filing the Bidder's Qualifications; questions related to completed Bidder's Qualifications forms shall be resolved prior to the scheduled Bid opening.

Any one or more of the following causes may be considered as sufficient for the disqualification of a Bidder and the rejection of his Proposal:

- (a) More than one Proposal for the same work from an individual, firm, partnership, or corporation under the same or different names.
- (b) Evidence of collusion among Bidders.
- (c) Unbalanced Proposals in which the prices for some items are substantially out of proportion to the prices for other items.
- (d) Failure to submit a unit price for each item of work listed in the Proposal.
- (e) Lack of competency as revealed by financial statement or experience questionnaire, if such are required by the Special Provisions.
- (f) Unsatisfactory performance record as shown by past work judged from the standpoint of workmanship and progress.
- (g) Owner reserves the right to make changes to Accepted Bidders List at any point in time.

The Bidder, if a corporation, shall show the name of the State in which the corporation is chartered. Each Bidder shall furnish the Awarding Authority, upon request, with satisfactory evidence of his competency to perform the work contemplated. When requested, he shall submit to the Owner a financial statement prepared by a Certified Public Accountant showing his financial condition at the end of his past fiscal year. The accountant who prepares the statement shall certify that he holds a valid, current certificate as a Certified Public Accountant, issued in accordance with the laws of the state in which he is licensed. The Bidder, if requested, shall also answer and submit questionnaires relating to his experience and available equipment for performing construction work similar to that for which he is offering a Proposal.

Before an award is made, the Bidder may, at the option of the awarding authority, be required to furnish a statement showing the value of all uncompleted work the Bidder has "in process"; awarded (by Owner or others) but completed at the time of such request.

8. Alternate Designs.

The Owner reserves the right to confine its consideration of the several Bids to one type of design regardless of alternate types of design that may be specified in the Plans and Specifications for Construction and offered in the Proposals.

9. The Time for Completion of Construction of the Project shall be as specified by the Owner in the Proposal.

10. Bid Bond.

Each Proposal must be accompanied by a Bid Bond in the form attached or a certified check issued by 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 Proposal, 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 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.

11. Contractor's Bond.

The successful Bidder will be required to compute three additional counterparts of the Proposal and to furnish a Contractor's Bond (Performance and Payment) 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.

12. Failure to Furnish Contractor's Bond.

Should the successful Bidder fail or refuse to compute such counterparts or to furnish a Contractor's Bond 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.

13. 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 modification 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.

14. 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.

15. Rejection of Bids.

The Owner reserves the right to reject any or all Proposals, and to accept the Proposal which in its opinion is in the best interest of the Owner. The attention of Bidders is specially called to the desirability of a proper balance between prices for labor and materials and between the total prices for the respective Construction Units. Lack of such balance may be considered as a reason for rejecting a Proposal.

16. Definition of Terms.

The terms used throughout this Contract shall be as defined in Article VI, Section 1, of the Contractor's Proposal.

17. The Owner Represents:

a. If by provisions of the Contractor's 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.

b. All easements and rights-of-way, except as shown on maps included in the Plans and Specifications, have been obtained from the owners of the properties across which the Project is to be constructed (including tenants who may reasonably be expected to object to such construction). The remaining easements and rights-of-way, if any, will be obtained as required to avoid delaying construction.

c. Where underground distribution construction is required, permission has been obtained from state and local highway and road authorities to install underground distribution power facilities and set pedestals, if any, on the highway and road right-of-way in the Project area. 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 right-of-way caused by the Contractor during construction of the Project. This requirement is in addition to and independent of the Contractor's Bond required under this Contract. 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. Bidders may obtain information concerning the requirements of highway and road authorities by communicating with the following: City of Geneva, City Engineer.

The Contractor shall be solely responsible for obtaining any and all existing underground facility locations, with the appropriate owners or authorities of such facilities, prior to commencing work in such areas. Such contact(s) shall be made with sufficient and appropriate lead times to allow for the appropriate time to locate and/or mark such underground facilities.

d. All funds necessary for prompt payment for the construction of the Project will be available.

If the Owner shall fail to comply with any of the undertakings contained in the foregoing representations or if any of such representations shall be incorrect, the Contractor 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 Contractor shall have promptly notified the Owner in writing of its desire to extend the time of completion in advance with the foregoing; provided, however, that such extension, if any, of the time of completion shall be the sole remedy of the Contractor 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. hereof.

18. Freedom of Information:

Contractor acknowledges that the Freedom of Information Act, 5 ILCS 140/1 et seq. (the "Act") places an obligation on the City to produce certain records that may be in the possession of the Contractor. Contractor shall comply with the record retention and documentation requirements of the Local Records Act 50 ILCS 205/1 et seq. and the Act and shall maintain all records relating to this Agreement in compliance with the Local Records Retention Act and the Act (complying in all respects as if the Contractor was, in fact, the City). Upon notice from the City, Contractor shall review its records promptly and produce to the City within two business days of said notice from the City the required documents which are responsive to a request under the Act. If additional time is necessary to comply with the request, the Contractor may request the City to extend the time do so, and the City will, if time and a basis for extension under the Act permits, consider such extensions. In the event Contractor fails to produce the requested records or fails to produce the requested records within the time period required above and the City is assessed a fine, fee or penalty for failure to timely comply with the Act due to Contractor's actions, Contractor shall reimburse the City for all fines, fee or penalties, including reasonable attorney's fees, paid by the City.

19. CLEAN CONSTRUCTION AND DEMOLITION DEBRIS

To the best of our knowledge, the locations where excavations will occur have the following designations: Residential/Farmland. The soils in the area are anticipated to be Clean Construction Demolition Debris. Any soils excavated and removed from this site need to be tested according to the regulations relating to Potentially Impacted Properties. The Contractor is encouraged to excavate a minimum amount of material and to use the excavated material as backfill at the locations where the material was removed. The locations that were backfilled will be capped with an equal depth of topsoil (compared to the surrounding area) trucked in from an approved source or capped with the topsoil removed from the area if it is not comingled with clay. These locations shall then be restored per the plan and specifications.

If the Contractor has reason to believe that the soil being removed is not consistent as described above, the City shall be notified and a Photo Ionization Detector (PID) can be used to ascertain if the soil being removed is Clean Construction Demolition Debris. The excavated material resulting from the performance of any of the work if hauled away from the site to be disposed of, shall meet the current requirements set forth by the IEPA in Public Act 96-1416 for Clean Construction and Demolition Debris. This compliance may include providing certification from a licensed Professional Engineer, geotechnical testing, dumping fees, and proper documentation.

20. Tax Exempt Status

The City of Geneva is exempt from paying Illinois Use Tax, Illinois Retailers Occupation Tax, Federal Excise Tax, and Municipal Retailer's Occupation Tax. The City of Geneva will supply a Sales Tax Exemption form for the use of the successful bidder for purchase of goods related to this contract upon request. Bidders should prepare their bid responses assuming eligible goods, as identified on this form, will be free of sales tax liability. A sample form has been included in this proposal.

The City of Geneva reserves the right in its sole discretion to determine whether a supplier may utilize the City's tax exemption for purchases of goods.

Abuse of the City's tax exempt status to avoid sales tax liability on other contractor purchases shall not be tolerated and may disqualify the contractor from being awarded future City contracts

or business. Additionally, the City reserves the right to pursue other remedies against the contractor to the full extent of the law and State regulations.

**AFFIDAVIT OF EXPERIENCE**

STATE OF Illinois  
COUNTY OF Kendall

Joseph B. Spencer being duly sworn, that he is  
President of Utility Dynamics Corporation  
(Sole owner, member of firm, (Individual, firm or  
corporate official) corporate name)

which has done work for the following parties of the general kind and approximate magnitude under this Contract:

<u>Name of Owner</u>	<u>Job Description</u>	<u>\$ Amount</u>
** PLEASE SEE ATTACHED LIST **		

and that Utility Dynamics Corporation owns or has available  
(he, said firm, said corporation)  
for immediate use on the proposed work the following plant and equipment:

<u>Machine</u>	<u>Year Built</u>	<u>Machine</u>	<u>Year Built</u>
** PLEASE SEE ATTACHED LIST **			

and that Robert McCoy will be assigned to work  
(Name of Superintendent)  
under this Contract, and that his experience in this kind of work is as follows:

<u>Name of Job</u>	<u>Engineer or Owner</u>
** PLEASE SEE ATTACHED **	

Signature: 

Joseph B. Spencer, President

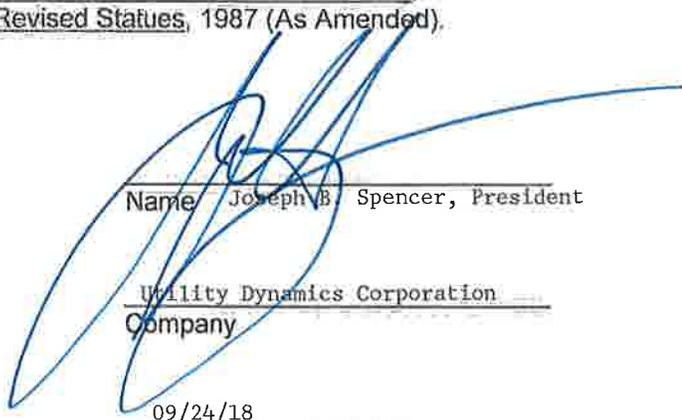
Subscribed and sworn to before me this 24th day of September 2018

  
Notary Public



**CERTIFICATION FOR BID**

The undersigned, as a duly-authorized representative of the Bidder, hereby certifies to the City of Geneva, Kane County, Illinois, that the Bidder is not barred from Bidding upon the Bid Specifications for the Project Known as FY 2018-19 Underground Electric Replacement Contract, as a result of either Section 33E-3 or 33E-4 of Chapter 38, Illinois Revised Statutes, 1987 (As Amended).



Name Joseph B. Spencer, President

Utility Dynamics Corporation  
Company

09/24/18

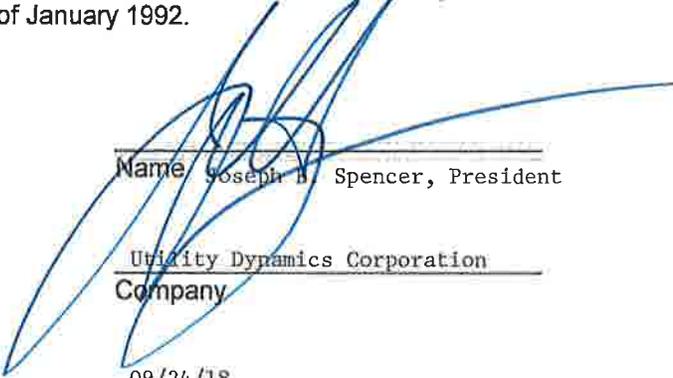
Date

All laborers, mechanics, and other workers employed in any public work under this Contract shall be paid in accordance with the prevailing wage rates approved by the City of Geneva as attached to the Project Specifications.

The Contractor certifies that to the best of its knowledge, no officer or employee has been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has any officer or employee made an admission of guilt of such conduct which is a matter of record.

CERTIFICATION OF DRUG FREE WORKPLACE

The undersigned, as a duly-authorized representative of the Contractor, hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor ensures that they operate a drug free environment and that drugs are not allowed in the workplace or satellite locations as well as City of Geneva sites in accordance with the Drug Free Workplace Act of January 1992.



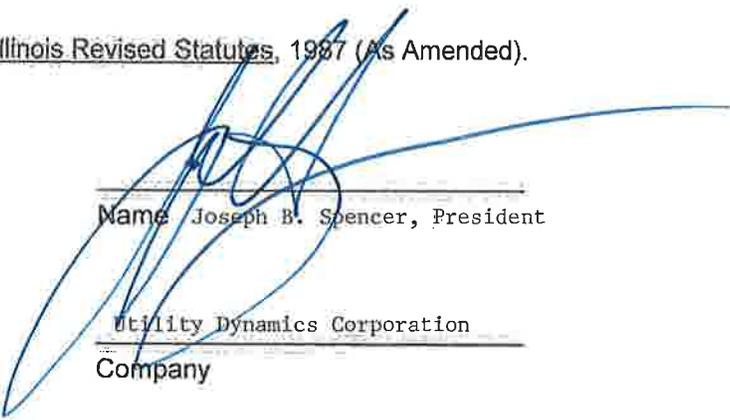
\_\_\_\_\_  
Name Joseph B. Spencer, President

\_\_\_\_\_  
Utility Dynamics Corporation  
Company

\_\_\_\_\_  
09/24/18  
Date

**CERTIFICATION FOR CONTRACT**

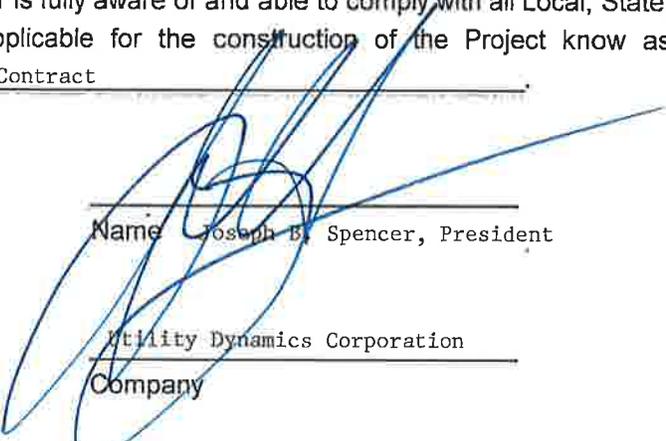
The undersigned, as a duly-authorized representatives of the Contractor, hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor is not barred from Bidding on the Contract, or entering into this Contract known as FY 2018-19 Underground Electric Replacement Contract as result of a violation of either Section 33E-3 or 33E-4 or Chapter 38, Illinois Revised Statutes, 1987 (As Amended).

  
Name Joseph B. Spencer, President

Utility Dynamics Corporation  
Company

09/24/18  
Date

The undersigned, as a duly-authorized representative of the Contractor, hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor is fully aware of and able to comply with all Local, State, and Federal Safety Laws and Regulations applicable for the construction of the Project know as FY 2018-19 Underground Electric Replacement Contract.

  
Name Joseph B. Spencer, President

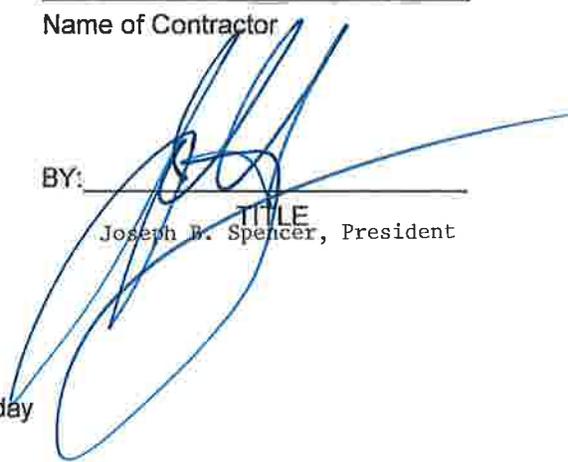
Utility Dynamics Corporation  
Company

09/24/18  
Date

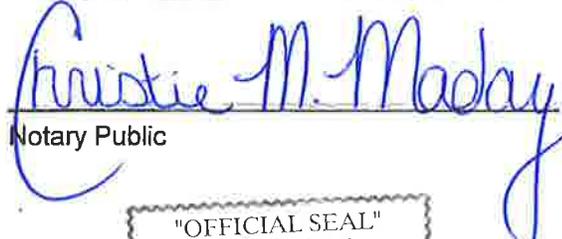
**CERTIFICATE OF COMPLIANCE WITH SECTION 11.42.1-1 OF THE ILLINOIS MUNICIPAL CODE**

The undersigned, upon being first duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that Utility Dynamics Corporation (Contractor) is not currently delinquent in the payment of any tax administered by or owed to the Illinois Department of Revenue, or otherwise in default upon any such tax as defined under Chapter 24, Section 11.42.1, Illinois Revised Statutes.

Utility Dynamics Corporation  
Name of Contractor

BY:   
TITLE  
Joseph B. Spencer, President

Subscribed and sworn to before me this 24th day  
of September, 2018.

  
Notary Public



BID BOND

1. KNOW ALL MEN that we, \_\_\_\_\_ as Principal, and as Surety, are held and firmly bound unto \_\_\_\_\_

(hereafter called the "Owner") in the penal sum of ten percent (10%) of the amount of the Bid referred to in paragraph 2 below, but not to exceed \_\_\_\_\_ dollars (\$ \_\_\_\_\_), as hereinafter set forth and for the payment of which sum well and truly to be made we bind ourselves, our executors, administrators, successors and assigns, jointly and severally, by these presents;

2. WHEREAS, the Principal has submitted a Bid to the Owner for the construction of the project known as \_\_\_\_\_;

3. NOW, THEREFORE, the condition of this obligation is such that if the Owner shall accept the Bid of the Principal, and

(a) the Principal shall execute such Contract documents, if any, as may be required by the terms of the Bid and give such Contractor's Bond or Bonds for the performance of the Contract and for the prompt payment of labor and material furnished for the Project as may be specified in the Bid, or

(b) in the event of the failure of the Principal to execute such Contract documents, if any, and give such Contractor's Bond or Bonds, if the Principal shall pay to the Owner the difference, not to exceed the penal sum hereof, between the amount specified in the Bid and such larger amount for which the Owner may in good faith Contract with another party to construct the Project, then this obligation shall be void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
(seal)  
principal

Attest:  
\_\_\_\_\_  
secretary

By: \_\_\_\_\_  
\_\_\_\_\_  
title

\_\_\_\_\_  
(seal)  
Surety

Attest:  
\_\_\_\_\_  
secretary

By: \_\_\_\_\_  
\_\_\_\_\_  
title

**CONTRACTOR'S PROPOSAL**  
**(Proposal shall be submitted in ink or typewritten)**

**TO:** City of Geneva  
22 South First Street, Geneva, IL 60134  
 (Hereinafter called the "Owner")

ARTICLE I--GENERAL

**Section 1 . Offer to Construct.**

The undersigned (hereinafter called the "Contractor") 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 other materials and equipment, all machinery, tools, labor, transportation and other means required to construct the project known as

**FY 2018-19 Underground Electric Relocation Contract**

in strict accordance with the Plans and Specifications 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. Owner-Furnished Materials.**

The Contractor understands and agrees that, if this Proposal is accepted, the Owner will furnish to the Contractor the material set forth in the attached "List of Owner's Materials" and the Contractor will give a receipt therefore in writing to the Owner. The Contractor, further, will on behalf of the Owner accept delivery of such of the materials indicated in the list as not delivered as may be subsequently delivered and will promptly forward to the Owner for payment the supplier's invoice, together with the Contractor's receipt in writing for such materials. The materials referred to are on hand at, or will be delivered to, the locations specified in the List and the Contractor will use such materials in constructing the Project. The contractor is financially responsible for the care and safekeeping of the material until such time that the project is accepted by the City. Damage or loss of such City supplied material will be deducted from the final amount owed to the contractor.

The value of the completed Construction Units certified by the Contractor each month pursuant to Article III, Section 1.a of this Proposal shall be reduced by an amount equal to the value of the materials installed by the Contractor during the preceding month which have been furnished by the Owner or the delivery of which has been furnished by the Owner or the delivery of which has been accepted by the Contractor on behalf of the Owner. Only ninety percent (90%) of the remainder shall be paid prior to the Completion of the Project. The value of such materials shall be computed on the basis of the unit prices stated in the Lists. The value of all Owner-furnished materials not installed in the Project nor returned to the Owner (in good condition) shall be deducted from the final payment to the Contractor.

The Owner shall not be obligated to furnish materials in excess of the quantities, size, kind and type set forth in the attached List. If the Owner furnishes, and the Contractor accepts, materials in excess thereof, the values of such excess materials shall be their actual cost as stated by the Owner.

Information on the shipping schedules of materials listed as "*not delivered*" shall be furnished to the Contractor as necessary during progress of the work. Upon delivery of such materials and/or equipment the Contractor shall promptly receive, unload, transport and handle all materials and equipment listed as "*not delivered*" at its expense and shall be responsible for demurrage, if any.

### Section 3. Purchase of Materials Not Furnished by Owner.

The Contractor will purchase all materials and equipment (other than Owner-furnished materials) outright and not subject to any conditional sales agreements, bailment, lease or other agreement reserving unto the seller any right, title or interest therein. All such materials and equipment shall become the property of the Owner when erected in place and Owner has approved such installation as acceptable.

### Section 4. Award of Contract.

Before an award of the Contract is made to a Contractor, said Contractor may be required, upon request by the City, to furnish any of the following information:

- a. His performance record
- b. Address and description of his plant or permanent place of business
- c. An itemized list of his equipment
- d. His financial statement
- e. Such additional information as will satisfy them that the Contractor is adequately prepared to fulfill the Contract.

The Proposals received will be compared on the basis of the summation of the products of the items of work listed and the unit prices offered. In case of discrepancy between the gross sum shown in the Proposal and that obtained by adding the products of the quantities of work and the unit prices, the unit prices shall govern, and any errors found in said products shall be corrected. In awarding Contracts, the Owner will, in addition to considering the amounts stated in the Proposals, take into consideration the responsibility of the various Bidders as determined from a study of the data required under the previous article and from other investigations which it may elect to make.

Except in cases where the Owner exercises the right reserved to reject any or all Proposals, the contract will be awarded by the Owner, as soon as practicable after the opening of Proposals, to the Bidder who has submitted the lowest priced Proposal (as determined by Owner's calculations) that complies with all requirements necessary to render it formal and who has satisfied the requirements of the Specifications as to the responsibility of Bidders.

Any Bidder may withdraw his or her Bid by letter or telegraphic request or, with proper identification, by personally securing the Bid Proposal at any time prior to the time fixed for opening of Bids and provided that written confirmation of any telegraphic withdrawal over the signature of the Bidder is placed in the mail and postmarked prior to the time set for Bid opening. Telephonic request to withdraw a Bid will not be considered.

All Bid deposits (except that of the lowest responsible Bidder) will be returned after the lowest responsible Bidder is determined and approved by the City Council. The return of the Bid deposit to the successful Bidder or awardee will be contingent upon that Bidder's or awardee's execution of a written Contract with the City.

The Contract shall be deemed as having been awarded when formal written notice of award has been duly served upon the Bidder to whom the City contemplates awarding the Contract by some officer or agent of the City duly authorized to give such notice and the Contractor shall start construction within twenty-eight (28) calendar days of the award of the Contract.

Unless otherwise specified, if a Contract is not awarded within thirty (30) days after the opening of Proposals, a Bidder may file a written request with the Owner for the withdrawal of his Bid. The Owner will have a maximum of ten (10) days after the receipt of such request to award the Contract or release the Bidder from further obligation.

Section 5. Proposal on a 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 may be 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 or description of unit where no drawing exists.

Section 6. Familiarity with Conditions.

The Bidder has made a careful examination of the site of the Project to be constructed and of the Plans, Specifications, 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, state and local laws and regulations which would affect work on the proposed construction.

Section 7. License.

The Bidder warrants that a Contractor's License (is) (is not) 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. Proposal Made in 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.

The Bidder warrants that it possesses adequate financial resources and agrees that in the event this Proposal is accepted 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 Treasury Department as Acceptable Sureties.

In the event that the Surety or sureties on the performance bond delivered to the Owner contemporaneously with the execution of the Contract or on any Bond or Bonds delivered in substitution thereof or in addition thereto shall at any time become unsatisfactory to the Owner, the Bidder agrees to deliver to the Owner another or an additional Bond.

Section 10. Taxes.

The unit prices(s) for Construction Units in this Proposal include provisions for the payment of all moneys which will be payable by the Contractor 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 Contractor agrees to pay all such taxes, except taxes upon the sale, purchase or use of owner-furnished materials and it is understood that, as to Owner-furnished materials, the values stated in the attached "List of Owner's Materials" include taxes upon the sale, purchase or use of Owner-furnished materials, if applicable. The Contractor will furnish to the appropriate taxing authorities all required information and reports pertaining to the Project, except as to the Owner-furnished materials.

Section 11. Changes in Quantities.

The Bidder understands and agrees that the quantities called for in this Proposal are approximate, and that the total number of units upon which payment shall be made shall be as set forth in the inventory. If the Owner changes the quantity of any unit or units specified in this Proposal by more than 15%, and the materials cost to the Contractor is increased thereby to an extent which would not be adequately compensated by application of the unit prices in this Proposal to the revised quantity of such unit or units, such change, to the extent of the quantities of such units in excess of such 15%, shall be regarded as a change in the construction within the meaning of Article II, Section 1(h) of this Proposal.

Section 12. Description of Contract.

The Notice and Instructions to Bidders, Plans and Specifications for Construction, all attached hereto and made a part hereof together with the Proposal and Acceptance constitute the Contract. The Plans are identified as follows:

Staking Sheets

Specifications and Drawings

Maps



## ARTICLE II--CONSTRUCTION

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

a. The Bidder agrees to commence construction of the Project on a date (hereinafter called the "Commencement Date") which shall be determined by the Owner after notice in writing of acceptance of the Proposal by the Owner, but in no event will the Commencement Date be before November 1, 2018. The Commencement Date is dependent on the Kane County Division of Transportation obtaining the necessary right-of-way to construct the project and relocate the utilities. Delay in obtaining the right-of-way could delay the start of the project. The Bidder further agrees to prosecute diligently and to complete construction in strict accordance with the Plans, Specifications and Construction Drawings by the **substantial completion date of March 29, 2019. Landscaping is to be completed by April 26, 2019.** Working hours for this project will be Monday through Friday, 7:00 a.m. until 3:30 p.m. No work allowed on any City Holiday (week of 11/19-11/23/18, 12/24/18, 12/25/18, 1/1/19, 1/14/19, 2/18/19).

b. The time for Completion of Construction shall be extended for the period of any reasonable delay which is due exclusively to causes beyond the control and without the fault of the Contractor, Sub-Contractors and material suppliers, including acts of God, fires, floods, and acts or omissions of the Owner with respect to matters for which the Owner is solely responsible: Provided, however, that no such extension of the time for completion shall be granted the Contractor unless within ten (10) days after the happening of any event relied upon by the Contractor for such an extension of time the Contractor shall have made a request therefore in writing to the Owner, and provided further that no delay in such time of completion or in the progress of the work which results from any of the above causes except acts or omissions of the Owner, shall result in any liability on the part of the Owner.

c. It is understood and agreed that the Contractor has considered in his Bid all of the permanent and temporary utility appurtenances in their present positions and that no additional compensation will be allowed for any delays, inconveniences, or damage sustained by him due to any interference from the said utility appurtenances or the operation of moving them either by the utilities company or by himself, or an account of any special construction methods required in prosecuting his work due to the existence of said appurtenances.

d. If separate Contracts are let for work comprising an entire improvement, each Contractor shall conduct his work so as not to interfere with or hinder the progress or completion of the work being performed by other Contractors. In case of dispute, the Owner shall be the referee and his decision shall be final and binding on all.

e. Each Contractor involved shall assume all liability, financial or otherwise, in connection with his Contract, and shall protect and save harmless the Owner and all agents of the Owner from any and all damages or claims that may arise because of inconvenience, delay, or loss experienced by him because of the presence and operations of other Contractors working within the limits of the same improvement. Each Contractor shall assume all responsibility for his work not completed or accepted because of the presence and operations of the other Contractors.

f. The Contractor shall as far as possible arrange his work, and place and dispose of materials being used, so as not to interfere with the operations of the other Contractors within the limits of the same improvement. Contractor shall join his work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others, all as approved by the Owner.

g. The sequence of construction shall be as set forth below, or if no sequence is set forth below, the sequence of construction shall be as determined by the Contractor, subject to the approval of the Owner. Promptly after the award of the Contract, the Contractor shall submit to the Owner a satisfactory progress schedule which shall show the proposed sequence of work, and how the Contractor proposes to complete the various items of work within the number of days set up in the Contract. The progress schedule shall be reviewed and revised periodically as working conditions warrant. The Contractor shall confer with the Owner in regard to the prosecution of the work in accordance with this schedule. This schedule shall be used as a basis for establishing major construction operations, and for checking the progress of the work.

h. The Owner may from time to time during the progress of the construction of the Project make such changes, additions to or subtractions from the Plans and Specifications for Construction, List of Materials and sequence of construction provided for in the previous paragraph which are part of the Contractor's Proposal as conditions may warrant: Provided, however, that if any change in the construction to be done shall require an extension of time, a reasonable extension will be granted at the Contractor's written request. The Contractor shall make a written request therefore to the Owner within ten (10) days after any such change in construction is made. Such written request shall also specify the cost to the Contractor if such change materially increases the cost of construction to the Contractor. The Owner shall pay the Contractor for the reasonable cost thereof in accordance with a Construction Contract Amendment signed by the Owner and the Contractor, but no claim for additional compensation for any such change or addition will be considered unless the Contractor shall have made a written request therefore to the Owner prior to the commencement of work in connection with such change or addition.

i. The Contractor will not perform any work hereunder on Saturdays or Sundays unless there is urgent need for such Saturday or Sunday work and the Owner consents thereto in writing. The time for completion specified in subsection "a" of this Section 1 shall not be affected in any way by inclusion of this subsection nor by the Owner's consent or lack of consent to Saturday or Sunday work hereunder.

#### Section 2. Protection and Restoration of Property.

The Contractor shall perform work in such a manner as to maximize preservation of beauty, conservation of natural resources and minimize marring and scarring of the landscape and silting of streams. The Contractor shall not deposit trash in streams or waterways, and shall not deposit herbicides or other chemicals or their containers in or near streams, waterways or pastures. From time to time or as may be ordered by the Owner and immediately after completion of the work, the Contractor shall at his own expense clean up and remove all refuse and unused materials of any kind resulting from the work that

Contractor is issued by Owner. Upon failure to do so within five (5) calendar days after written request by the Owner, such clean up may be performed by the Owner and the cost thereof be charged to the Contractor and be deducted from his final estimate. Upon completion of the work, the Contractor shall remove all his equipment and put the area of the work in a neat and clean condition and do all other cleaning required to complete the work in a professional, workmanlike manner, ready for use and satisfactory to the Owner. The Contractor shall follow, under the general direction of the Owner, the criteria relating to environmental protection as specified herein by the Owner.

If the Contractor desires to use water from hydrants, he shall make contact Geneva Public Works to receive an application, and shall conform to the municipal ordinances, rules, or regulations concerning their use. Water shall be furnished from the hydrant at Public Works, 1800 South Street, Geneva, IL at the Owner's expense unless otherwise specified in the Special Provisions. A hydrant meter shall be used. The quantity of water used shall be reported to the Water Department prior to leaving Geneva Public Works.

Fire hydrants shall be accessible at all times to the Fire Department. No material or other obstructions shall be placed closer to a fire hydrant than permitted by municipal ordinances, rules, or regulations, or within five (5) feet of a fire hydrant, in the absence of such ordinances, rules or regulations.

If corporate or private property interferes with the work, the Contractor shall notify, in writing, the owners of such property. The Contractor shall furnish the Owner with copies of such notifications and with copies of any agreement between him and the property owners concerning such protection or disposition.

The Contractor shall take all necessary precautions for the protection of corporate or private property, such as walls and foundations of buildings, vaults, underground facilities, overhead structures of public utilities, trees, shrubbery, crops, and fences contiguous to the work, of which the Contract does not provide for removal. The Contractor shall protect and carefully preserve all official survey monuments, property marks, section markers, and Geological Survey Monuments, or other similar monuments, until the Owner, or an authorized surveyor or agent has witnessed or otherwise references their location or relocation. The Contractor shall take reasonable precautions to avoid disturbing any archeological and other historic remains encountered during construction. The Contractor shall notify the Owner of the presence of any such survey or property monuments or archeological and other historic remains as soon as they are discovered.

The Contractor shall be responsible for any damage or destruction of property of any character resulting from the method of execution or non-execution of the Contractor's work, or caused by defective work or the use of unsatisfactory materials, and such responsibility shall not be released until the work shall have been completed and accepted and the requirements of the Specifications complied with.

**The Contractor shall at all times minimize the impact on trees in the work area by ensuring equipment storage/heavy machinery is not stored or used under tree canopies whenever possible. Also when construction requires the cutting of tree roots the technique of root shaping will be used to minimize damage to the affected tree. When such construction takes place it's the contractor's responsibility to notify the Owner while the work is ongoing to assess the condition of the tree and probability of survival. If root cutting is performed, contractor shall take pictures of**

**the before and after conditions of the root pruning to demonstrate that proper techniques were used.**

Whenever public or private property is damaged or destroyed, the Contractor shall at his own expense, restore such property to a condition equal to that existing before such damage or injury was done by repairing, rebuilding, or replacing it as may be directed, or he shall otherwise make good such damage or destruction in an acceptable manner. If he fails to do so, the Owner may after the expiration of a period of forty-eight (48) hours after giving him notice in writing proceed to repair, rebuild, or otherwise restore such property as may be deemed necessary, and the cost thereof shall be deducted from any compensation due, or which may become due, the Contractor under his Contract.

**The contractor shall remove the top six (6) inches of clay and replace with black dirt, grading appropriately and repairing all construction-damaged portions with mulch or seed, fertilizer and excelsior blanket (see specifications for blanket) to promote the growth of new grass. It is also the responsibility of the contractor to return and remove the blanket after the seed has germinated (approximately 4-6 weeks after installation.) if it is not breaking down and disintegrating. If the seed hasn't taken, contractor shall seed again, install new fertilizer and blanket and return in another 4-6 weeks or as directed by City personnel. If a homeowner specifically requests sod, the Contractor will comply after a change order has been executed with the City. The property owner is responsible for watering any grass or sod after the initial installation. Final walk through acceptance of landscaping will be performed a minimum of 6 weeks after completion to insure grass has taken. Contractor shall guarantee plants for one year after satisfactorily planted.**

**In areas where plant material was disturbed, contractor shall replace plants to match pictures taken prior to construction. If pictures do not cover the area disturbed, contractor will restore to property owner's and City's satisfaction.**

If necessary, the Contractor shall remove all mailboxes within the limits of construction that interfere with construction operations and shall erect them at temporary locations. As soon as construction operations permit, he shall set the mailboxes at their permanent locations. This work shall be performed as directed by the Owner. The Contractor shall replace at his own expense any mailbox or post which has been damaged by his operations.

**The cost of all materials required and all labor necessary to comply with the above provisions shall be included in the Landscaping portion of the Contract.**

### Section 3. The Bidder.

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 personnel (including appropriate supervision).

### Section 4. Changes in Construction.

If requested by Owner, in cases of satisfactorily performed work that is subsequently modified, upgraded, or otherwise changed by the Owner, the Contractor agrees to make such changes in construction previously installed in the Project by the Bidder as required by the Owner. The compensation for such

changes shall be agreed upon in writing by the Contractor and the Owner prior to commencement of work in connection with such changes.

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 Contractor also agrees to do other work not herein provided for and which may be necessary in order to complete the project, or which the Owner may desire, when and as approved and ordered by the Owner. Such extra work shall be paid for at a fair and reasonable price to be mutually agreed upon before a Contract Change Order is issued. The timeframe to complete such additional work shall be mutually agreed to prior to commencement of such additional work.

If the nature of the work is such as to preclude making an estimate of cost prior to the execution of the work or if a fair and reasonable price cannot be mutually agreed upon, the Owner may request the Contractor to proceed with the work on the basis that he be paid at a reasonable cost plus 15 percent. On items of this nature, the Contractor shall submit to the Owner, as soon as possible after the completion of the work, a complete itemized breakdown of the cost of the work. Reasonable costs shall include the actual cost to the Bidder of all material used, of all labor employed (including supervision) and a reasonable rental for machinery and power tools when such are required. Labor costs shall include all wages, assessments and fees paid by the Contractor on the employees' wages, such as compensation insurance, employees' liability insurance, OAB payments and Social Security payments. Reasonable cost shall not include rental of small tools, or buildings, wages for the Contractor or his superintendent, public liability insurance, percentage on Sub-Contractors, allowance for use of capital, or any fees, commissions or profits.

The Contractor shall, if requested, submit to the Owner daily summaries of all labor time charged to extra work, for the Owner's approval, such approved summaries to be the basis for calculating extra labor time.

#### Section 6. Supervision and Inspection.

- a. The Contractor shall be responsible for providing adequate and satisfactory supervision of all work assigned/performed by a competent supervisory person (herein after called the "Superintendent"). Such individual(s) shall be present at all times during working hours where construction is being carried on. Directions and instructions given to the Superintendent shall be binding upon the Contractor. The cost of providing such supervision shall be borne by the Contractor and built into the applicable unit price rates for performing the assigned work.

It is implied and expected that the Contractor shall employ, in connection with the construction of the Project, capable, experienced and reliable personnel as may be required for the various classes of work to be performed. This includes journeyman lineman for all work in and around energized lines or lines that may become energized.

b. The Owner reserves the right to require the removal from the Project of any employee of the Contractor and Contractors for noncompliance of installation which may include use of improper tools, improper installation, and/or not meeting timelines or schedules for installations, 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 Contractor to increase the number of its workforce at contractor's expense to meet schedules in installation. Owner has established all provisions to judge performance based on successful completion of work assignments as measured by Owner's standards. Contractor's obligations shall be to complete the work within the time and in the manner specified in this Proposal.

c. Regardless of any tests of materials made at the source, the Contractor shall carefully inspect all materials before installation and reject any materials which have been damaged or have visible flaws. The manner of construction of the Project, and all materials and equipment used therein, shall be subject to the inspection, tests and approval of the Owner, and the Contractor shall furnish all information required by the Owner concerning the nature or source of any materials incorporated or to be incorporated in the Project. The failure of the Owner to detect irregularities does not relieve the Contractor of responsibility to remove or replace materials which are found to be defective after installation. The Owner shall have the right to inspect all payrolls, invoices of materials, and other data and records of the Contractor and of any Sub-Contractor, relevant to the construction of the Project. The Contractor shall provide all reasonable facilities necessary for such inspection and tests. The Owner shall make final inspection of all work, included in the Contract, as soon as practicable after notification by the Contractor that the work is completed and ready for acceptance. If the work is not acceptable to the Owner at the time of such inspection, he shall inform the Contractor as to the particular defects to be remedied before final acceptance can be made. The Contractor shall have an authorized agent accompany the Owner when final inspection is made and, if requested by the Owner, when any other inspection is made.

d. If it is necessary to store materials, they shall be protected in such a manner as to insure the preservation of their quality and fitness for the work. All stored materials shall be inspected and approved before being placed in storage. Space required shall be provided by the Contractor at Contractor's expense.

e. In the event that the Owner shall determine that the construction contains or may contain numerous defects, it shall be the duty of the Contractor and the Contractor's Surety or sureties to have an inspection made, in cooperation with the Owner for the purpose of determining the exact nature, extent and location of such defects. Any such corrective actions, to remedy defective work or materials, shall not be cause for an extension of the schedule. Contractor shall incur costs required to meet stipulations of contract.

f. The Owner may recommend that the Contractor 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 the satisfactory prosecution of the work or because of the failure of the Contractor to comply with any of the provisions of the Contract: Provided, however, that the Contractor shall not suspend work pursuant to this provision without

written authority from the Owner to do so. 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 Contractor to comply with any of the provisions of this Contract. In the event that work is suspended by the Contractor with the consent of the Owner, the Contractor before resuming work shall give the Owner at least twenty-four (24) hours' notice thereof in writing.

g. The Contractor will be furnished necessary copies of the plans and special provisions, and he shall have one copy of each available on the work at all times during its prosecution. Contractor shall give the work his constant attention to facilitate the progress thereof, and shall cooperate with the Owner in every way possible. He shall have on the work at all times, a competent, English-speaking representative authorized to receive orders and act on the Contractor's behalf.

#### Section 7. Defective Materials and Workmanship.

a. The acceptance of any materials, equipment (except Owner-furnished materials) or any workmanship by the Owner 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 Contractor. Any such condemned material or equipment shall be immediately removed from the site of the Project by the Contractor at the Contractor's expense. The Contractor 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 Contractor shall have had notice, shall not have been replaced or remedied, as the case may be.

b. Notwithstanding any certificate which may have been given by the Owner, if any materials, equipment (except Owner-furnished materials) 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 Contractor 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 the Contractor 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 Contractor shall de-energize that section of the Project involved in such work. In the event of failure by the Contractor 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 Contractor shall pay to the Owner the cost and expense thereof.

#### Section 8. - Traffic Control and Road Conditions.

a. Traffic control shall be in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, these Special Provisions, and any special details and Highway Standards contained herein and in the plans.

- b. The Contractor shall furnish and place all necessary barricades and warning signs for street and/or lane closings during the work operations. The Contractor shall schedule his work to limit the closing of any one street block for not more than a period of four (4) hours. Tri-Com (911) shall be notified by the Contractor prior to any street closings. Street name, cross streets and duration of closure shall be provided.
- c. The Contractor shall furnish all of the materials, labor and equipment (including flagmen if required) necessary to comply with this provision and all such costs to comply shall be borne by the Contractor and be considered incidental to the Contract.
- d. The Contractor shall notify the Owner at least three (3) days in advance of the starting of any construction work which might in any way inconvenience or endanger traffic, so that arrangements may be made, if necessary, for closing the road and providing suitable detours. The Contractor shall at all times conduct the work in such a manner to insure the least obstruction of vehicular and pedestrian traffic. The convenience of the general public and of residents along the roadway shall be provided for in an adequate and satisfactory manner.
- e. Where the Contractor's equipment is operated on any portion of the traveled surface or structures used by traffic on or adjacent to the section under construction, the Contractor shall clean up traveled surface of all dirt and debris at the end of each day's operations. The cost of this work shall be included in the unit prices Bid and no additional compensation will be allowed. In addition, at the completion of the job, the streets which the Contractor muddied shall be swept clean by use of a street sweeper vehicle. This too, shall be incidental to the Contract.
- f. The traveled surface and structures on or adjacent to the work shall be protected, in a manner satisfactory to the Owner, from damage by lugs or cleats on treads or wheels of equipment.
- g. All equipment used in prosecution of the work shall comply with the legal loading limits established by the statutes of the State of Illinois or local regulations when moved over or operated on any traveled surface or structure unless permission in writing has been issued by the Owner. Before using any equipment which may exceed the legal loading, the Contractor shall secure a permit, allowing ample time for making an analysis of stresses to determine whether or not the proposed loading would be within safe limits. The Owner will not be responsible for any delay in construction operations or for any costs incurred by the Contractor as a result of compliance with the above requirements.

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

#### Section 1. Payments to Contractor

- a. Within the first fifteen (15) days of each calendar month, the Owner shall make partial payment to the Contractor for construction accomplished during the preceding calendar month on

the basis of completed Construction Units furnished and certified (as satisfactorily complete) to by the Contractor, 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. **Payment shall be made only after receipt of Certified Payroll.** Only ninety percent (90%) of each such estimate approved during the construction of the Project shall be paid by the Owner to the Contractor prior to Completion of the Project. Upon completion by the Contractor of the construction of the Project, the Owner will prepare an inventory of the Project showing the total number and character of Construction Units and after checking such inventory with the Contractor, will certify it together with a certificate of the total cost of the construction performed. Upon the approval of such certificates by the Owner, the Owner shall make payment to the Contractor of all amounts to which the Contractor 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 Contractor.

b. The Contractor shall be paid on the basis of the number of construction Units actually installed at the direction of the Owner shown by the inventory: Provided, however, that the total cost shall not exceed the maximum Contract price for the construction of the Project as set forth in the Acceptance, unless such excess shall have been approved in writing by the Owner.

c. Notwithstanding the provisions of Section "la" above, the Contractor may, by giving written notice thereof to the Owner, elect to receive payment in full for any Station of the Project upon:

- (1) completion of construction of such Station as certified and approved by the Owner;
- (2) submission to the Owner of the releases of lien and the certificate referred to in Section 2 hereof:
- (3) submission to the Owner of the consent in writing by the Surety or Sureties on the Contractor's Bond to payment in full for such Station prior to Completion of the Project.

d. Interest at the rate of seven percent (7%) per annum shall be paid by the Owner to the Contractor 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 Contractor. The due date for purposes of such monthly payment shall be the fifteenth day of each calendar month provided (1) the Contractor on or before the twentieth day of the preceding month shall have submitted its certification of construction completed during the preceding month and (2) the Owner on or before the fifteenth day of such month shall have approved such certification. If for reasons not due to the Contractor's fault, such approval shall not have been given on or before the fifteenth day of such month, the due date for purposes of this subsection d shall be the fifteenth day of such month notwithstanding the absence of the approval of the certification.

- e. Interest at the rate of seven percent (7%) per annum shall be paid by the Owner to the Contractor 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 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.
- f. No payment shall be due while the Contractor is in default in respect of any of the provisions of this Contract and the Owner may withhold from the Contractor or the Owner based upon an alleged failure of the Contractor to perform the work hereunder in accordance with the provisions of this Contract.

Section 2. Release of Liens and Certificate of Contractor.

(See sample Waiver and Release of Lien and sample Certificate of Contractor.) Upon the completion by the Contractor of the construction of the Project (or any Station thereof if the Contractor shall elect to receive payment in full for any Station when completed as provided above) but prior to final payment to the Contractor, the Contractor shall deliver to the Owner releases of all liens and of rights to claim any lien, in the form attached hereto from all manufacturers, materialmen, and Sub-Contractors furnishing services or materials for the Project or such Station and a certificate in the form attached hereto to the effect that all labor used on or for the Project or such Station has been paid and that all such releases have been submitted to the Owner.

Section 3. Payments to Materialmen and Sub-Contractors.

The Contractor shall pay each materialman, and each Sub-Contractor, if any, within five (5) days after receipt of any payment from the Owner, the amount thereof allowed the Contractor for and on account of materials furnished or construction performed by each materialman or each Sub-Contractor.

WAIVER AND RELEASE OF LIEN

WHEREAS, the undersigned, \_\_\_\_\_  
 manufacturer, materialman or Sub-Contractor  
 has furnished to \_\_\_\_\_ the  
 name of Contractor  
 following: \_\_\_\_\_ for use  
 kind of material and services furnished  
 in the construction of a project belonging to \_\_\_\_\_,  
 name of Owner  
 known as, \_\_\_\_\_  
 project designation

NOW, THEREFORE, the undersigned, \_\_\_\_\_, for and in  
 (name of manufacturer, materialmen or Sub-Contractor)

consideration \$ \_\_\_\_\_, and other good and valuable consideration, the receipt whereof is hereby acknowledged, do(es) hereby waive and release any and all liens, or right to or claim of lien, on the above described Project and premises, under any law, common or statutory, on account of labor or materials, or both, heretofore or hereafter furnished by the undersigned to or for the account of said \_\_\_\_\_  
 name of Contractor

for said project.

Given under my (our) hand(s) and seal(s) this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
 name of manufacturer, materialman or Sub-Contractor

By: \_\_\_\_\_  
 president, vice president, partner or Owner, or if signed by other than one of the foregoing, accompanied by power of attorney signed by one of the foregoing in favor of the signer. (use designation applicable)



## ARTICLE IV--PARTICULAR UNDERTAKINGS OF THE BIDDER

Section 1 . Protection to Persons and Property.

The Contractor 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 Municipal safety laws and building and construction codes, as well as the safety rules and regulations of the Owner. All machinery and equipment and other physical hazards shall be guarded in accordance with the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America unless such instructions are incompatible with Federal, State, or Municipal laws or regulations.

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

- a. The Contractor shall at no time and under no circumstances cause or permit any employee of the Contractor to perform any work upon energized lines, or upon poles carrying energized lines, unless otherwise specified in the Notice and Instructions to Contractors.
- b. The Contractor shall so conduct the construction of the Project as to cause the least possible obstruction of Public highways.
- c. The Contractor 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.
- d. Temporary water, light, power, sanitary and other utility service shall be arranged for by the Contractor for construction purposes at its own expense.
- e. The Contractor shall do all things necessary or expedient to properly protect any and all adjacent lines, highways and any and all property of others from damage, and in the event that any such lines, highways or other property are damaged in the course of construction of the Project, the Contractor 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. 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 Contractor and during such period of control by the Contractor all risks in connection with the construction of the Project and the materials to be used therein shall be borne by the Contractor. The Contractor shall make good and full repair all injuries and damages to the Project or any portion thereof under the control of the Contractor by reason of any act of God or other casualty or cause whether or not the same shall have occurred by reason of the Contractor's negligence. The Contractor shall hold the Owner harmless from any and all claims for injuries to persons or for damage to property happening by reason of any negligence on the part of the Contractor or any of the Contractor's agents or employees during the control by the Contractor of the Project or any part thereof.

- g. Any and all excess earth, rock, debris, underbrush and other useless material shall be removed by the Contractor from the site of the Project as rapidly as practicable as the work progresses.
- h. Upon violation by the Contractor of any of the provisions of this section, after written notice of such violation given to the Contractor by the Owner, the Contractor shall immediately correct such violation. Upon failure of the Contractor so to do the Owner may correct such violation at the Contractor's expense: Provided, however, that the Owner may, if it deems it necessary or advisable, correct such violation at the Contractor's expense without such prior notice to the Contractor.
- i. The Contractor shall submit to the Owner monthly reports in duplicate of all accidents, giving such data as may be prescribed by the Owner.
- j. The Contractor shall not proceed with the cutting of trees or clearing of right-of-way without written notification from the property owner that proper authorization has been received, and the Contractor shall promptly notify the Owner whenever any property owner 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.
- k. Where the right-of-way of the project traverses cultivated lands, the Contractor 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 be taken to prevent the escape of livestock. Except as otherwise provided in the descriptions of underground plowing and trenching assembly units, the Contractor 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 Contractor. The Contractor 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 section shall consist of an area ten (10) feet on both sides of the center line of the route of the Project lines, plus such area reasonably required by the Contractor for access to the route of the Project lines from public roads to carry on construction activities.
- l. The Contractor 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 Contractor.

m. The Contractor shall be responsible for adhering to OSHA and all City of Geneva Policies and Procedures regarding Confined Space Entry. The Contractor shall supply all the necessary confined space entry equipment.

Section 2. Insurance.

The Contractor shall take out and maintain throughout the construction period insurance in the following minimum requirements:

a. Workmen's Compensation & Employer's Liability. This insurance shall protect Contractor and the Company against all claims under applicable state workmen's compensation laws. The Contractor shall also be protected against all claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a workmen's compensation law. This policy shall include "All States" endorsement.

The liability limits shall not be less than:

Workmen's Compensation	Statutory
Employer's Liability	\$1,000,000 each employee

b. Comprehensive Automobile Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, nonowned, or hired.

The General Liability limits shall be not less than:

Bodily Injury	\$2 Million (each person)
	\$2 Million (each occurrence)
Property Damage	\$2 Million

c. Comprehensive General Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims arising from injuries to persons other than his employees or damage to property of the Owner or others arising out of any act of omission of the Bidder or his agents, employees, or Sub-Contractors. The policy shall also include protection against claims insured by usual personal injury liability coverage a "protective liability" endorsement to insure the Contractual liability assumed by the Contractor, and "Completed Operations and Products Liability" coverage (to remain in force during the correction period).

The liability limits shall be not less than:

Bodily Injury	\$2 Million (each person)
	\$2 Million (each occurrence)

Property Damage        \$2 Million (each occurrence)  
                                      \$3 Million (aggregate)

d. Installation Floater. The Contractor shall secure and maintain installation floater insurance on all materials and equipment installed under the Contract. This insurance shall protect the Contractor and the Owner from all risks of physical loss or damage to materials and equipment not otherwise covered under builder's risk insurance, while in warehouse or storage areas during installation, during testing, and after the work is completed. Installation floater insurance shall be of the "all risks" type, with coverage designed for the circumstances that may occur in the particular work included in the Contract. No exclusions shall be permitted with respect to this policy unless specifically authorized by the Owner in writing. The coverage shall be for an amount not less than the insurable value of the work at completion, less the value of the materials and equipment insured under builder's risk insurance. The value shall include the aggregate value of the Owner-furnished equipment and materials to be erected or installed by the Contractor not otherwise insured under builder's risk insurance.

Installation floater insurance shall provide for losses to be payable to the Contractor and the Owner as their interests may appear. The policy shall contain a provision that in the event of payment for any loss under the coverage provided, the insurance company shall have no rights of recovery against the Contractor or the Owner.

e. Additional Named Insured. The Owner and its employees, agents, and representatives shall be named additional insured on all insurance certificates.

f. Cancellation Notice. The standard ACCORD will not be accepted as proof of insurance unless the cancellation provisions have been altered to assure the Owner a minimum ten (10) days notice of cancellation.

Certificates of insurance shall be filed and approved by the Owner before starting construction or within ten (10) days after the execution of the Contract, whichever date is reached first.

The Owner shall have the right at any time to require public liability insurance and property damage liability insurance greater than those required in subsections 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 Contractor shall furnish a certificate evidencing compliance with the foregoing requirements.

### Section 3. Indemnification.

To the fullest extent permitted by laws and regulations, the Contractor shall defend, indemnify, and hold harmless the Owner and their officers, directors, partners, consultants, agents, and employees from and against all claims, damages, losses, and expenses direct, indirect, or consequential (including but not limited to fees and charges of engineers, architects, attorneys, and other professionals and court and arbitration costs) arising out of or resulting from the performance of the work by the Contractor, any Sub-

Contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable.

In any and all claims against the Owner or any of their officers, directors, partners, consultants, agents, or employees by any employee of the Contractor, any Sub-Contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work by anyone for whose acts any of them may be liable, this indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any such Sub-Contractor or other person or organization under workers or workmen's compensation acts, disability benefit acts, or other employee benefit acts, nor shall this indemnification obligation be limited in any way by any limitation on the amount or type of insurance coverage provided by the Owner, the Contractor, or any of his Sub-Contractors.

#### Section 4. Release of Liability.

Acceptance by the Contractor of the last payment shall be a release to the Owner and every officer and agent thereof from all claims and liability hereunder for anything done or furnished for or relating to the work, or for any act or neglect of the Owner or of any person relating to or affecting the work.

#### Section 5. Delivery of Possession and Control to Owner.

a. Upon written request of the Owner the Contractor shall deliver to the Owner full possession and control of any portion of the Project provided the Contractor 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 Contractor as set forth in Article IV, Section 1 f 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 Contractor 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 hereinbefore defined in Article II, Section 1g and Article III, Section 1c shall have been completed by the Contractor, the Owner agrees, after receipt of a written request from the Contractor, to accept delivery of possession and control of such Section upon the issuance by the Owner of a written statement that the Section has been inspected and found acceptable by the Owner. Upon such delivery of the possession and control of any such Section to the Owner, the risk and obligations of the Contractor as set forth in Article IV, Section 1 f hereof with respect to such Section so delivered to the Owner shall be terminated: Provided, however, that nothing herein contained shall relieve the Contractor of any liability with result to defective materials or workmanship as contained in Article II, Section 7 hereof.

#### Section 6. Assessment of Guarantees.

All guarantees of materials and workmanship running in favor of the Contractor shall be transferred and assigned to the Owner prior to the time the Contractor receives final payment.

Section 7. Energizing the Project.

Prior to Completion of the Project the Owner, upon written notice to the Contractor, 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 within the possession and control of the Owner and governed by the provisions of Section 5 of this Article. Upon written notice to the Contractor 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 Contractor unless the Owner shall elect to continue possession and control in the manner provided in Section 5 of this Article. Contractor is responsible for providing underground locating of all new facilities that were constructed by the Contractor (or under Contractor's authority) in the project area until such time as they have been accepted by the Owner.

## ARTICLE V--REMEDIES

Section 1. Completion on Contractor's Default.

If default shall be made by the Contractor or by any Sub-Contractor 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 Contractor and the Surety or Sureties upon the Contractor's Bond or Bonds a written notice requiring the Contractor to cause such default to be corrected forthwith. Unless within twenty (20) days after the service of such upon the Contractor such default shall be corrected or are for the correction thereof satisfactory to the Owner shall be made by the Contractor or its Surety or Sureties, the Owner may take the construction of the Project and prosecute the same to completion by Contract or otherwise for the account and at the expense of the Contractor, and the Contractor and its Surety or Sureties shall be liable to the Owner for any cost or expense in excess of the Contract price occasioned thereby. In such event Owner may take possession of and utilize, in completing the construction of the Project, any materials, tools, supplies, equipment, appliances, and plant belonging to Contractor or any of its Sub-Contractors, which may be situated at the site of the Project. The Owner in such contingency may exercise any rights, claims or demands which the Contractor may have against third persons in connection with this Contract and for such purpose the Contractor 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 Contractor neglect, refuse, or fail to complete the construction in the time herein agreed upon, after giving effect to extensions of time, if any, herein provided, then, in 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 Contractor the sum of five hundred and fifty dollars (\$550.00) per calendar day for each and every day that such construction is delayed on 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 Contractor is insufficient to pay in full any such liquidated damages, the Contractor shall pay to the Owner the amount necessary to effect such payment in full: Provided, however, that the Owner shall promptly to notify the Contractor 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 be 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 Contractor to complete the construction of the Project within the time agreed upon.

## ARTICLE VI--MISCELLANEOUS

Section 1 . Definitions.

- a. The term "Bidder" shall mean any individual, firm, partnership, or corporation submitting a Proposal for the work contemplated, acting directly or through a duly authorized representative.
- b. The term "Project" shall mean the electric system, or portions thereof, described in the Plans and Specifications for Construction.
- c. The term "Completion of Construction" shall mean full performance by the Contractor of the Contractor's obligations under the Contract and all amendments and revisions thereof except the Contractor's obligations in respect of (1) Releases of Liens and Certificate of Contractor under Article III, Section 2 hereof and (2) the inventory referred to in Article III, Section I hereof and (3) other final documents. The term "Completion of the Project" shall mean full performance by the Contractor of the Contractor's obligations under the Contract and all amendments and revisions thereof. The Certificate of Completion, signed by the Owner 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.
- d. The term "Owner" shall be the city, sanitary district or other municipality, corporation, partnership or individual initiating the project, acting through its legally constituted officials, officers, or employees.
- e. The term "Contractor" shall be the Bidder awarded the Contract for the work.
- f. The term "Sub-Contractor" shall be the individual, firm, partnership, or corporation to whom the Contractor, with written consent of the Owner, sublets, assigns, or otherwise disposes of any part of the work covered by the Contract.
- g. The term "Proposal" shall be the offer of a Bidder to perform the work described by the Contract Documents when made out and submitted on the prescribed Proposal Form, properly signed and guaranteed.
- h. The term "Bid Bond" shall be the security designated in the Proposal to be furnished by the Bidder as a guaranty that said Bidder will enter into a Contract with the Owner for the acceptable performance of the work and will furnish the required Contract Bond, if the work is awarded to him.
- i. The term "Contract" shall be the written agreement covering the performance of the work and the furnishing of labor and materials for the construction of the work. The contract includes the notice to Bidders, Proposal, Contract Bond, Specifications, plans, any and all supplemental agreements, and any and all special provisions.

- j. The term "Contract Bond" shall be the approved form of security furnished by the Contractor and his Surety as a guaranty that he will execute the work in accordance with the terms of the Contract.
- k. The term "Surety" shall be the corporate body, individual, or individuals, which engage to be responsible for the Bidder's acts in the execution of the Contract in the event of its being awarded to him; or, which are bound with and for the Contractor to insure his acceptable performance of the Contract, his payment of all obligations pertaining to the work, and his fulfillment of such other conditions as may be specified or otherwise required by law.
- l. The term "Award" shall be the decision of the Owner to accept the Proposal of the lowest responsible Bidder for the work, subject to the execution and approval of a satisfactory Contract thereof and bond to secure the performance thereof, and to such other conditions as may be specified or otherwise required by law.
- m. The term "Inspector" shall be the authorized representatives of the Owner assigned to make detailed inspection of any or all portions of the work or material therefore.
- n. The term "Notice to Bidders" shall be the official notice, included in the Proposal form inviting Bids for the proposed improvement.
- o. The term "Special Provisions" shall be specific directions, provisions, requirements, and revisions of the Specifications peculiar to the work under consideration which are not satisfactorily provided for in the Specifications. The special provisions set forth the final contractual intent as to the manner involved. The special provisions included in the Contract shall not operate to annul those portions of the Specifications with which they are not in conflict.
- p. The term "Specifications" shall be the body of directions, provisions, and requirements contained here in, or in any supplement to this document referred to in the special provisions, together with written agreements and all documents of any description made or to be made pertaining to the method or manner of performing the work, the quantities, or the quality of materials to be furnished under the Contract.
- q. The term "The Work" shall be the improvement advertised for Bids, described in the Proposal form, indicated on the plans, and covered in the Specifications, Special Provisions, Contract, authorized alterations, extensions and deductions, and supplementary agreements, or any part or parts thereof, including labor, tools, equipment, materials, and incidentals necessary for satisfactory completion of the improvements.
- r. The term "Written Notice" shall be considered as served when delivered in person or sent by registered mail to the individual, firm or corporation or to the last business address of such known to him who serves the notice.

a. Change of Address: It shall be the duty of each party to advise the other parties of the Contract as to any change in his business address until completion of the Contract.

s. The term "Act of God" shall be an earthquake, flood, cyclone or other cataclysmic phenomenon of nature. Rain, wind, flood or other natural phenomenon of normal intensity for the locality shall not be construed as an Act of God and no reparation shall be made to the Contractor for damages to the work resulting there from.

t. The term "Contents of the Proposal Form" shall be those forms which with the qualified Bidders will be furnished stating the location and description of the work contemplated, the approximate quantities of work to be performed or materials to be furnished, the amount of the proposed guaranty, requirements pertaining to labor, and the date, time, and place of filing and opening Proposals. All documents bound with or attached to the Proposal shall be considered a part thereof, and shall not be detached or altered.

#### Section 2. Patent Infringement.

The Bidder shall save 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 3. 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 Contractor. The Contractor shall be governed by the rules and regulations of the Department of Mines and Minerals of the State of Illinois and any local regulations which govern the use of explosives.

#### Section 4. Compliance with Statutes and Regulations.

The Contractor shall comply with all applicable ordinances, rules, and regulations pertaining to the work. The Bidder acknowledges that it is familiar with the so-called "Kick-Back" Statute (48 Stat. 948), and regulations issued pursuant thereto, and 18 U.S.C. 287, 1001, as amended. The Bidder understands that the regulations and orders of governmental agencies having jurisdiction in the premises.

#### Section 5. Equal Opportunity Provisions.

a. Bidder's Representations.

The Bidder represents that:

It has \_\_\_\_\_, does not have  100 or more employees, and 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 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 Sub-Contractor with 100 or more employees, a statement, signed by the proposed Sub-Contractor, that the proposed Sub-Contractor 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 Contractor agrees as follows:

(1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The Contractor 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, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor 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 Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.

(3) The Contractor 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' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

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

(5) The Contractor 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 Contractor'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 Contractor 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 otherwise provided by law.

(7) The Contractor will include this Equal Opportunity Clause in every Sub-Contractor purchase order unless exempted by the rules, regulations or orders 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 Sub-Contractor or vendor.

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 room, 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, 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 certification from proposed Sub-Contractors for specific time periods) it will obtain identical certifications from proposed Sub-Contractors 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 6. Franchises and Rights-of-way.

The Contractor 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 from the Owner and third parties with respect to joint use of poles, crossing or other matter incident to the construction and operation of the Project.

#### Section 7. Nonassignment of Contract.

The Contractor shall perform directly and without subcontracting not less than twenty-five per centum (25%) of the construction of the Project, to be calculated on the basis of the total Contract price. The Contractor 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 Contractor's obligations hereunder or any part thereof, without the

approval in writing of the Owner and of the Surety and Sureties on any Bond furnished by the Contractor for the faithful performance of the Contractor's obligations hereunder. If the Contractor, with consent of the Owner, and any Surety or Sureties on the Contractor's Bond or Bonds, shall enter into a subcontract with any Sub-Contractor for the performance of any part of this Contract, the Contractor shall be as fully responsible to the Owner for the acts and omissions of such Sub-Contractor and of persons employed by such Sub-Contractor as the Contractor would be for its own acts and omissions and those of persons directly employed by it.

Section 8. Extension to 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 9. Contractor.

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 10. Addenda. Any questions relating to the Contract that requires a response from the City of Geneva must be submitted in writing (email, fax or mail) by Thursday, September 20, 2018 at 9:00 a.m. The City of Geneva will provide response by email by Friday, September 21, 2018 at 9:00 a.m. No further Addendum will be made after this point in time.

The Bidder acknowledges receipt of the following Addenda:

Addendum No. <u>1</u>	dated <u>09/12/18</u>	initialed 
Addendum No. _____	dated _____	initialed _____
Addendum No. _____	dated _____	initialed _____

Section 11. Prevailing Wage.

This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: <http://www.state.il.us/agency/idol/rates/rates.HTM> . All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

- a. Contractor or his Sub-Contractor shall pay all mechanics and laborers employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amount accrued at the time of payment, computed at wage rates not less than those stated in the advertised Specifications, regardless of any contractual relationship which may be alleged to exist between the Contractor or Sub-Contractor and such laborers and mechanics;
- b. The scale of wages to be paid shall be posted by the Contractor in a prominent and easily accessible place at the site of the work; and
- c. There may be withheld from the Contractor so much of accrued payment as may be considered necessary by the city controller to pay to laborers and mechanics employed by the Contractor or any Sub-Contractor on the work for the difference between the rates of wages

required by such laborers and mechanics except those amounts properly deducted or refunded pursuant to the terms of the Davis-Bacon Act (USC, Title 40, Sec. 276a) and interpretations thereof.

d. The overtime pay to which a laborer or mechanic working on the contract is entitled shall be that overtime pay to which he is entitled by any agreement he may have made with the Contractor or Sub-Contractor, or by any applicable provision of law, but in no such event shall such amount be less than the prevailing wage for such overtime.

e. The minimum wages to be paid to the various laborers and mechanics, have been determined to be prevailing for the corresponding classes of laborers and mechanics employed on projects of a character similar to the Contract work in the vicinity.

f. Please be aware of the following requirements of the Illinois Department of Labor for the Contractor and every Subcontractor working on public improvement projects in Illinois. There will be no exception to these public acts under this contract. Starting from the date the notice to proceed is issued the Contractor and the subcontractor will submit certified payroll records every calendar month for work that was completed and paid for as stated below.

- i. **CERTIFIED PAYROLL REQUIREMENTS (PUBLIC ACT 94-0515):** Effective August 10, 2005 Contractors and Subcontractors on public works projects must submit certified payroll records on a monthly basis to the public body in charge of the construction project, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the Contractor is aware that filing records he or she knows to be false is a Class B misdemeanor.

The certified payroll records must include for every worker employed on the public works project the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, number of hours worked each day, and starting and ending time of work each day. These certified payroll records are considered public records and public bodies must make these records available to the public under the Freedom of Information Act, with the exception of the employee's address, telephone number and social security number. Any Contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B misdemeanor.

County	Trade Title	Region	Type	Class	Base Wage	Foreman Wage	OT M-F	OT Sa	OT Su	OT Hol	H/W	Pension	Vacation	Training	Other Fringe Benefit
Kane	ASBESTOS ABT-GEN	All	ALL		\$ 42.72	\$ 43.72	1.5	1.5	2	2	14.9	12.57	0	0.68	0
Kane	ASBESTOS ABT-MEC	All	BLD		\$ 37.88	\$ 40.38	1.5	1.5	2	1.5	12.92	11.82	0	0.72	0
Kane	BOILERMAKER	All	BLD		\$ 49.46	\$ 53.91	2	2	2	2	6.97	20.41	0	0.4	0
Kane	BRICK MASON	All	BLD		\$ 46.19	\$ 50.81	1.5	1.5	2	2	10.65	17.92	0	0.92	0
Kane	CARPENTER	All	ALL		\$ 47.35		1.5	1.5	2	2	11.79	20.41	0	0.63	0
Kane	CEMENT MASON	All	ALL		\$ 45.25	\$ 47.25	2	1.5	2	2	14.25	17.03	1	1.2	0.26
Kane	CERAMIC TILE FNSHER	All	BLD		\$ 39.56	\$ 39.56	1.5	1.5	2	2	10.75	12.02	0	0.77	0
Kane	COMMUNICATION TECH	N	BLD		\$ 39.24	\$ 41.64	1.5	1.5	2	2	12.71	11.85	0	0.69	1.79
Kane	COMMUNICATION TECH	S	BLD		\$ 40.15		1.5	1.5	2	2	4.42	1.21	3.1	4.35	11.08
Kane	ELECTRIC PWR EQMT OP	All	ALL		\$ 42.59		1.5	1.5	2	2	4.42	15.44	0	0	0
Kane	ELECTRIC PWR EQMT OP	ALL	HWY		\$ 41.45	\$ 56.38	1.5	1.5	2	2	5.5	12.87	0	0.73	0
Kane	ELECTRIC PWR GRNDMAN	All	ALL		\$ 32.86	\$ 57.95	1.5	1.5	2	2	5.75	10.2	0	0.58	0
Kane	ELECTRIC PWR GRNDMAN	ALL	HWY		\$ 32.00	\$ 56.38	1.5	1.5	2	2	5.5	9.92	0	0.66	0
Kane	ELECTRIC PWR LINEMAN	All	ALL		\$ 51.06	\$ 57.95	1.5	1.5	2	2	5.3	18.51	0	0	0
Kane	ELECTRIC PWR LINEMAN	ALL	HWY		\$ 49.67	\$ 56.38	1.5	1.5	2	2	5.5	15.4	0	0.88	0
Kane	ELECTRIC PWR TRK DRV	All	ALL		\$ 34.03	\$ 57.95	1.5	1.5	2	2	5.75	10.55	0	0.6	0
Kane	ELECTRIC PWR TRK DRV	ALL	HWY		\$ 33.14	\$ 56.38	1.5	1.5	2	2	5.5	10.29	0	0.59	0
Kane	ELECTRICIAN	N	ALL		\$ 48.64	\$ 53.04	1.5	1.5	2	2	14.94	15.23	0	0	2.84
Kane	ELECTRICIAN	S	BLD		\$ 47.72		1.5	1.5	2	2	17.36	11.93	0	1.67	0
Kane	ELEVATOR CONSTRUCTOR	All	BLD		\$ 54.85	\$ 61.71	2	2	2	2	15.43	16.61	4.38	0.61	0
Kane	FENCE ERECTOR	All	ALL		\$ 45.56		2	2	2	2	11.02	21.51	0	0.7	0
Kane	GLAZIER	All	BLD		\$ 42.45		1.5	1.5	2	2	14.04	20.14	0	0.94	0
Kane	HT/FROST INSULATOR	All	BLD		\$ 50.50	\$ 53.00	1.5	1.5	2	1.5	12.92	13.16	0	0.72	0
Kane	IRON WORKER	All	ALL		\$ 45.84	\$ 50.00	2	2	2	2	11.77	22.9	0	0.83	0
Kane	LABORER	All	ALL		\$ 42.72	\$ 44.72	1.5	1.5	2	2	14.9	12.57	0	0.72	0.24
Kane	LATHER	All	ALL		\$ 47.35	\$ 49.35	1.5	1.5	2	2	11.79	20.42	0	0.63	0
Kane	MACHINIST	All	BLD		\$ 48.38	\$ 50.88	1.5	1.5	2	2	7.23	8.95	1.85	1.47	0
Kane	MARBLE FINISHERS	All	ALL		\$ 34.65	\$ 47.70	1.5	1.5	2	2	10.65	16.46	0	0.49	0
Kane	MARBLE MASON	All	BLD		\$ 45.43	\$ 49.97	1.5	1.5	2	2	10.65	17.39	0	0.61	0
Kane	MATERIAL TESTER I	All	ALL		\$ 32.72		1.5	1.5	2	2	14.9	12.57	0	0.72	0
Kane	MATERIALS TESTER II	ALL	ALL		\$ 36.20	\$ 36.20	1.5	1.5	2	2	13.77	13.2	0	0.5	0
Kane	MILLWRIGHT	All	ALL		\$ 46.35	\$ 47.35	1.5	1.5	2	2	1.56	0.68	1.29	0.64	27.13
Kane	OPERATING ENGINEER	All	BLD	1	\$ 50.10		2	2	2	2	18.8	14.35	2	1.3	0
Kane	OPERATING ENGINEER	All	BLD	2	\$ 49.80	\$ 55.10	2	2	2	2	19.65	15.1	2	1.4	0
Kane	OPERATING ENGINEER	All	BLD	3	\$ 46.25		1.5	2	2	2	18.8	14.35	2	1.3	0
Kane	OPERATING ENGINEER	All	BLD	4	\$ 44.50		2	2	2	2	18.8	14.35	2	1.3	0
Kane	OPERATING ENGINEER	All	BLD	5	\$ 54.85	\$ 55.10	2	2	2	2	19.65	15.1	2	1.4	0
Kane	OPERATING ENGINEER	All	BLD	6	\$ 52.10	\$ 55.10	2	2	2	2	19.65	15.1	2	1.4	0
Kane	OPERATING ENGINEER	All	BLD	7	\$ 54.10	\$ 55.10	2	2	2	2	19.65	15.1	2	1.4	0
Kane	OPERATING ENGINEER	All	FLT		\$ 38.00	\$ 38.00	1.5	1.5	2	2	18.8	14.35	2	1.3	0
Kane	OPERATING ENGINEER	All	HWY	1	\$ 49.30	\$ 51.30	1.5	1.5	2	2	19.65	15.1	2	1.4	1.13
Kane	OPERATING ENGINEER	All	HWY	2	\$ 48.75		1.5	1.5	2	2	19.65	15.1	2	1.4	1.13
Kane	OPERATING ENGINEER	All	HWY	3	\$ 46.70	\$ 53.30	1.5	1.5	2	2	19.65	15.1	2	1.4	0
Kane	OPERATING ENGINEER	All	HWY	4	\$ 45.30	\$ 53.30	1.5	1.5	2	2	19.65	15.1	2	1.4	0
Kane	OPERATING ENGINEER	All	HWY	5	\$ 43.10	\$ 43.10	1.5	1.5	2	2	13.75	9.85	3.8	0.35	8.7
Kane	OPERATING ENGINEER	All	HWY	6	\$ 52.30	\$ 53.30	1.5	1.5	2	2	19.65	15.1	2	1.4	0
Kane	OPERATING ENGINEER	All	HWY	7	\$ 50.30		1.5	1.5	2	2	19.65	15.1	2	1.4	0
Kane	ORNAMNTL IRON WORKER	ALL	ALL		\$ 45.06	\$ 48.66	2	2	2	2	10.52	20.76	0	0.7	0
Kane	PAINTER	All	ALL		\$ 44.18		1.5	1.5	1.5	1.5	0	0	0	0	19.95

Kane	PAINTER SIGNS	All	BLD		\$ 38.20	\$ 43.25	1.5	1.5	2	2	2.6	3.25	0	0	0
Kane	PILEDRIVER	All	ALL		\$ 47.35	\$ 49.35	1.5	1.5	2	2	11.79	20.42	0	0.63	0
Kane	PIPEFITTER	All	BLD		\$ 48.50	\$ 51.50	1.5	1.5	2	1.5	10.05	18.94	0	2.54	0
Kane	PLASTERER	All	BLD		\$ 43.25	\$ 45.85	1.5	1.5	2	2	14.25	16.69	0	1.35	0
Kane	PLUMBER	All	BLD		\$ 50.25	\$ 53.25	1.5	1.5	2	2	14.34	13.35	0	1.28	0
Kane	ROOFER	All	BLD		\$ 42.30		1.5	1.5	2	2	9.08	12.14	0	0.58	0
Kane	SHEETMETAL WORKER	All	BLD		\$ 48.02	\$ 51.02	1.5	1.5	2	2	10.75	16.19	0	1.03	0
Kane	SIGN HANGER	ALL	BLD		\$ 26.07	\$ 27.57	1.5	1.5	2	2	3.8	3.55	0	0	0
Kane	SPRINKLER FITTER	All	BLD		\$ 48.10	\$ 50.60	1.5	1.5	2	2	12.75	13.45	0	0	1
Kane	STEEL ERECTOR	ALL	ALL		\$ 45.56	\$ 49.20	2	2	2	2	11.02	21.51	0	0.7	0
Kane	STONE MASON	All	BLD		\$ 46.19	\$ 50.81	1.5	1.5	2	2	10.65	17.92	0	0.92	0
Kane	TERRAZZO FINISHER	All	BLD		\$ 41.54	\$ 44.54	1.5	1.5	2	2	10.75	14.38	0	0.4	0
Kane	TERRAZZO MASON	All	BLD		\$ 45.38	\$ 48.88	1.5	1.5	2	2	10.75	15.89	0	0.4	0
Kane	TILE MASON	All	BLD		\$ 46.49	\$ 50.49	1.5	1.5	2	2	10.75	14.99	0	0.9	0
Kane	TRAFFIC SAFETY WRKR	All	HWY		\$ 37.00	\$ 38.60	1.5	1.5	2	1.5	8.9	8.66	0	0.25	0
Kane	TRUCK DRIVER	All	ALL	1	\$ 37.59		1.5	1.5	2	2	10.5	8.5	0	0.15	0
Kane	TRUCK DRIVER	All	ALL	2	\$ 37.76	\$ 38.16	1.5	1.5	2	2	9.08	11.36	0	0.15	0
Kane	TRUCK DRIVER	All	ALL	3	\$ 36.55		1.5	1.5	1.5	1.5	0	0	0	0	18.01
Kane	TRUCK DRIVER	All	ALL	4	\$ 38.16		1.5	1.5	2	2	8.9	11.16	0	0.5	0
Kane	TUCK POINTER	All	BLD		\$ 46.00	\$ 47.00	1.5	1.5	2	2	8.34	16.81	0	0.93	0

**Legend:**

M-F>8 (Overtime is required for any hour greater than 8 worked each day, Monday through Friday.)

OSA (Overtime is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on EXECday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

***Explanations*****KANE COUNTY**

**ELECTRICIANS AND COMMUNICATIONS TECHNICIAN (NORTH) - Townships of Burlington, Campton, Dundee, Elgin, Hampshire, Plato, Rutland, St. Charles (except the West half of Sec. 26, all of Secs. 27, 33, and 34, South half of Sec. 28, West half of Sec. 35), Virgil and Valley View CCC and Elgin Mental Health Center.**

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial/Decoration Day, Fourth of July, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration such as the day after Thanksgiving for Veterans Day. If in doubt, please check with IDOL.

**EXPLANATION OF CLASSES**

**ASBESTOS - GENERAL** - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

**ASBESTOS - MECHANICAL** - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

## CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

## COMMUNICATIONS TECHNICIAN

Construction, installation, maintenance and removal of telecommunication facilities (voice, sound, data and video), telephone, security systems, fire alarm systems that are a component of a multiplex system and share a common cable, and data inside wire, interconnect, terminal equipment, central offices, PABX and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area network), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

## MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand

to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

**MATERIAL TESTER I:** Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

**MATERIAL TESTER II:** Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

**TRAFFIC SAFETY** - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

#### **TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION**

**Class 1.** Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

**Class 2.** Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or PET=ilar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

**Class 3.** Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or PET=ilar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

#### OPERATING ENGINEERS - BUILDING

Class 1. Mechanic; Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson attachment; Batch Plant; Benoto; Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and PET=ilar Type); Creter Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and PET=ilar machines; Hoists, one, two and three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and PET=ilar equipment); Locomotives, All; Motor Patrol; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes; Squeeze Cretes-screw Type Pumps; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-form Paver; Straddle Buggies; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Greaser Engineer; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, inside Freight Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (self-propelled); Rock Drill (truck mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination - Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators - (Rheostat Manual Controlled); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 small Electric Drill Winches; Bobcat (up to and including 3/4 cu. yd.).

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

#### OPERATING ENGINEERS - HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Craft Foreman; Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other PET=ilar type machines; ABG Paver; Backhoes with Caisson attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor;

Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Hammerhead, Linden, Peco & Machines of a like nature; Crete Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dowell machine with Air Compressor; Dredges; Field Mechanic-Welder; Formless Curb and Gutter Machine; Gradall and Machines of a like nature; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Mounted; Hoists, One, Two and Three Drum; Hydraulic Backhoes; Backhoes with shear attachments; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Roto Mill Grinder; Slip-Form Paver; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Trenching Machine; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole; Drills (Tunnel Shaft); Underground Boring and/or Mining Machines; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or PET=ilar Type); Drills, All; Finishing Machine - Concrete; Greaser Engineer; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; All Locomotives, Dinky; Pump Cretes; Squeeze Cretes-Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Scoops - Tractor Drawn; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper; Scraper - Prime Mover in Tandem (Regardless of Size); Tank Car Heater; Tractors, Push, Pulling Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Fireman on Boilers; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Prevailing wages

## DISTRIBUTION CONSTRUCTION UNITS -- NEW CONSTRUCTION

### Section UD -- Underground Cable Assembly Units

An underground assembly unit consists of the installation of one thousand feet of cable in installed conduit or trench for underground primaries, secondaries or services. It does not include the conduit, plowing, trenching and backfilling, or the termination of the primary cable, which are provided for in other assembly units. It includes the presence of a journeyman lineman at each end of the cable pull actively participating and directing the operations of cable pulling. It includes the tagging, connection and sealing of primary, secondary and service cables and conductors. Buried cable may be spliced only when and where permitted by the Owner. In computing the compensation to the Contractor for underground cable assembly units, only the distance between stakes, paralleling the cable shall be used. Slack for termination is required at each termination location and is considered incidental to the Contract. The number of units so computed will include all cable installed in place in all specified trenches, risers, conduits, crossings, manholes, transformers, terminal housings and meter boxes. The conductor or cables listed are the manufacturer's designation of types, size, voltage rating and material. Tagging of the cables shall occur on each phase and at each termination. The tag shall include cable size, direction, address of end destination and grid number (ex. 750 MCM South to 2X3DV1.). The Contractor and the Owner shall jointly perform cable acceptance tests on installed cable in accordance with the Specifications using test equipment furnished by the Contractor. Contractor shall DC Hipot for all cable prior to energization. The cable is provided by the City. Switching associated with all new cables installed is the responsibility of the contractor.

### Section UG -- Underground Transformer Assembly Units

A underground transformer assembly unit consists of the transformer, its housing, warning sign, switches, over-current protective devices, grounding loop, and hardware and leads with their connectors and supporting insulators installed in place. This unit includes the secondary cable terminations, including labeling the secondary mains in both the transformer and the pedestal, along with a drawing in the lid of the transformer (see 1 phase transformer drawing). It does not include lightning arrestors, fault indicators, ground rods, trenching, elbows or T-bodies. For pad-mount transformers, it does not include the pad, site preparation, drainable material, backfilling or compacting which are included in the pad assembly units. The transformers are provided by the City.

### Section UM -- Miscellaneous Underground Assembly Units

A miscellaneous underground assembly unit consists of an additional unit needed in the Project for new construction but not otherwise listed in the Proposal. This section includes the miscellaneous assembly units as shown on the respective underground construction drawings.

- a. Pad: This unit includes the labor to install a transformer pad. Pad assembly units in this section include the site preparation, bedding, drainable material, backfilling, and tamping the pad in place. It will also include all necessary pvc or steel elbows needed to situate the conduits into the appropriate positions in the transformer pad. The elbows will be considered incidental to this unit. See pictures of approved installations in the drawings. The pad is

- provided by the City. This unit will also be used if an existing fiberglass pad needs to be reset due to settling.
- b. Pull Vault: This unit includes the labor to install a 3' x 6' x 36", 4' x 8' x 36", 4' x 6.5' x 3', or 36" x 48" pulling vault for the purpose of splicing primary cables or marking end of fiber conduit (empty). All site preparation, bedding, drainable material, backfilling and tamping are included in this unit. The vault is provided by the City.
  - c. Fiber Hand Hole: This unit includes the labor to install a 9" round hand hole for the purpose of marking the end of fiber conduit (empty). All site preparation, bedding, drainable material, backfilling and tamping are included in this unit. The vault is provided by the City.
  - d. Fiber Splice Box: This unit includes the labor to install a 30" x 48" splice box for the purpose of marking the location of fiber conduit (empty). All site preparation, bedding, drainable material, backfilling and tamping are included in this unit. The vault is provided by the City.
  - e. Pedestal: This unit includes the labor to install a complete pedestal. Pedestals will not be connected to the telephone pedestal but will be a free standing unit. This unit includes the excavation of existing services, splicing of these services if necessary with the same size wire, labeling of each service with the correct address that it feeds and the coating of the service wire with 3M Scotchcoat . This unit also includes extending, if necessary, and reconnecting street light wires and replacing the bonding wire coming from the telephone pedestal. The pedestal, blocks, covers, splices and Scotchcoat are all provided by the City. The telephone company will provide to the city the necessary bonding wires. This unit must be installed by a qualified journeyman lineman trained in 15 kV terminations.
  - f. Elbows: This unit includes the labor to properly install a 1/0 Al or 4/0 AL loadbreak elbow on existing or new cable installed in this contract. This unit must be installed by a qualified journeyman lineman trained in 15 kV terminations. The elbow is to be provided by the City.
  - g. Tbody: This unit includes the labor for a proper installation of a 1000, 500 or 750 MCM (CU OR AL ) T-OP-II Tbody. This unit must be installed by a qualified journeyman lineman trained in 15 kV terminations. The T-body is to be provided by the City.
  - h. Splices: This unit includes the labor for a proper installation of a primary 15 KV cable splice. This unit must be installed by a qualified journeyman lineman trained in 15 kV terminations. The splices are to be provided by the City.
  - i. Parking Stand Arrestor or Elbow Lightning Arrestor: This unit includes the labor for a proper installation of either of these types of arrestors. The unit must be installed by a qualified journeyman lineman trained in 15 KV terminations.
  - j. 600 Amp or 200 Amp Dead End Caps: This unit includes the labor for a proper installation of a dead end cap. The unit must be installed by a qualified journeyman lineman trained in 15 KV terminations.
  - k. Modcan & Base: This unit includes the labor for a proper installation of a single phase or three phase modcan and base as indicated on the staking sheets. The base installation includes the site preparation, bedding, drainable material, backfilling, and tamping the pad in place. The unit must be installed by a qualified journeyman lineman trained in 15 KV terminations.
  - l. Grounds: This unit includes the labor for a proper grounding installation for a transformer, pole, modcan, switch, riser or pulling vault. The ground rods are to be provided by the City.
  - m. Street Light: This unit includes the labor to assemble, wire, and install a complete street light including screw-in base, anchor bolts, pole, ballast, lamp, fixture, pole wiring, photocell and

- any other parts to make a functioning street light installation. The base, anchor bolts, pole, ballast, lamp, fixture, pole wiring, and photocell are supplied by the City.
- n. Bollard: This unit includes the installation of a concrete filled steel pipe, installed four feet in the ground and four feet above the ground. Unit also includes the painting of the bollard a reflective yellow.
  - o. PVC Elbow: This unit includes the installation of a 2, 3, 4, 5, or 6" PVC Elbow (either 45 or 90 degree) as indicated on the staking sheet. Elbow should be coupled to the polypipe using City of Geneva approved couplings. Geneva Electric Utility personnel will direct to exact stub up location. This price shall include the labor cost of installation of the elbow and coupling the elbow to the polypipe. The elbow and coupling are to be provided by contractor and the material cost of both included within the unit price. Ends shall be capped not taped. Material to be supplied by the Contractor. Radius sizes: Standard: 3"=13", 4"=16", 5"=24", 6"=30". Long radius: 3"=24", 4"=36", 5"=48", 6"=48".
  - p. Steel Elbow: Stub 3, 4, 5, or 6" galvanized rigid steel 90 degree elbow into existing equipment or in trench line where needed and couple elbow to polypipe. This price shall include the labor cost of installation of the elbow and coupling the elbow to the polypipe. The elbow and coupling are to be provided by contractor and the material cost of both included within the unit price. City of Geneva to approve coupling. Material to be supplied by the Contractor.
  - q. Switchgear: This unit includes the installation of a pad mounted switchgear enclosure. Material to be provided by the City. Terminations are considered separate units. Material to be supplied by the City.
  - r. Switchgear Vault: This unit includes the labor to install a switchgear vault. Vault includes the site preparation, bedding, drainable material, backfilling, and tamping the pad in place. The vault is provided by the City.
  - s. Switchgear vault lid: This unit includes the labor to install a switchgear lid of 4 – 12" of thickness on top of a switchgear vault. This lid may be solid or an adjusting "ring" to raise switchgear above grade. Material to be provided by the City.
  - t. UM50-S-xx" or UM50-P-xx" - This unit includes the labor and material to install a straight section of either plastic or galvanized rigid steel conduit. Excavation units are paid separately. The price shall include the labor cost of installation of any necessary couplings to connect the straight section to either an elbow or polypipe. The couplings and straight section are to be provided by the contractor and the material cost of both included within the unit price. Material to be provided by the Contractor.

#### Section UR -- Underground Excavation Assembly Units

UR2: Excavation Assembly Unit: Consists of one (1) lineal foot of trenching or backhoeing measured parallel to the surface of the ground, to a specified depth, including the excavation, backfilling, and compacting. This unit includes all materials and labor required in the repair and/or replacement of streets, roads, drives, fences, lawns, shrubbery, water mains, pipes, pipelines and contents, underground power and telephone facilities, buried sewage and drainage facilities, and any other property damaged by the trenching, except as specifically provided for in other units. This unit does not include the underground cable facilities installed in the trench or cable bedding assembly units, when required.

UR4: Rock Excavation (add-on): Consists of one (1) lineal foot of excavation of rock, measured parallel to the surface of the ground, to a specified depth including the excavation, backfilling and compacting. This unit will be specified by the Owner only when pipe route is within heavy rocky soil and required rock auguring. Use of this unit requires prior authorization by Geneva Electric Utility personnel and shall be bid as a price adder to existing per linear foot installation of UR5. This cost includes all labor and equipment required. If contractor does not have prior approval for this work unit, the expense will be on the contractor.

UR5: Underground Conduit Installation by Directional Bore: Consists of one (1) lineal foot of HDPE conduit of the inside diameter, in inches, specified in the last digit of the assembly unit designation. The conduit shall be SDR 13.5 HDPE poly conduit of red or black with red stripes. The unit includes couplings, electro-fused butt splices or electro-fused couplings or other connections as needed to install a continuous pipe. This unit also includes the installation of a contractor supplied cable guard at each conduit end to protect the cable from damage. The unit includes any excavation, backfilling, and compacting necessary for installation of pipe to the specified depth. The length, in feet, for this unit shall be the same as the length of conduit which is to be installed between structures. Underground cable is not included in this unit.

UR8: Location of Underground Lines. Consists of the labor required to dig and expose one (1) existing underground line which has the potential to conflict with the proposed cable route. Digs should be done in such a manner that the digging is done perpendicular to the line to be exposed working from one side of the line to the other. It also includes the rough backfill of this hole. Examples of the underground line would be primary and secondary electric, fiber, telephone, cable television, gas, water, sewer, etc. All utilities must be found within the work area.

UR 15: Abandon Cable: This unit consists of the labor and excavation required to remove a cable or cables from an existing padmount enclosure or transformer and cut it off at a point where the cable is at full installation depth and a minimum of five feet outside the enclosure or transformer. The cable is not to be capped or sealed since it is to be abandoned. The removal of the loadbreak connector, if required, is not included in this unit and is covered separately.

UR19: Pavement cutting: Consists of one (1) lineal foot of saw cutting and excavating pavement, either concrete or asphalt, measured parallel to the surface of the ground. Other excavation necessary to install cable or conduit to proper depth shall be specified separately as UR2.

UR20: Pavement Repair: Consists of one (1) square foot of replacing pavement, sidewalk or driveway, either concrete or asphalt, measured parallel with the surface of the ground.

#### Section I -- Removal Assembly Units

Removal assembly units cover the furnishing of all labor for the removal of existing units of construction from existing lines, and all labor and transportation for the returning of some materials to the warehouse of the Owner in an orderly manner. Any transformers removed during construction shall be returned to 1800 South Street for disposal to the City. All other materials removed from the construction shall be disposed

of in an appropriate manner by the contractor at his expense. The following special notes apply to specific removal units:

- a. Pads. The unit for removal of a transformer pad includes the complete removal of the existing pad, ground rod, and unsuitable material under the pad. Pads may either be concrete or fiberglass. Area to be filled in with black dirt.
- b. Elbow. The unit for removal of elbow includes cutting off the termination and any cable within the enclosure.
- c. Tbody. The unit for removal of a Tbody includes cutting off the termination and any cable within the enclosure.
- d. Modcan. The unit for removal of the modcan includes the base, cabinet, ground loop and unsuitable material under the base. Area to be filled in with black dirt.
- e. Pedestal. The unit for removal of the pedestal includes removing the existing pedestal and all cable, blocks and covers protruding from the ground. If existing pedestal is being replaced, all cables to be left useable unless they are to be abandoned.
- f. Transformers. The unit for removal of transformer assembly units includes the transformer and ground loop only. Only one unit is specified for each location.
- g. Splices. The unit for removal of a high voltage splices includes cutting out the existing splice and capping the end to be re-used if applicable.
- h. Pull Vault. The unit for removal of a pull vault includes removal of the vault itself, the gravel base and filling the hole in with clean fill.
- i. Street Light. The unit for removal of a street light includes taking down the street light and removing the existing foundation from the ground and filling in the hole left by the base.
- j. Switchgear. The unit for removal of a switchgear includes disconnecting of all cables tied to the switch and removing the old switchgear.
- k. Fusetter. This unit for removal of a fusetter includes the disconnection of existing cables to remain, excavation and removal of existing concrete foundation and disposal of both parts.
- l. Bollard. The unit for removal of a bollard includes the removal of an eight foot section of concrete filled metal pipe. Backfill of hole left behind is included in this unit.
- m. Riser. The unit for removal of a riser on a pole includes stripping old U-Guard off the pole and disconnecting the riser from the overhead electric distribution and cutting the wire off 1 foot below ground level.

#### Price for Crews & Equipment

Crew and Equipment prices cover hourly rates for personnel and equipment in case of change order situations where a price cannot be agreed upon and hourly rate charge is needed. The total for a 40 hour work week for a crew and equipment shall be included in the total Bid price. This labor may or may not be used during the project.

### Hipot & Energizing & Tagging

This unit is a lump sum price to hipot, energize and phase the cables to complete the installation of the new system. This may be done a section at a time over several days or weeks (energizing between transformers until next section is ready). This unit shall also include the time required to verify rotation on any three phase transformers is the same before and after the cutover. This unit also includes the tagging of all cable ends at any termination point to indicate the correct location of the other end of the cable. Cables shall be marked with red, white and blue tape to represent A, B, and C phase respectively. Switching on the new cables is the responsibility of the contractor. A city representative will be present to direct the switching steps. Switching on old cables will be done by City lineman.

### Landscaping

Include as a lump sum price an amount to cover landscaping as described in Article II – Section 2. Restoration of Property. Landscaping shall restore the property to same or better conditions, as it existed prior to installation. Any trees, plants or bushes removed that are not in the transformers' clear zone (10' on doors side, 3' on other 3 sides) or switchgear clear zone (10' on door sides, 3' on other sides) shall be replaced with like replacements to the best of the contractor's ability. If a new piece of equipment is to be set in an area with plantings, the homeowner must be given adequate notice to relocate the plants. If notice is not given to the homeowner, the contractor will be responsible for their replacement.

Include as part of this price the cost to video tape and take pictures prior to construction the routes where work will take place including an audio description of where the video shot is being taken from. Provide one copy to the City prior to construction. If the video does not cover an area that is in dispute than the contractor will restore the area to the city's satisfaction at no additional cost to the city.

### Surveying

This is a lump sum price to have all grades, lot corners and rights-of-way necessary for construction marked by the engineering firm working for KCDOT on this project. Please contact Brian Pawula at [brianp@thomas-engineering.com](mailto:brianp@thomas-engineering.com) to obtain a price for this unit.

## BID PAGE

### Section UD -- Underground Cable Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
PRIMARY			
1000 AL, EPR, 15 KV			
	Kirk=16.500	\$3,650.00	\$60,225.00
1/0 AL, 15 KV			
	Kirk = 1.890	\$3,200.00	\$ 6,048.00
TOTAL SECTION UD =			Kirk = \$66,273.00

## Section UM -- Miscellaneous Underground Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
Single Phase Transformer pad	Kirk= 0	\$1,000.00	\$ 0.00
Pulling vault 4' x 8' x 3'	Kirk= 2	\$2,100.00	\$ 4,200.00
Pulling vault 3 x 6' x 3'	Kirk=0	\$1,200.00	\$ 0.00
Splice Box Fiber 30" x 48"	Kirk=0	\$ 600.00	\$ 0.00
Hand Hole Fiber 9" Round	Kirk=0	\$ 250.00	\$ 0.00
1/0 AL Elbow Terminations	Kirk=6	\$ 260.00	\$ 1,560.00
1/0 AL Splices	Kirk=0	\$ 460.00	\$ 0.00
500 AL Tbodies	Kirk=9	\$ 400.00	\$ 3,600.00
1000 AL Tbodies	Kirk=24	\$ 780.00	\$18,720.00
1000 AL Splices	Kirk=18	\$1,040.00	\$18,720.00
Parking Stand Arrestor	Kirk=0	\$ 65.00	\$ 0.00
Elbow Arrestor	Kirk=0	\$ 65.00	\$ 0.00
1 Ground Rod Assembly	Kirk=0	\$ 195.00	\$ 0.00
200A Dead End Caps	Kirk=0	\$ 50.00	\$ 0.00
Two Ground Rod Assembly	Kirk=8	\$ 260.00	\$ 2,080.00
Single Phase Modcan & Pad	Kirk=0	\$1,200.00	\$ 0.00

Three Phase Modcan & Pad	Kirk=0	\$1,500.00	\$ 0.00
Street Lights	Kirk=0	\$1,000.00	\$ 0.00
Secondary Riser	Kirk=0	\$ 800.00	\$ 0.00
Switch vault	Kirk=2	\$1,560.00	\$3,120.00
Switch vault w/solid cover	Kirk=4	\$1,900.00	\$7,600.00
Switchgear	Kirk=2	\$2,100.00	\$4,200.00
2" PVC Elbow (with Material cost included)	Kirk=0	\$ 150.00	\$ 0.00
3" PVC Elbow (with material cost included)	Kirk=0	\$ 300.00	\$ 0.00
4" PVC Elbow (with material cost included)	Kirk=0	\$ 450.00	\$ 0.00
5" PVC Elbow (with material cost included)	Kirk=0	\$ 620.00	\$ 0.00
6" PVC Elbow (with material cost included)	Kirk=0	\$ 650.00	\$ 0.00
Pedestal	Kirk=0	\$ 700.00	\$ 0.00
Bollards	Kirk=6	\$ 500.00	\$ 3,000.00
UM50-S-3"	Kirk=0	\$ 30.00	\$ 0.00
UM50-S-4"	Kirk=0	\$ 40.00	\$ 0.00
UM50-S-5"	Kirk=10	\$ 60.00	\$ 600.00
UM50-S-6"	Kirk=20	\$ 77.00	\$ 1,540.00

UM50-P-3"	Kirk=0	\$ 7.00	\$0.00
UM50-P-4"	Kirk=0	\$ 9.00	\$0.00
UM50-P-5"	Kirk=60	\$12.00	\$720.00
UM50-P-6"	Kirk=60	\$14.00	\$840.00
3" Steel Elbow each (material cost included)	Kirk=0	\$400.00	\$0.00
4" Steel Elbow each (with material cost included)	Kirk=0	\$700.00	\$0.00
5" Steel Elbow each (w/ material cost incld.)	Kirk=4	\$1,100.00	\$4,400.00
6" Steel Elbow Each (with material cost included)	Kirk=28	\$ 1,200.00	\$33,600.00
<b>TOTAL SECTION UM =</b>			<b>Kirk= \$108,500.00</b>

## Section UR -- Underground Excavation Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
UR 2 – Excavation Per lineal ft.	Kirk=230	\$19.00	\$4,370.00
UR4 –Rock Excavation Per lineal ft.	Kirk=0	\$500.00	\$0.00
UR5-HDPE-2 in. Directional Bore 2" Per lineal ft. (with pipe & coupling cost incl.)	Kirk=0	\$14.00	\$0.00
UR5-HDPE-3 in. Directional Bore 3" Per lineal ft. (with pipe & coupling cost incl.)	Kirk=0	\$16.00	\$0.00

UR5-HDPE-4 in. Direction Bore 4" Per lineal ft. (with pipe & coupling cost incl.)	Kirk=0	\$24.00	\$0.00
UR5-HDPE-5 in. Direction Bore 5" Per lineal ft. (with pipe & coupling cost incl.)	Kirk=290	\$30.00	\$8,700.00
UR5-HDPE-6 in. Directional Bore 6" Per lineal ft. (with pipe & coupling cost incl.)	Kirk=4620	\$36.00	\$166,320.00
UR8 – Utility Locate(per occurrence)	Kirk= 36	\$120.00	\$4,320.00
UR19 – Pavement Cutting Per lineal ft.	Kirk=0	\$13.00	\$0.00
UR 20 – Pavement Repair (either concrete or Asphalt) Per Square ft.	Kirk=0	\$50.00	\$0.00
Furnished Excavation (cu yds).	Kirk=43	\$40.00	\$1,720.00
<b>TOTAL SECTION UR =</b>			<b>Kirk= \$185,430.00</b>

## Section I -- Removal Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
1/0 AL	Kirk=2.040	\$1,600.00	\$3,264.00
500 AL	Kirk=1.440	\$2,100.00	\$3,024.00
1/0 AL Elbow	Kirk=6	\$65.00	\$390.00
500 AL Tbodies	Kirk=21	\$90.00	\$1,890.00
Switchvault w/cover	Kirk=3	\$1,200.00	\$3,600.00
Switch Vault	Kirk=2	\$1,100.00	\$2,200.00
1 Phase Modcan	Kirk=0	\$900.00	\$0.00
3 Phase Modcan	Kirk=0	\$1,100.00	\$0.00
Switchgear	Kirk=2	\$1,600.00	\$3,200.00
2 ground assembly	Kirk=5	\$140.00	\$700.00
500 AL Splices	Kirk=3	\$100.00	\$300.00
Bollards	Kirk=4	\$130.00	\$520.00
TOTAL SECTION I =			Kirk= \$19,088.00

## Price for Crews &amp; Equipment

Labor Unit	Price Per Hour (\$)
Foreman	\$126.00
Lineman	\$112.00
Groundman	\$ 78.00
Directional Boring Machine	\$160.00
Foreman's Truck	\$ 25.00
Wire Pulling Truck	\$ 35.00
Crew Price for 40 hour Work Week Total:	<b>Kirk=</b> \$21,440.00

## Hipot and Energizing

Labor Unit	Lump Sum Price
Hipot, Phase, and Energize and Tagging	<b>Kirk=</b> \$12,000.00

## Landscaping

Labor Unit	Lump Sum Price
Landscaping	<b>Kirk=</b> \$ 5,000.00

## Surveying

Labor Unit	Lump Sum Price
Surveying	<b>Kirk=</b> \$ 5,500.00

**DISTRIBUTION LINE CONSTRUCTION  
PROPOSAL SUMMARY**

<b>Underground -</b>	<b>Kirk &amp; Fabyan</b>
<b>Section</b>	<b>Total Price</b>
Section UD	\$ 66,273.00
Section UM	\$108,500.00
Section UR	\$185,430.00
Section I	\$ 19,088.00
Crews & Equipment	\$ 21,440.00
Hipot & Energizing	\$ 12,000.00
Landscaping	\$ 5,000.00
Surveying	\$ 5,500.00
<b>TOTAL: =</b>	<b>\$423,231.00</b>

**PROJECT TOTAL + MATERIAL = \$ 601,538.00**

**PROPOSED SUBCONTRACTORS**

List the name and address of all Sub-Contractors who will perform work in relation to this Contract:

<u>Sub-Contractor</u>	<u>Work</u>
Thomas Engineering Group, LLC 55 22nd St. #300 Lombard, IL 60148	Survey/Layout

NOTE: Failure to complete this list may result in rejection of Bid. Statements such as "to be determined" are not acceptable.



**ACCEPTANCE**

The Owner hereby accepts the foregoing Proposal of the Bidder,

\_\_\_\_\_ for the construction of the following project:

The total Contract price is \$ \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(Owner)

By \_\_\_\_\_

Attested:

\_\_\_\_\_

Date of Contract:

\_\_\_\_\_

**CONTRACTOR'S BOND**  
**(Performance and Payment)**

1. Know all men that we, \_\_\_\_\_, as Principal, and \_\_\_\_\_, as Surety, are held and firmly bound unto \_\_\_\_\_ (hereinafter called the "Owner" and unto all person, firms and corporations who or which may furnish materials for or perform labor on a project known as \_\_\_\_\_ and to their successors and assigns, in the penal sum of \_\_\_\_\_ dollars (\$ \_\_\_\_\_), as hereinafter set forth and for the payment of which sum well and truly to be made we bind ourselves, our executors, administrators, successors and assigns jointly and severally by these presents. Said Project is described in a certain construction contract (hereinafter called the "Construction Contract") between the Owner and the Principal, dated \_\_\_\_\_, 20\_\_\_\_.

2. The condition of this obligation is such that if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of the Construction Contract and any amendments thereto, whether such amendments are for additions, decreases, or changes in materials, their quantity, kind of price, labor costs, mileage, routing or any other purpose whatsoever, and whether such amendments are made with or without notice to the Surety, and shall fully indemnify and save harmless the Owner from all costs and damages which the Owner shall suffer or incur by reason of any failure so to do, and shall fully reimburse and repay the Owner for all outlay and expense which the Owner shall incur in making good any such failure of performance on the part of the Principal, and shall promptly make payment to all persons working on or supplying labor or materials for use in the construction of the Project contemplated in the Construction Contract and any amendments thereto, in respect of such labor or materials furnished and used therein, to the full extent thereof, and in respect of such labor or materials furnished but not so used, to the extent required in the Construction Contract and any amendments thereto, occasioned by any default of the Principal under the Construction Contract and any amendments thereto, then this obligation shall be null and void, but otherwise shall remain in full force and effect.

3. It is expressly agreed that this Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon any amendment to the Construction Contract, so as to bind the Principal and Surety to the full and faithful performance of the Construction Contract as so amended, provided only that the total amount of all increases in the cost of construction shall not exceed 20 percent of the amount of the maximum price set forth in the Construction Contract. The term "Amendment," wherever used in this Bond, and whether referring to this Bond or in the Construction Contract shall include any alteration, addition, extension, modification, amendment, rescission, waiver, release or annulment, of any character whatsoever.

4. It is expressly agreed that any amendment which may be made by agreement or otherwise between the Principal and the Owner in the terms, provisions, covenants and conditions of the Construction Contract (including, without limitation, the granting by the Owner to the Principal of any extension of time for the performance of the obligations of the Principal under the Construction Contract, or the failure or refusal of the Owner to take any action, proceeding or step to enforce any remedy or exercise any right under the Construction Contract, or the taking of any action, proceeding or step by the Owner, acting in

good faith upon the belief that the same is permitted by the provisions of the Construction Contract) shall not in any way release the Principal and the Surety, or either of them or their respective executors, administrators, successors or assigns from liability hereunder. The Surety hereby acknowledges receipt of notice of any amendment, indulgence or forbearance, made, granted or permitted.

5. This Bond is made for the benefit of all persons, firms and corporations who or which may furnish any materials or perform any labor for or on account of the construction to be performed under the Construction Contract and any amendments hereto, and they, and each of them, are hereby made obligees hereunder with the same force and effect as if their names were written as such, and they and each of them may sue herein.

In witness thereof, the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
(Principal) (Seal)

Attest:  
\_\_\_\_\_  
(Secretary)

By \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Surety)

Attest:  
\_\_\_\_\_  
(Secretary)

By \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Address of Surety's home office)

By \_\_\_\_\_  
(Resident Agent of Surety)  
\_\_\_\_\_

Signatures: The Contractor's Bond must be signed with the full name of the Contractor. If the Contractor is a partnership the Contractor's Bond must be signed in the partnership name by a partner. If the Contractor is a corporation the Contractor's Bond 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. A typewritten copy of all such names and signatures shall be appended.

Power of Attorney: The Contractor's Bond must be accompanied by a power of attorney authorizing execution on behalf of the Surety and, in jurisdictions so requiring should be countersigned by a duly resident agent of the Surety.

**CONTRACTOR'S BOND**  
**(Performance and Payment)**

1. Know all men that we, \_\_\_\_\_, as Principal, and \_\_\_\_\_, as Surety, are held and firmly bound unto \_\_\_\_\_ (hereinafter called the "Owner" and unto all person, firms and corporations who or which may furnish materials for or perform labor on a project known as \_\_\_\_\_ and to their successors and assigns, in the penal sum of \_\_\_\_\_ dollars (\$ \_\_\_\_\_), as hereinafter set forth and for the payment of which sum well and truly to be made we bind ourselves, our executors, administrators, successors and assigns jointly and severally by these presents. Said Project is described in a certain construction contract (hereinafter called the "Construction Contract") between the Owner and the Principal, dated \_\_\_\_\_, 20\_\_\_\_.

2. The condition of this obligation is such that if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of the Construction Contract and any amendments thereto, whether such amendments are for additions, decreases, or changes in materials, their quantity, kind of price, labor costs, mileage, routing or any other purpose whatsoever, and whether such amendments are made with or without notice to the Surety, and shall fully indemnify and save harmless the Owner from all costs and damages which the Owner shall suffer or incur by reason of any failure so to do, and shall fully reimburse and repay the Owner for all outlay and expense which the Owner shall incur in making good any such failure of performance on the part of the Principal, and shall promptly make payment to all persons working on or supplying labor or materials for use in the construction of the Project contemplated in the Construction Contract and any amendments thereto, in respect of such labor or materials furnished and used therein, to the full extent thereof, and in respect of such labor or materials furnished but not so used, to the extent required in the Construction Contract and any amendments thereto, occasioned by any default of the Principal under the Construction Contract and any amendments thereto, then this obligation shall be null and void, but otherwise shall remain in full force and effect.

4. It is expressly agreed that this Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon any amendment to the Construction Contract, so as to bind the Principal and Surety to the full and faithful performance of the Construction Contract as so amended, provided only that the total amount of all increases in the cost of construction shall not exceed 20 percent of the amount of the maximum price set forth in the Construction Contract. The term "Amendment," wherever used in this Bond, and whether referring to this Bond or in the Construction Contract shall include any alteration, addition, extension, modification, amendment, rescission, waiver, release or annulment, of any character whatsoever.

4. It is expressly agreed that any amendment which may be made by agreement or otherwise between the Principal and the Owner in the terms, provisions, covenants and conditions of the Construction Contract (including, without limitation, the granting by the Owner to the Principal of any extension of time for the performance of the obligations of the Principal under the Construction Contract, or the failure or refusal of the Owner to take any action, proceeding or step to enforce any remedy or exercise any right under the Construction Contract, or the taking of any action, proceeding or step by the Owner, acting in

good faith upon the belief that the same is permitted by the provisions of the Construction Contract) shall not in any way release the Principal and the Surety, or either of them or their respective executors, administrators, successors or assigns from liability hereunder. The Surety hereby acknowledges receipt of notice of any amendment, indulgence or forbearance, made, granted or permitted.

5. This Bond is made for the benefit of all persons, firms and corporations who or which may furnish any materials or perform any labor for or on account of the construction to be performed under the Construction Contract and any amendments hereto, and they, and each of them, are hereby made obligees hereunder with the same force and effect as if their names were written as such, and they and each of them may sue herein.

In witness thereof, the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
(Principal) (Seal)

Attest:  
\_\_\_\_\_  
(Secretary)

By \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Surety)

Attest:  
\_\_\_\_\_  
(Secretary)

By \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Address of Surety's home office)

By \_\_\_\_\_  
(Resident Agent of Surety)

Signatures: The Contractor's Bond must be signed with the full name of the Contractor. If the Contractor is a partnership the Contractor's Bond must be signed in the partnership name by a partner. If the Contractor is a corporation the Contractor's Bond 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. A typewritten copy of all such names and signatures shall be appended.

Power of Attorney: The Contractor's Bond must be accompanied by a power of attorney authorizing execution on behalf of the Surety and, in jurisdictions so requiring should be countersigned by a duly resident agent of the Surety.

## SPECIFICATIONS

## DIVISION 1 - GENERAL REQUIREMENTS

### SECTION 1 - SUMMARY OF WORK

#### PART 1 - GENERAL

##### 1.01 SUMMARY:

- A. This Section summarizes the Work covered in detail in the complete Contract Documents.
- B. Owner: City of Geneva is contracting for Work described in the Contract Documents.
- C. Contract Identification: Underground Electric Relocation Contract

##### 1.02 PROJECT DESCRIPTION:

- A. Description of the Total Project: The City of Geneva is replacing/relocating underground cable, installing vaults, switches, and pulling and terminating new cable.
- B. Work Under this Contract: This Contract, "Underground Cable Relocation covers the installation, termination and testing of electric cables and conduits. This Contract also covers the furnishing and installation of ancillary equipment and materials required to complete the installation and put the new cable in use. Except for those items specified to be provided by the Owner or others, the Contractor shall provide all necessary equipment, material, and labor in order to provide a complete installation, including but not necessarily limited to:
  - 1. Testing of electric cable on reels prior to cable installation.
  - 2. Install cables on poles (aerial) and in conduits.
  - 3. Install conduits.
  - 4. Terminate electric cables, 1000 AL, 500 AL, 4/0 AL, 1/0 AL, 350 Triplex and others
  - 5. Furnish documentation submittals as specified.
  - 6. Furnish and install marking devices including warning tapes and cable tags.
  - 7. Install underground and aboveground raceway infrastructures including pull boxes.
  - 8. Furnish and install pavement and landscaping materials as required for restoration.
  - 9. Furnish and install miscellaneous material such as aggregates, sand and gravel bedding for pads and vaults.
- C. Owner-Furnished Equipment and Materials:
  - 1. Cable, Transformers, Terminations (Tbodies, Elbows, Splices), Pulling Vaults.
  - 2. Packaging of Owner-Furnished Materials:
    - a. 1000 MCM AL, 1/0 AL Cable:
      - (1) Lengths: The approximate reel lengths are as follows:
        - (a) 1000 MCM AL: 1350', 1290', 1020', 800'
        - (b) 4/0 AL : N/A
        - (c) 1/0 AL: 2500' reels
      - (2) Contractor shall test the reels prior to installation to verify that no damage has occurred prior to installation.
      - (3) The reels shall be used as efficiently as possible so as to minimize cable scrap.
  - 3. All Contractor-furnished materials shall not be stored at the City of Geneva Public Works Department.
    - a. The Contractor shall be responsible for providing the material storage area with locking container such as semi-trailer or shipping container for their use.

SECTION 1 - SUMMARY OF WORK: continued

- b. The Contractor shall be responsible for providing the receiving area, staging area and transport for Contractor-furnished materials. The Contractor may request commercial storage and staging area recommendations from the Owner.
  - c. The Contractor shall be responsible for loading and transport of Owner-furnished materials.
  - d. Once Owner-furnished material has been picked up from the City, it is the responsibility of the Contractor to safeguard that material until such time that it is energized. Theft of any material under the contractor's control, shall be the contractor's responsibility to replace.
  - e. The Contractor shall submit material requisitions as needed, specifying material descriptions and quantities required. Materials may be picked up between 7:15 a.m. and 11:30 a.m. and 12:30 p.m. and 3:00 p.m. from the Inventory Coordinator.
4. Returns: Return old transformers to the City.
- 1.03 CONTRACTOR'S USE OF PREMISES:
- A. Limit use of the premises for storage and execution of the Work and to allow for work by other contractors. Portions of Site outside the Contract limits shall not be disturbed.
  - B. Coordinate with Owner to avoid interference of operations.
  - C. Conduct operations so as to ensure the least inconvenience to Owner and the general public.
- 1.04 OWNER'S USE OF PREMISES: Full Occupancy: The Owner or existing occupant will occupy the Project sites during the entire construction period. The Contractor shall cooperate with the Owner or existing occupants during construction operations to minimize conflicts and facilitate usage. Perform the Work so as not to minimize interference with the existing operations.
- 1.05 WORK SEQUENCE:
- A. General: Construction sequence shall be as determined jointly by the City and the Contractor.
  - B. Continuous Service of Existing Facilities: Exercise caution and schedule operations to ensure that functioning of present facilities will be disrupted the minimum number of times necessary and in the shortest duration possible. Business shall only experience power outages off-hours or at a mutually agreeable time to hook up a generator.
- 1.06 MEASUREMENT AND PAYMENT: All Work indicated and specified in the Contract Documents shall be included in the Unit Prices Items identified. Any items found not to be covered by a Unit Price shall be handled with a change order according the contract documents prior to work being performed.
- 1.07 COPIES OF DOCUMENTS:
- A. Furnished Copies: After execution of Agreement, if requested, Contractor will be furnished at no cost, a maximum of 3 sets of Contract Documents consisting of full-size Contract Drawings, in addition to those used in execution of the Agreement.

## DIVISION 2 - CABLE INSTALLATION, TERMINATION AND TESTING

PART 1 - GENERAL

- 1.01 SUMMARY: This Section covers the following Work:
- A. Installation of Owner-furnished cables.
  - B. The furnishing and installation of miscellaneous equipment and materials, including hardware, conduits, and related items.
  - C. Splicing and termination of cables.
  - D. Testing of cables prior to and after installation.
- 1.02 STANDARDS:
- A. Manufacturer's Instructions: The cable manufacturer's printed or verbal instructions shall be followed explicitly when installing the cable. If the manufacturer's instructions differ from those defined herein, Contractor shall obtain a clarification from Owner prior to proceeding with the affected work.
  - B. Standards: All Work shall comply with the latest revisions of the following codes and standards:
    1. National Electrical Safety Code (NESC).
    2. City of Geneva Public Works Safety Manual.
- 1.03 SUBMITTALS:
- A. General: This Contract includes the submittal of certain documentation to Owner prior to and subsequent to performance of the Work. All Submittals shall be provided to Owner for review and approval. The Owner will respond in writing within 4 days. If required, the Contractor shall make any changes to the Submittals as directed by the Owner and submit anew. No work requiring a Submittal shall commence until Owner's approval has been obtained. Owner's review of Submittals, and approval or rejection thereof, will be solely based on determining whether the work covered by the Submittal is in compliance with the Contract Documents. Any deviations from the requirements of the Contract Documents shall be called to the attention of the Owner in writing on the Submittal, and shall not be accepted unless acknowledged in writing by Owner.
  - B. Compliance Submittals: The following compliance documents shall be submitted within 14 days of the Date of Contract:
    1. Personnel Qualifications: Submit qualifications for personnel who will be performing any installation, boring, testing, splicing, or termination of cable. No personnel will be allowed to do work until qualifications have been approved. Submit one copy to Owner.
    2. Tools and Equipment List: Provide a list of all tools and equipment (major items only) that will be used in the performance of the work, including make, model, description, and use. Obtain approval prior to commencing Work. Submit one copy to Owner.
    3. Insurance certificates with all required endorsements (per General Conditions.) Submit originals to Owner.
    4. Catalog cuts for Contractor-furnished equipment and materials, including
      - a. Conduits (HDPE, PVC, Steel).
      - b. Cable Tags.
      - c. Elbows/Bends (Steel, PVC)

DIVISION 2 - CABLE INSTALLATION, TERMINATION AND TESTING: continuedPART 2 - PRODUCTS2.01 ACCEPTABLE MANUFACTURERS:

- A. Rigid Steel Conduit:
  - 1. Allied Tube and Conduit Corporation.
  - 2. Robroy Industries, Pittsburgh Standard.
  - 3. Triangle PWC, Inc.
  - 4. Approved equal.
- B. High Density Poly Ethylene (HDPE):
  - 1. Carlon
  - 2. Approved equal.
- C. Rigid Nonmetallic (PVC) Conduit:
  - 1. Carlon Division, Lamson & Session Company.
  - 2. Condux International, Inc.
  - 3. Approved equal.
- D. Cable Tags:
  - 1. Impressotags.
  - 2. Approved equal.
- E. Couplings
  - 1. Morris Compression tubing and pipe coupling, Morris Coupling Co.
  - 2. Approved Equal

2.02 DEVIATION AND NONCONFORMANCE:

- A. The City shall be notified, in writing, of any proposed or actual deviation from this specification before the cable can be accepted by the City.
- B. Any deviations from this Specification must be approved, in writing, by the City prior to delivery.

2.03 REJECTION: Non-conformance to any items listed in this Specification may result in rejection and non-payment.2.04 CONDUIT:

- A. Design Requirements:
  - 1. Each length of conduit furnished with coupling on one end and metal or plastic thread protector on other end.
  - 2. UL listed and labeled on each conduit length, fitting, and accessory.
  - 3. Sizes of conduit, fittings, and accessories as indicated, specified, or required by applicable standards.
- B. Rigid Steel (RGS) Conduit:
  - 1. Mild ductile steel, circular in cross section with uniform wall thickness sufficiently accurate to cut clean threads.
  - 2. Each length threaded on both ends and threads protected by same process as used on each length.
  - 3. All scale, grease, dirt, burrs, and other foreign matter removed from inside and outside prior to application of coating materials.
  - 4. Galvanized by the hot-dip process.
- C. Rigid Nonmetallic (PVC) Conduit:

DIVISION 2 - CABLE INSTALLATION, TERMINATION AND TESTING: continued

1. Fabricated from self-extinguishing high-impact polyvinyl chloride designed for underground installations.
  2. Fittings and accessories fabricated from same material as conduit.
  3. Solvent-cement-type joints as recommended by manufacturer.
  4. Inside diameter no less than that of rigid steel conduit.
  5. Dielectric strength a minimum of 400 volts per mil.
  6. Rated and labeled for use with 90-degree C rated conductors.
  7. Schedule 40 PVC conduit required for direct burial and concrete encased applications;
- 2.05 CABLE TAGS:
- A. The identification shall be of a permanent type such as corrosion resistant metal tags. The tag shall be securely attached to the cable. Paper or cloth tags are not acceptable.
- 2.06 AGGREGATE MATERIAL: Aggregate material used for trench bedding shall conform to the Illinois Department of Transportation (IDOT), Standard Specifications for Road and Bridge Construction, latest edition, Article 1003.04 - Fine Aggregate for Trench Backfill, Sand Backfill for Underdrains, Bedding, Porous Backfill and French Drains. Fine aggregate shall be IDOT gradation FA 1 or FA 2, any Class, except that the percent passing the No. 200 sieve shall be 2 plus or minus 2 percent.

Aggregate material used for splice box or transformer pad bedding shall conform to the Illinois Department of Transportation (IDOT), Standard Specifications for Road and Bridge Construction, latest edition, Article 1004 - Course Aggregate. Course aggregate shall be IDOT gradation CA 6.

PART 3 - PERFORMANCE

- 3.01 GENERAL:
- A. All work shall be carefully coordinated with the Owner. Contractor shall give the Owner at least 48 hours advance notice of all work activities including locations.
  - B. All work shall be performed in accordance with accepted standards and practices within the electric industry unless specified otherwise.
  - C. The Contractor shall restore all surfaces and work areas to the conditions prior to his operations, including but not limited to clean-up, repaving, patching, painting, retouching, seeding and landscaping, to the satisfaction of Owner as a requirement for payment.
  - D. Contractor's Apparatus:
    1. The Contractor shall provide all of the necessary installation equipment, tools, and apparatus required to perform the Work. Contractor-furnished equipment shall include but not be limited to the following:
      - a. Pulling Equipment.
      - b. Pulling ropes
      - c. Swivel links.
      - d. Dynamometers.
      - e. Pulling lubricant.
      - f. Trenching, digging, and boring equipment.
      - g. Saws, drills, and other power tools.
      - h. Miscellaneous hand tools.
      - i. Bucket trucks, loaders, and other vehicles.

DIVISION 2 - CABLE INSTALLATION, TERMINATION AND TESTING: continued

- j. Other as required to complete the Work.
2. Take-Up Reel: The take-up reel shall have tension and speed controls to ensure that the cable pulling speed and tension are maintained within cable manufacturer's specified limits.
  3. Reel Payoff Cart: The payoff shall possess an automatic or manual braking device to prevent the cable from running free, and to ensure that uniform tension is maintained at all times during the pull.
  4. Dynamometer: A dynamometer shall be used to monitor cable tension. The dynamometer shall have a range of measurement suitable for use with cable loads and sufficient scale resolution to assure that tensions are maintained within proper limits.
  5. Swivel: A swivel shall be used to attach the pulling grip to the pulling line to minimize cable twisting during installation. The swivel shall be carefully selected according to the groove size of the stringing block. Select swivels that will pass easily through the stringing blocks.
  6. Pulling Machine: A pulling machine shall be used that will not exceed the tension and bending radius ratings of the cable and will not cause any damage to the cable.
- 3.02 PERSONNEL QUALIFICATIONS: Cable installation personnel shall be experienced journeyman linemen with training and working-level familiarity with proper methods and procedures for safely working on energized electric utility power lines.
- 3.03 ROUTE SURVEY: The Contractor shall survey the entire route to ensure that the route is clear of obstructions, and to obtain a general familiarity with the physical nature of the route.
- 3.04 PERMITS AND RIGHT-OF-WAY REQUIREMENTS: All permits and right-of-ways needed for performance of the Work will be provided by the Owner.
- 3.05 HANDLING CABLE AND REELS:
- A. The Contractor shall take care in handling the cable and reels. The Contractor shall be held responsible for any and all damage to the cable and/or cable reels. If cable reels are damaged, they shall be repaired prior to installation. When lifting reels, a spreader bar shall be used to prevent lifting cables from touching the reel flanges. Reels in storage shall be securely blocked up off the ground.
  - B. Particular care shall be taken at all times to prevent the cable from being kinked, twisted, abraded or damaged in any manner. Should any damage occur, it shall be reported to the City (or City's representative) immediately.
- 3.06 GENERAL CONDUIT INSTALLATION REQUIREMENTS:
- A. Location:
    1. The Contractor shall be responsible for locating underground obstructions and utilities. Install conduit in the easement. Owner shall be notified of any major deviations from indicated routing. Shift locations as required avoid interference with existing equipment and structures.
    2. Cap all conduits after cleaning where conduits are to be left empty by this Contract.
    3. Clean out all conduit before pulling cable and check for obstructions by pulling a mandrel through conduits. Mandrels shall be no less than ¼" less than diameter of pipe.
  - B. Buried Installation:
    1. Bore conduits at a between a depth of 42" and 78".

DIVISION 2 - CABLE INSTALLATION, TERMINATION AND TESTING: continued

2. Before digging, contact Joint Utility Locating Information for Excavators (JULIE.) to locate utilities. Contractor is responsible for searching the areas for other obstructions such as dog fences, sprinkler systems, etc. and locating them as well.
3. Use standard radius (24-inches min.) steel bends at all equipment unless otherwise indicated.
4. Cap ends of all conduit before backfilling.
5. If trenching, carefully backfill trench in layers of 4 to 8 inches of friable sandy or silty clay containing fine material sufficient to provide a dense mass free of voids and capable of satisfactory compaction and tamp each layer with a power tamp. Backfill material shall be 3/4" washed stone under private paved surfaces and concrete flowable fill under roadways. All other backfill material shall be free of roots or other organic matter, refuse, ashes, cinder, frozen earth, or other unsuitable material.
6. Dig boring pits a minimum of ten feet from roads.
7. Use directional boring for all underground conduits that crosses roads.
8. The Contractor shall be responsible for any damage to existing utilities.
9. Contractor is responsible for locating installed facilities until they have been energized.

3.07 CABLE INSTALLATION:

## A. General:

1. All installation work shall strictly adhere to the practices and procedures defined by the National Electric Safety Code.
2. Under no circumstances shall cables be bent over a radius less than the manufacturer's minimum bending radius.
3. The maximum tension to be placed on the cable shall not exceed the manufacturer's maximum tensions.
4. Splice Boxes: Coil a minimum of 10 feet of each cable end in each splice box, without exceeding the minimum bending radius and any other ratings of the cable,
5. Contractor shall place heat-shrinkable end caps on the exposed cable to prevent water penetration until splicing.
6. The cable shall not be pulled through more than 360 degrees of total bends in a continuous run.

## C. Cable Identification:

1. Install cable identification tags at every structure attachment location.
2. All cable tags shall be affixed to the cable at an orientation at which they will be easily read when the lid is opened..

3.08 REEL TESTING: After the primary cables are delivered, but prior to the Contractor installing the primary cables, the Contractor shall perform a dc hipot test for 15 minutes at 15KV on the cable on the reels.

3.09 POST-INSTALLATION TESTING:

## A. HIPOT TESTING:

1. After installing the cables and completing all required splicing and termination work, Contractor shall perform a final hipot test on each cable segment.
2. The Contractor shall completely investigate any discrepancies, defects or anomalies, and make a full reporting of the condition to the Owner immediately. Any damage to the cables detected during final testing shall be repaired by the Contractor at Contractor's sole expense.

DIVISION 2 - CABLE INSTALLATION, TERMINATION AND TESTING; continued

END OF DIVISION 2

**ORDINANCE NO. 98- 1****AN ORDINANCE AMENDING CHAPTER 24  
(VEGETATION)  
OF THE GENEVA MUNICIPAL CODE**

---

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:**

**SECTION 1:** That Chapter 24 of the Geneva Municipal Code is hereby amended by deleting Chapter 24 in its entirety and substituting, instantler, the following:

**ARTICLE I. IN GENERAL****Sec. 24-1. Title.**

This Chapter and its adopted contents is hereby entitled "FORESTRY."

**Sec. 24-2. Purpose and intent.**

(a) Purpose: It is the purpose of this Chapter to promote and protect health, safety and general welfare by providing for regulation of the planting, preservation, maintenance, and removal of trees, shrubs, and other plants within the City.

(b) Intent: It is the intent of the City Council that the terms of this Chapter shall be construed so as to promote:

(1) The planting, preservation, maintenance, restoration, and survival of desirable trees, shrubs and other plants within the City; and

(2) The protection of community residents from personal injury and property damage, and the protection of the City of Geneva from property damage, caused or threatened by the improper planting, maintenance, or removal of trees, shrubs, or other plants located within the community.

**Sec. 24-3: Definitions.**

The following terms used in this Chapter shall be construed according to the definitions given below:

- (a) *"City-owned Property"*: Property within the City limits of Geneva, Illinois, that is owned by the City in fee simple absolute, or implied by or expressly dedicated to the public for present or future use for purposes of vehicular or pedestrian traffic or for public right-of-way.
- (b) *"trees and shrubs"*: All vegetation, woody or otherwise, except lawn grass and herbaceous flowers.
- (c) *"public tree"*: Any tree located on City-owned property.
- (d) *"private tree"*: Any tree that is located on privately-owned property within the City limits.
- (e) *"diseased tree"*: Any tree inflicted with any plant disease, including but not limited to fungus diseases, or infested with insects.

Except for the above-defined terms, all other terms and phrases shall be interpreted according to the definitions given elsewhere in this Code.

**Sec. 24-4. Authority.**

The Transportation Committee shall be responsible for considering and making policy recommendations to the City Council that relate directly to planting, preservation, maintenance and/or removal of trees, shrubs and other plants. In addition, the City Council shall promulgate and the Public Works Department shall enforce rules, regulations and specifications concerning the planting, preservation, maintenance, removal, pruning and protection of trees and shrubs located upon the right of way of any public street, alley or public property within the City of Geneva.

**Sec. 24-5. Inspections.**

The Public Works Department is charged with enforcement of this Chapter, and to that end, a duly designated representative or employee of the Public Works Department may seek to enter upon private property for the purpose of inspecting trees and shrubs thereon and removing such specimens as are required for purposes of analysis. Such representative or employee shall first seek the property owner's permission to conduct such an inspection. Should the property owner object to the inspection, the representative or employee may seek, from a court of competent jurisdiction, a warrant to inspect the premises in accordance with this Chapter. Should a condition of extreme danger be known to exist, the warrant requirements of this section may be dispensed with, but only

if there is reasonable cause to believe that the delay involved in compliance with the warrant requirement would pose a serious, imminent danger to person or property.

**Secs. 24-6--24-15. Reserved.**

## **ARTICLE II. TREES AND SHRUBS**

**Sec. 24-16. Injury to trees and shrubs.**

(a) It shall be unlawful for any person to break, deface, destroy, interfere with or in any manner disturb or injure any tree, shrub or plant upon the public property of the City; nor shall any person set fire or permit any fire to burn where such fire or its heat will injure any portion of any such tree or shrub.

(b) It shall be unlawful for any person to knowingly permit any leak to exist in a gas pipe or main within the root zone of any tree or shrub.

(c) It shall be unlawful for any person to permit any toxic chemical, either solid or liquid, to seep, drain or be emptied on or about any tree or shrub.

(d) It shall be unlawful for any person to attach any electric insulation to any tree or to excavate any ditches, tunnels or trenches, or lay any drive within a minimum radius of ten (10) feet from any tree or shrub without first obtaining a written permit from the City.

(e) Nothing in this section shall be construed so as to apply for the removal, under the direction of the City, by any department or subdivision thereof, of any tree, shrub or plant or part thereof when such removal shall be necessary for the construction of any sidewalk, sewer, main, conduit or public improvement.

**Sec. 24-17. Trees, shrubs or plants on private property overhanging streets, highways and sidewalks.**

Any owner of a tree, shrub or plant growing on private property overhanging any street, highway or public sidewalk within the City shall trim the branches or plant so that such branches or plant shall not obstruct the light of any street lamp; obstruct the view of any street intersection; or block, impede or encroach upon any sidewalk; or cause a clear space of less than ten (10) feet on a secondary street or fifteen (15) feet on a major street above the surface of the street or sidewalk. Such owners shall remove all dead, diseased or dangerous trees growing on private property and overhanging any street, highway or sidewalk within the City, and shall remove broken or decayed limbs from such trees or plants which may be considered a menace, nuisance or hazard to the safety of the public in the use and operation of motor vehicles or pedestrians in the use and access of public sidewalks. The Director of Public Works shall serve or cause to be served a notice upon any owner

of any private property upon which such trees, shrubs or plants are permitted to grow in violation of the provisions of this section and demand abatement of the nuisance within ten (10) days of the service of such notice.

**Sec. 24-18. Fastening objects to trees.**

It shall be unlawful for any person to nail, tie or in any other manner fasten any cards, signs, boards or any other articles or for the purpose of anchorage to fasten any wire, rope, chain, or cable or to hitch any animal to any tree, shrub or plant growing upon any public property within the City.

**Sec. 24-19. Protection during building.**

(a) It shall be unlawful for any person to excavate any ditch, tunnel or trench within a minimum radius of ten (10) feet from any tree, shrub or plant growing upon any public property within the City, without first obtaining a written permit from the City.

(b) All trees, shrubs or plants within the limits of any street, boulevard, highway or public place near any excavation shall be safeguarded with a substantial frame box not less than four (4) feet square and six (6) feet high and all building material or other debris shall be kept at least four (4) feet from any tree, shrub or plant.

**Sec. 24-20. Planting.**

Any person wishing to install new or replacement trees/shrubs on any public highway or public place must first secure a written permit from the Director of Public Works and must comply with all planting specification standards that have been approved by the Superintendent of Streets and Walks. All proposed planting sites and tree species must receive approval from the Superintendent of Streets and Walks prior to installation. Any violation of this section will result in the removal of all unauthorized plantings at the violator's expense. The City shall have the authority to refuse the granting of such permit, when such planting is likely to create a public danger or nuisance or be detrimental to the growth of adjacent trees.

**Sec. 24-21. Maintenance.**

(a) All tree and shrub removal, pruning, trimming and spraying on public highways or public places shall not be performed without first securing a written permit from the Department of Public Works and the approval of the proposed work from the Superintendent of the Streets. All such pruning and trimming shall comply with the specified pruning standard authorized by the Superintendent of Streets.

**Sec. 24-22. Tree and shrub appraisal.**

In the event that any person or entity damages, removes or proposes to remove a tree or shrub on City-owned property, that person or entity shall reimburse the City for the appraised value of the tree or shrub. The appraised tree value or the partial loss in tree value shall be determined by the Superintendent of Streets. The most current edition of the Guide for Plant Appraisal prepared by the Council of Tree and Landscape Appraiser, and edited, published and copyrighted by the International Society of Arboriculture or the most current edition of the Species Ratings and Appraisal Factors for Illinois prepared by the Illinois Arborist Association may be used to determine the lost values.

**ARTICLE III. DISEASED TREES**

**Sec. 24-23. Designated as nuisance.**

Diseased trees, all species and varieties, as determined by laboratory analysis or certification by the Superintendent of Streets are hereby declared to be a nuisance, and shall be removed by the property owner within ten (10) days following written notification of the discovery of such disease. It shall be unlawful for any person, being the owner of property whereon such a tree is situated, to possess or keep such tree after the expiration of ten (10) days following notification of the discovery of such infection.

**Sec. 24-24. Bark beetle place of origins designated as nuisance.**

Trees or parts thereof in a dead or dying condition that may serve as a place of origin for the Elm Bark Beetle, *Scolytus multistriatus*, are hereby declared to be nuisances. It shall be unlawful for any person owning property whereon the same is situated to possess or keep the same.

**Secs. 24-25--24-33. Reserved.**

**Sec. 24-34. Removal of diseased trees.**

The City shall give the owner of the premises where diseased trees are found, a written notice of the existence of such nuisance and require the removal of the diseased tree within ten (10) days following such notice. Such removal shall be performed by a licensed contractor under the direction and supervision of the City. The notice shall also notify the owner of such premises that unless such nuisance is removed in compliance with the terms thereof within the ten-day period, the City shall proceed with the removal of such trees and assess double the cost thereof against the property owner.

**Sec. 24-35. Diseased, dead, etc., trees and shrubs declared nuisance.**

Trees and shrubs of all species and varieties, not mentioned previously, that are diseased, dead or dying, or create a hazard as certified by the Superintendent of Streets are hereby declared a nuisance and shall be removed by the property owner.

**Sec. 24-36. Notice of removal to owner.**

Service of the notices provided for in this Chapter shall be by personal service where the owner of the premises is a resident of the City; where the owner is a nonresident of the City, the notice shall be served by registered mail, addressed to the owner at his last known address.

**Sec. 24-37. Duty of owner to remove diseased tree, shrub or bark beetle place of origin.**

It shall be the duty of the owner of the premises to cause a diseased tree, shrub or bark beetle place of origin as provided for in this Chapter to be removed and disposed of under the direction and supervision of the City. The person charged with such removal and proper disposal may request that the City perform such services in which case the removal and disposal costs shall be assessed against the property owner.

#### **ARTICLE IV. PLANTS AND WEEDS**

**Sec. 24-38. Weeds declared nuisance.**

Any weeds, including but not limited to jimson, burdock, ragweed, thistle, cocklebur, poison ivy, poison oak or other weeds of a like kind, found growing on any lot or tract of land in the City are hereby declared to be a nuisance. It shall be unlawful to permit any such weeds to grow or remain in any such place.

**Sec. 24-39. Height.**

It shall be unlawful for any person to permit any weeds, grass or plants, other than trees, bushes, flowers, prairie grass or other ornamental plants, to grow to a height exceeding eight (8) inches anywhere in the City. Any such plants or weeds exceeding such height are hereby declared to be a nuisance.

**Sec. 24-40. Barberry bushes.**

It shall be a nuisance and unlawful for any person to plant or permit the growth of the bush of the species of tall, common or European barberry, further known as *Berberis vulgaris* or its horticultural varieties within the City.

**Secs. 24-41--24-51. Reserved.**

**Sec. 24-52. Removal and notice.**

It shall be the duty of the Code Enforcement Officer to serve or cause to be served a notice upon the owner or occupant of any premises on which weeds or plants are permitted to grow in violation of the provisions of this Chapter and to demand the abatement of the nuisance within five (5) days.

#### **ARTICLE V. SETTLEMENT OF VIOLATIONS/ABATEMENTS**

**Sec. 24-53. Collection of costs.**

Imposition of any penalty for a violation of this Chapter shall not be construed as a waiver of the right of the City to collect the costs of removal of such nuisances in accordance with the provisions of this Chapter where it is necessary for the City to remove such nuisances.

**Sec. 24-54. Settlement of violation.**

(a) Any person accused of a violation of Chapter 24, may settle and compromise the claim of violation against him by paying to the City, within ten (10) days of the time such alleged violation or offense was committed, the following sums for each such violation or offense: one hundred dollars (\$100.00).

(b) Consecutive violations of this Chapter 24 shall be treated as separate offenses. Payment of such claim or claims shall be made at the police station of the City, or in the fine-claim deposit boxes located upon the street of the City. The funds received from such compromised claims shall be promptly turned over to the City Treasurer to be credited to the general corporate fund. In the event such claim or claims are not paid within ten (10) days of the time of the alleged offense, a notice to appear or a warrant (summons) may be issued for the arrest of the offender.

**Sec. 24-55. Abatement.**

If any person served a notice as provided in Sections 24-37 or 24-54 of this Chapter does not abate the nuisance within five (5) days, the City may proceed to abate such nuisance, keeping an account of the expense of the abatement, and such expense shall be charged and paid by the owner or occupant failing to abate such nuisance. In addition, the owner or occupant failing to abate such nuisance shall be subject to a fine of not less than ten dollars (\$10.00) nor more than five hundred dollars (\$500.00) for each day in which such nuisance exists after the five-day notice period.

**Sec. 24-56. Lien for costs.**

(a) Pursuant to 65 ILCS 5/11-20-12, charges for the removal of elm trees infected with

Dutch Elm disease as provided by Section 24-34 or Section 24-37, shall be a lien upon the premises. Within sixty (60) days after the City has incurred cost and expense in the tree removal, the City Administrator may file with the recorder of deeds of Kane County a notice of lien claims. This statement shall contain a sworn statement setting out a description of the premises sufficient for identification thereof, the expenses and costs incurred, and the date the tree was removed.

(b) The cost of such tree removal shall not be a lien upon the property affected unless a notice has been personally served or sent by registered mail to the person to whom was sent the tax bill for the general taxes for the last preceding year on the property, such notice to be delivered or sent not less than thirty (30) days prior to the removal of the nuisance located thereon. The notice shall contain the substance of this section and identify the property, by common description, and the tree(s) affected.

**Sec. 24-57. Foreclosure of lien.**

(a) Property subject to a lien for unpaid removal costs as provided in Section 24-56 shall be sold for non-payment of such charges and the proceeds of such sale shall be applied to pay the charges after deducting costs, as is the case in the foreclosure of statutory liens. Such foreclosures shall be in equity in the name of the City.

(b) The City Attorney is hereby authorized and directed to institute such action on any bill that remains unpaid sixty (60) days after the bills have been rendered.

**Sec. 14-58. Permits.**

It shall be unlawful for any person to perform any forestry work on any public highway or place without first obtaining a written permit from the City. This work includes, but is not limited to, planting, pruning, performing surgery work, disease control or the removal of any tree, shrub or planting on any public highway or place.

**SECTION 2:** That Chapter 24 of the Geneva Municipal Code as heretofore and herein above amended shall otherwise remain in full force and effect.

**SECTION 3:** This Ordinance shall become effective from and after its passage as in accordance with law. Publication of this Ordinance is authorized to be in pamphlet form.

**PASSED** by the City Council of the City of Geneva, Kane County, Illinois, this 19th day of January, 1998.

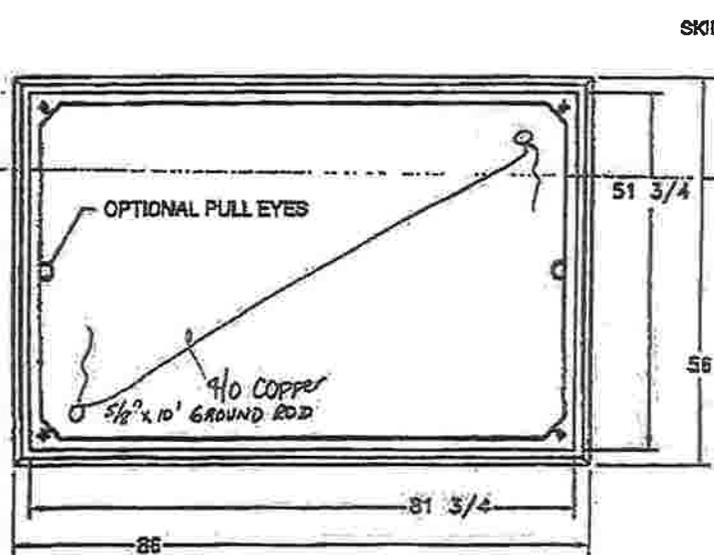
**AYES:** 8 **NAYS:** 1 **ABSENT:** 1 **ABSTAINING:**     **HOLDING OFFICE:** 10

**APPROVED** by me as Mayor of the City of Geneva, Kane County, Illinois, this 19th day of January, 1998.

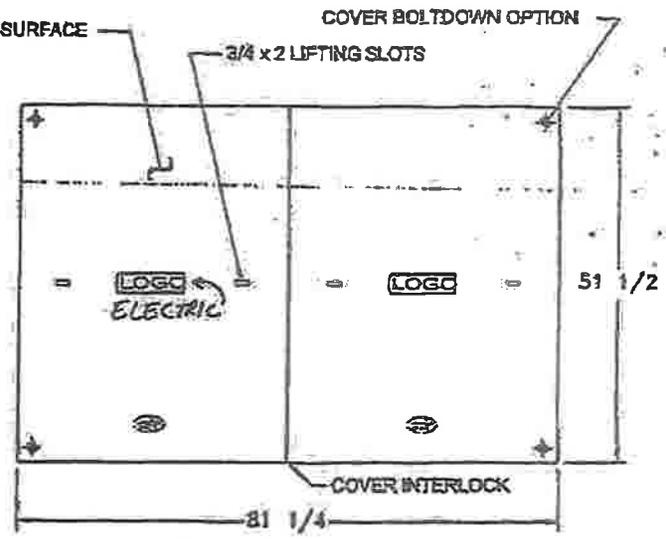
Thomas B. Conly  
Mayor

**ATTEST:**

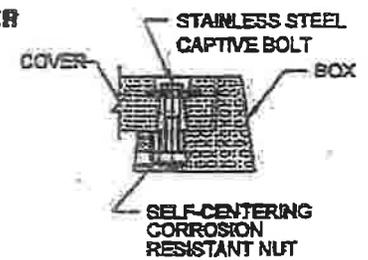
Wennis A. Gabala  
City Clerk



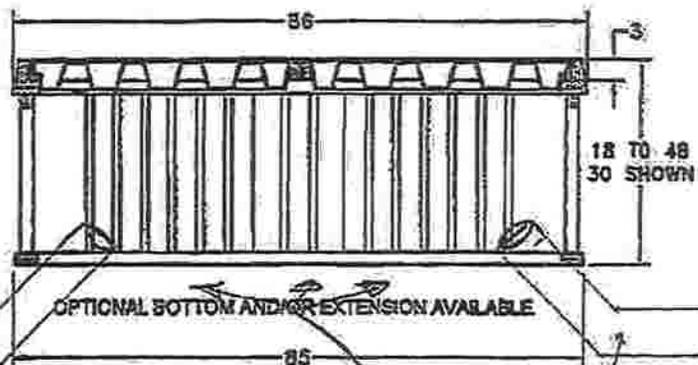
**TOP VIEW**  
ALSO AVAILABLE AS QUICK ASSEMBLY VAULT (QAV)



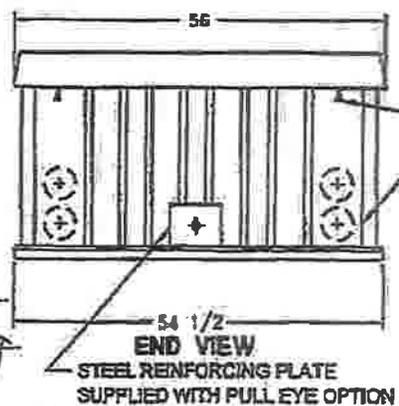
**TWO PIECE COVER**



**COVER BOLTDOWN OPTION**



**BOX & COVER SECTION**



**END VIEW**  
STEEL REINFORCING PLATE SUPPLIED WITH PULL EYE OPTION

1/2" x 4 STUDS TO RETAIN LIFTING SLINGS (4X)  
OPTIONAL KNOCKOUTS OR TERMINATORS

10' STRAIGHT STEEL  
STD. RAD 45° STEEL

STANDARD RADIUS 45° STEEL + 10' STRAIGHT STEEL

12" COMPACTED C&G UNDER VAULT

NOTE: OPTIONAL CABLE RACKS, UNISTRUT RACKS AND ADJUST TO GRADE COLLAR ALSO AVAILABLE

<b>cdr SYSTEMS CORP</b> 145 SOUTH ATLANTIC AVE., OCEANO BEACH, FL. 32176			
TITLE <b>48 x 78 SERIES</b> BOX & COVER			
DRAWN	E. HODGINS	DATE	7/1/02
CHECKED			
APPROVED	AOK		081-0001

CATALOG # PA12-4878-36

LOGO = ELECTRIC COVER: HEAVY DUTY

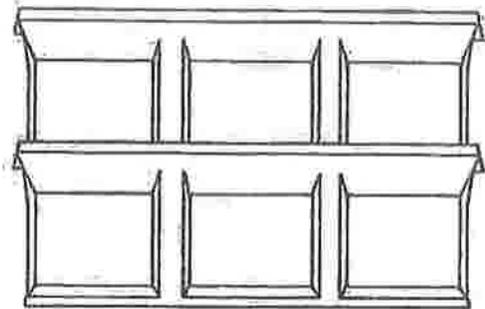
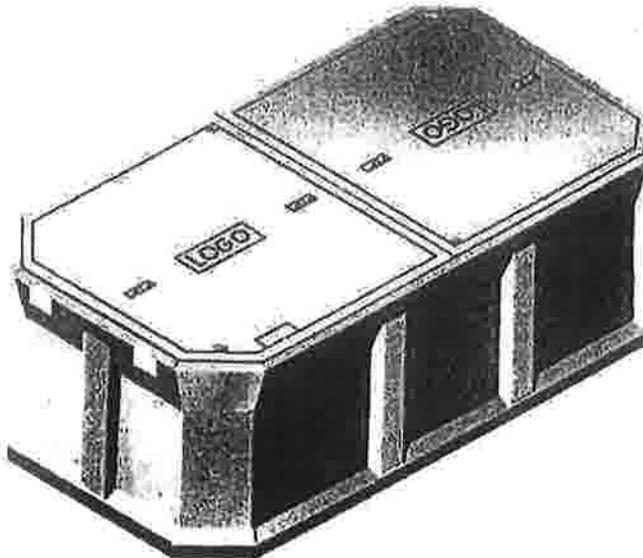
UMI-12C



# "LG" Style (Stackable) Service Box Assemblies

36" x 72"

For use as a Splice Box, Pull Box or Equipment Enclosures



Standard color is gray-other colors available

- Lightweight, easy to handle for lower installed cost
- High strength
- Light and heavy duty designs available
- Exceptional resistance to sun-light exposure, weathering and chemicals-unaffected by freeze/thaw cycles
- Fits flush with sidewalk or grass area
- No grounding required
- Stainless steel inserts and bolts
- Keyed for installation in concrete

## Applications

### Standard Cover

Design Load: 5000# over a 10" square

Design is for sidewalk applications with a safety factor for occasional non-deliberate light vehicular traffic.

### Heavy Duty Covers

Design Load: 15,000# over a 10" square

Design is for driveways, parking lots and off roadway applications where subject to occasional non-deliberate heavy vehicles. (See Quazite® Instruction Sheet 102.)

Due to the variation in installations, and applications, this information should be used as a basis for recommendation and not a guarantee of performance.

## Value Engineered Construction

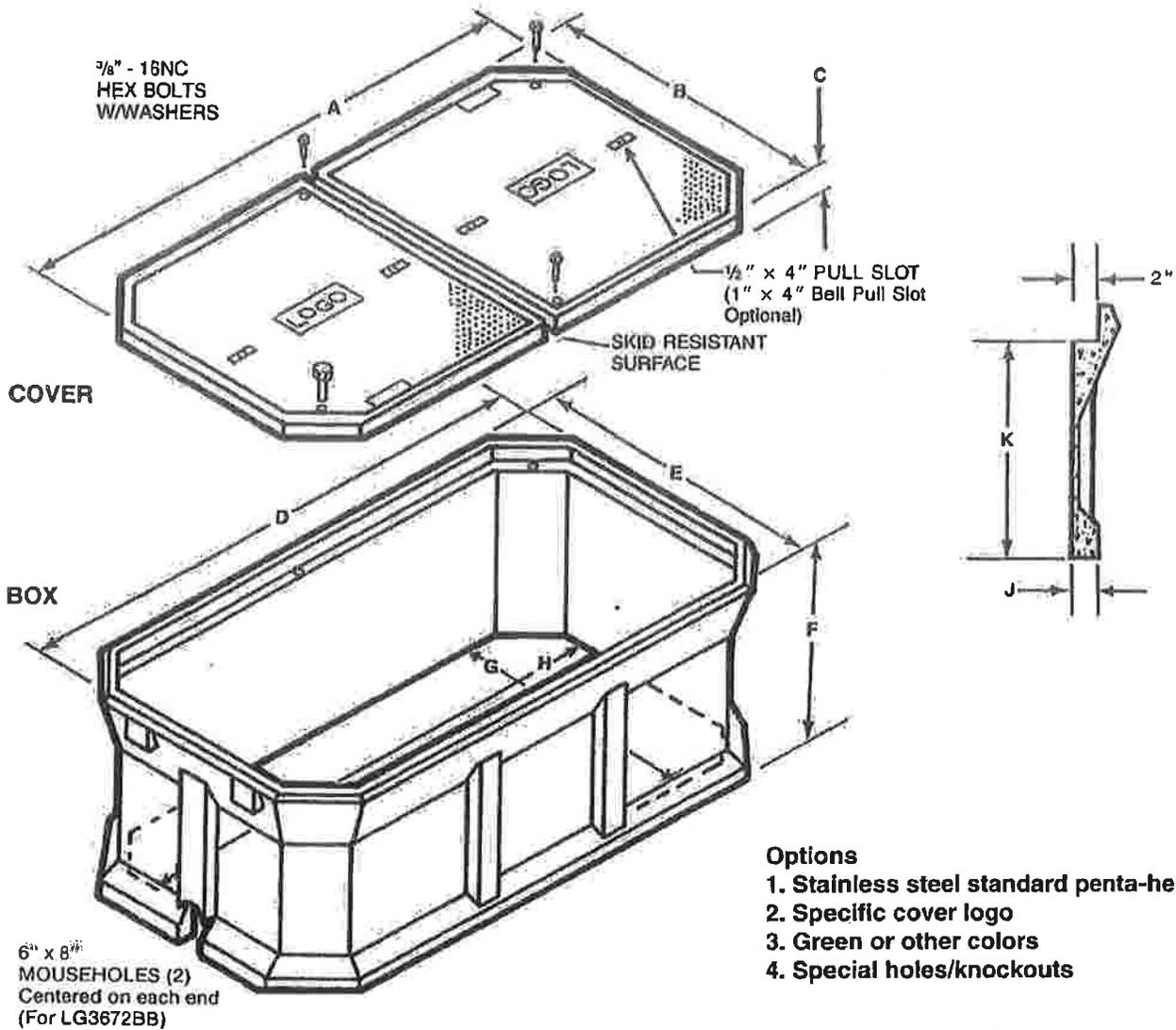
Composolite® Service Boxes are constructed of polymer concrete and reinforced by a heavy-weave fiberglass. The results are exceptional strength and rigidity combined with minimal weight.

### Standard Cover Logos

09 Blank	46 Traffic Signal
17 Electric	14 Controls
26 High Voltage	23 Gas
41 Street Lighting	43 Telephone
29 Lighting	12 Communications
24 Ground	21 Fiber Optics
44 Traffic	10 C.A.T.V.

# SPECIFICATIONS/DATA

36" x 72" LG Style Assemblies



### Options

1. Stainless steel standard penta-head bolt
2. Specific cover logo
3. Green or other colors
4. Special holes/knockouts

### 2-Piece Covers (Blank unless logo is specified)

DESCRIPTION	PART NO.	DIMENSIONS (IN.)			WT.LBS.
		A	B	C	
Locking Cover	LG3672CA00	78-3/4	40-7/8	3	416
Non-Locking Cover	LG3672WA00	76-3/4	40-7/8	3	416
Heavy Duty Locking Cover	PG3672HA00	76-3/4	40-7/8	3	490

### Boxes (Stackable)

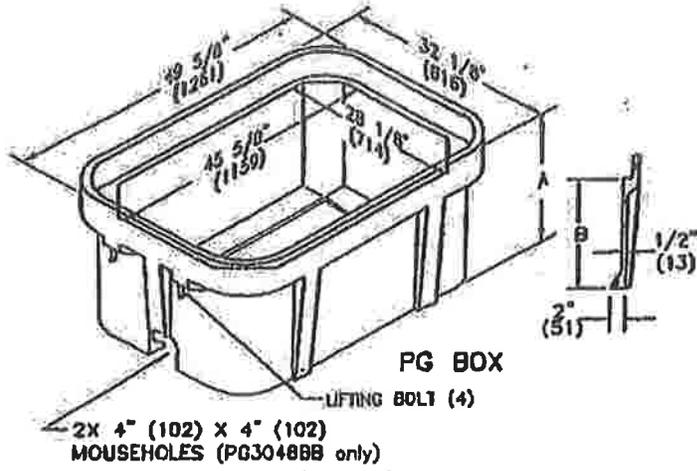
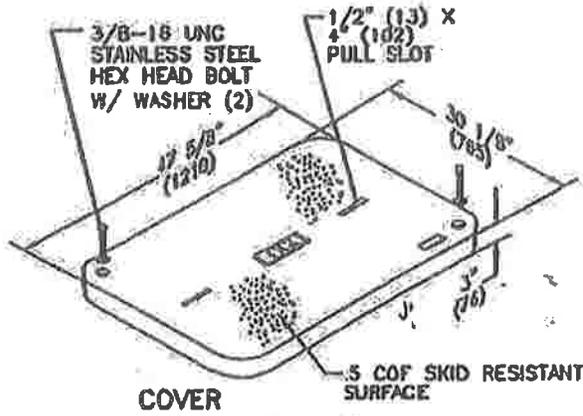
DESCRIPTION	PART NO.	DIMENSIONS (IN.)							WT.LBS.
		D	E	F	G	H	J	K	
Standard Box	LG3672BA21	79-3/4	43-3/4	21	36-5/8	72-5/8	2-1/4	18	256
Box w/ Mouseholes	LG3672BB21	79-3/4	43-3/4	21	36-5/8	72-5/8	2-1/4	18	246
Box w/ Solid Base	LG3672DA21	79-3/4	43-3/4	21	36-5/8	72-5/8	N/A	18	316

### Suggested Specifications

Underground enclosures shall be Compositesite® as manufactured by Quazite® or approved equal. Enclosures and covers shall be concrete gray color and rated for no less than 5,000 lbs. over a 10" x 10" area and be designed and tested to temperatures of -50°F. Material compressive strength should be no less than 9,000 psi. Covers shall have a minimum coefficient of friction of .5. Boxes shall be stackable for extra depth.



3621 Industrial Park Drive • Lenoir City, Tennessee 37711  
800/346-3062 • 615/986-9726 (In TN)



DESCRIPTION	PART NO.	WEIGHT #	DIMENSION A	DIMENSION B	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	PG3048BA36	343 (155.8 kg)	36" (914 mm)	33" (838 mm)	22,600 / 33,750	15"

DESCRIPTION	PART NO.	WEIGHT #	DESIGN/TEST LOAD	ANSI TIER
W/2 Bolts	PG3048CA36	159 (72.1 kg)	6,000 / 12,000	8



PULL VAULT FIBER (SB)

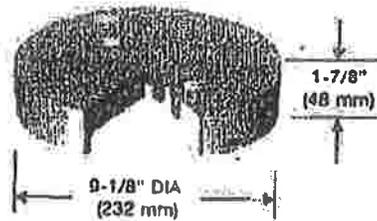


Glendora, California  
Toll-Free: 800.735.5566  
Phone: 909.592.6272  
Fax: 909.592.7971

Roscommon, Ireland  
Phone: 35.39.03.25922  
Fax: 35.39.03.25921

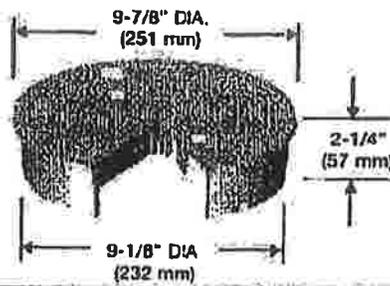
# L Series 910

## Light Duty



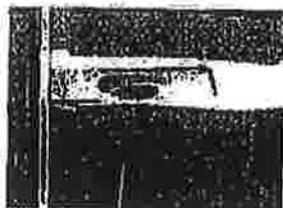
### Flush Cover

Material: HDPE  
Weight: 1.5 lbs.  
Model: 910-3 No Bolt  
910-3B Bolt Down

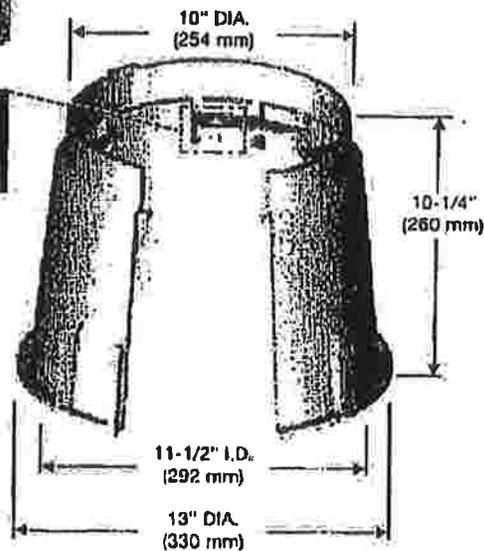


### T-Cover

Material: HDPE  
Weight: 1.5 lbs.  
Model: 910-4 No Bolt  
910-4B Bolt Down



**Loc-Kit™**  
(Patent Pending)



### Body

Material: HDPE  
Weight: 3.0 lbs.  
Model: 910-10

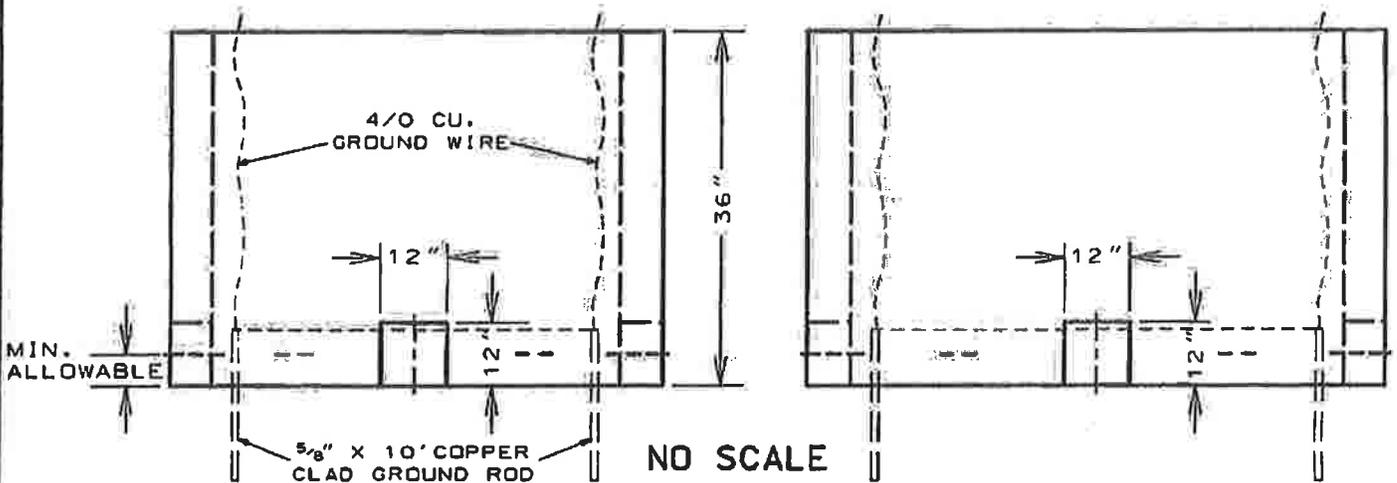
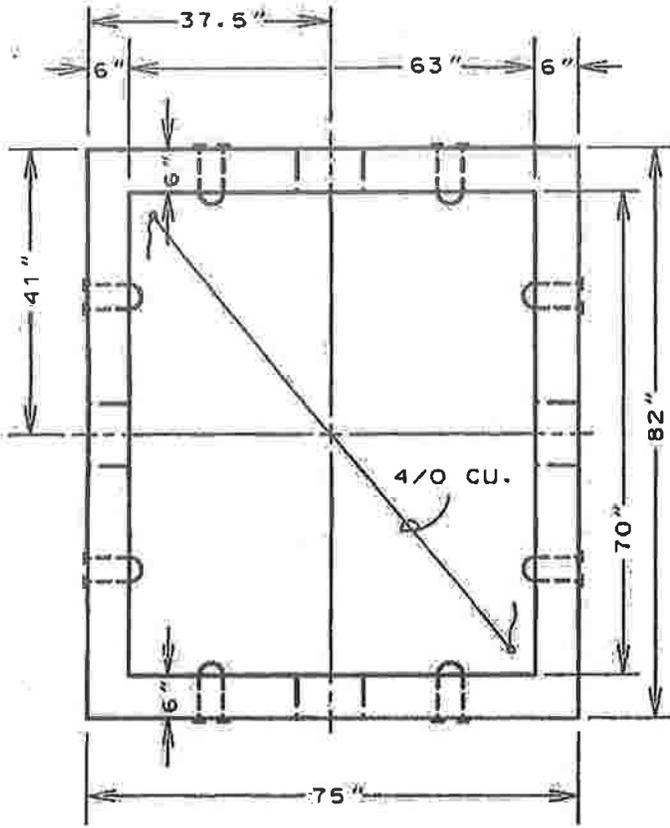
### Colors Available

Green, Grey, Black, Tan or Violet

Note: For use in non-vehicular traffic situations only. We do not recommend installation in concrete or asphalt. Weights and dimensions may vary slightly.

Revision Date 4/2003

# SWITCH PAD DETAIL



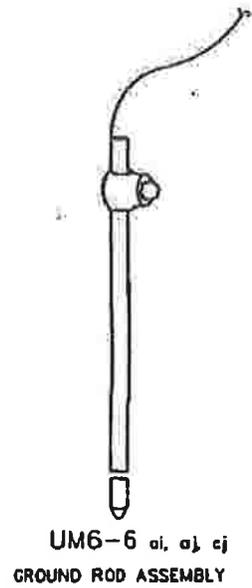
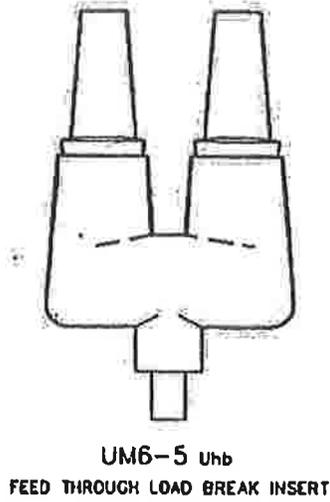
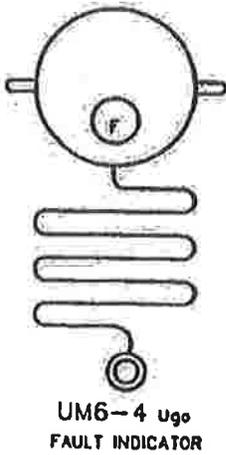
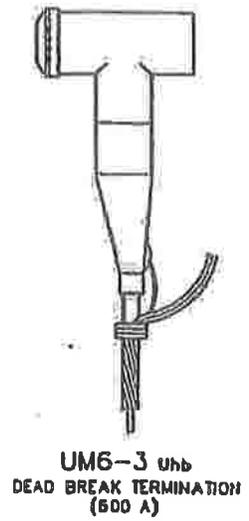
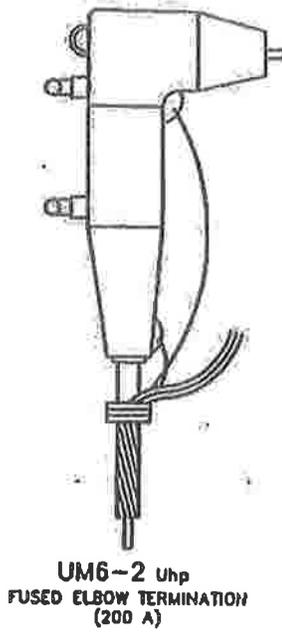
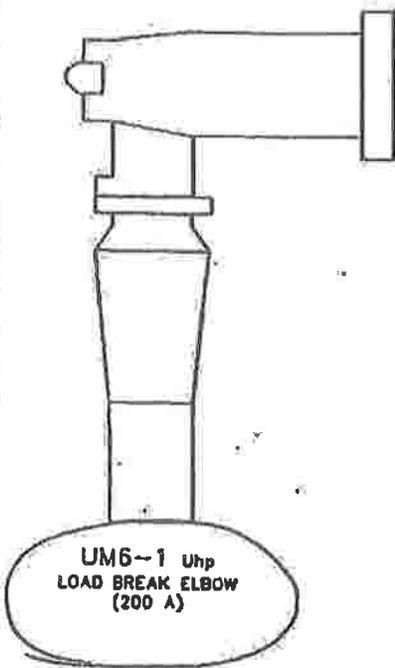
NO SCALE

CONCRETE-4500 psi @ 28 DAYS

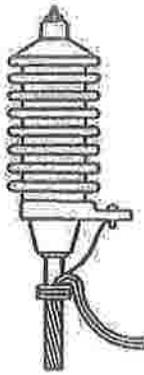
REBAR-ASTM A-615 GRD. 60

PAD WT. 5100 LB. (APPROXIMATE)

NOTE: PAD TO BE PLACED ON 12" OF COMPACTED CRUSHED GRAVEL UM1-9C



MISCELLANEOUS ACCESSORIES



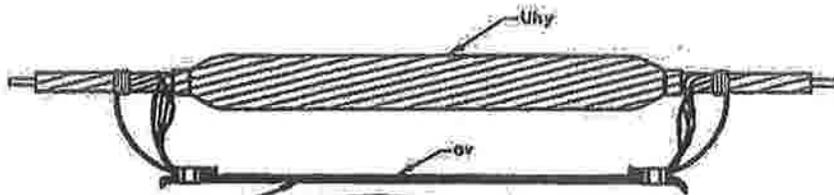
**UM6-25** U<sub>gk</sub>  
 MODULAR OR UNITIZED  
 NON-CERAMIC TERMINATION  
 SEE GUIDE DRAWING UX20  
 FOR CABLE JACKET SEAL



**UM6-26** U<sub>gk</sub>  
 INDOOR STRESS RELIEF CONE  
 SEE GUIDE DRAWING UX20  
 FOR CABLE JACKET SEAL

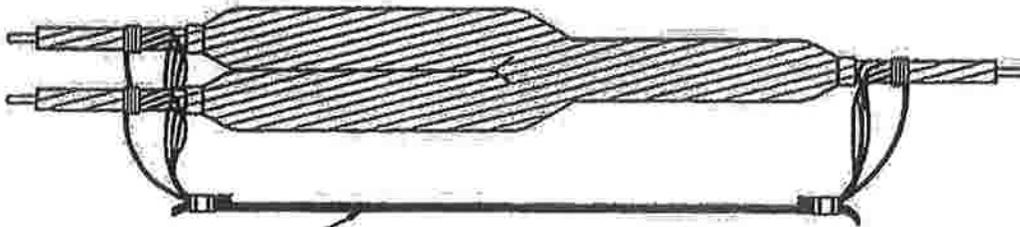


**UM6-27** U<sub>hb</sub>  
 CABLE LEAD TERMINATION



CONCENTRIC NEUTRAL  
 OR  
 EQUIVALENT EXTENSION

**UM6-28** U<sub>hy</sub>  
 IN LINE PRIMARY SPLICE  
 ( FOR JACKETED CABLE )



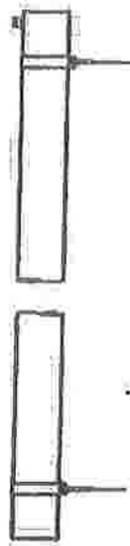
CONCENTRIC NEUTRAL  
 OR  
 EQUIVALENT EXTENSION

**UM6-29** U<sub>hy</sub>  
 WYE PRIMARY SPLICE

MISCELLANEOUS ACCESSORIES



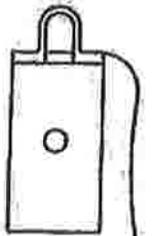
UM6-7 Uhb  
BUSHING WELL PLUG  
(200 A)



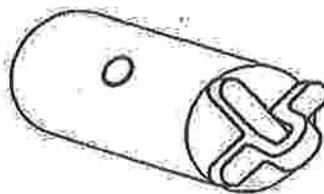
UM6-8 Ugc  
RISER SHIELD (U GUARD)



UM6-9 Ugc  
CONDUIT CABLE RISER



UM6-10 Uhb  
INSULATED PROTECTIVE CAP  
(200 A)



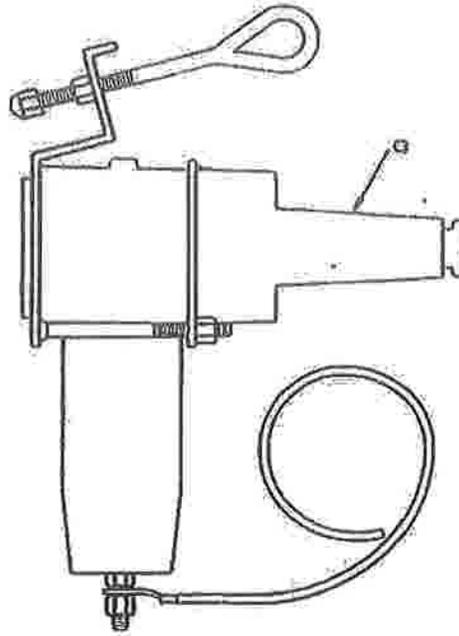
UM6-11 Uhb  
INSULATED PROTECTIVE CAP  
(600 A)



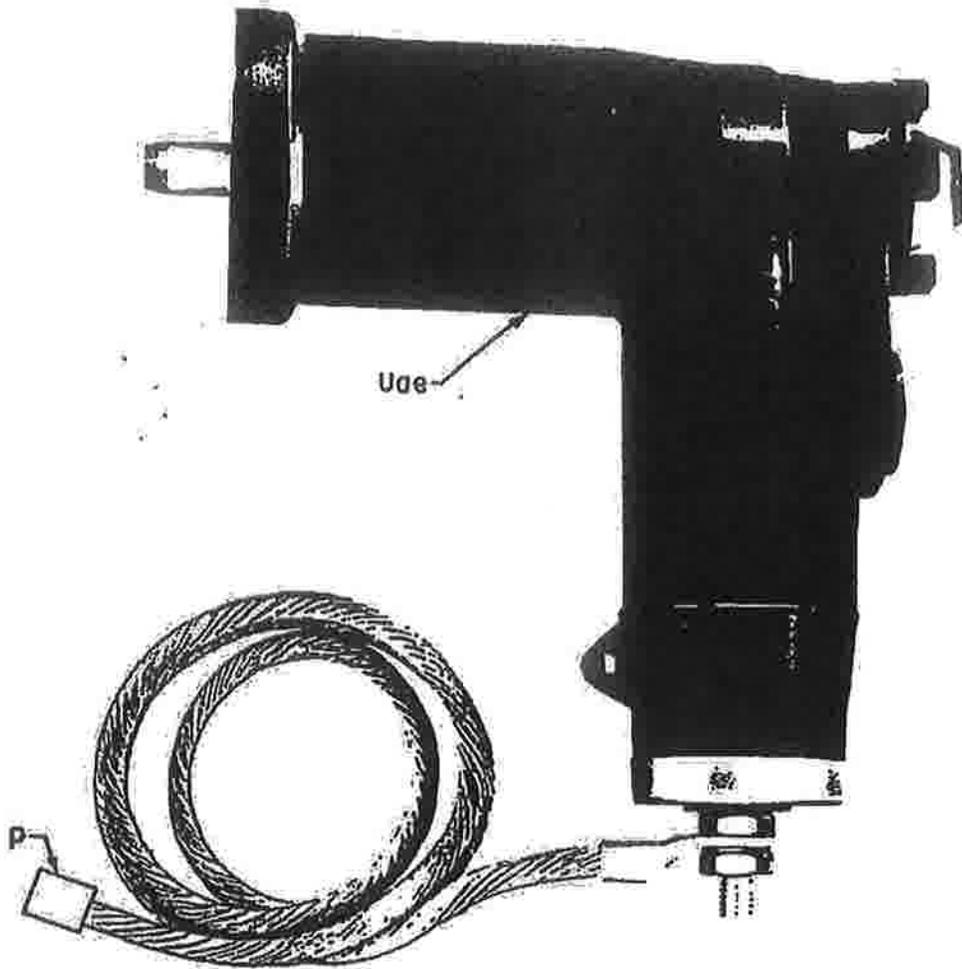
UM6-12 Uhx  
CABLE MARKER ASSEMBLY

MISCELLANEOUS ACCESSORIES		
	Page 2 of 7	UM6-—

200 A DEAD END CAP



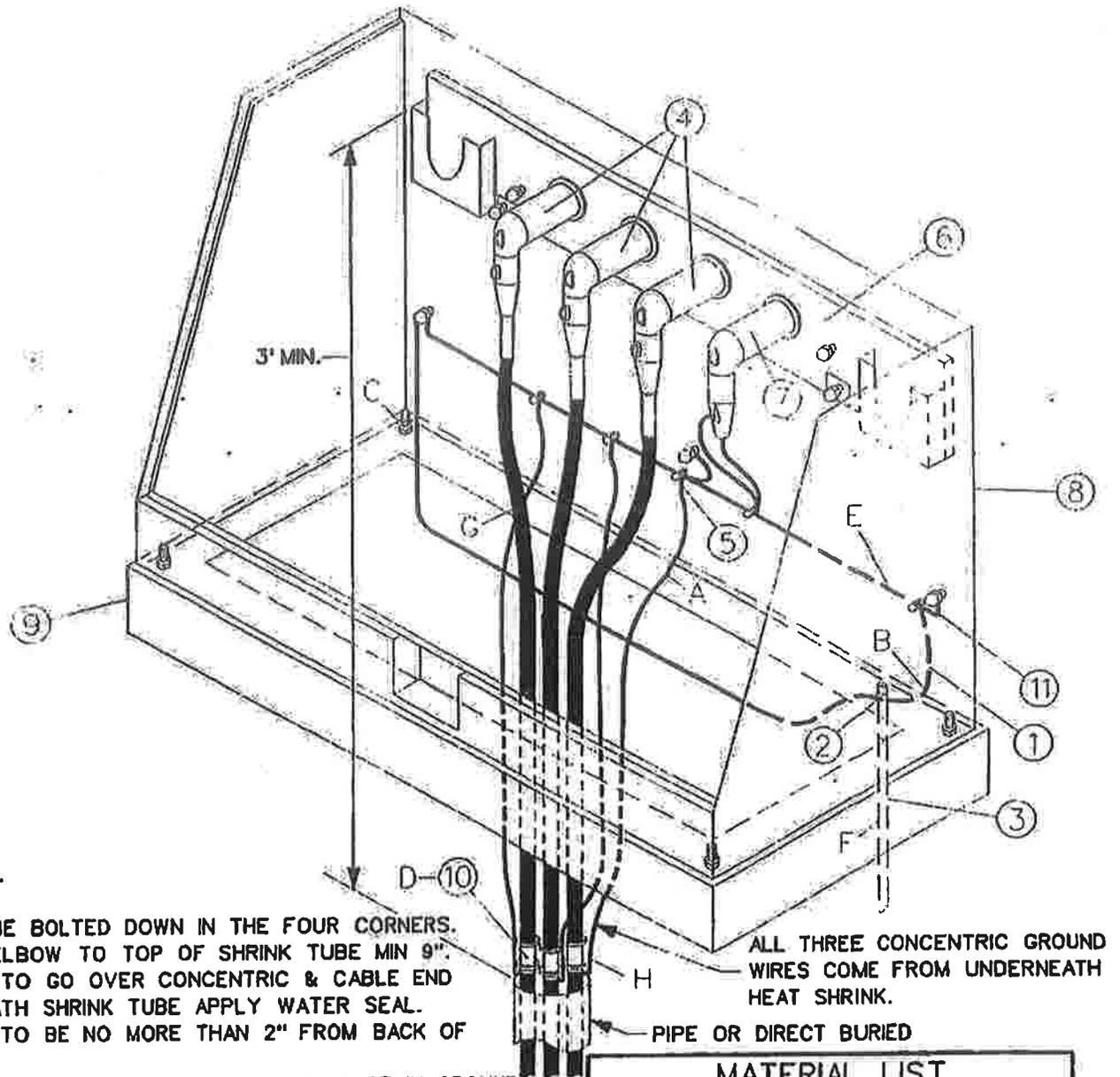
ITEM NO.	MATERIAL	ITEM NO.	MATERIAL
0	1 Parking stand arrester		
		PARKING STAND ARRESTER 15kV-CLASS LOADBREAK SYSTEM	
		NOV., 1993	P.S.E. DWG NO. <b>UM6-15A</b>



ITEM NO.	MATERIAL	ITEM NO.	MATERIAL
Uae	Arrester, elbow		
P	Connectors as req'd		
		MISCELLANEOUS PRIMARY ITEM	
		P.S.E. DWG. NO.	
		UM5-6	
		June, 1989	

ELBOW ARRESTOR

# CITY OF GENEVA 1Ø OR 3Ø MODCAN SPECIFICATIONS



## NOTES:

- A. 20" MIN. LOOP.  
 B. LOOP.  
 C. MODCAN TO BE BOLTED DOWN IN THE FOUR CORNERS.  
 D. BOTTOM OF ELBOW TO TOP OF SHRINK TUBE MIN 9". SHRINK TUBE TO GO OVER CONCENTRIC & CABLE END 2". UNDERNEATH SHRINK TUBE APPLY WATER SEAL.  
 E. GROUND BUS TO BE NO MORE THAN 2" FROM BACK OF CABINET.  
 F. GROUND ROD TO BE 10 FT. WITH A MIN. OF 8 FT. IN GROUND AND TO BE INSTALLED IN RIGHT REAR QUARTER OF MODCAN. GROUND ROD SHALL BE NO HIGHER THAN TOP OF PAD. NO LOOP, ENOUGH SLACK TO MOVE ELBOW TO ADJACENT PARKING STAND.  
 H. TOP OF CONDUIT IS TO BE 6-8" ABOVE GRAVEL.

AN ELBOW ARRESTOR SHALL BE INSTALLED ON ONE OF THE UNUSED, OUTGOING POSITIONS. PROTECTIVE CAPS ARE PROVIDED FOR ANY ADDITIONAL UNUSED BUSHINGS. ARRESTOR GROUND LEAD, SHALL BE CONNECTED TO GROUND BUS.

ATTACH THE TELEPHONE COMPANY PROVIDED GROUND WIRE (AROUND SWEEP) TO THE GROUND BUS IN THE EQUIPMENT ENCLOSURE.

POSITIONING OF PHASES/ARRESTORS SHOULD BE THE SAME ON EACH FEED THRU. A-B-C LEFT TO RIGHT TAGGING MUST INCLUDE DIRECTION, PHASE, ADDRESS OF NEXT LOCATION WITH GRID NUMBER, & CABLE TYPE.

ALL THREE CONCENTRIC GROUND WIRES COME FROM UNDERNEATH HEAT SHRINK.

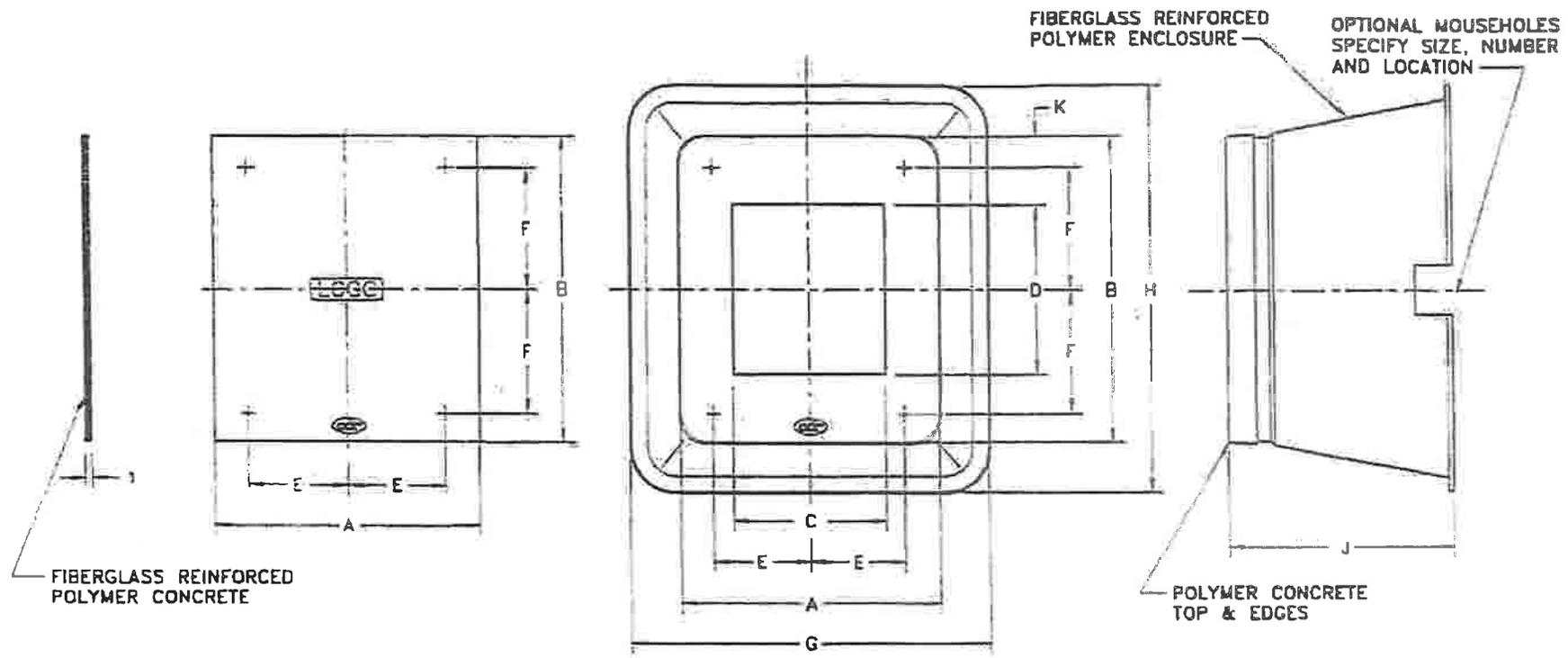
PIPE OR DIRECT BURIED

## MATERIAL LIST

1.	GROUND WIRE
2.	CLAMP GROUND ROD 5/8"
3.	ROD COPPERCLAD GROUND 5/8" X 10'
4.	LOAD BREAK CONNECTOR
5.	CONNECTOR
6.	FOUR WAY FEED THRU
7.	ARRESTOR ELBOW 9 / 10 KV
8.	SECTOR, 15 KV
9.	PAD, FIBERGLASS
10.	HEAT SHRINK TUBE
11.	•2 COPPER STRANDED OR LARGER

3Ø or 1Ø MODCAN

UM33



COVER MODEL	BOX MODEL	A	B	C	D	E	F	G	H	J	K
BC-2367-01	BP-2367-32	23	67	18	62	10	29	40	84	32	2 ½
BC-3843-01	BP-3843-15	37 ½	43	22	24	14	5 ¾	46	52	15	9 ½
BC-3843-01	BP-3843-32	37 ½	43	26	32	14	17	46	52	32	5 ½
BC-6369-01	BP-6369-20	63	69	49	58	26 ½	30 ¾	80	86	20	5 ½
BC-6369-01	BP-6369-30	63	69	49	58	26 ½	30 ¾	80	86	30	5 ½
BC-6068-01	BP-6068-20	60	68	49	58	26 ½	30 ¾	72	80	20	5
BC-6068-01	BP-6068-30	60	68	49	58	26 ½	30 ¾	72	80	30	5

• COLOR: CONCRETE GREY OR MUNSEL GREEN STANDARD

3rd MCGRAW HILL

PLEASE CONSULT FACTORY FOR SIZES NOT LISTED:

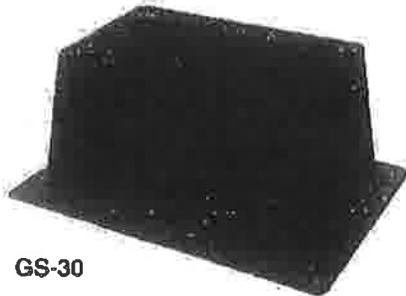
**cdr** SYSTEMS CORP  
 533 N. NOVA RD. #204, ORLANDO BEACH, FL. 32174

TITLE: **BOX PAD & COVER SERIES**

DRAWN	KW/STP/CD	DATE	11/09/95
CHECKED			
APPROVED	AKK		

A  
161-0003

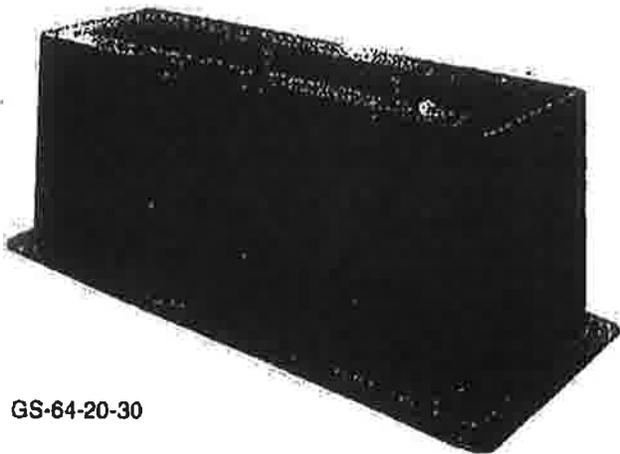
# Nordic Fiberglass Ground Sleeves



GS-30

Avoid the risk of corrosion by mounting your sectionalizing enclosures and switching cabinets on fiberglass ground sleeves. Nordic Fiberglass ground sleeves are produced of fire-retardant resin and a combination of chopped glass sprayup and hand layup using 18 ounce woven roving glass reinforcement for great strength. The exterior is covered with dark green gel-coat for superior weatherability. Units come predrilled to fit your cabinet and with mounting hardware. Sleeves are tapered to allow stacking three inches apart without sticking or binding. Many sizes are available. Nordic manufactures covers for all sizes.

Catalog # /Dimensions	Top Opening	Catalog # /Dimensions	Top Opening	Catalog # /Dimensions	Top Opening
<b>Single-Phase 18" Sleeves</b>		<b>Three-Phase -15"-18"</b>		<b>Three-Phase - 24"-26"</b>	
GS-18-18-18	9x9	GS-61-37-15	52x32	GS-44-26-24	37x20
GS-24-22-18	16.5x18.5	GS-75-37-15	37x32	GS-67-24-24	60x14
GS-25-15-18	16x10	GS-44-18-18	37x9.5	GS-71-25-24	61.5x12.5
GS-25-19-18	18x13	GS-44-44-18	32x32	GS-61-18-26	55x10
GS-27-20-18	17.5x11.5	GS-49-15-18	40.5x10.5	<b>Three-Phase - 30"-48"</b>	
GS-30-18-18	21x10	GS-49-18-18	38x10.5	GS-49-15-30	40x10
→ GS-30-20-18	21x10	GS-49-23-18	39.5x17	GS-49-23-30	40x17.5
GS-31-19-18	22x13.5	GS-61-15-18	53x11	GS-61-15-30	52x10
GS-31-23-18	22x18	GS-61-18-18	55x10	GS-61-18-30	54x11
GS-32-16-18	24x9	GS-64-18-18	56.5x10.5	GS-64-18-30	56x13
GS-35-20-18	25x11.25	GS-64-20-18	57.5x12.5	GS-67-23-30	57x18
GS-36-26-18	30x20	GS-67-23-18	58x16.5	GS-85-23-30	74.5x16
GS-37-23-18	28x18	GS-70-18-18	64x12.5	GS-44-44-36	34x34
GS-38-20-18	30x12	GS-78-20-18	72.5x14	GS-78-24-36	70x16
<b>Single-Phase - 24"-30"</b>		GS-85-23-18	75x16.5	GS-72-75-48	63x17
GS-25-25-24	12x12				
GS-30-18-24	20x9				
GS-32-12-24	24x4				
GS-34-25-24	26x17				
GS-34-30-25	22x18				
GS-36-24-24	31x19				
GS-27-20-26	18x12				
GS-24-22-30	16x17.5				
GS-24-24-30	16x16				
GS-30-18-30	21x10				
GS-30-20-30	23.5x12.75				
GS-31-23-30	22x17.5				
GS-32-16-30	26x12				
GS-35-35-30	27x27				
GS-37-23-30	27.5x17				



GS-64-20-30

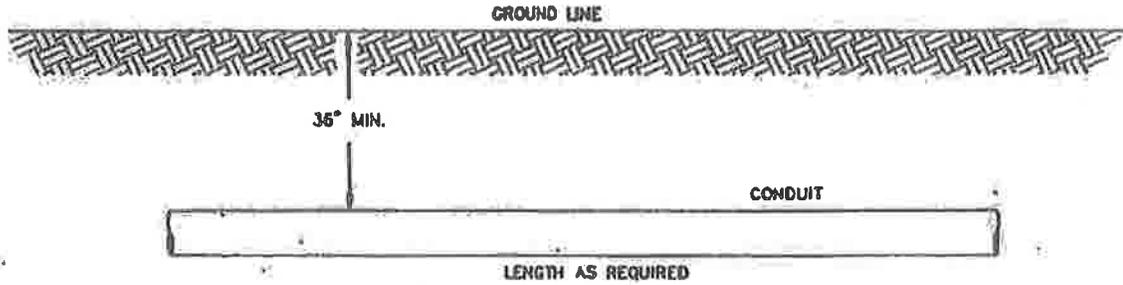


Fabricators of Quality Fiberglass Products  
for the Electric Utility Industry

Nordic Fiberglass, Inc. - P. O. Box 27, Warren, MN 56762

02/99

Phone: 218-745-5095  
Fax: 218-745-4990



SPECIFICATION NUMBER CODES:  
UM50-(P or S)-(DIAMETER)

EXAMPLE: UM50-S-3  
IS 3" STEEL CONDUIT

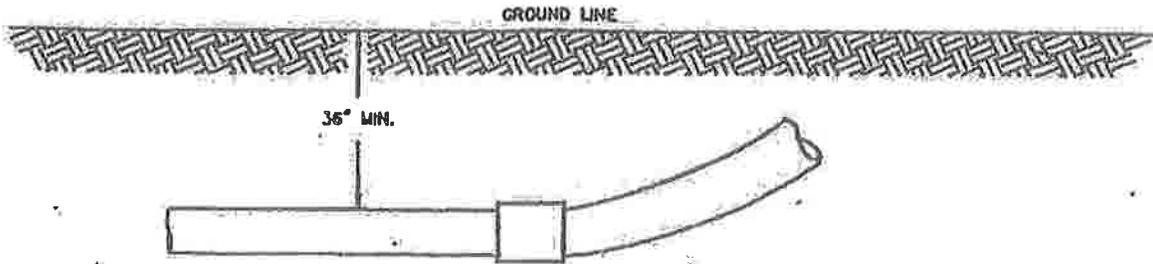
MATERIAL	-P-2	-P-3	-P-4	-P-5	-P-6
1-2" P.V.C. Conduit	1				
1-3" P.V.C. Conduit		1			
1-4" P.V.C. Conduit			1		
1-5" P.V.C. Conduit				1	
1-6" P.V.C. Conduit					1
	-S-2	-S-3	-S-4	-S-5	-S-6
1-2" Steel Conduit	1				
1-3" Steel Conduit		1			
1-4" Steel Conduit			1		
1-5" Steel Conduit				1	
1-6" Steel Conduit					1

NOTE:  
SPECIFY TRENCH UNIT SEPARATELY.

MISCELLANEOUS CONDUIT  
INSTALLATION

UM50-





SPECIFICATION NUMBER CODES:  
UM52-(P or S)-(DIAMETER)

CONDUIT ELBOW WITH COUPLING

MATERIAL	-P-2	-P-3	-P-4	-P-5	-P-6
1-2" P.V.C. Conduit	1				
1-3" P.V.C. Conduit		1			
1-4" P.V.C. Conduit			1		
1-5" P.V.C. Conduit				1	
1-6" P.V.C. Conduit					1
	-S-2	-S-3	-S-4	-S-5	-S-6
1-2" Steel Conduit	1				
1-3" Steel Conduit		1			
1-4" Steel Conduit			1		
1-5" Steel Conduit				1	
1-6" Steel Conduit					1

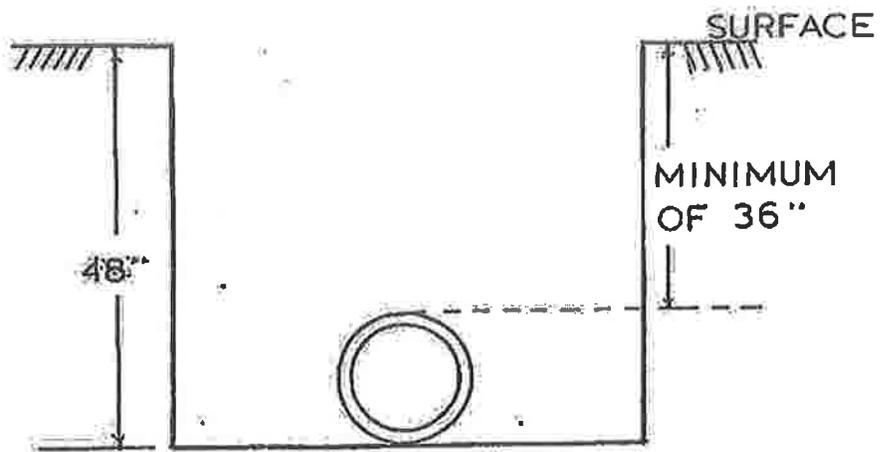
NOTE:  
SPECIFY TRENCH UNIT SEPARATELY.

SWEEP  
ELBOW  
45°

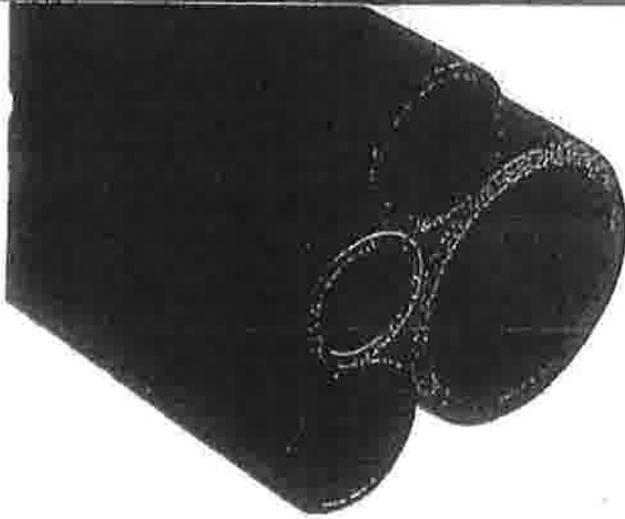
MISCELLANEOUS CONDUIT  
INSTALLATION

UM52-\_\_-\_\_

### TRENCH DETAIL FOR PVC INSTALLATION



## Power Utility



**Applications:** Underground or innerduct. Ideal for use in parking lots, traffic lights, etc.

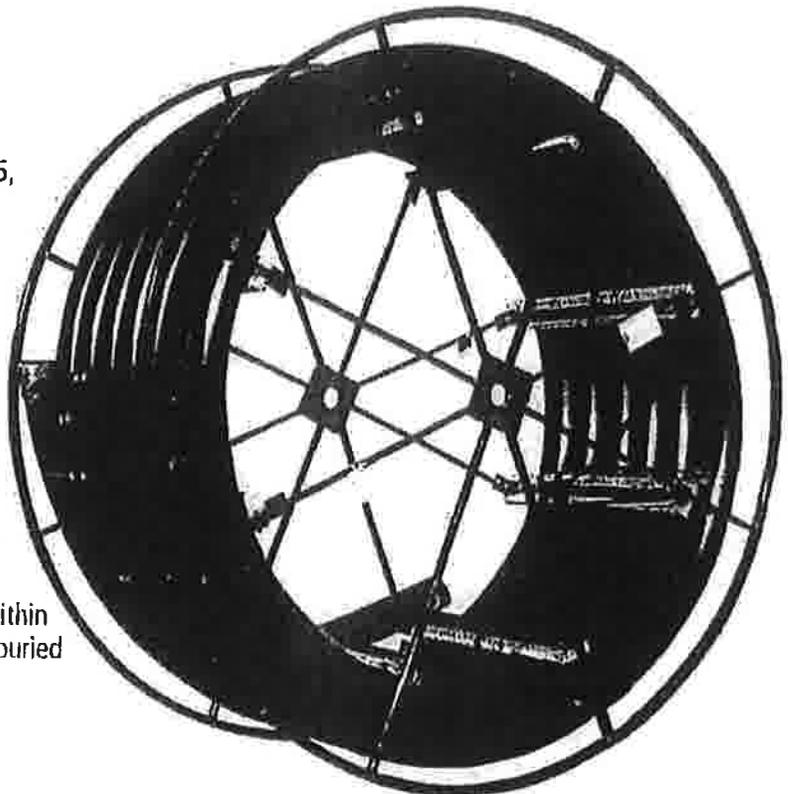
**Installation methods:** Plowing, open trench, directional boring or pulled through existing conduit

**Power Utility HDPE** is a large diameter, flexible raceway used in underground applications where PVC conduit is unable to be used, and is manufactured in compliance with NEMA TC-7 and meets the dimensional requirements of ASTM D3035 and ASTM D2447.

Power Utility HDPE is durable and impact resistant, offering superior protection for underground cables and wires.

### Power Utility Options

- Sizes 1 1/4" - 16"
- Schedule 40 & 80, SDR 11, SDR 13.5, SDR 15.5, and SDR 17 wall types
- Standard colors: black, orange, grey, red and black with red stripes
- Sequentially marked footage
- Pre-installed Cable-In-Conduit
- Stripes: one, three or six
- Ribbed or smooth interior walls
- Innerglide<sup>®</sup> - specially designed longitudinal ribs to decrease surface contact
- Toneable duct - copper conductor within the wall of the duct. Used to locate buried conduit.



6" SDR 13.5 HDPE on a Steel Reel

# SHUR-LOCK™ II

[www.duraline.com](http://www.duraline.com)


Customer Service  
800-847-7661



## FEATURES:

- One person installation
- Re-enterable, no special tools required
- Air and water tight
- No I.D. reduction
- Excellent pull out strength on HDPE, PVC, FRP and steel
- No-Stop version available for confined areas or repairs (\*NS)
- ETL Listed
- Listed to CSA STD C22.2 18.3-04
- Listed to UL STD 514B

Plastic coupler designed for coupling HDPE & PVC conduit. Can also be used to couple dissimilar conduits such as HDPE to PVC, threaded or non-threaded metal conduit, or fiberglass (FRP) conduit. The coupler features stainless steel band clamps (hand tightened using a 5/16" nut driver) and locking ring. A pre-lubricated O-ring forms an air-tight seal to withstand 125 psi. Also, a specialized coupler for use by electrical installers requiring ETL/UL listing. **NOTE:** Certain sizes ETL-Listed for use with HDPE and PVC for underground and concrete encased applications only! Not for use with PVC in above-ground applications. Not premise (indoor) rated.

PART #	SHUR-LOCK II COUPLER	NOMINAL PULL-OUT STRENGTH	PACKAGING WEIGHT (lbs)	SHIP
1-400756	1.00" Shur-Lock II Coupler SDR 1.315" ± 0.020" 	600 lbs	10/CTN	5
1-400757	1.00" Shur-Lock II Coupler HYB 1.350" ± 0.020"	600 lbs	10/CTN	5
1-400758	1.25" Shur-Lock II Coupler SDR 1.660" ± 0.020" 	700 lbs	10/CTN	6
1-400759	1.25" Shur-Lock II Coupler HYB 1.590" ± 0.020"	700 lbs	10/CTN	6
1-401875	1.25" Shur-Lock II Coupler 1.534" ± 0.020"	700 lbs	10/CTN	5
1-400760	1.50" Shur-Lock II Coupler SDR 1.900" ± 0.020" 	800 lbs	10/CTN	6
1-400761	2.00" Shur-Lock II Coupler SDR 2.375" ± 0.020" 	800 lbs	10/CTN	7
1-403650	2.00" Shur-Lock II Coupler-Extended SDR 2.375" ± 0.020" (8.25" long vs 5.75" standard)	800 lbs	10/CTN	8
1-401633	2.50" Shur-Lock II Coupler SDR 2.875" ± 0.020" 	1,000 lbs	6/CTN	8
1-401634	3.00" Shur-Lock II Coupler SDR 3.500" ± 0.020" 	1,000 lbs	6/CTN	11
1-403543	4.00" Shur-Lock II Coupler SDR 4.500" ± 0.020" 	1,000 lbs	4/CTN	15
1-407004	4.00" Shur-Lock II Coupler SDR 13.5 4.657" + 0.020"	1,000 lbs	4/CTN	15
1-403565	5.00" Shur-Lock II Coupler SDR 5.563" ± 0.020" 	1,000 lbs	2/CTN	18
1-403568	6.00" Shur-Lock II Coupler SDR 6.625" ± 0.020" 	1,000 lbs	2/CTN	20

 Please specify if ETL listing is required.

# SHUR-LOCK™ II

[www.duraline.com](http://www.duraline.com)

 ISO  
 9001  
 REGISTERED

 Customer Service  
 800-847-7661

Specialized couplers for coupling dissimilar-sized ducts within the ranges specified:

PART #	SHUR-LOCK II COUPLER TRANSITION	NOMINAL PULL-OUT STRENGTH	PACKAGING	SHIP WEIGHT (lbs)
1-402723	1.00" Shur-Lock II SDR to Hybrid 1.295"-1.335" to 1.330"-1.370"	600 lbs	10/CTN	4
1-402711	1.00" Shur-Lock II SG/FC to SDR 1.400"-1.440" to 1.295"-1.335"	600 lbs	10/CTN	4
1-402725	1.00" Shur-Lock II SG/FC to Hybrid 1.400"-1.440" to 1.330"-1.370"	600 lbs	10/CTN	4
1-400762	1.25" Shur-Lock II SG/FC to Hybrid 1.640"-1.680" to 1.570"-1.610"	700 lbs	10/CTN	5
1-406976	4.00" Shur-Lock II SDR to 4.00" SDR 13.5 4.480"-4.520" to 4.637"-4.677"	1,000 lbs	4/CTN	15

Center stop is removed to allow the coupler to be pulled back over the end of the duct for limited clearance installations.

PART #	SHUR-LOCK II COUPLER NO STOP (NS)	NOMINAL PULL-OUT STRENGTH	PACKAGING	SHIP WEIGHT (lbs)
1-403500	1.00" Shur-Lock II Coupler SDR 1.315" ± 0.020" (ETL)	600 lbs	10/CTN	5
1-403501	1.25" Shur-Lock II Coupler SDR 1.660" ± 0.020" (ETL)	700 lbs	10/CTN	6
1-403502	1.50" Shur-Lock II Coupler SDR 1.900" ± 0.020" (ETL)	800 lbs	10/CTN	6
1-403672	1.50" Shur-Lock II Coupler-Extended SDR 1.900" + 0.020" (ETL) (8.75" long vs 5.75" standard)	800 lbs	10/CTN	6
1-403503	2.00" Shur-Lock II Coupler SDR 2.375" ± 0.020" (ETL)	800 lbs	10/CTN	7
1-403653	2.00" Shur-Lock II Coupler-Extended SDR 2.375" ± 0.020" (8.25" long vs 5.75" standard)	800 lbs	10/CTN	8
1-403504	2.50" Shur-Lock II Coupler SDR 2.875" ± 0.020" (ETL)	1,000 lbs	6/CTN	8
1-403505	3.00" Shur-Lock II Coupler SDR 3.500" ± 0.020" (ETL)	1,000 lbs	6/CTN	11
1-403594	4.00" Shur-Lock II Coupler SDR 4.500" ± 0.020" (ETL)	1,000 lbs	4/CTN	15
1-403595	5.00" Shur-Lock II Coupler SDR 5.563" ± 0.020" (ETL)	1,000 lbs	2/CTN	18
1-403596	6.00" Shur-Lock II Coupler SDR 6.625" ± 0.020" (ETL)	1,000 lbs	2/CTN	20

PART #	SHUR-LOCK II COUPLER BELL ADAPTER	NOMINAL PULL-OUT STRENGTH	PACKAGING	SHIP WEIGHT (lbs)
1-403676	2.00" Adapter, Bell SL-BE 020-135	1,000 lbs	10/CTN	20
1-403662	3.00" Adapter, Bell SL-BE 030-135	1,000 lbs	4/CTN	20
1-403663	4.00" Adapter, Bell SL-BE 040-135	1,000 lbs	4/CTN	20
1-403664	5.00" Adapter, Bell SL-BE 050-135	1,000 lbs	4/CTN	20
1-403665	6.00" Adapter, Bell SL-BE 060-135	1,000 lbs	4/CTN	20

(ETL) Please specify if ETL listing is required.



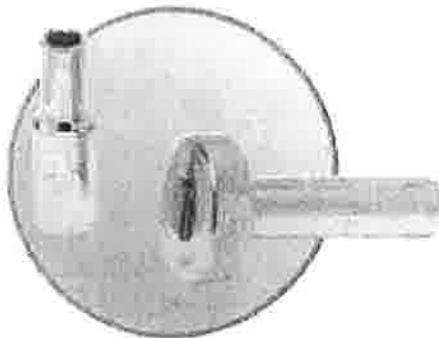
# SHUR-LOCK™ II

[www.duraline.com](http://www.duraline.com)


Customer Service  
800-847-7661

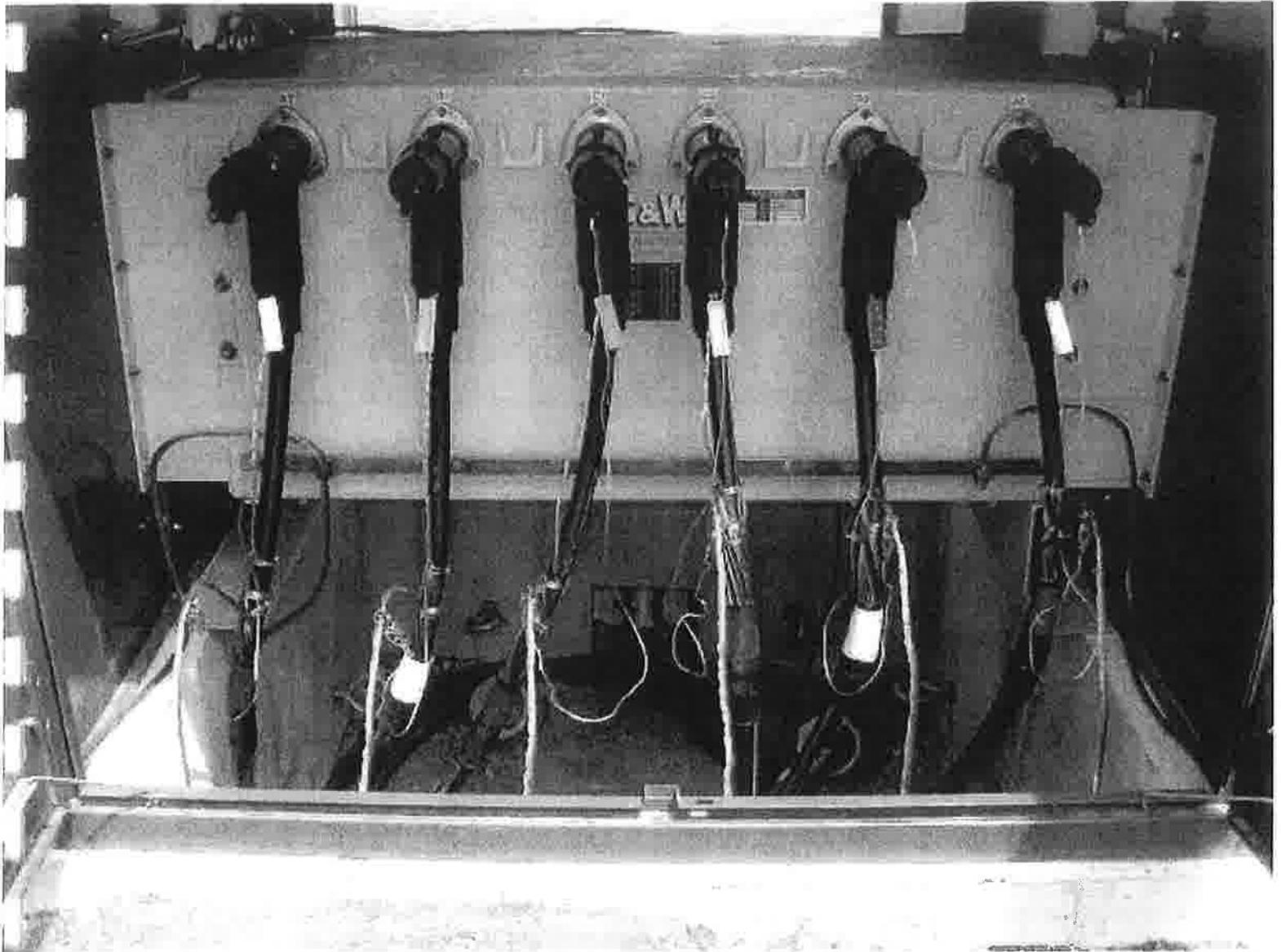
Spreads open the ends of the no-stop couplers to facilitate installation on to the duct end.

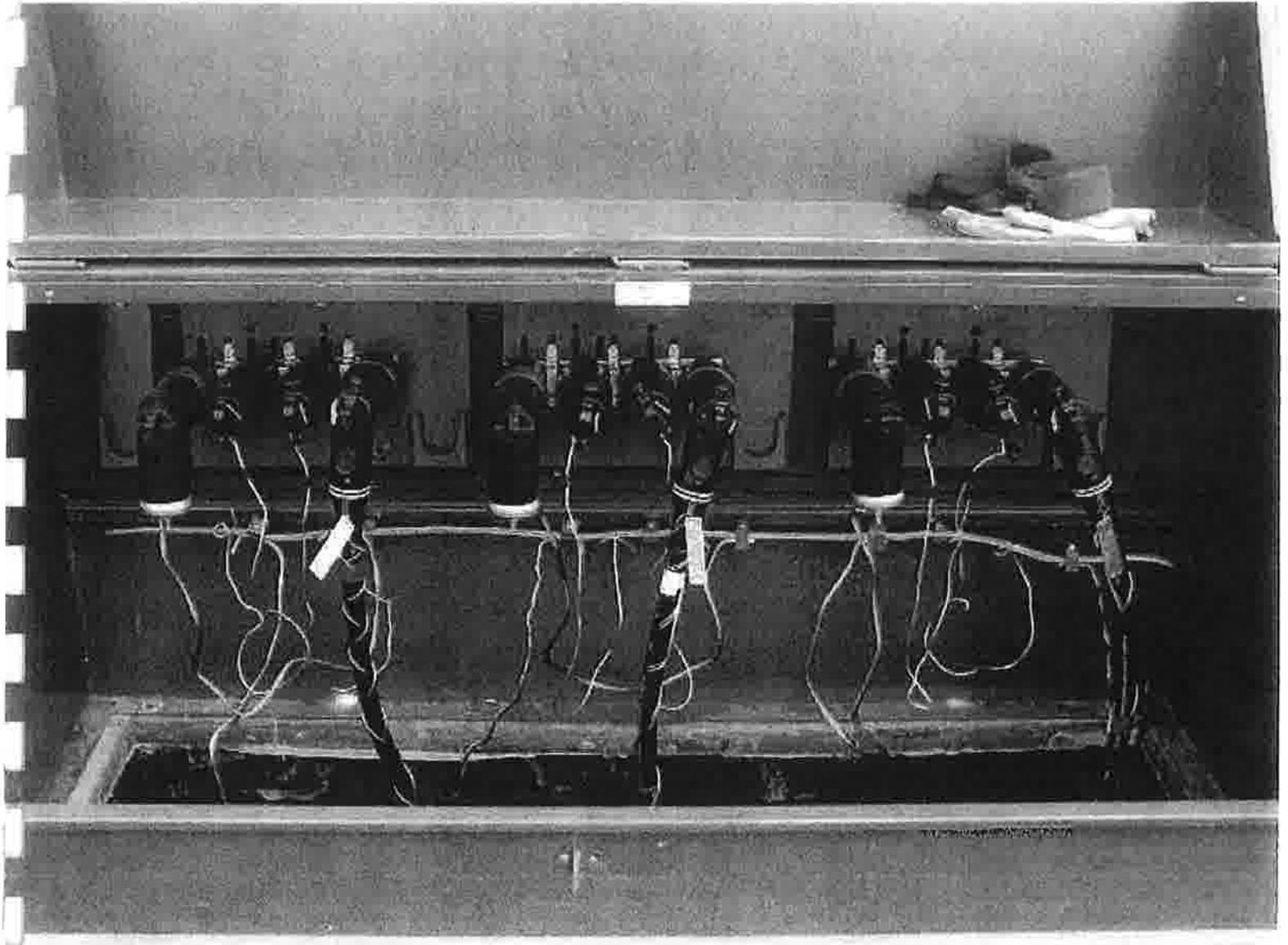
PART #	SHUR-LOCK II NO STOP (NS) SPREADER TOOL	PACKAGING	SHIP WEIGHT (lbs)
1-905906	1.00" Shur-Lock II Spreader	EACH	1
1-905907	1.25" Shur-Lock II Spreader	EACH	1
1-905908	1.50" Shur-Lock II Spreader	EACH	2
1-905909	2.00" Shur-Lock II Spreader	EACH	2
1-905910	2.50" Shur-Lock II Spreader	EACH	3
1-905911	3.00" Shur-Lock II Spreader	EACH	3
1-906163	4.00" Shur-Lock II Spreader	EACH	4
1-906164	5.00" Shur-Lock II Spreader	EACH	5
1-906165	6.00" Shur-Lock II Spreader	EACH	6



PART #	PALM RATCHET	PACKAGING	SHIP WEIGHT (lbs)
1-400936	Palm Ratchet with 5/16" and 7/16" Sockets. Used with Shur-Lock II and Split-Lock couplers.	EACH	1

 Please specify if ETL listing is required.





CITY OF GENEVA SEED MIXES  
LANDSCAPE RESTORATION

PREMIUM SUNNY GRASS SEED MIX

PURE SEED	GERM ORIG
19.91% NUBLUE KY BLUEGRASS	85% WA
19.76% CHICAGO 2 KY BLUEGRASS	85% WA
19.72% BLUE CHIP KY BLUEGRASS	85% WA
19.45% MONTEREY 2 PER RYEGRASS	85% OR
19.22% TOP GUN PER RYEGRASS	85% OR
1.55% INERT MATTER	
0.39% CROP	
0.00% WEED	
NOXIOUS WEEDS - NONE	

PREMIUM SHADY GRASS SEED MIX

PURE SEED	GERM ORIG
39.80% CREEPING RED FESCUE	92% CAN
29.18% ACCENT PRENNIAL RYEGRASS	92% OR
19.81% DURAR HARD FESCUE	85% OR
9.91% BLUECHIP KENTUCKY BLUEGRASS	85% WA
0.96% INERT MATTER	
0.29% CROP	
0.05% WEED	
NOXIOUS WEEDS - NONE	

# AEC Premier Straw<sup>®</sup>

## Straw Erosion Control Blankets

American Excelsior realizes project owners, consultants, specifiers, and landscape contractors wish to have a choice when selecting erosion control blankets. That is why American Excelsior Company, the inventor of biodegradable erosion control blankets, manufactures both straw and excelsior blankets.

Our AEC Premier blanket manufacturing process starts with choosing only top quality, organic, weed seed free, agricultural straw fibers. A single or double net is then stitched to the topside or both sides of the blanket. A variety of nettings are available depending on your project requirements. We offer a green color-coded plastic netting for applications requiring UV resistance, strength, and longevity. Our photodegradable QuickMow<sup>™</sup> netting is recommended for urban use and is a very popular choice on certain roadside projects. It is color-coded white to identify it as a rapid-breakdown, polypropylene netting designed for use in areas to be mowed. Also available is our FibreNet<sup>™</sup> - 100% biodegradable netting - for use in critical environmentally sensitive areas.

### MATERIAL CHARACTERISTICS

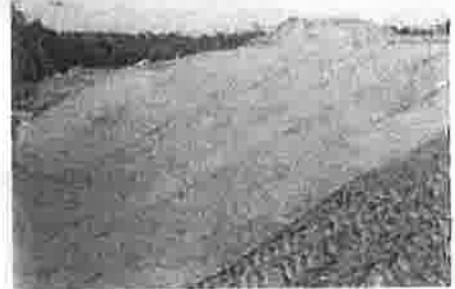
Premier Straw blankets are degradable erosion control blankets consisting of the finest straw fibers available. Depending on job site requirements, a variety of Quick Mow, environmentally sensitive, and stronger netting types are available. At a standard width of 8 feet, which is 18 inches wider than conventional straw blankets, our Premier Straw blankets are specifically designed to provide you with the most effective installation widths available. Lightweight and easy to handle, you can rely on AEC Premier Straw to hold its own in the everyday basic blanket applications. Premier Straw blankets are available individually wrapped or in master packs to allow for mechanical unloading and stacking.

### TYPICAL APPLICATIONS

- Highway slopes and embankments
- Utility right-of-ways

### PERFORMANCE CAPABILITIES

Slopes	Netting Type	Shear Stress Rating
3:1 & flatter	Single: green, QuickMow, or FibreNet	74 Pa (1.55 lb/ft <sup>2</sup> )
2:1 & flatter	Double: green, QuickMow, or FibreNet	84 Pa (1.75 lb/ft <sup>2</sup> )



American  
Excelsior  
Company<sup>®</sup>

Earth Science Division

Arlington, Texas (800) 777-SOIL • www.curlex.com



American  
Excelsior  
Company



Earth Science Division

## AEC Premier Straw® Straw Erosion Control Blanket

### SUGGESTED SPECIFICATIONS

#### General

Premier Straw erosion control blankets are designed to provide temporary protection for grass seed and topsoil during the germination and progressive revegetation and root system development stages.

#### Product

Premier Straw blankets, as manufactured by American Excelsior Company, shall be made from the finest quality agricultural straw fibers available. Straw fibers shall be made into blanket form and stitched to a single net on top or netting on top and bottom. Premier Straw fibers shall be of consistent thickness and evenly distributed throughout the blanket. A variety of netting types are available to meet specific job site requirements. Premier Straw blankets are certified weed seed free.



Weight*:	0.27 kg/m <sup>2</sup>	0.50 lb/yd <sup>2</sup>
Roll Dimensions:	2.4 m x 34.3 m (83.6 m <sup>2</sup> )	8.0 ft x 112.5 ft (100 yd <sup>2</sup> )
	4.9 m x 34.3 m (167.2 m <sup>2</sup> )	16.0 ft x 112.5 ft (200 yd <sup>2</sup> )

\*Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Straw fibers is 15%.

#### Installation

Before installing AEC Premier Straw erosion control blankets, the seedbed shall be inspected by the Owner's Representative to ensure it has been properly compacted and fine graded to remove any existing rills. It shall be free of obstructions, such as tree roots, projections such as stones, and other foreign objects. The contractor shall proceed when satisfactory conditions are present. After the area has been properly shaped, seeded, fertilized, and compacted, AEC Premier Straw erosion control blanket shall be removed from the protective cover. Next, locate the start of the roll, making sure the roll is facing toward the area to be covered, and then roll out the blanket. The blankets shall be rolled out flat, even, and smooth without stretching the material.

**Slopes:** It is recommended the blankets be installed vertically on the slope; however, on short slopes it may be more practical to install horizontally across the width of the application. If more than one width is required, overlap the edges and secure the blankets with a common row of staples. AEC Premier Straw erosion control blankets shall be trenched at the head of the slope if the blanket cannot be extended three feet over the slope crest or if overland flow is anticipated from upslope areas.

**Channels:** AEC Premier Straw erosion control blankets shall be centered to offset a seam in the middle of the waterway. They shall be installed in the same direction as the water flow. The adjoining blankets shall be installed away from the center of channel and overlapped. Blanket installation should continue up the side slopes and three feet over the crest to the flat of the final grade. Flanks exposed to runoff, or sheet flow, must be protected by a check slot or trenched. AEC Premier Straw erosion control blankets shall be trenched at the start of the channel and anchored using a staggered staple pattern at end of roll overlaps and end of roll terminations.

Disclaimer: AEC Premier Straw is a system for erosion control and re-vegetation on slopes and channels. American Excelsior Company (AEC) believes that the information contained herein to be reliable and accurate for use in erosion control and revegetation applications. However, since physical conditions vary from job site to job site and even within a given job site, AEC makes no performance guarantees and assumes no obligation or liability for the reliability or accuracy of information contained herein for the results, safety, or suitability of using AEC Premier Straw, or for damages occurring in connection with the installation of any erosion control product whether or not made by AEC or its affiliates, except as separately and specifically made in writing by AEC. These guidelines are subject to change without notice.



If you would like to receive more information or consult with one of our Customer Care Center Specialists, please call us toll free at (888-352-9582) PDF download specifications available in the Technical Support Library at [www.curlex.com](http://www.curlex.com)

## PUT-UPS

SPAN	LENGTH	REEL LENGTH
		<b>1020</b>
A-1	430	
4-5	<u>530</u>	
	960	
		<b>1020</b>
5-6	290	
1-2	<u>620</u>	
	910	
		<b>1020</b>
6-9	425	
9-10	<u>560</u>	
	985	
		<b>1290</b>
2-3	610	
3-4	<u>660</u>	
	1270	
		<b>1350</b>
6-B	680	
extra	<u>670</u>	
	1350	
		<b>800</b>
10-D	<u>780</u>	
	780	

STAKING SHEETS





CITY OF GENEVA ELECTRIC UTILITY  
 PROJECT: FABYAN PARKWAY  
 SHEET \_3\_ OF 3

[ ] CONSTRUCTION [ ] FINAL  
 W.O.NO. \_\_\_\_\_ STAKED  
 STAKED BY \_\_\_\_\_ DATE

UNDERGROUND PROJECT										90	90	45	45	90	90	45															
LOCATION MAP NO.	CABLE RUN (ft.)	PHASE	PRI.	Size	UR2	UR5-HDPE-6"	UR5-HDPE-5"	UR8	UM/6-1000 AL Tbody	1000 AL Splice	500 AL Splice	500 AL Tbody	1/0 AL ELBOWS	Switchgear	UM50-S-6" (Feet)	UM51-S-6" SR	UM51-S-6" LR	UM52-S-6" LR	UM52-S-6" SR	UM50-S-6" (Feet)	UM51-S-5" SR	UM51-S-5" LR	UM52-S-5" SR	Switch vault - no cover	Switch Vault w/ solid cover	Pulling Vault 4' x 8'	UM/48 Two Ground Rod Assembly	Furnished excavation	BOLLARDS	NOTES	
A	10-D	ABC	790	1000 AL		700		3																							
A	D								3																						
R	E-C	ABC	680	1/0 AL																											
R	C												3																		
A	6-B																														
A	6-C	ABC	630	1/0 AL		290		3														1	1								
R	E																														
R	F									9	3	1												1			1				
R	G									9		1												1			1				4
R	H																														
R	J																														
Totals =		A	2370	1000 AL	0	700	290	9	3	0	0	3	3	0	0	0	0	0	0	2	0	0	1	1	0	0	0	0	0	0	0
		A	1890	1/0 AL																											
		R	2040									18	6	2										2	3	5	4				