



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Consider Resolution Authorizing Execution of Labor Contract with Utility Dynamics for Underground Electric Cable Replacement		
Presenter & Title:	Hal Wright, Superintendent of Electrical Services		
Date:	June 5, 2017		
<i>Please Check Appropriate Box:</i>			
<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: \$596,739.54		Budgeted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If "Other Funding," please explain how the item will be funded:</i>			
Executive Summary:			
<p>On 6/1/17, bids were opened for the Underground Electric Cable Replacement Project which was approved in the 2018 budget. Work is to take place in Sunset Meadows Subdivision. Two bids were received, with three other bidders responding that their work load would not allow them to bid the project. Utility Dynamics was the low bidder in the labor amount of \$596,739.54.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Memo • Resolution 			
Recommendation / Suggested Action: <i>(how item should be listed on agenda)</i>			
<p>Authorize the City Administrator to execute on behalf of the City of Geneva a labor contract with Utility Dynamics for Underground Electric Cable Replacement in the amount of \$596,739.54 at the June 19, 2017 City Council Meeting.</p>			

RESOLUTION NO. 2017-62
RESOLUTION AUTHORIZING EXECUTION OF A
Labor Contract for Underground Electric Cable Replacement

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

SECTION 1: That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, a Labor Contract with Utility Dynamics for Underground Electric Cable Replacement in Sunset Meadows Subdivision in the amount of \$596,739.54 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 19th day of June, 2017.

AYES: __ NAYS: __ ABSENT: __ ABSTAINING: __ HOLDING OFFICE: __

Approved by me this 19th day of June, 2017.

City Administrator

ATTEST:

City Clerk



**PUBLIC WORKS DEPARTMENT
MEMORANDUM**

June 5, 2017

Memo To: Mayor Burns and Members of the City Council

From: Hal Wright, Superintendent of Electrical Services

Re: Recommendation for Labor for 2017-18 Underground Electric Cable Replacement Contract

Bids were opened on Thursday, June 1, 2017 for the labor portion of the FY 2017-18 Underground Cable Replacement Project. This twelfth year of cable replacement will replace cable in the Sunset Meadows Subdivision which is roughly bordered on the east by Western Ave., on the south and west by Fargo Blvd., and on the north by Sherwood Lane. The utility has experienced cable and equipment failures in this area in the last few years.

BID SUMMARY

Twelve bid packages were sent out through email. Two (2) bids were received and opened. The bid amounts are as follows:

<u>Contractor</u>	<u>Evaluated Bid Prices</u>
Utility Dynamics	\$596,739.54
3 Phase Line Construction	\$762,914.26

Staff received letters from the following companies that indicated their work load would not support this project:

JF Electric
The LE Myers Company
Michels Power

Projects costs will be expensed under line item number 620.90.95.95-815.25 with a budget of \$1,901,910.00.

Staff Recommendations:

After reviewing the bids for the 2017-18 Underground Cable Replacement Contract, it is staff's recommendation to the City Council to **award to Utility Dynamics in the amount of \$596,739.54.**

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

BIDDING DOCUMENTS FOR CONSTRUCTION
OF
UNDERGROUND ELECTRIC CABLE REPLACEMENT

JULY 2017



Prepared By:

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FY 2017-18 UNDERGROUND ELECTRIC CABLE REPLACEMENT CONTRACT**NOTICE TO BIDDERS**

Duplicate sealed Proposals submitted in a sealed envelope with the words "FY 2017-18 Underground Electric Cable Replacement Contract" clearly marked on it, will be received by the City of Geneva, Illinois on or before ten o'clock a.m., local time, **June 1, 2017**, 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 2017-18 Underground Electric Cable Replacement 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 abandoning of old cable and the installation of primary cable through conduit in the Sunset Meadows Subdivision in Geneva. The installation of new conduits (poly, pvc & rigid), primary cable, splicing etc to replace existing distribution circuits as well as transformers, pedestals, modcans and street lights.

There will be a pre-Bid meeting on Wednesday May 17, 2017 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
May 11 2017

Published in the "Kane County Chronicle": May 11, 2017

FY 2017-18 UNDERGROUND ELECTRIC CABLE REPLACEMENT CONTRACT

INSTRUCTIONS TO BIDDERS

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

The abandoning of old cable and the installation of primary cable through conduit in various areas of Geneva. The installation of new conduits (poly, pvc & rigid), primary cable, splicing etc to replace existing distribution circuits as well as transformers, pedestals, modcans and street lights.

There will be a pre-Bid meeting on Wednesday May 17, 2017 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 which 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 to 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:

Name of Owner	Job Description	\$ Amount
City of Geneva	FY13-14 UG Elec. Cable Replacement	\$382,632.00
City of Geneva	FY14-15 UG Elec. Cable Replacement	\$447,073.00
City of Rochelle	UG Conduit	\$943,815.00

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:

Machine	Year Built	Machine	Year Built
** PLEASE SEE ATTACHED **			

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

Name of Job	Engineer or Owner
FY13-14 UG Elec. Cable Replacement	City of Geneva
FY14-15 UG Elec. Cable Replacement	City of Geneva
UG Conduit	City of Rochelle

Signature: Joseph B. Spencer, President

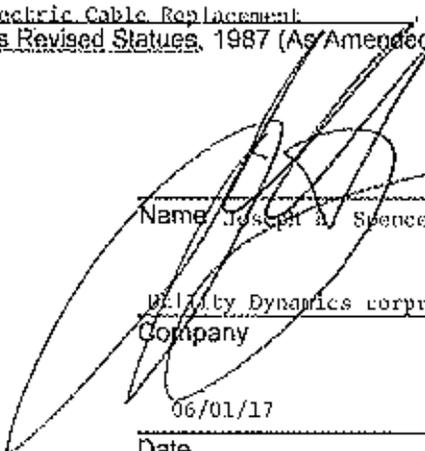
Subscribed and sworn to before me this 1st day of June, 2017

Christie M. Maday
 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 2017-18 Underground Electric Cable Replacement, as a result of either Section 33E-3 or 33E-4 of Chapter 38, Illinois Revised Statutes, 1987 (As Amended).

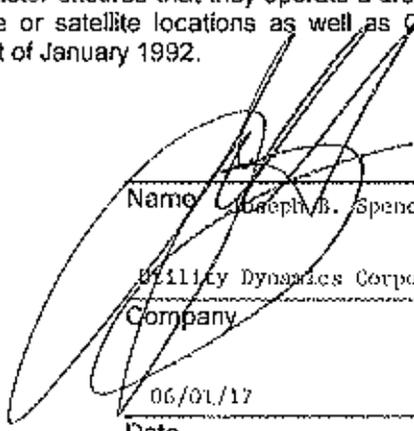

Name Joseph A. Spencer, President
Utility Dynamics corporation
Company
06/01/17
Date

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.



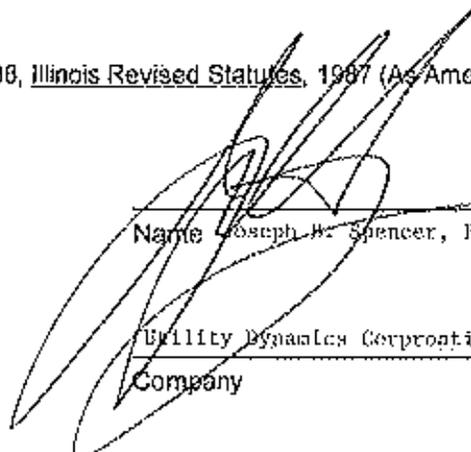
Name Joseph B. Spencer, President

Utility Dynamics Corporation
Company

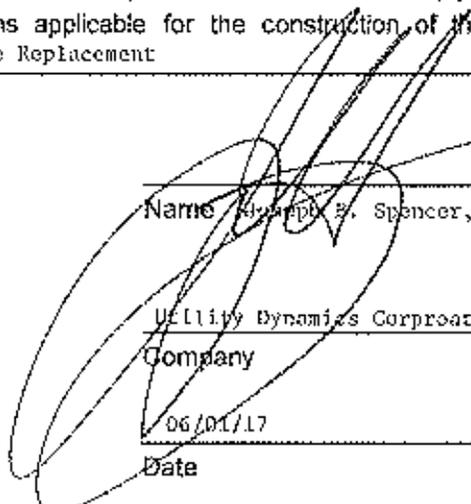
06/01/17
Date

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 2017-18 Underground Electric Cable Replacement as result of a violation of either Section 33E-3 or 33E-4 or Chapter 38, Illinois Revised Statutes, 1967 (As Amended).


Name Joseph B. Spencer, President
Utility Dynamics Corporation
Company
06/01/17
Date

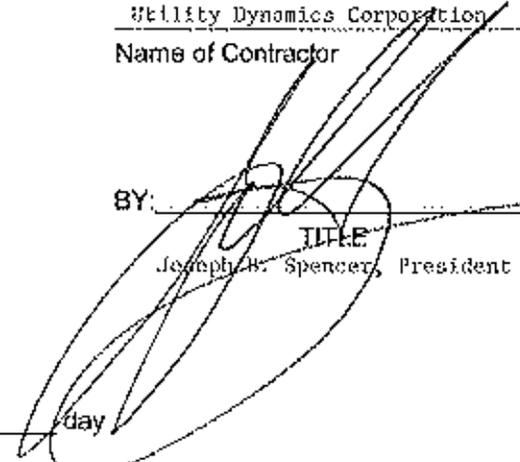
The undersigned, as a duly-authorized representative of the Contractor, hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor is fully aware of and able to comply with all Local, State, and Federal Safety Laws and Regulations applicable for the construction of the Project know as FY 2017-18 Underground Electric Cable Replacement


Name Joseph B. Spencer, President
Utility Dynamics Corporation
Company
06/01/17
Date

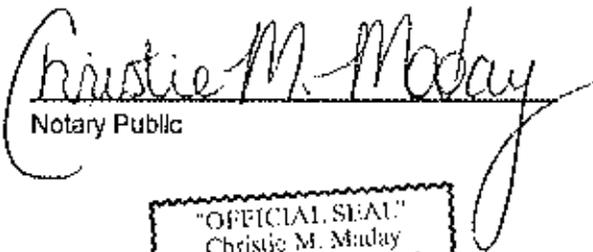
CERTIFICATE OF COMPLIANCE WITH SECTION 11.42.1-1 OF THE ILLINOIS MUNICIPAL CODE

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 1st day
of June, 20 17


Notary Public



** PLEASE SEE ATTACHED **

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
1800 South 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 2017-18 Underground Electric Cable Replacement 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

LIST OF OWNER FURNISHED MATERIALS

Sunset Meadows

Total Units	Quantity	Unit Price	Total Price
1/0 AL primary	10,620	\$2.52	\$26762.40
350 AL triplex	5,800	\$2.27	\$13166.00
#6 CU duplex	3,895	\$0.95	\$3700.25
Elbow Arrestor	11	\$63.70	\$700.70
1/0 AL ELBOW	45	\$24.70	\$1111.50
1/0 AL SPLICES	3	\$25.00	\$75.00
Parking Stand Arrestor	2	\$146.00	\$292.00
Two position vertical feed thrus	6	\$110.00	\$660.00
Ground Assembly(1 + 3PH)	17	\$50.00	\$850.00
100 KVA	1	\$2052.00	\$2052.00
75 KVA	4	\$1674.00	\$6696.00
50 KVA	5	\$1365.00	\$6825.00
37.5 KVA Transformer	4	\$1246.00	\$4984.00
UM1-4C-Transformer Pad	14	\$310.00	\$4340.00
3 phase modcan and pad w/ 4way feed thrus	2	\$1609.00	\$3218.00
Pull vault, 3 x 6	3	\$4000.00	\$12000.00
Cable Tags	45	\$0.35	\$15.75
Pedestal	37	\$247.00	\$9139.00
Set screw connectors for transformers	42	\$21.65	\$909.30
Street Lights, 100 w HPS	19	\$900.00	\$17,100.00
Locks, 620G	19	\$10.90	\$207.10
4/0 CU grounding wire	100	\$4.20	\$420.00
#2 C-Crimps for grounding	48	\$6.95	\$333.60
#2 Bolt-Crimps for ground rods	6	\$2.25	\$13.50
Pulling Lubricant	3	\$35.70	\$107.10
Aquaseal	5	\$15.64	\$78.20
Scotchcoat -- one 15 oz can	5	\$18.14	\$90.70
		TOTAL	\$115,847.10

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 July 17, 2017. 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 October 24, 2017. Landscaping is to be completed by April 25, 2018.** 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 (9/4/17).

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 homeowner 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 homeowner'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 "1a" 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 1 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 X 100 or more employees, and it has _____, has not X 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, May 25, 2017 at 9:00 a.m. The City of Geneva will provide response by email by Friday, May 26, 2015 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>05/17/17</u>	initialed <u>[Signature]</u>
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.

Kane County Prevailing Wage for July 2015

(See explanation of column headings in bottom of page)

Trade Name	SG	TYP	C	Base	PRMAN	R-EXP	OSA	OSH	H/W	Pentan	Vac	Tsing
ASBESTOS ABT-GEN		ALL		39,400	39,950	1.5	1.5	2.0	13.42	11.28	0.000	0.500
ASBESTOS ABT-PRC		BLD		36,340	36,840	1.5	1.5	2.0	11.47	10.96	0.000	0.720
BOILERMAKER		BLD		47,070	51,300	2.0	2.0	2.0	6.970	18.13	0.000	0.400
BRICK MASON		BLD		43,780	48,160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
CARPENTER		ALL		44,350	46,350	1.5	1.5	2.0	11.79	16.40	0.000	0.630
CEMENT MASON		ALL		43,000	45,000	2.0	1.5	2.0	10.00	10.27	0.000	0.500
CERAMIC TILE FINISHER		BLD		36,910	0.000	1.5	1.5	2.0	10.55	9.230	0.000	0.770
COMMUNICATION TECH	N	BLD		36,360	38,460	1.5	1.5	2.0	12.27	10.25	0.000	0.640
COMMUNICATION TECH	S	BLD		38,620	40,720	1.5	1.5	2.0	10.19	10.81	0.000	1.730
ELECTRIC PWR SCMT OP		ALL		37,890	51,480	1.5	1.5	2.0	5.000	11.75	0.000	0.380
ELECTRIC PWR SCMT OP		HWY		39,220	53,290	1.5	1.5	2.0	5.000	12.17	0.000	0.390
ELECTRIC PWR SMDMAN		ALL		29,380	51,400	1.5	1.5	2.0	5.000	9.400	0.000	0.290
ELECTRIC PWR SMDMAN		HWY		30,330	51,290	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR LINEMAN		ALL		45,360	51,400	1.5	1.5	2.0	5.000	14.06	0.000	0.450
ELECTRIC PWR LINEMAN		HWY		46,950	53,290	1.5	1.5	2.0	5.000	14.56	0.000	0.470
ELECTRIC PWR TRK DRV		ALL		30,340	51,400	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR TRK DRV		HWY		32,400	53,290	1.5	1.5	2.0	5.000	9.730	0.000	0.310
ELECTRICIAN	N	ALL		43,750	49,130	1.5	1.5	2.0	14.66	12.31	0.000	0.880
ELECTRICIAN	S	BLD		45,950	50,550	1.5	1.5	2.0	10.57	12.87	0.000	1.610
ELEVATOR CONSTRUCTOR		BLD		50,800	57,150	2.0	2.0	2.0	13.57	14.21	0.000	0.800
FENCE ERECTOR		ALL		45,060	49,660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
GLAZIER		BLD		40,500	42,000	1.5	2.0	2.0	13.14	16.99	0.000	0.940
GY/FROST INSULATOR		BLD		48,450	50,950	1.5	1.5	2.0	11.47	12.16	0.000	0.720
IRON WORKER		ALL		45,060	49,660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
LABORER		ALL		39,200	39,950	1.5	1.5	2.0	13.42	11.28	0.000	0.500
LATHER		ALL		42,520	44,520	1.5	1.5	2.0	11.29	12.76	0.000	0.630
MACHINIST		BLD		45,350	47,950	1.5	1.5	2.0	7.260	8.950	1.950	0.000
MARBLE FINISHERS		ALL		38,400	34,320	1.5	1.5	2.0	10.05	11.75	0.000	0.820
MARBLE MASON		BLD		43,030	47,330	1.5	1.5	2.0	10.05	14.10	0.000	0.700
MATERIAL TESTER I		ALL		29,200	0.000	1.5	1.5	2.0	13.42	11.28	0.000	0.500
MATERIALS TESTER II		ALL		34,200	0.000	1.5	1.5	2.0	13.42	11.28	0.000	0.500
MILLWRIGHT		ALL		44,350	46,350	1.5	1.5	2.0	11.79	16.40	0.000	0.630
OPERATING ENGINEER		BLD 1		48,100	52,100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 2		46,800	52,100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 3		44,250	52,100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 4		42,500	52,100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 5		51,850	52,100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 6		49,100	52,100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		BLD 7		51,100	52,100	2.0	2.0	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY		36,000	36,000	1.5	1.5	2.0	17.10	11.00	1.900	1.250
OPERATING ENGINEER		HWY 1		46,300	50,300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 2		45,750	50,300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 3		43,700	50,300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 4		42,300	50,300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 5		41,200	50,300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 6		40,300	50,300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
OPERATING ENGINEER		HWY 7		47,300	50,300	1.5	1.5	2.0	17.55	12.65	1.900	1.250
ORNAMTL IRON WORKER		ALL		45,060	49,660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
PAINTER		ALL		41,730	43,730	1.5	1.5	1.5	10.30	8.200	0.000	1.350
PAINTER STONS		BLD		33,920	38,030	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIVER		ALL		44,350	46,350	1.5	1.5	2.0	11.79	16.40	0.000	0.630
PIPEFITTER		BLD		46,000	49,000	1.5	1.5	2.0	9.000	15.85	0.000	1.780
PLASTERER		BLD		43,430	46,040	1.5	1.5	2.0	11.35	14.43	0.000	1.020
PLUMBER		BLD		46,850	48,650	1.5	1.5	2.0	13.18	11.46	0.000	0.880
ROOFER		BLD		41,000	44,000	1.5	1.5	2.0	8.280	10.54	0.000	0.530
SHEETMETAL WORKER		BLD		44,720	46,720	1.5	1.5	2.0	10.65	13.31	0.000	0.820
SEEN HANGER		BLD		26,070	27,570	1.5	1.5	2.0	3.800	3.550	0.000	0.000
SPRINKLER FITTER		BLD		49,200	51,200	1.5	1.5	2.0	11.75	9.650	0.000	0.550
STEEL ERECTOR		ALL		45,060	49,660	2.0	2.0	2.0	10.52	20.76	0.000	0.700
STONE MASON		BLD		43,780	48,160	1.5	1.5	2.0	10.05	14.43	0.000	1.030
SWEEP WORKER		ALL		37,000	37,750	1.5	1.5	2.0	12.97	9.930	0.000	0.500
TERRAZZO FINISHER		BLD		38,040	0.000	1.5	1.5	2.0	10.55	11.22	0.000	0.720
TERRAZZO MASON		BLD		41,080	44,880	1.5	1.5	2.0	10.55	12.51	0.000	0.940
TILE MASON		BLD		43,840	47,840	1.5	1.5	2.0	10.55	11.40	0.000	0.950

COMMUNICATIONS TECHNICIAN

Construction, installation, maintenance and removal of telecommunication facilities (voice, sound, data and video), telephones, 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 runways, but not the installation of runways.

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, grinding and cleaning of marble, holding water on diamond or Carborundum blade or saw for wetstone cutting, use of lub saw or any other saw needed for preparation of material, drilling of holes for sizes that anchor material not by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up or 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, ogee marble, alabaster stone, blue stone, granite and other stones (including 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), terrazzo, sandstone, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, visers, treads, hane, 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 MASTER I: Head casing and drilling for testing of materials; field inspection of mixed concrete and asphalt.

MATERIAL MASTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facades, reinforcing steel, formwork, mixed concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATIVE ENGINEER - BUILDERS

Class 1. Asphalt Plants; Asphalt Spreader; Autograder; Backhoes with Common Attachments; Batch Plant; Benoto (requires Two Engineers); Boiler and Nozzle Valve; Caisson Sigs; Central Heat-Rix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Hydraulic Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Saver Over 275 cu. ft.; Concrete Paver 275 cu. ft. and Under; Concrete Slacer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GM) and similar Type; Cretex Crane; Spider Crane; Cranes, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Puller Haver; Highlift Shovels or Front End-loader 2-1/4 yd. and over; Hoists, Electric, outside type rack and pinion and similar machines; Hoists, 200, 300 and Three Drum Hoists, Two Drums One Drum; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Sled Rig; Post Hole Digger; Pre-Stress Machines; Pump Cretex Dual Ram Pump Cretex; Squeeze Cretex-Screw Type Pumps; Gypsum Sulker and Pump; Rollout and Roll End Grill; Roto Mill Grinders; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Pallets; Operation of The Back Machine; Tractorpull; Tractor with Boom and Side Down; Trenching machines.

Class 2. Rollers; Strada, All Power Driven; Walk-behind; Concrete Mixer (Two Drum and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front End-loaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dredging Machine; Rollers, Tagger Single Drum Laser Sigs; rock drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Compressors; Tractors, All; Tractor Drawn Vibratory Roller; Wheel Tracks with 50" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generator; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Tower Units (Pile Drives, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Sump Pumps, Well Pumps; Welding Machines 12 through 51; Winches, 4 Small Electric Drill Machines.

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Paver; Asphalt Reeler and Planer Emulation; Asphalt Reeler Scarifier; Asphalt Spinner; Autograder/GOMED or other similar type machines; AGC Paver; Backhoes with Grison Attachment; Ballast Regulator; Belt Loader Grison Rips; Car Dumper; Central Mix Plant; Combination Backhoe Front Endloader Machine, 11 cu. yd. Backhoe Bucket or over or with attachments; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27K cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of All types; Grease Crane; Spider Crane; Crusher, Stone, etc.; Drills, All; Backhoe Booms; Buckets, Traveling; Bredges; Elevators, Outside type Back & Fillion and Similar Machines; Foreman Carb and Cutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Pallet, Moto Pallet, Farm Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with other attachments up to 40' of boom reach; Lubrication Technology; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Steam Machine; Pump Grease Dual Row; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tampers; Roto Mill; Grinder; Slip-Form Paver; Saw Melters; Soil Test Drill Rig (Truck Mounted); Strandless Hoopies; Hydraulic Telescoping Boom (Tunnel); Operation of Tractor Machine; Tractor Drum Belt Loader; Tractor Drum Belt Loader (with attached pusher - two engineers); Tractor with Drum Tractor with Attachment; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Balad or Blind Hole Drills (Tunnel Shaft); Underground Paving and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Mining and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widenor (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, Cowen Receiver (1); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 28 Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Backlap Machine, Cutting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor rock Cars (Maglund or Similar Type); Drills, All; Straight Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Base; Drilling Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Survey; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dumps; Pump Grease; Squeeze Grease - Screen Type Pumps; System Tanker and Pump Rollers, Asphalt; Rotary Snow Blower; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactors; Spreader - Chip - Stone, etc.; Scraper - Single/Double Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheep Foot, Disc, Compaction, etc.; Tag Boats.

Class 3. Reilers; Brooms, All Power Propelled; Cement Supply Tenders; Compressor, Cowen Receiver (2); Concrete Mixer (Two Bay and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Mending, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All; Elevators; Hoists, Tagger Single Drum; Jeep Diggers; Low Boy; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pig Mills; Rollers, other than Asphalt; Seed and Slur Blower; Steam Generators; Stamp Machine; Truck Trucks with "A" Frame; Work Boats; Tampers-form-Rotor Driven.

Class 4. Air Compressor; Compression - Small Equipment Operator; Directional Boring Machine; Generators; Reaming, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed 5 total of 100 G.P.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machine (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field welders

Class 7. Dozer Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEERS - FLOWING

liner, Diver Bell Tender, Diver Tender, ROV Pilot, ROV Tender

SURVEY WORKER - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transit.

TRAFFIC SAFETY - work associated with barricades, cones 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 - BOLLARD, DRIVE AND HIGHWAY CONSTRUCTION
Class 1. One or three axle Trucks. 6-foot truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up Trucks and Tractors; Ambulances; Batch Gate Loaders; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Boilers; Helpers; Mechanics; Helpers and Graders; Oil Recyclers 2-man operation; Pallets; Hoppers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skidders; Stacey Trucks, 2-man operation; Stacey Truck Conveyor Operation, 2 or 3 man; Tractors; Unskilled Foreman; and Truck Drivers hauling warning signs, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Carts and Adaptors under 7 yards; Scrapers, Tractor Trucks, Euclids, Hug Bottom Dump Turnpills or Frontloaders when pulling other than self-loading equipment or similar 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 Carts and Adaptors 7 yards and over; Dumpsters, Tractor Trucks, Euclids, Hug Bottom Dump Frontloaders or turnpills when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Plastic Explosives; Trucks; Mixer Trucks 7 yards or over; Mobile Cranes with or without Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 40 feet long; Stacey 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; Painter; Mechanic; Self-loading equipment like P.O. and trucks with scoops on the front.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Marble Terrazzo Mechanic, and the mixing, grinding, grinding, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and edging by hand or machine, and in addition, assisting and aiding Marble, Mosaic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has in file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1910 for wage rates or classifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscaper planter and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or IFA 1120) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job

entire as the classification entitled "Material Tester/Inspector 1".
Likewise, the classification entitled "Material Tester 10" involves
the same job duties as the classification entitled "Material
Tester/Inspector 11".

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. Burled 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 lamping 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 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. Fuseter. This unit for removal of a fuseter 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 pull each meter during the outage, ring out the secondary cables from pedestal to house to insure correct labeling and to test voltage and re-install meter after energizing the pedestal. 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 pedestal clear zone (3' on all 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.

Please note there is a substantial portion of landscaping repairs on this project that shall consist of hand work (using hand tools and wheelbarrows) in the rear property easement, including but not limited to: repairing damage caused by construction excavation, machine tracks, ruts, damage caused by plywood used for spoil stockpiles and equipment setup locations. No change orders will be issued for additional costs regarding landscaping repairs.

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 lot corners and rights-of-way necessary for construction marked by a licensed surveyor for the contractor to stay within the subdivision's easements or rights-of-ways. The utility company will provide select maps that are in its possession to assist with easements.

BID PAGE

Section UD -- Underground Cable Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
PRIMARY			
1/0 AL, EPR 15 KV	9.570	\$ 3,073.00	\$ 29,399.04
SECONDARY			
360 AL TRIPLEX	5.140	\$ 3,000.00	\$ 15,420.00
#6 COPPER ST LT	3.515	\$ 1,300.00	\$ 4,572.50
TOTAL SECTION UD =			\$ 50,091.54

Section UG -- Underground Transformer Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
UG-37.5	4	\$ 760.00	\$ 3,040.00
UG7-50	5	\$ 800.00	\$ 4,000.00
UG7-75	4	\$ 800.00	\$ 3,200.00
UG7-100	1	\$ 900.00	\$ 900.00
TOTAL SECTION UG =			\$ 11,140.00

Section UM -- Miscellaneous Underground Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
Single Phase Transformer Pad	14	\$ 850.00	\$ 11,900.00
Pulling Vault 4' x 8' x 3'	0	\$ 1,300.00	\$ -
Pulling Vault 3' x 6' x 3'	3	\$ 1,000.00	\$ 3,000.00
Splice Box Fiber 30" x 48"	0	\$ 512.00	\$ -
Hand Hole Fiber 9" Round	0	\$ 260.00	\$ -
1/0 AL Elbow Terminations	45	\$ 250.00	\$ 11,250.00
1/0 AL Splices	4	\$ 450.00	\$ 1,800.00
4/0 AL Elbows	0	\$ 250.00	\$ -
750 AL Tbodies	0	\$ 520.00	\$ -
750 AL Splices	0	\$ 650.00	\$ -
Parking Stand Arrestor	3	\$ 60.00	\$ 180.00
Elbow Arrestors	11	\$ 60.00	\$ 660.00
1 Ground Rod Assembly	14	\$ 190.00	\$ 2,660.00
200A Dead End Caps	14	\$ 50.00	\$ 700.00
Two Ground Rod Assembly	3	\$ 250.00	\$ 750.00
Single Phase Modcan & Pad	0	\$ 900.00	\$ -
Three Phase Modcan & Pad	2	\$ 1,300.00	\$ 2,600.00

Street Lights	19	\$	900.00	\$	17,100.00
Secondary Riser	0	\$	800.00	\$	-
Switch Vault	0	\$	1,600.00	\$	-
Switch Lid	0	\$	400.00	\$	-
Switchgear	0	\$	2,100.00	\$	-
1 1/4" PVC Elbow (with Material cost included)	38	\$	40.00	\$	1,520.00
3" PVC Elbow (with Material cost included)	91	\$	250.00	\$	22,750.00
4" PVC Elbow (with Material cost included)	0	\$	430.00	\$	-
5" PVC Elbow (with Material cost included)	0	\$	580.00	\$	-
6" PVC Elbow (with Material cost included)	0	\$	600.00	\$	-
Pedestal	37	\$	600.00	\$	22,200.00
Bollards	0	\$	400.00	\$	-
UM50-S-3"	0	\$	23.00	\$	-
UM50-S-4"	0	\$	29.00	\$	-
UM50-S-5"	0	\$	49.00	\$	-
UM50-S-6"	0	\$	65.00	\$	-

UM50-P-3"	0	\$	6.40	\$	-
UM50-P-4"	10	\$	8.00	\$	80.00
UM50-P-5"	0	\$	10.00	\$	-
UM50-P-6"	0	\$	13.00	\$	-
3" Steel Elbow each (material cost included)	56	\$	380.00	\$	21,280.00
4" Steel Elbow each (material cost included)	2	\$	600.00	\$	1,200.00
5" Steel Elbow each (material cost included)	0	\$	\$20.00	\$	-
6" Steel Elbow each (material cost included)	0	\$	1,100.00	\$	-
TOTAL SECTION UM =				\$	121,630.00

Section UR -- Underground Excavation Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
UR 2-Excavation (Per lineal ft)	170	\$ 19.00	\$ 3,230.00
UR 4-Excavation (Per lineal ft)	10	\$ 400.00	\$ 4,000.00
UR5-HDPE-1 1/4 in. Directional Bore 1 1/4" Per lineal ft (with pipe & coupling cost included)	3505	\$ 11.00	\$ 38,555.00
UR5-HDPE-3 in. Directional Bore 3" Per lineal ft (with pipe & coupling cost included)	14120	\$ 16.50	\$ 232,815.00
UR5-HDPE-4 in. Directional Bore 4" Per lineal ft (with pipe & coupling cost included)	0	\$ 22.00	\$ -

UR5-HDPE-6 in.	0	\$	32.00	\$	-
Directional Bore 5" Per lineal ft (with pipe & coupling cost included)					
UR5-HDPE-8 in.	0	\$	43.00	\$	-
Directional Bore 6" Per lineal ft (with pipe & coupling cost included)					
UR8- Utility Locate (per occurrence)	135	\$	100.00	\$	13,500.00
UR19- Pavement Cutting Per Lineal Ft.	10	\$	20.00	\$	200.00
UR20- Pavement Repair (either concrete or Asphalt) Per Square Ft.	10	\$	100.00	\$	1,000.00
TOTAL SECTION UR=				\$	293,300.00

Section I-- Removal Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
Transformer Pad	15	\$ 350.00	\$ 5,250.00
500 AL Trodies	0	\$ 96.00	\$ -
1/0 AL Elbow	39	\$ 60.00	\$ 2,340.00
3 Phase Riser	0	\$ 1,200.00	\$ -
Secondary Riser	0	\$ 300.00	\$ -
Transformer Any Size	15	\$ 600.00	\$ 9,000.00
Pulling Vault	0	\$ 1,100.00	\$ -
Elbow Arrestor	0	\$ 60.00	\$ -
1 Phase Modcan	0	\$ 600.00	\$ -
3 Phase Modcan	0	\$ 700.00	\$ -
Switchgear	0	\$ 1,200.00	\$ -
Street Lights	19	\$ 370.00	\$ 7,030.00
Pedestal	38	\$ 200.00	\$ 7,600.00
Fuser & Pad	0	\$ 1,200.00	\$ -
1 ph ground assembly	15	\$ 50.00	\$ 750.00
Parking Stand Arrestor	0	\$ 32.00	\$ -
500 AL Splices	0	\$ 130.00	\$ -
Bollards	0	\$ 140.00	\$ -
TOTAL SECTION I=			\$ 31,970.00

Price for Crews & Equipment

Labor Unit	Price Per Hour (\$)
	122.00
Foreman	\$ 108.00
Lineman	\$ 74.00
Groundman	\$ 160.00
Directional Boring Machine	\$ 25.00
Foreman's Truck	\$ 35.00
Wiring Pulling Truck	\$
Crew Price for 40 hour Work Week Total:	\$ 20,968.00

Hipot and Energizing

Labor Unit	Lump Sum Price
Hipot, Phase, and Energize and Tagging	\$ 10,000.00

Landscaping

Labor Unit	Lump Sum Price
Landscaping	\$ 16,000.00

Surveying

Labor Unit	Lump Sum Price
Surveying	\$ 8,600.00

Splice at 1402 Fairway

Labor Unit	Lump Sum Price
Splice at 1402 Fairway	\$ 2,048.00

DISTRIBUTION LINE CONSTRUCTION PROPOSAL SUMMARY**Underground**

Section	Total Price
Section UD	\$ 50,091.54
Section UG	\$ 11,140.00
Section UM	\$ 121,630.00
Section UR	\$ 293,300.00
Section I	\$ 31,970.00
Crews & Equipment	\$ 20,960.00
Hipot & Energizing	\$ 10,000.00
Landscaping	\$ 46,000.00
Surveying	\$ 8,600.00
Splice at 1402 Fairway	\$ 2,048.00
TOTAL=	\$ 595,739.54

PROJECT TOTAL+ MATERIAL=\$ _____ \$ 711,586.64

PROPOSAL SIGNATURE BY BIDDER

Utility Dynamics Corporation
Bidder
President
Joseph B. Spencer
23 Commerce Drive
Oswego, IL 60543
Address

ATTEST:



Secretary

Philip A. Whalen

Date 06/01/17

Bids which are not signed by individuals making them should have attached thereto a power of attorney evidencing authority to sign the Bid in the name of the person for whom it is signed.

Bids which are signed for a partnership should be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there should be attached to the Bid a power of attorney evidencing authority to sign the Bid, executed by the partners.

Bids which are signed for a corporation should give the correct corporate name thereof and the signature of the president or other authorized officer of the corporation manually written below the corporate name following the word "By _____". If such a Bid is manually signed by an official other than the president of the corporation, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the Bid should be attached to it. Such a Bid should also bear the attesting signature of the secretary of the corporation and the impression of the corporate seal.

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 here to, 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_____.

_____(Seal)
(Principal)

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 Replacement Contract -- Year 13.

1.02 PROJECT DESCRIPTION:

- A. Description of the Total Project: The City of Geneva is replacing/relocating underground cable, installing vaults, switches, modcans, transformers and pulling and terminating new cable.
- B. Work Under this Contract: This Contract, "Underground Cable Replacement" 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, 750 MCM 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. 750 MCM AL, 4/0 AL, 1/0 AL Cable:
 - (1) Lengths: The approximate reel lengths are as follows:
 - (a) 750 MCM AL: N/A
 - (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 - PERFORMANCE3.01 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 clearing 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 1/4" 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 de 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.

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. Conklin
Mayor

ATTEST:

Annmarie A. Kabela
City Clerk

CITY OF GENEVA 1Ø TRANSFORMER DETAIL

PEDESTAL NOTATION WRITTEN
IN PERMANENT MARKER INSIDE
TRANSFORMER LID. (EXAMPLE)

DANGER AND
PLANTING STICKER
REQUIREMENTS
SHALL BE PLACED
ON FRONT DOOR OF
TRANSFORMER

PIPE OR DIRECT BURIED
SECONDARIES ENTER FROM
LEFT SIDE, PRIMARIES
ENTER FROM RIGHT SIDE

BOND INSERT WITH
SOLID 16 AWG. CU. MH

SEC. NEUTRAL MUST
BE BONDED TO CAS'
OF TRANSFORMER

CONCENTRIC GROUND COMES
FROM UNDERNEATH HEAT
SHRINK.

SECONDARY LEADS MUST
BE MARKED IN TRANSFORMER
AND PEDESTAL AS SPECIFIED
BY CITY OF GENEVA PERSONNEL.

NOTES:

- A. 15" LOOP.
- B. LOOP.
- C. TRANSFORMER TO BE BOLTED DOWN IN THE FRONT.
- 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 TRANSFORMER.
GROUND ROD SHALL BE NO HIGHER THAN TOP OF PAD.
- G. NO LOOP, ENOUGH SLACK TO MOVE TO PARKING STAND.

EXPOSE ENOUGH PRIMARY CABLE AND CONCENTRIC NEUTRAL TO
ALLOW OPERATION OF THE LOAD BREAK ELBOW(S), AND TRAIN THE
PRIMARY CABLE TO CLEAR SECONDARY CABLES.

ELBOW ARRESTOR IS REQUIRED IN END-OF-LINE TRANSFORMER.
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, IF NECESSARY.

TAGGING MUST INCLUDE DIRECTION, PHASE, ADDRESS OF NEXT
LOCATION WITH GRID NUMBER, & CABLE TYPE.

MATERIAL LIST

1. GROUND WIRE
2. CLAMP GROUND ROD $\frac{3}{8}$ "
3. ROD COPPERCLAD GROUND $\frac{5}{8}$ " X 10'
4. LOAD BREAK CONNECTOR
5. FUSE, BAYONET
6. HEAT SHRINK TUBE
7. CONNECTOR, SPADE 6 HOLE
8. TORQUE HEAD CONNECTOR
9. #2 COPPER STRANDED OR LARGER

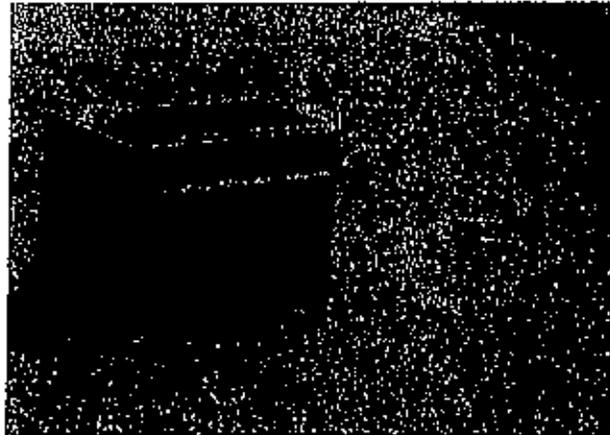
447


SYSTEMS CORPORATION

533 N. MOYA BL., SUITE 200 • GRAND BEACH, FL 32717 • TEL: 904-615-9510 • FAX: 904-615-0906 • E-MAIL: cdr@america.com

TRANSFORMER AND SWITCHGEAR BOX PADS

- Strong
- Lightweight
- UV Resistant
- Non-Conductive



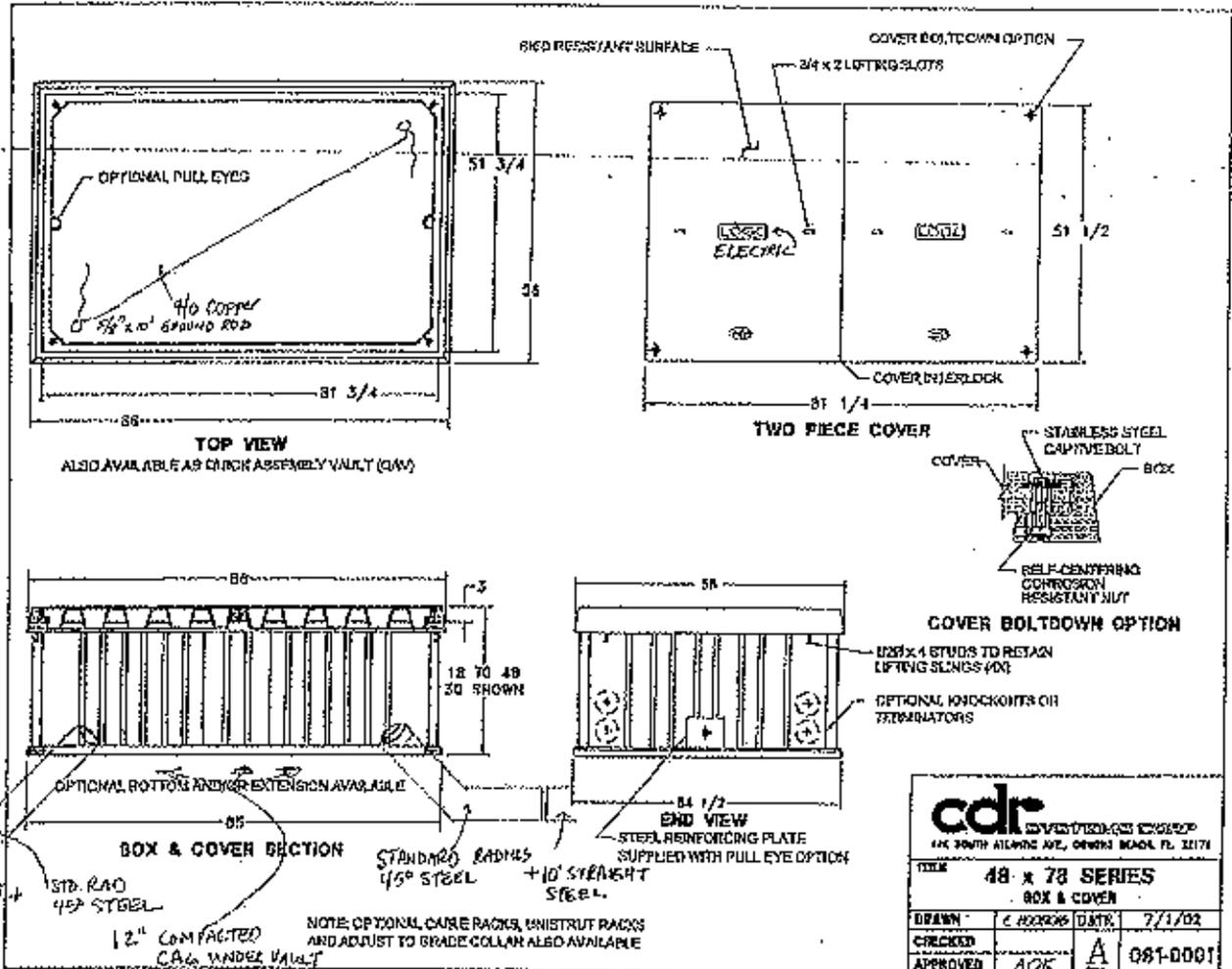
CDR Transformer and Switchgear Box Pads are made from polymer concrete and hand laid up fiberglass. Unique to CDR, the top 4 inches are made of polymer concrete for the ultimate in stiffness, strength and UV resistance.

CDR box pads can be specified with pulleys, knockouts or mouseholes. Please consult factory for sizes not listed.

PART NUMBER	SIZE	WEIGHT	USES
BP30-2367-32	23 X 67 X 32	159 lbs.	SWITCHGEAR
BP30-3843-15	38 X 43 X 15	120 lbs	SINGLE PHASE TRANSFORMERS
BP30-3843-32	38 X 43 X 32	140 lbs.	SINGLE PHASE TRANSFORMERS
BP-3843-42	38 X 43 X 42	160 lbs	SINGLE PHASE TRANSFORMERS
BP-4457-32	44 X 57 X 32	220 lbs.	SINGLE PHASE TRANSFORMERS
BP-6068-20	60 X 68 X 20	320 lbs.	PMH-9 TYPE SWITCHGEAR
BP-6068-30	60 X 68 X 30	330 lbs.	PMH-9 TYPE SWITCHGEAR

SERVICE BOXES • VAULTS • TRANSFORMER PADS • EQUIPMENT PADS

4M1-4C



CATALOG # PA12-4878-36 LOAD = ELECTRIC COVER: HEAVY DUTY

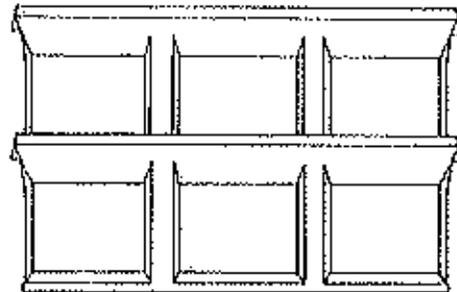
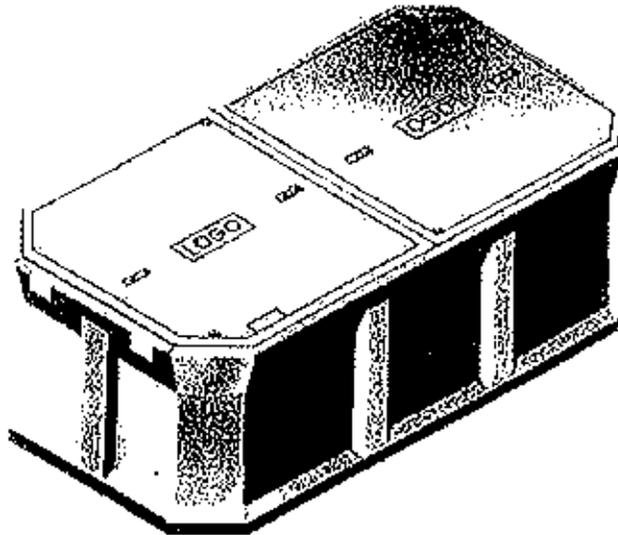
UMI-12C



"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

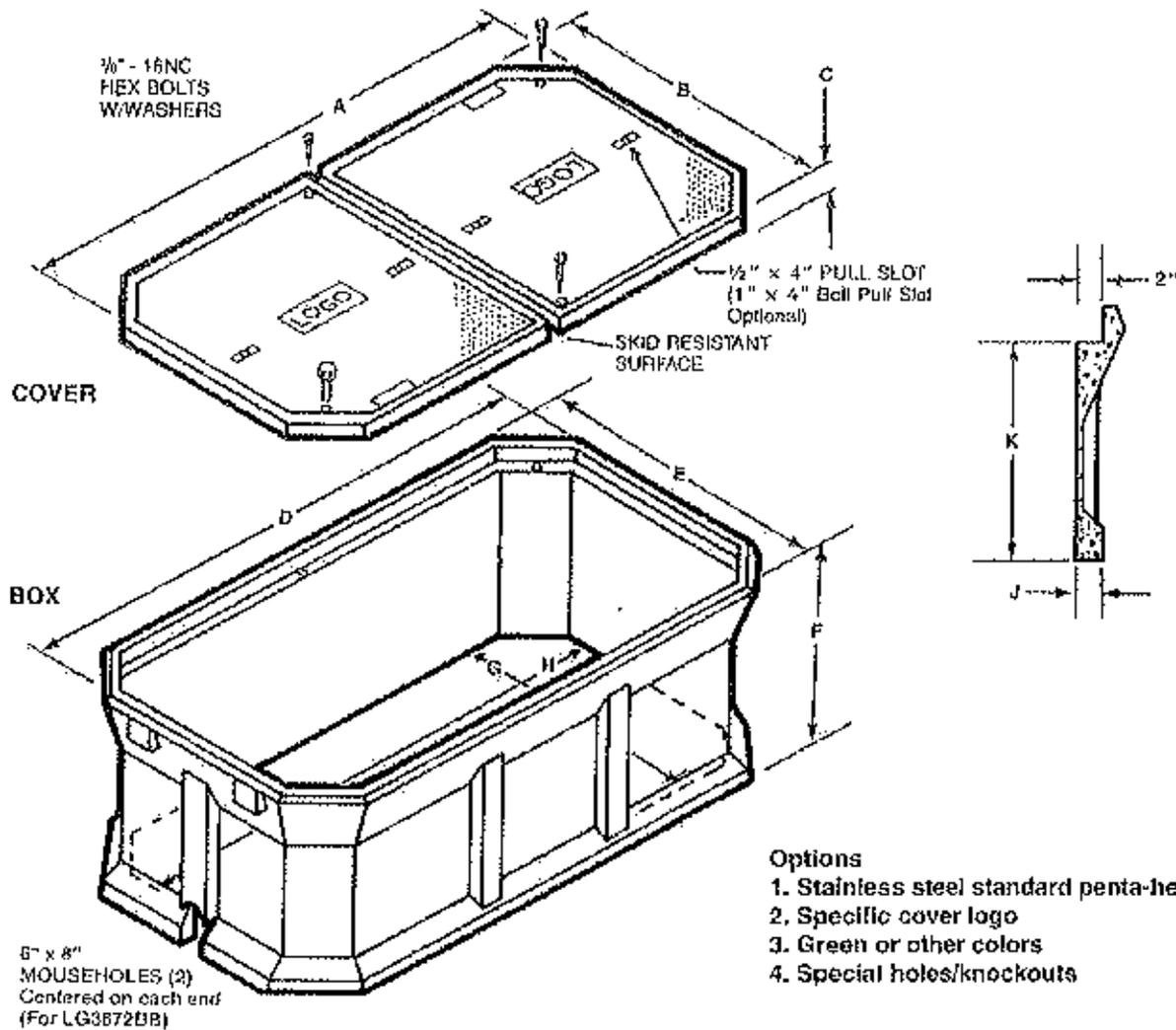
Composite® Service Boxes are constructed of polymer concrete and reinforced by a heavy-weave fiberglass. The results are exceptional strength and rigidity combined with minimal weight.

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	LG3672GA00	78-3/4	48-7/8	3	416
Non-Locking Cover	LG3672WA00	76-3/4	48-7/8	3	416
Heavy Duty Locking Cover	PG3672HA00	78-3/4	48-7/8	3	490

Boxes (Stackable)

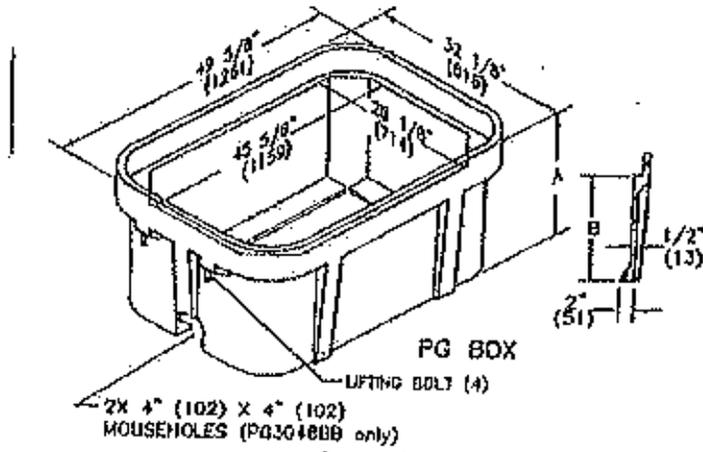
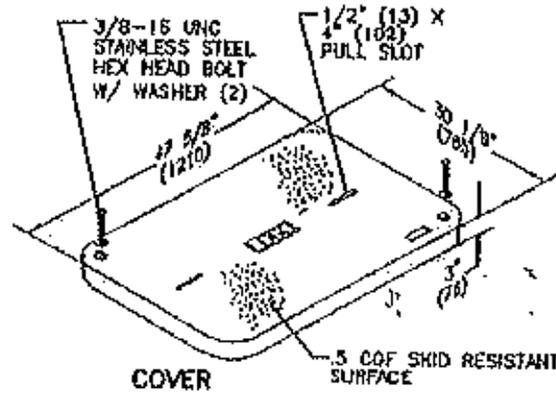
DESCRIPTION	PART NO.	DIMENSIONS (IN.)								WT. LBS.
		D	E	F	G	H	J	K		
Standard Box	LG3672BA21	79-3/4	43-3/4	21	36-5/8	72-5/8	2-1/4	18	256	
Box w/ Mouseholes	LG3672RB21	79-3/4	43-3/4	21	36-5/8	72-5/8	2-1/4	18	246	
Box w/ Solid Base	LG3672DA21	79-3/4	43-3/4	21	36-5/8	72-5/8	N/A	18	316	

Suggested Specifications

Underground enclosures shall be Compositite[®] 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 37771
 800/346-3062 • 615/986-9726 (In TN)



DESCRIPTION	PART NO.	WEIGHT #	DIMENSION A	DIMENSION B	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	PG3048BA30	343 (155.6 kg)	30\" (761 mm)	33\" (838 mm)	22,500 / 33,750	15\"

DESCRIPTION	PART NO.	WEIGHT #	DESIGN/TEST LOAD	ANSI TIER
Lift Bolts	PG3048CA30	150 (72.1 kg)	8,000 / 12,000	8



PULL VAULT FIBER (SB)



Glendora, California
Toll-Free: 800.735.5568
Phone: 909.992.6272
Fax: 909.992.7971

Roscommon, Ireland
Phone: 35.39.03.25022
Fax: 35.39.03.25021

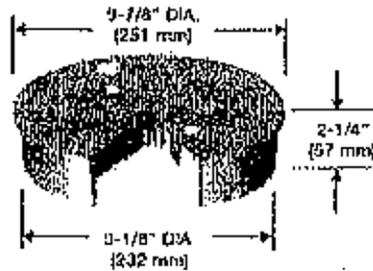
L Series 910

Light Duty



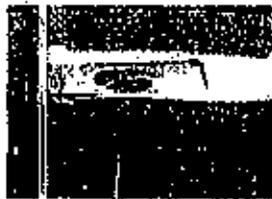
Flush Cover

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

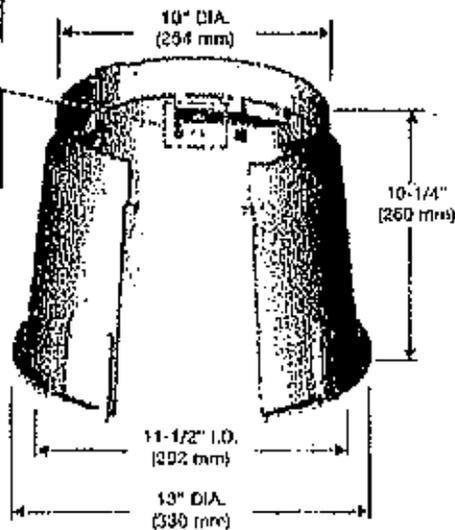


T-Cover

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

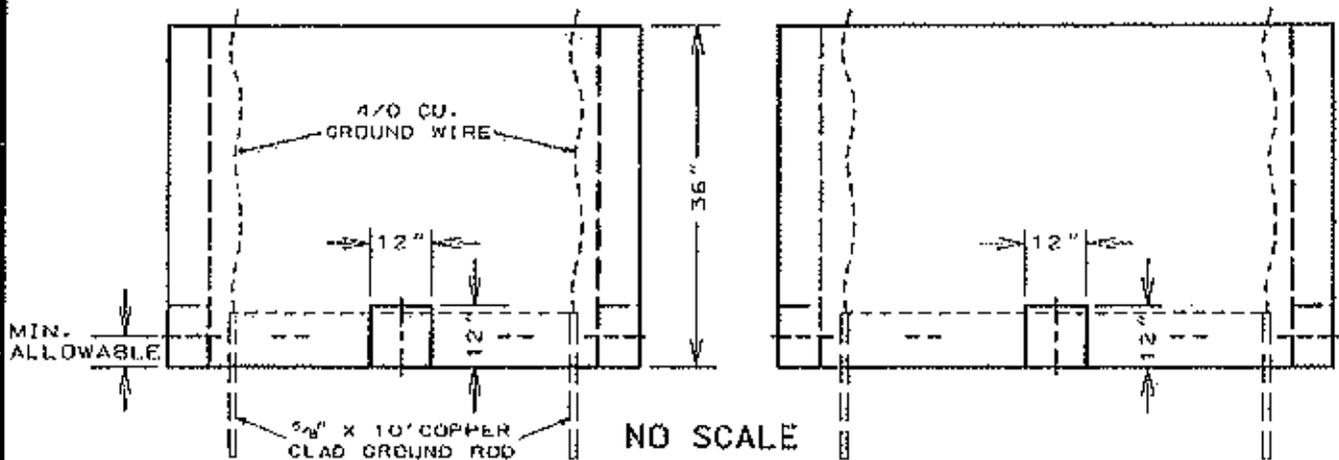
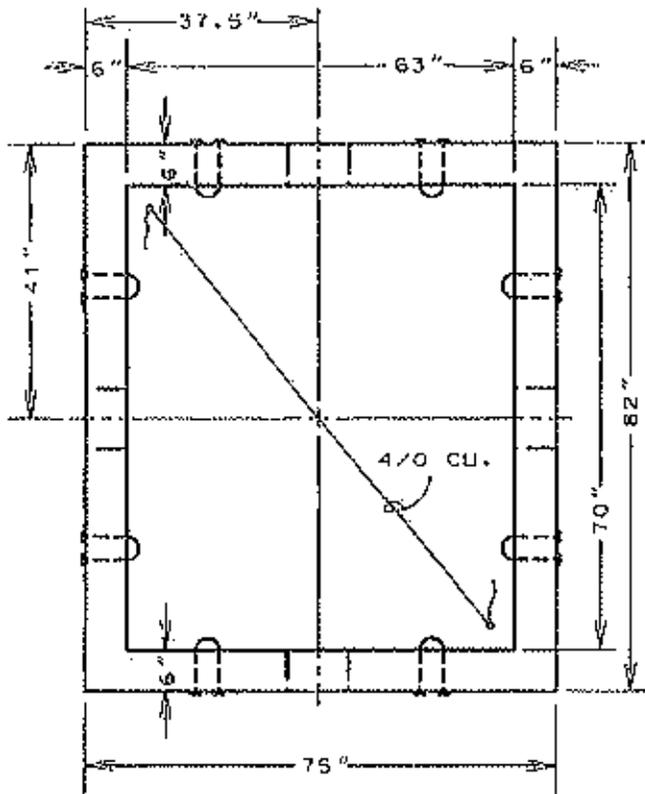
Colors Available

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



CONCRETE-4500 psi @ 28 DAYS

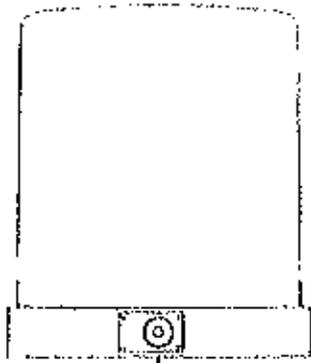
REBAR-ASTM A-615 GRD.60

PAD WT. 5100 LB. (APPROXIMATE)

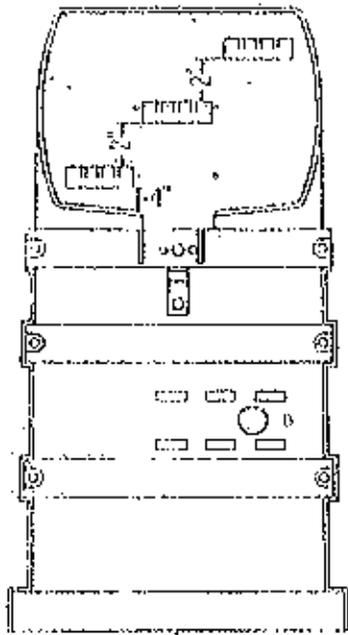
NOTE: PAD TO BE PLACED ON 12" OF COMPACTED CRUSHED GRAVEL

UM1-9C

CITY OF GENEVA ELECTRIC DEPT. PENCELL AG-14-A ADAPTOR BETWEEN BOX & PEDESTAL



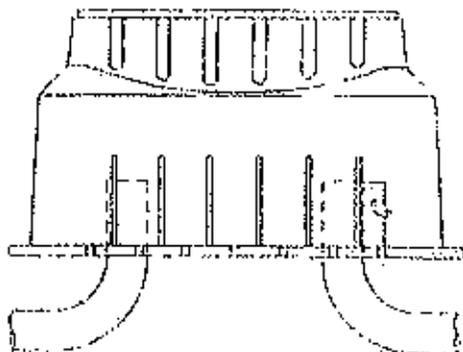
AGNS-14HPT



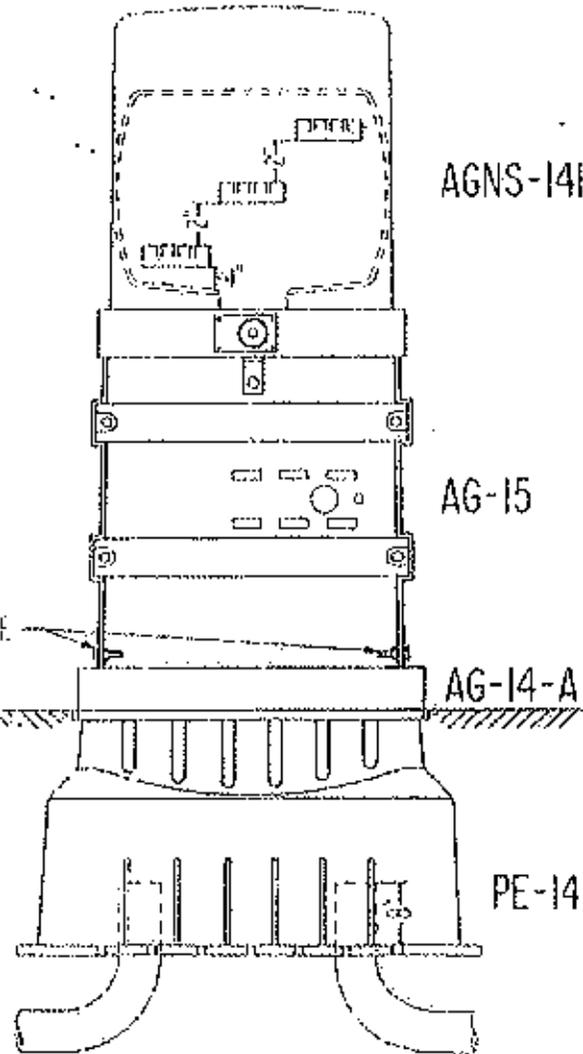
AG-15



AG-14-A



PE-14-GS



AGNS-14HPT

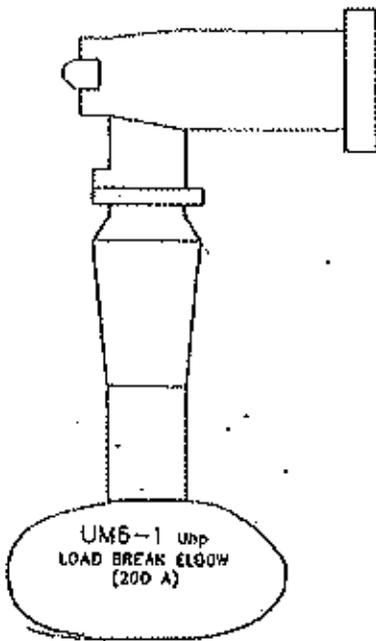
AG-15

AG-14-A

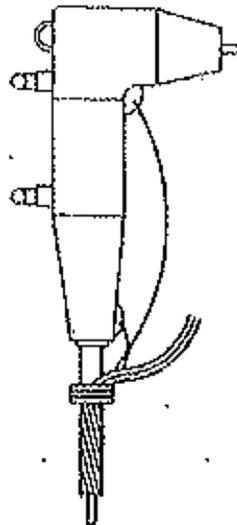
PE-14-GS

NOTE: TO SECURE AG-15 TO AG-14-A
4-5/16" X 2" BOLTS NEEDED
4-LOCKWASHERS
8-FLAT WASHERS
4-NUTS

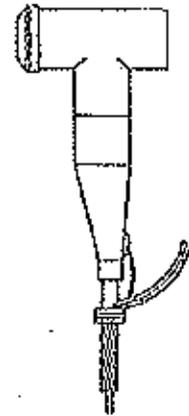
PEDESTAL



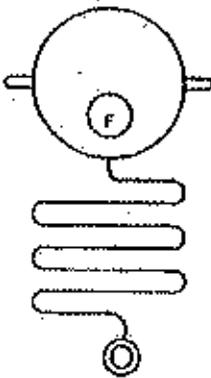
UM6-1 unb
LOAD BREAK ELBOW
(200 A)



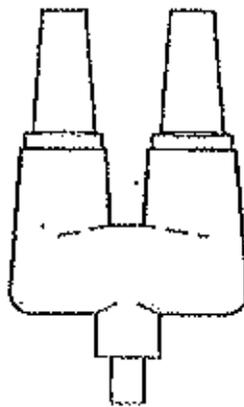
UM6-2 unb
FUSED ELBOW TERMINATION
(200 A)



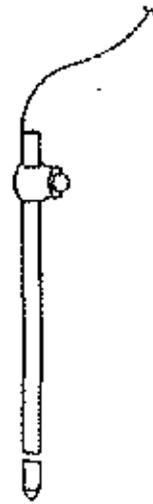
UM6-3 unb
DEAD BREAK TERMINATION
(600 A)



UM6-4 unb
FAULT INDICATOR

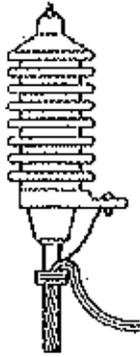


UM6-5 unb
FEED THROUGH LOAD BREAK INSERT

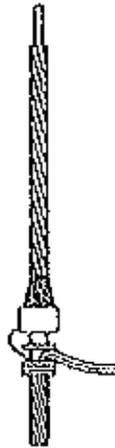


UM6-6 unb
GROUND ROD ASSEMBLY

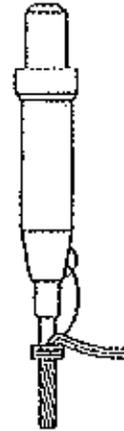
MISCELLANEOUS ACCESSORIES



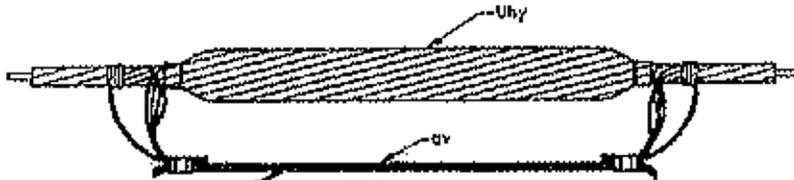
UM6-25 Ugh
 MODULAR OR UNITIZED
 NON-CERAMIC TERMINATION
 SEE GUIDE DRAWING UX20
 FOR CABLE JACKET SEAL



UM6-26 Ugh
 INDOOR STRESS RELIEF CONE
 SEE GUIDE DRAWING UX20
 FOR CABLE JACKET SEAL



UM6-27 Uhb
 CABLE LEAD TERMINATION



CONCENTRIC NEUTRAL
 OR
 EQUIVALENT EXTENSION

UM6-28 Uhy
 IN LINE PRIMARY SPLICE
 (FOR JACKETED CABLE)



CONCENTRIC NEUTRAL
 OR
 EQUIVALENT EXTENSION

UM6-29 Uhy
 WYE PRIMARY SPLICE

MISCELLANEOUS ACCESSORIES		
	Page 5 of 7	UM6-__

SPLICES



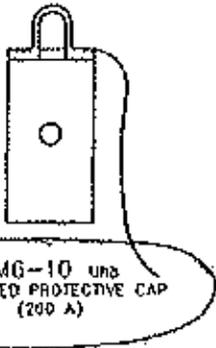
UM6-7 Uhb
BUSHING WELL PLUG
(200 A)



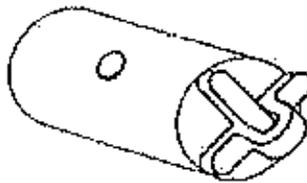
UM6-8 Ugc
RISER SHIELD (U GUARD)



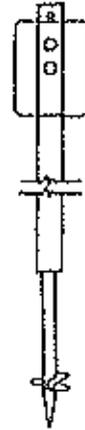
UM6-9 Ugc
CONDUIT CABLE RISER



UM6-10 Uhb
INSULATED PROTECTIVE CAP
(200 A)



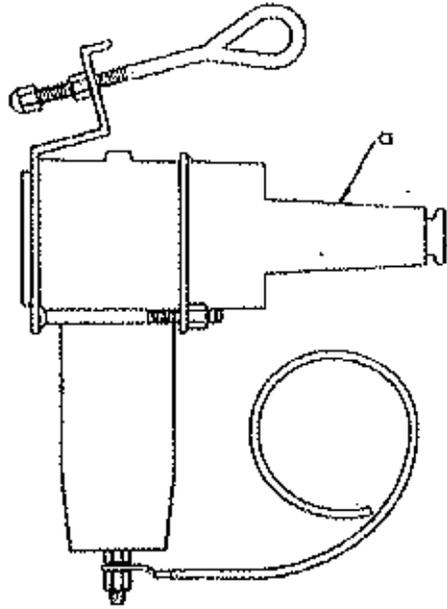
UM6-11 Uhb
INSULATED PROTECTIVE CAP
(500 A)



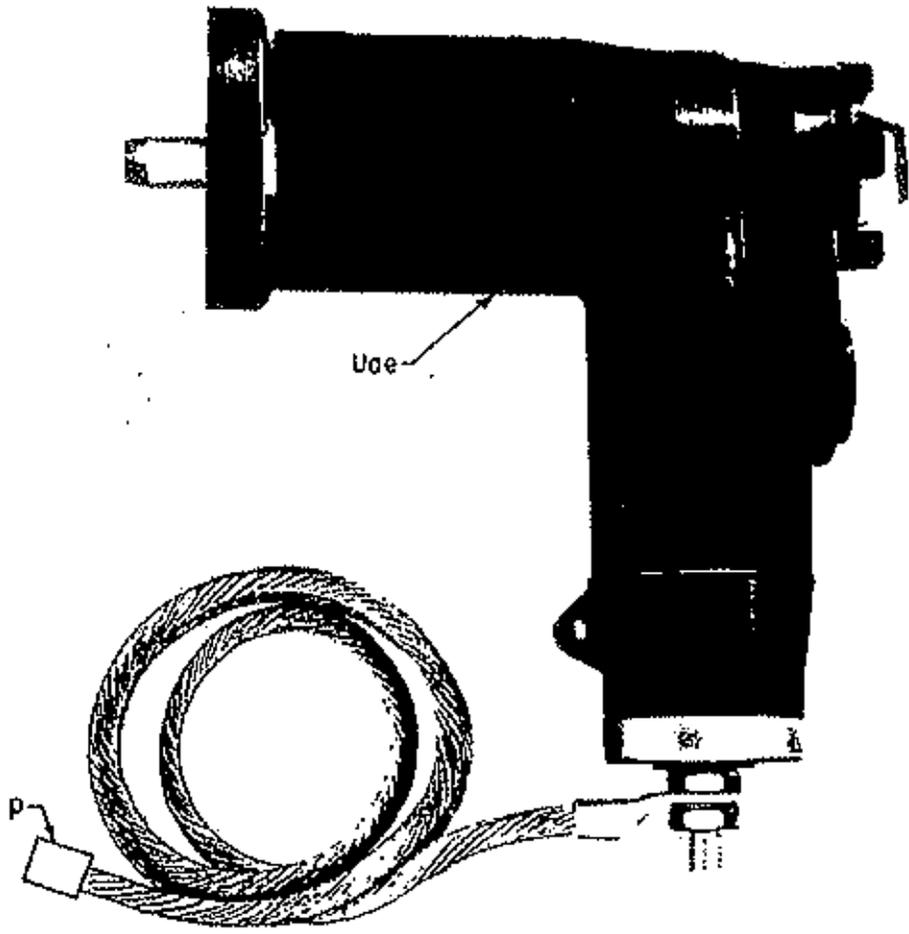
UM6-12 Uhx
CABLE MARKER ASSEMBLY

MISCELLANEOUS ACCESSORIES		
	Page 2 of 7	UM6---

200 A DEAD END CAP



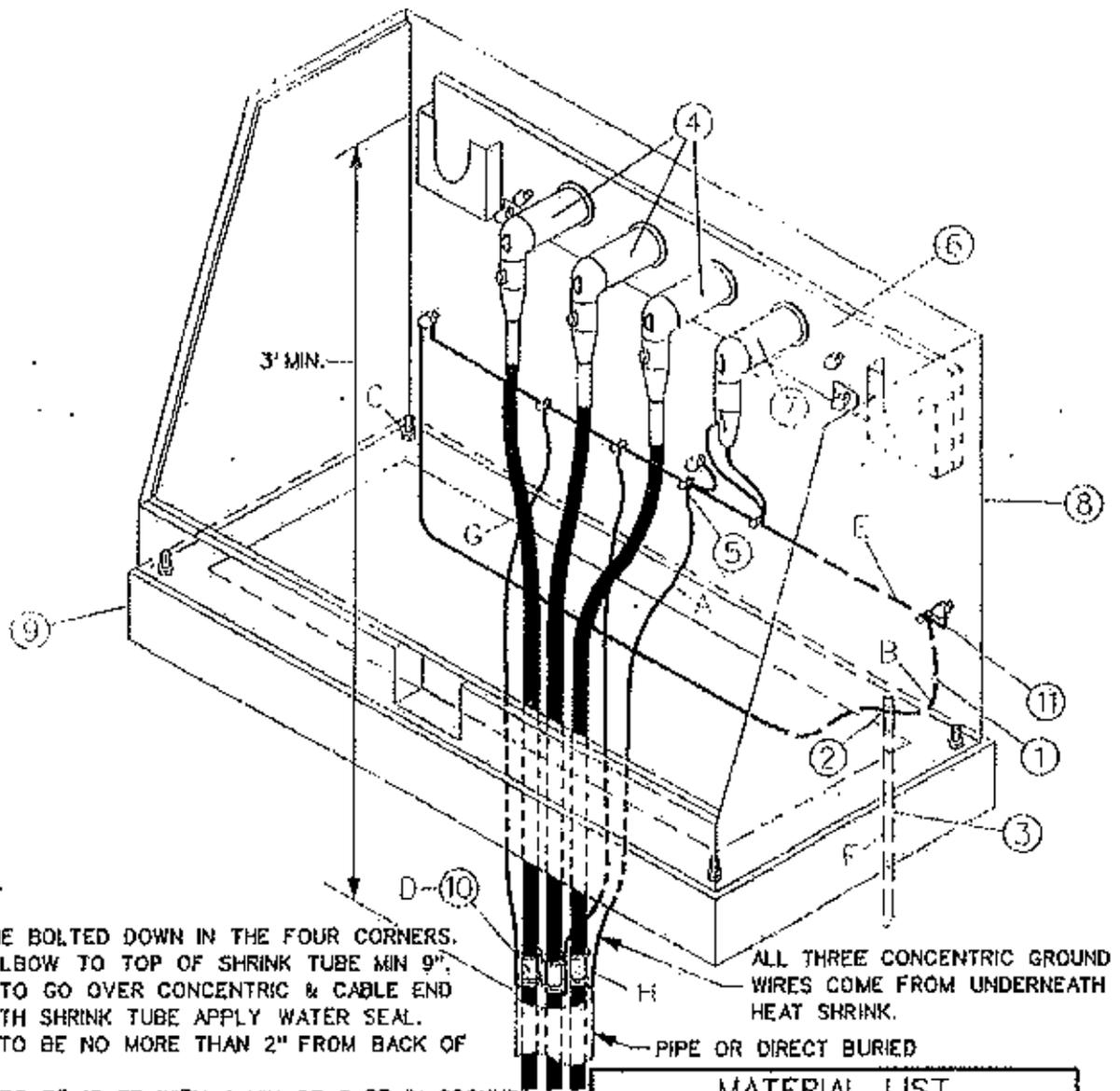
ITEM NO.	MATERIAL	ITEM NO.	MATERIAL
a	1 Parking stand arrester		
		PARKING STAND ARRESTER 15KV-CLASS LOADBREAK SYSTEM	
		NOV., 1993	P.S.E. DWG NO. UM6-15A



ITEM NO.	MATERIAL	ITEM NO.	MATERIAL
Use 1	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.

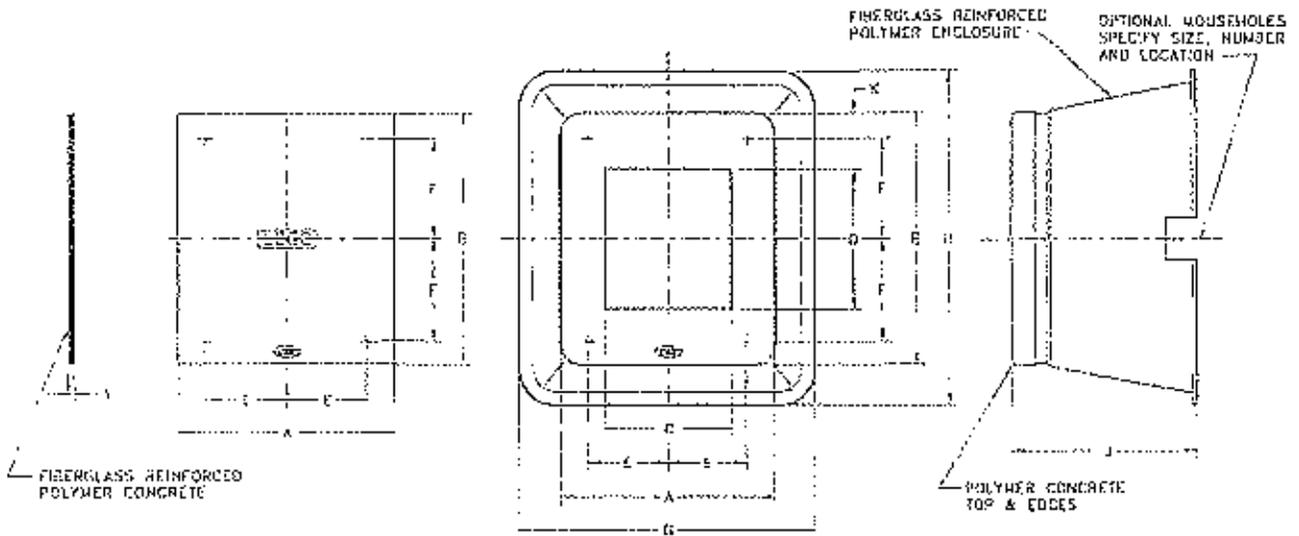
PIPE OR DIRECT BURIED

MATERIAL LIST

1.	GROUND WIRE
2.	CLAMP GROUND ROD 3/8"
3.	ROD COPPERCLAD GROUND 3/8" 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-2367-31	23	67	18	62	10	29	40	84	32	2 1/2
BC-3843-01	BP-3843-15	37 1/2	43	22	24	14	5 1/2	40	52	15	9 1/2
BC-3843-01	BP-3843-32	37 1/2	43	26	32	14	17	46	52	32	5 1/2
BC-6369-01	BP-6369-20	63	69	49	56	26 1/2	30 1/2	80	86	20	5 1/2
BC-6369-01	BP-6369-30	63	69	49	58	26 1/2	30 1/2	80	86	30	5 1/2
BC-6068-01	BP-6068-20	60	68	48	58	26 1/2	30 1/2	72	80	20	5
BC-6068-01	BP-6068-30	60	68	49	58	26 1/2	30 1/2	72	80	30	5

* COLOR: CONCRETE GREY OR MUNSIE GREEN STANDARD

SEE DRAWING 7102

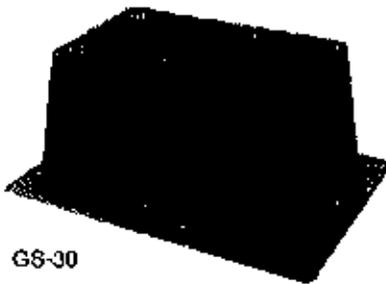
PLEASE CONSULT FACTORY FOR SIZES NOT LISTED

cdr COMMUNICATIONS CORP.
 535 W. 4074 RD. #204, DANONA BEACH, FL 32124

BOX PAD & COVER SERIES

DRAWN	REVISED/DATED	11/68/795
CHECKED		
APPROVED	AK	161-0003

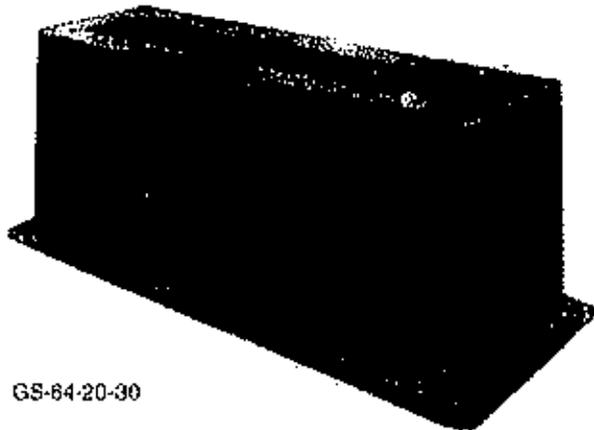
Nordic Fiberglass Ground Sleeves



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 a green gel-coat for superior weatherability. Units come predrilled to fit your cabinet and with mounting hardware. Sleeves are tapered to allow slacking 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
Single-Phase 18" Sleeves		Three-Phase - 15"-18"		Three-Phase - 24"-26"	
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	19x13	GS-44-44-18	32x32	GS-81-18-26	55x10
GS-27-20-18	17.5x11.5	GS-49-15-18	40.5x10.5	Three-Phase - 30"-48"	
GS-30-18-18	21x10	GS-48-18-18	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-32-18-18	24x9	GS-64-18-18	56.5x10.5	GS-64-18-30	58x13
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
		GS-85-23-18	75x16.5	GS-72-75-48	63x17
Single-Phase - 24"-30"					
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

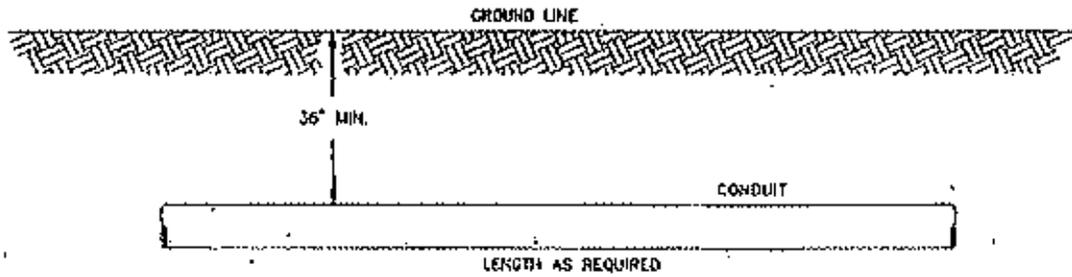


Fabricators of Quality Fiberglass Products
for the Electric Utility Industry

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

8239

Phone: 218-746-5085
Fax: 218-745-4990



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

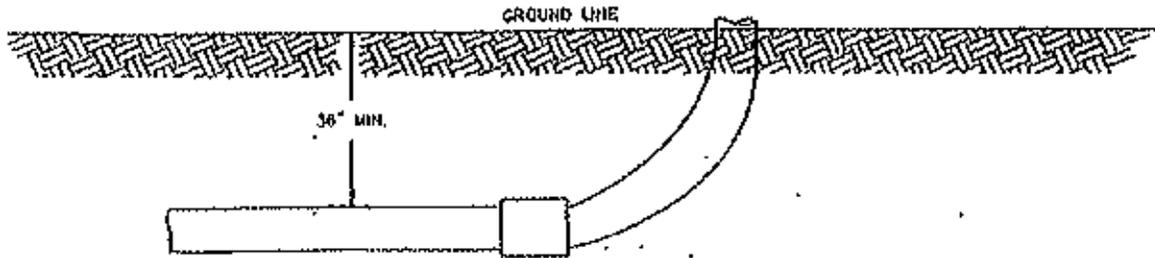
EXAMPLE: UM50-S-3
 IS 3" STEEL CONDUIT

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 UMF SEPARATELY.

MISCELLANEOUS CONDUIT
 INSTALLATION

UM50- - -



SPECIFICATION NUMBER CODES:
UMS|-(P or S)-(DIAMETER)

CONDUIT ELBOW WITH COUPLING

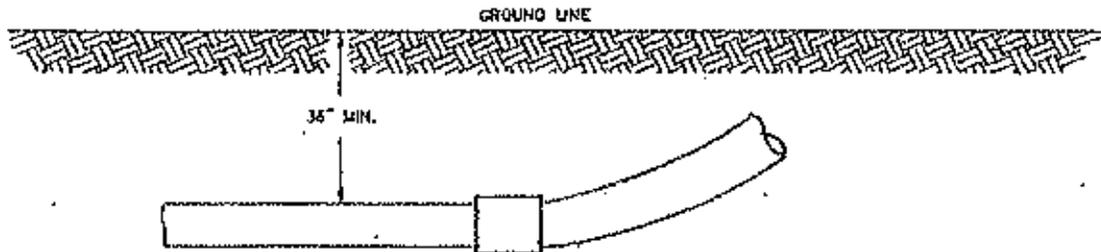
MATERIAL	-P-2	-P-3	-P-4	-P-5	-P-6
1-1/2" P.V.C. Conduit	1				
1-2" P.V.C. Conduit		1			
1-4" P.V.C. Conduit			1		
1-3" P.V.C. Conduit				1	
1-4" P.V.C. Conduit					1
	-S-2	-S-3	-S-4	-S-5	-S-6
1-1/2" Steel Conduit	1				
1-2" Steel Conduit		1			
1-4" Steel Conduit			1		
1-3" Steel Conduit				1	
1-4" Steel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

NOTE:
SPECIFY BENCH UNIT SEPARATELY.

SWEEP
ELBOW
90°

MISCELLANEOUS CONDUIT
INSTALLATION

UMS|-----



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

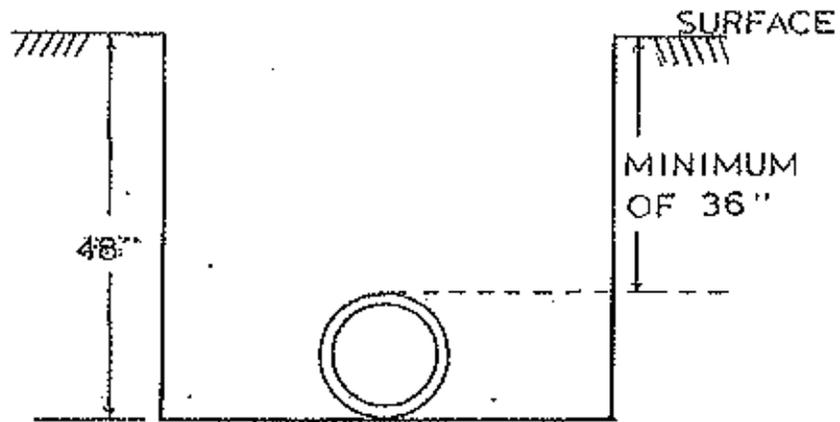
NOTE:
SPECIFY TRENCH UNIT SEPARATELY.

SWEEP
ELBOW
45°

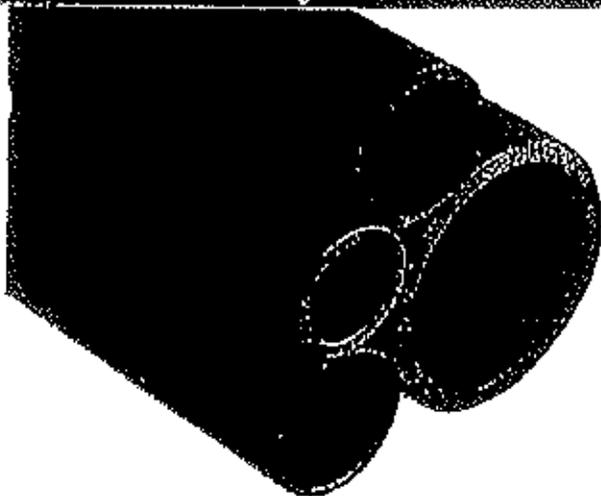
MISCELLANEOUS CONDUIT
INSTALLATION

UM52 - - - - -

TRENCH DETAIL FOR PVC INSTALLATION



Power Utility



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

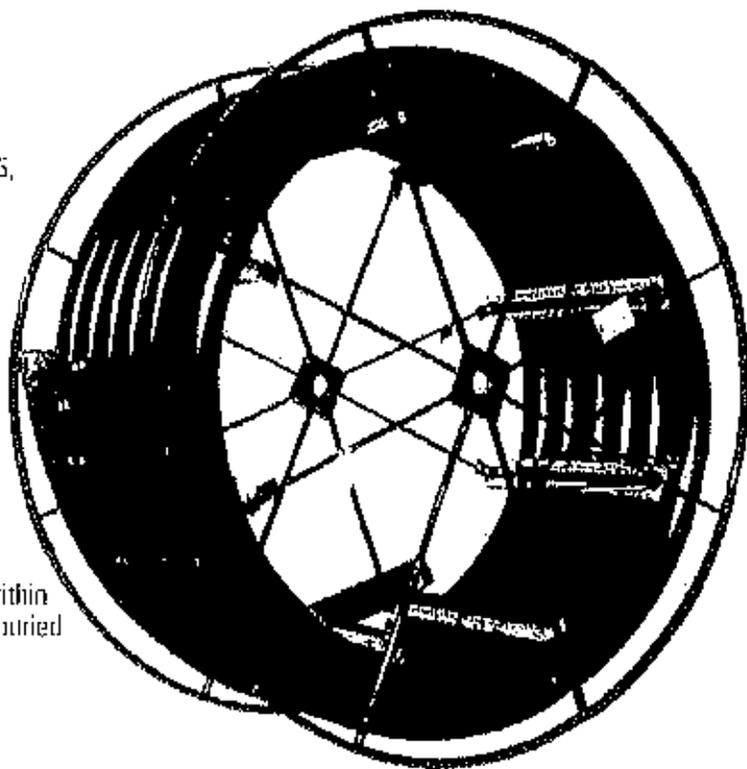
Installation methods: Plowing, open trench, directional boring or pulled through existing conduit

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
- Inverglide[®] - specially designed longitudinal ribs to decrease surface contact
- Locatable 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


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.

dura·line

Customer Service • 800-847-7661

SHUR-LOCK™ II

www.duraline.com


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" 	600 lbs	10/CTN	5
1-403501	1.25" Shur-Lock II Coupler SDR 1.660" ± 0.020" 	700 lbs	10/CTN	6
1-403502	1.50" Shur-Lock II Coupler SDR 1.900" ± 0.020" 	800 lbs	10/CTN	6
1-403672	1.50" Shur-Lock II Coupler-Extended SDR 1.900" + 0.020"  (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" 	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" 	1,000 lbs	6/CTN	8
1-403505	3.00" Shur-Lock II Coupler SDR 3.500" ± 0.020" 	1,000 lbs	6/CTN	11
1-403594	4.00" Shur-Lock II Coupler SDR 4.500" ± 0.020" 	1,000 lbs	4/CTN	15
1-403595	5.00" Shur-Lock II Coupler SDR 5.563" ± 0.020" 	1,000 lbs	2/CTN	18
1-403596	6.00" Shur-Lock II Coupler SDR 6.625" ± 0.020" 	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



 Please specify if ETL listing is required.

dura-line

Customer Service • 800-847-7661

SHUR-LOCK™ II

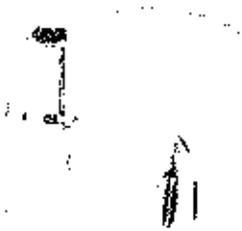
www.duraline.com



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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

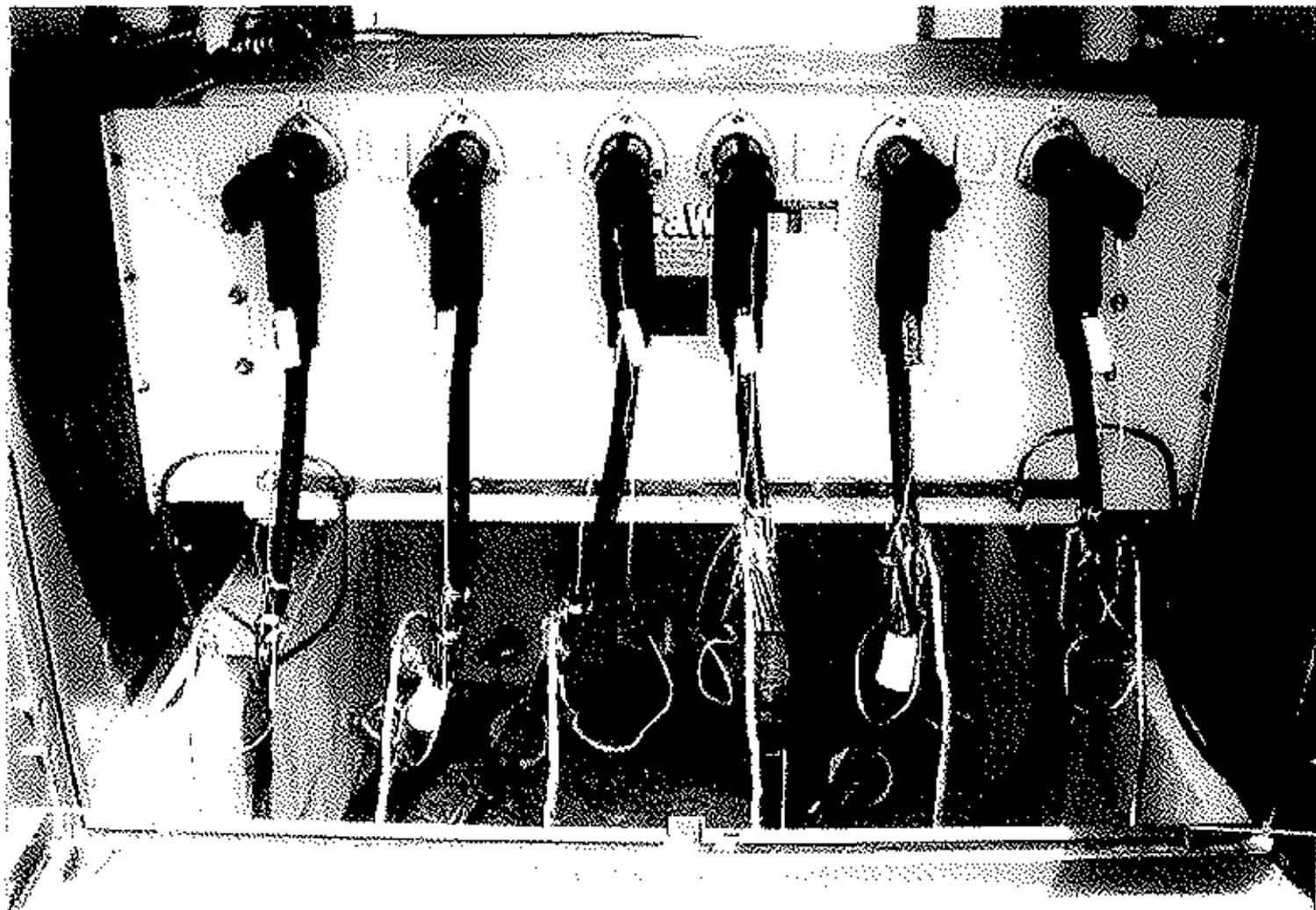


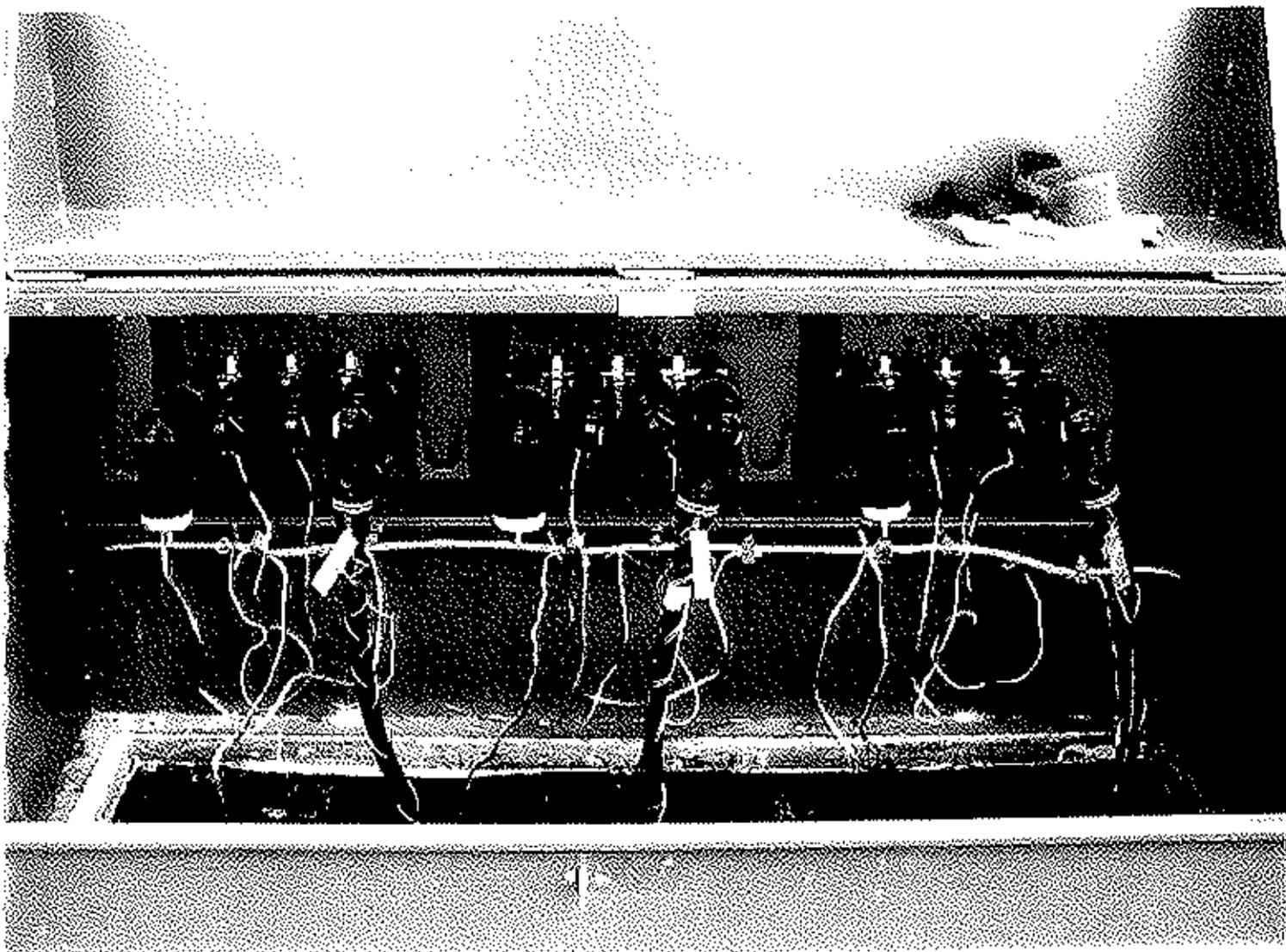
PART #	PALM RATCHET	PACKAGING	SHIP WEIGHT (lbs)
1-400936	Palm Ratchet with 5/16" and 7/16" Sockets. Used with Shur-Lock II and Split-Lock couplers.	EACH	1

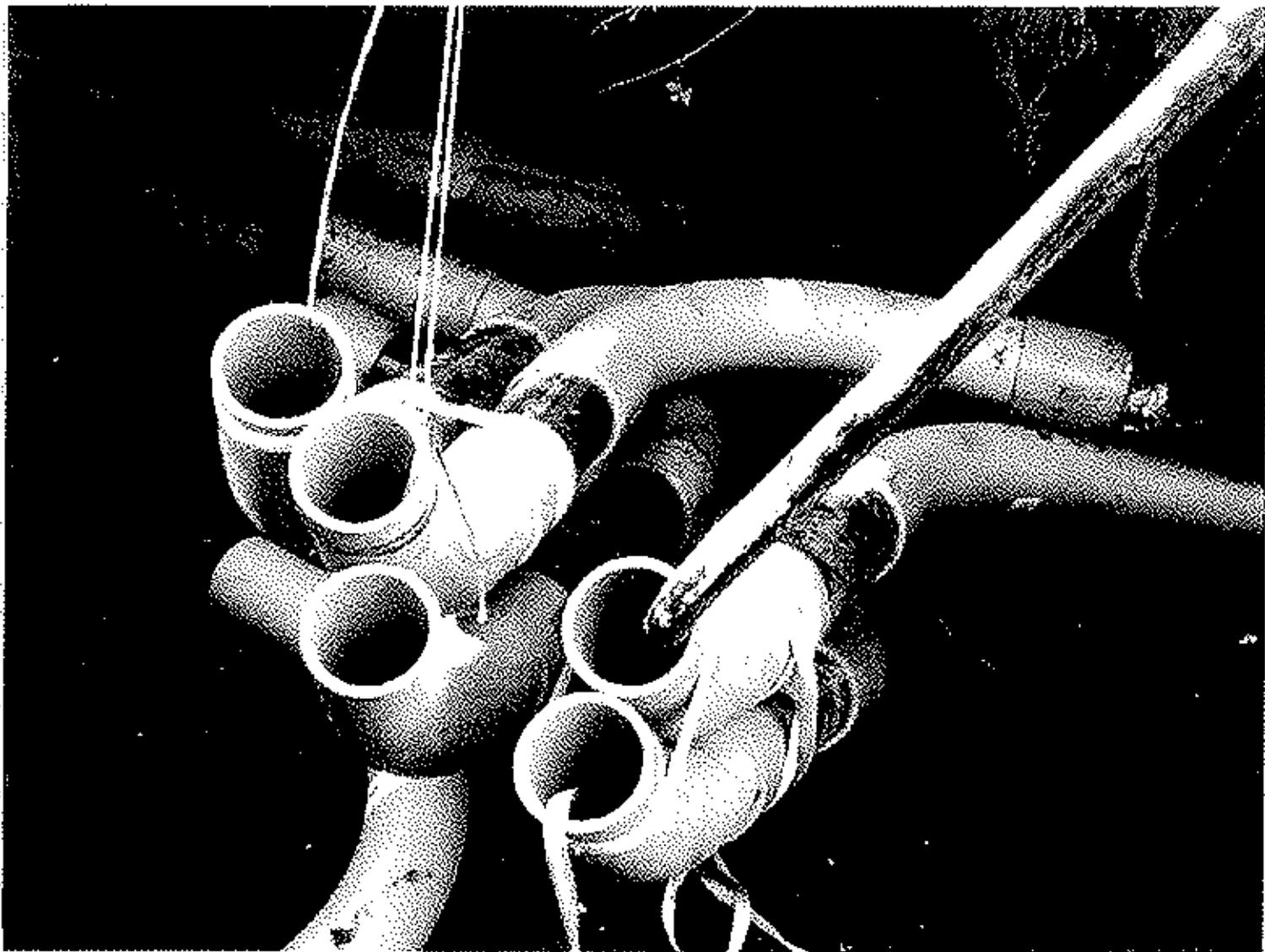
Ⓢ Please specify if ETI listing is required.

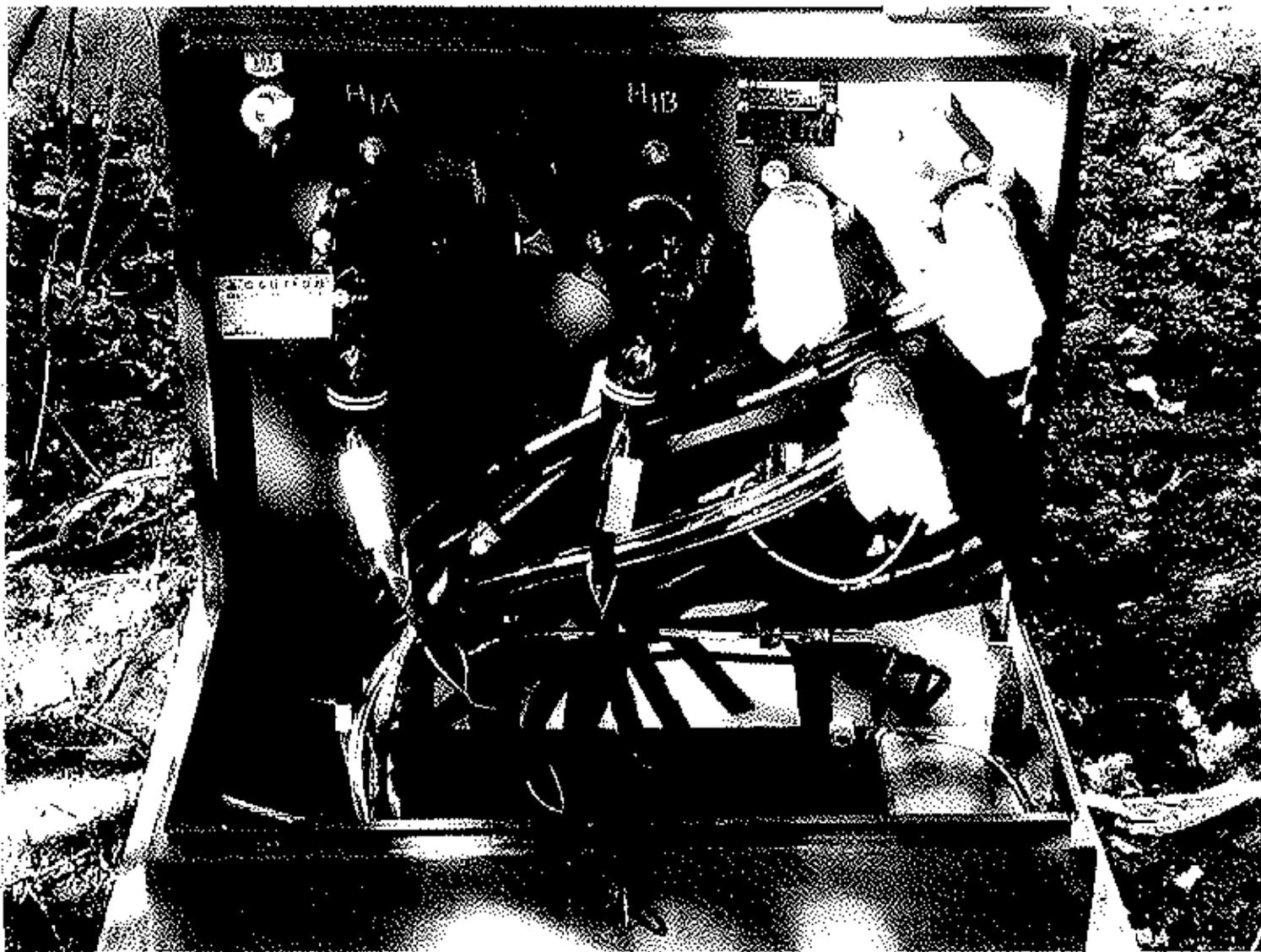
dura·line

Customer Service • 800-847-7661









NOTIFICATION TO RESIDENTS

FY 2013-14 UNDERGROUND CABLE REPLACEMENT

Starting the week of June 13, 2013, XXXXXXXX., under contract with the City of Geneva Electric Utility, will be replacing underground cable in your area. They will be directional boring new conduit through the easements and then pulling wire through the new conduit. They will also be replacing old transformers and old pedestals. There will be instances where power interruptions will be necessary. For scheduled power interruptions anticipated to exceed 30 minutes in length, outage notices will be distributed 48 hours in advance. For scheduled power interruptions anticipated to be 30 minutes or less, the contractor will knock on the doors of the affected homes prior to turning the power off. The contractor will keep the number of and the duration of power interruptions to a minimum. All outages affecting commercial properties will be scheduled 48 hours in advance.

Once the contractor has completed all work, landscaping will commence. The contractor will be responsible for restoration of the affected areas in your yard with the exception of the areas surrounding the existing equipment as noted here. Please note that obstructions within ten feet of a transformer or pedestal will be permanently removed, with the exception of established viable trees. In addition, any plantings within five feet of street lights need to be relocated as well. If you wish to relocate existing landscaping or fixtures from within the safety zone, please do so prior to the contractor's arrival. If you have questions or concerns about landscaping, please contact the City of Geneva.

If you have questions concerning the underground cable replacement program or landscaping relocation, please call the Geneva Electric Utility at (630) 232-1503. Jennifer Hilkemann, Manager of Distribution Construction & Maintenance will be available to answer your questions.

Thank you in advance for your cooperation. The expected completion date of this project is November 20, 2013. Follow up on landscaping will be done the following spring as weather permits.



NOTICE OF CONSTRUCTION

In order for the City of Geneva to maintain and/or repair its electrical distribution system, it is necessary to temporarily enter your property. There may be instances where cables have to be dug and exposed either by hand or with a machine. The City of Geneva's contractor will be doing this work in the next five days.

If we have another emergency or a weather delay, we will reschedule the work as soon as possible. Any disruption to existing landscaping outside the safety zone of the electric equipment will be repaired at the end of the project. We regret any inconvenience this may cause.

Should you have any questions, please call Jennifer Hilkemann, Manager of Distribution Construction & Maintenance, at the City of Geneva at 630-232-1503.

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[®]

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™ 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 moved. Also available is our FibreNet™ - 100% biodegradable netting - for use in critical environmentally sensitive areas.



Premier Straw blankets are degradable erosion control blankets consisting of the finest straw fibers available. Depending on job site requirements, a variety of QuickMow, 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.

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

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

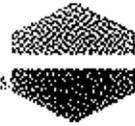
American
Excelsior
Company[®]

Earth Science Division

Arlington, Texas (800) 777-SOIL • www.eurlex.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 ²	0.50 lb/yd ²
Roll Dimensions:	2.4 m x 34.3 m (83.6 m ²)	8.0 ft x 112.5 ft (100 yd ²)
	4.9 m x 34.3 m (167.2 m ²)	16.0 ft x 112.5 ft (200 yd ²)

*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.



PDF download specifications available in the Technical Support Library at www.curdex.com

If you would like to receive more information or consult with one of our Customer Care Center Specialists, please call us toll free at (888-352-0582)

1/0 AL PRIMARY EPR

B phase	w/slack	A phase	w/slack	C phase	w/slack
140	180	445	485	370	410
90	130	540	580	460	500
300	340	390	430	350	390
390	430	630	670	360	400
460	500	240	280	90	130
180	220	55	95	65	105
540	580			450	490
		2540 reel 3=2540			
	2380 reel 1=2400				2425 reel 4=2500
460	500				
150	190				
540	580			505	545
430	470			240	280
480	520			55	95
55	95				
	2355 reel 2=2400				920 1000 to cable repl. 1500 to stock reel 5=2500

350 AL TRIPLEX

	w/slack		w/slack		
210	230	15	30	30	45
210	230	10	25	120	135
240	260	20	35	15	30
240	260	160	175	130	145
	980 reel 1	220	235	135	150
		50	65	130	125
		190	210	110	125
		15	35	10	25
115	135	140	155	15	35
200	220	15	35		
230	250		1000 reel 4		815 reel 6
170	190				
190	210				
	1005 reel 2				
70	90	170	185		
110	130	110	125		
460	480	230	245		
240	260	200	215		
15	35	220	235		
	995 reel 3		1005 reel 5		

#6 CU DUPLEX
w/slack

10	30	250	270
115	135	135	155
190	210	135	155
250	270	250	270
150	170	270	290
250	270	255	275
140	160		
170	190		
120	140		1415 cable replacement
270	290	Reel 2 = 2500	
270	290	balance of reel to stock	
135	155		
150	170		

2480 Reel 1

STAKING SHEETS

CITY OF GLENVIEW ELECTRIC UTILITY
 PROJECT SUNSET MEADOWS
 SHEET 7 OF 12

CONSTRUCTION _____
 W.O. NO. _____ STAKEID _____
 STAKED BY _____ DATE _____

LOCATION MAP NO.	CABLE RUN (ft.)	SEC. Size	REQ	UNB-SHIELD	UNB-SHIELD 1/4"	UNB-SHIELD 1/2"	UNB-SHIELD 3/4"	UNB-SHIELD 1"	UNB-SHIELD 1 1/2"	UNB-SHIELD 2"	UNB-SHIELD 3"	UNB-SHIELD 4"	UNB-SHIELD 6"	UNB-SHIELD 8"	UNB-SHIELD 12"	UNB-SHIELD 18"	UNB-SHIELD 24"	UNB-SHIELD 36"	UNB-SHIELD 48"	UNB-SHIELD 60"	UNB-SHIELD 72"	UNB-SHIELD 96"	UNB-SHIELD 120"	UNB-SHIELD 144"	UNB-SHIELD 180"	UNB-SHIELD 216"	UNB-SHIELD 288"	UNB-SHIELD 360"	UNB-SHIELD 432"	UNB-SHIELD 504"	UNB-SHIELD 576"	UNB-SHIELD 648"	UNB-SHIELD 720"	UNB-SHIELD 792"	UNB-SHIELD 864"	UNB-SHIELD 936"	UNB-SHIELD 1008"	UNB-SHIELD 1080"	UNB-SHIELD 1152"	UNB-SHIELD 1224"	UNB-SHIELD 1296"	UNB-SHIELD 1368"	UNB-SHIELD 1440"	UNB-SHIELD 1512"	UNB-SHIELD 1584"	UNB-SHIELD 1656"	UNB-SHIELD 1728"	UNB-SHIELD 1800"	UNB-SHIELD 1872"	UNB-SHIELD 1944"	UNB-SHIELD 2016"	UNB-SHIELD 2088"	UNB-SHIELD 2160"	UNB-SHIELD 2232"	UNB-SHIELD 2304"	UNB-SHIELD 2376"	UNB-SHIELD 2448"	UNB-SHIELD 2520"	UNB-SHIELD 2592"	UNB-SHIELD 2664"	UNB-SHIELD 2736"	UNB-SHIELD 2808"	UNB-SHIELD 2880"	UNB-SHIELD 2952"	UNB-SHIELD 3024"	UNB-SHIELD 3096"	UNB-SHIELD 3168"	UNB-SHIELD 3240"	UNB-SHIELD 3312"	UNB-SHIELD 3384"	UNB-SHIELD 3456"	UNB-SHIELD 3528"	UNB-SHIELD 3600"	UNB-SHIELD 3672"	UNB-SHIELD 3744"	UNB-SHIELD 3816"	UNB-SHIELD 3888"	UNB-SHIELD 3960"	UNB-SHIELD 4032"	UNB-SHIELD 4104"	UNB-SHIELD 4176"	UNB-SHIELD 4248"	UNB-SHIELD 4320"	UNB-SHIELD 4392"	UNB-SHIELD 4464"	UNB-SHIELD 4536"	UNB-SHIELD 4608"	UNB-SHIELD 4680"	UNB-SHIELD 4752"	UNB-SHIELD 4824"	UNB-SHIELD 4896"	UNB-SHIELD 4968"	UNB-SHIELD 5040"	UNB-SHIELD 5112"	UNB-SHIELD 5184"	UNB-SHIELD 5256"	UNB-SHIELD 5328"	UNB-SHIELD 5400"	UNB-SHIELD 5472"	UNB-SHIELD 5544"	UNB-SHIELD 5616"	UNB-SHIELD 5688"	UNB-SHIELD 5760"	UNB-SHIELD 5832"	UNB-SHIELD 5904"	UNB-SHIELD 5976"	UNB-SHIELD 6048"	UNB-SHIELD 6120"	UNB-SHIELD 6192"	UNB-SHIELD 6264"	UNB-SHIELD 6336"	UNB-SHIELD 6408"	UNB-SHIELD 6480"	UNB-SHIELD 6552"	UNB-SHIELD 6624"	UNB-SHIELD 6696"	UNB-SHIELD 6768"	UNB-SHIELD 6840"	UNB-SHIELD 6912"	UNB-SHIELD 6984"	UNB-SHIELD 7056"	UNB-SHIELD 7128"	UNB-SHIELD 7200"	UNB-SHIELD 7272"	UNB-SHIELD 7344"	UNB-SHIELD 7416"	UNB-SHIELD 7488"	UNB-SHIELD 7560"	UNB-SHIELD 7632"	UNB-SHIELD 7704"	UNB-SHIELD 7776"	UNB-SHIELD 7848"	UNB-SHIELD 7920"	UNB-SHIELD 7992"	UNB-SHIELD 8064"	UNB-SHIELD 8136"	UNB-SHIELD 8208"	UNB-SHIELD 8280"	UNB-SHIELD 8352"	UNB-SHIELD 8424"	UNB-SHIELD 8496"	UNB-SHIELD 8568"	UNB-SHIELD 8640"	UNB-SHIELD 8712"	UNB-SHIELD 8784"	UNB-SHIELD 8856"	UNB-SHIELD 8928"	UNB-SHIELD 9000"	UNB-SHIELD 9072"	UNB-SHIELD 9144"	UNB-SHIELD 9216"	UNB-SHIELD 9288"	UNB-SHIELD 9360"	UNB-SHIELD 9432"	UNB-SHIELD 9504"	UNB-SHIELD 9576"	UNB-SHIELD 9648"	UNB-SHIELD 9720"	UNB-SHIELD 9792"	UNB-SHIELD 9864"	UNB-SHIELD 9936"	UNB-SHIELD 10008"	UNB-SHIELD 10080"	UNB-SHIELD 10152"	UNB-SHIELD 10224"	UNB-SHIELD 10296"	UNB-SHIELD 10368"	UNB-SHIELD 10440"	UNB-SHIELD 10512"	UNB-SHIELD 10584"	UNB-SHIELD 10656"	UNB-SHIELD 10728"	UNB-SHIELD 10800"	UNB-SHIELD 10872"	UNB-SHIELD 10944"	UNB-SHIELD 11016"	UNB-SHIELD 11088"	UNB-SHIELD 11160"	UNB-SHIELD 11232"	UNB-SHIELD 11304"	UNB-SHIELD 11376"	UNB-SHIELD 11448"	UNB-SHIELD 11520"	UNB-SHIELD 11592"	UNB-SHIELD 11664"	UNB-SHIELD 11736"	UNB-SHIELD 11808"	UNB-SHIELD 11880"	UNB-SHIELD 11952"	UNB-SHIELD 12024"	UNB-SHIELD 12096"	UNB-SHIELD 12168"	UNB-SHIELD 12240"	UNB-SHIELD 12312"	UNB-SHIELD 12384"	UNB-SHIELD 12456"	UNB-SHIELD 12528"	UNB-SHIELD 12600"	UNB-SHIELD 12672"	UNB-SHIELD 12744"	UNB-SHIELD 12816"	UNB-SHIELD 12888"	UNB-SHIELD 12960"	UNB-SHIELD 13032"	UNB-SHIELD 13104"	UNB-SHIELD 13176"	UNB-SHIELD 13248"	UNB-SHIELD 13320"	UNB-SHIELD 13392"	UNB-SHIELD 13464"	UNB-SHIELD 13536"	UNB-SHIELD 13608"	UNB-SHIELD 13680"	UNB-SHIELD 13752"	UNB-SHIELD 13824"	UNB-SHIELD 13896"	UNB-SHIELD 13968"	UNB-SHIELD 14040"	UNB-SHIELD 14112"	UNB-SHIELD 14184"	UNB-SHIELD 14256"	UNB-SHIELD 14328"	UNB-SHIELD 14400"	UNB-SHIELD 14472"	UNB-SHIELD 14544"	UNB-SHIELD 14616"	UNB-SHIELD 14688"	UNB-SHIELD 14760"	UNB-SHIELD 14832"	UNB-SHIELD 14904"	UNB-SHIELD 14976"	UNB-SHIELD 15048"	UNB-SHIELD 15120"	UNB-SHIELD 15192"	UNB-SHIELD 15264"	UNB-SHIELD 15336"	UNB-SHIELD 15408"	UNB-SHIELD 15480"	UNB-SHIELD 15552"	UNB-SHIELD 15624"	UNB-SHIELD 15696"	UNB-SHIELD 15768"	UNB-SHIELD 15840"	UNB-SHIELD 15912"	UNB-SHIELD 15984"	UNB-SHIELD 16056"	UNB-SHIELD 16128"	UNB-SHIELD 16200"	UNB-SHIELD 16272"	UNB-SHIELD 16344"	UNB-SHIELD 16416"	UNB-SHIELD 16488"	UNB-SHIELD 16560"	UNB-SHIELD 16632"	UNB-SHIELD 16704"	UNB-SHIELD 16776"	UNB-SHIELD 16848"	UNB-SHIELD 16920"	UNB-SHIELD 16992"	UNB-SHIELD 17064"	UNB-SHIELD 17136"	UNB-SHIELD 17208"	UNB-SHIELD 17280"	UNB-SHIELD 17352"	UNB-SHIELD 17424"	UNB-SHIELD 17496"	UNB-SHIELD 17568"	UNB-SHIELD 17640"	UNB-SHIELD 17712"	UNB-SHIELD 17784"	UNB-SHIELD 17856"	UNB-SHIELD 17928"	UNB-SHIELD 18000"	UNB-SHIELD 18072"	UNB-SHIELD 18144"	UNB-SHIELD 18216"	UNB-SHIELD 18288"	UNB-SHIELD 18360"	UNB-SHIELD 18432"	UNB-SHIELD 18504"	UNB-SHIELD 18576"	UNB-SHIELD 18648"	UNB-SHIELD 18720"	UNB-SHIELD 18792"	UNB-SHIELD 18864"	UNB-SHIELD 18936"	UNB-SHIELD 19008"	UNB-SHIELD 19080"	UNB-SHIELD 19152"	UNB-SHIELD 19224"	UNB-SHIELD 19296"	UNB-SHIELD 19368"	UNB-SHIELD 19440"	UNB-SHIELD 19512"	UNB-SHIELD 19584"	UNB-SHIELD 19656"	UNB-SHIELD 19728"	UNB-SHIELD 19800"	UNB-SHIELD 19872"	UNB-SHIELD 19944"	UNB-SHIELD 20016"	UNB-SHIELD 20088"	UNB-SHIELD 20160"	UNB-SHIELD 20232"	UNB-SHIELD 20304"	UNB-SHIELD 20376"	UNB-SHIELD 20448"	UNB-SHIELD 20520"	UNB-SHIELD 20592"	UNB-SHIELD 20664"	UNB-SHIELD 20736"	UNB-SHIELD 20808"	UNB-SHIELD 20880"	UNB-SHIELD 20952"	UNB-SHIELD 21024"	UNB-SHIELD 21096"	UNB-SHIELD 21168"	UNB-SHIELD 21240"	UNB-SHIELD 21312"	UNB-SHIELD 21384"	UNB-SHIELD 21456"	UNB-SHIELD 21528"	UNB-SHIELD 21600"	UNB-SHIELD 21672"	UNB-SHIELD 21744"	UNB-SHIELD 21816"	UNB-SHIELD 21888"	UNB-SHIELD 21960"	UNB-SHIELD 22032"	UNB-SHIELD 22104"	UNB-SHIELD 22176"	UNB-SHIELD 22248"	UNB-SHIELD 22320"	UNB-SHIELD 22392"	UNB-SHIELD 22464"	UNB-SHIELD 22536"	UNB-SHIELD 22608"	UNB-SHIELD 22680"	UNB-SHIELD 22752"	UNB-SHIELD 22824"	UNB-SHIELD 22896"	UNB-SHIELD 22968"	UNB-SHIELD 23040"	UNB-SHIELD 23112"	UNB-SHIELD 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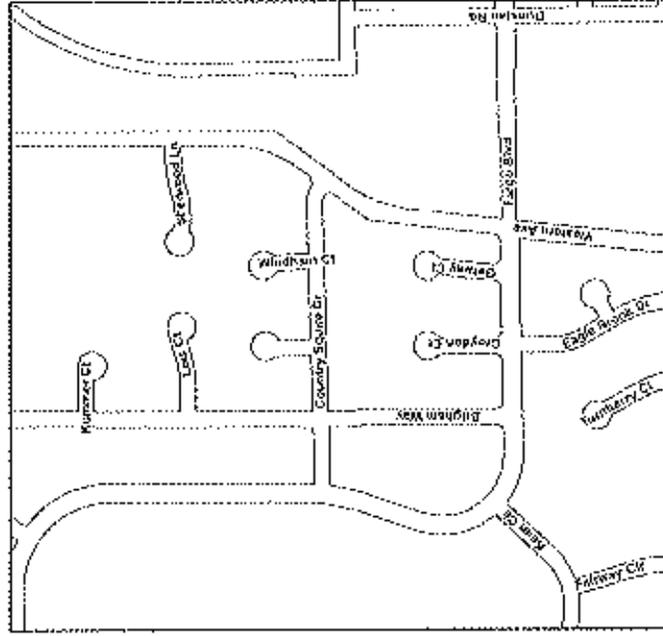
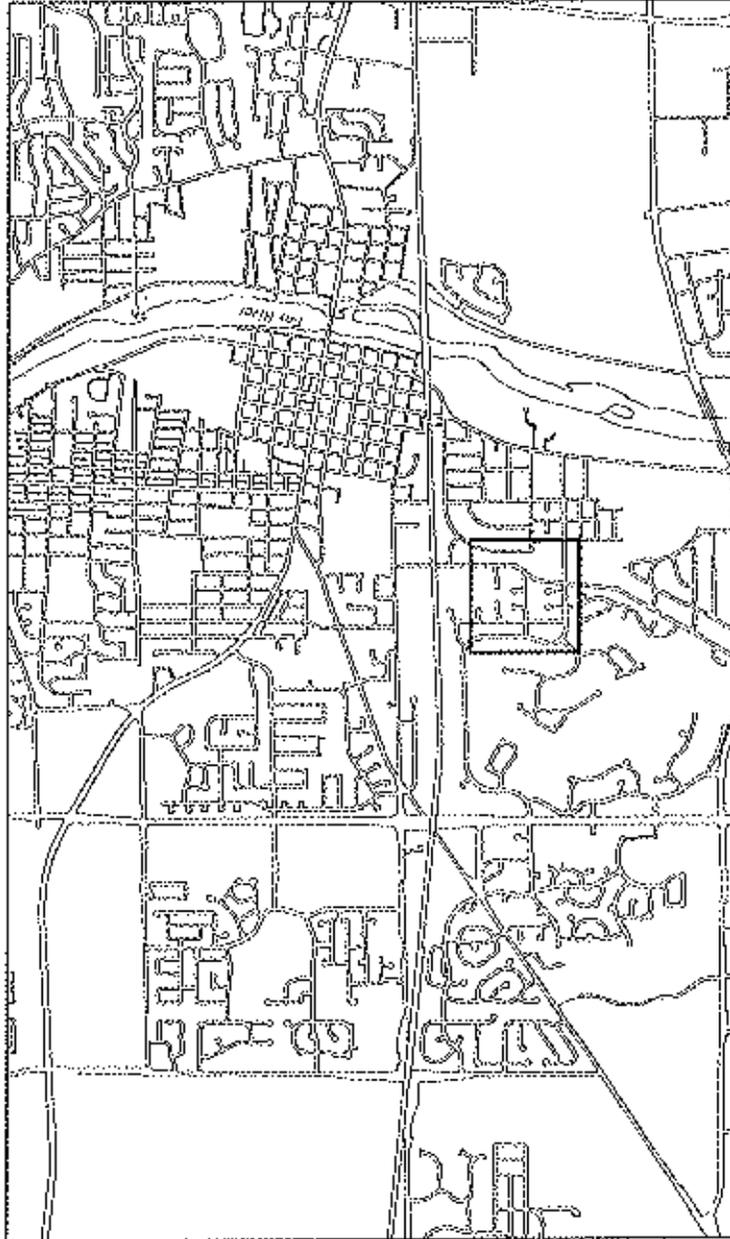
CITY OF GENEVA ELECTRIC UTILITY
 PROJECT: SUNSET MEADOWS
 SHEET 12 OF 12

LOCATION MAP NO	CABLE SEC. SIZE RUN (#)	UR2	UR3	UR R	UM6-1 1/2" AL	1/2" AL SPLICE	ELBOW ARRESTOR	PARKING STAND ARRESTOR	200A DEAD END CAP	UM50-S-1" (Feet)	UM51-S-3" SR	UM51-S-3" LR	UM52-S-3" SR	UM51-P-3"	UM51-P-1 1/4"	UM52-P-1 1/4"	1 PH TRANSFORMER	1 PH TRANSFORMER PAD	Pulling Vault 3 x 6'	UM48 One Ground Rod Assembly	UM48 Two Ground Rod Assembly	PHDESTAL	MODCAN & PAD	STREET LIGHT	UM50-P-4"	UM51-S-4"	NOTES	
A 190-23	270	#8 CU																										
R 35																												
A 36																												
A 5A-5	135	#6 CU																										
R 6																												
A 8A-28	250	#8 CU																										
R 28																												
R 28																												
A 16A-23	135	#6 CU																										
R 22																												
A 27																												
A 10C-26	135	#6 CU																										
R 26																												
A 26																												
A 11B-22	250	#4 CU																										
R 25																												
A 25																												
A 16B-24	150	#6 CU																										
R 24																												
A 24																												
A 13B-23	270	#4 CU																										
R 23																												
A 23																												
A 12B-21	255	#6 CU																										
R 21																												
A 21																												
A 20A-20	1850	#6 CU	0	0	1850	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R																												

() CONSTRUCTION () FINAL
 W/O NO. _____ STAKED
 STAKED BY _____ DATE _____

MAPS

CITY OF GENEVA
SUNSET MEADOW & WOODS OF GENEVA
ELECTRIC UTILITY IMPROVEMENTS
 COUNTY OF KANE, STATE OF ILLINOIS

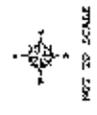


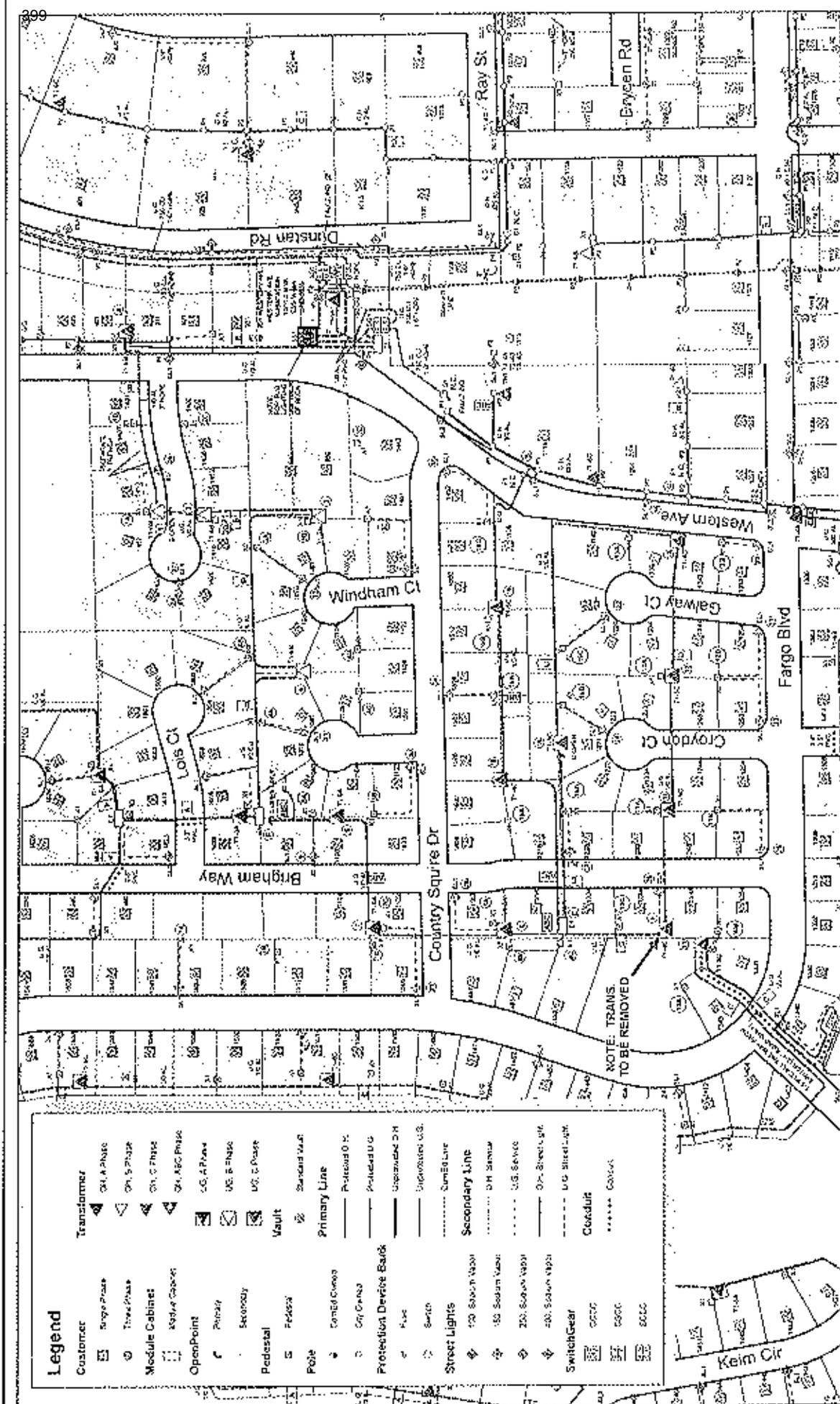
PREPARED BY:
 CITY OF GENEVA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 1800 SOUTH STREET GENEVA, IL 60134
 630-232-1501

Original base map provided via (intergovernmental) agreement with Kane County
 GIS Technology
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Project Point of Contact:
 Jennifer Hilkemann
 Manager of Construction
 Construction & Maintenance
 630-232-1501 ext. 3203

- Contents:
2. Existing Electric Configuration
 3. Proposed Electric Configuration
 4. Utility & Drainage Basements
 5. Water Utility
 6. Sanitary Utility
 7. Storm Utility





Legend

- | | |
|------------------------|-------------------------|
| Customer | Transformer |
| Single Phase | 24.4 Phase |
| Three Phase | 24.5 Phase |
| Module Cabinet | 24.6 Phase |
| Keyle Cabinet | 24.7 Phase |
| OpenPoint | 24.8 Phase |
| Pole | 24.9 Phase |
| Secondary | 24.10 Phase |
| Pedestal | Vault |
| Feeder | Standard Vault |
| Pole | Primary Line |
| Control Cabinet | Pole/Box O.H. |
| On/Off | Pole/Box U.G. |
| Protection Device Bank | Upgrade O.H. |
| Pole | Upgrade U.S. |
| Switch | Standard U.S. |
| Street Lights | Secondary Line |
| 120 Subst. Vault | Secondary Line |
| 150 Subst. Vault | O.H. Street |
| 200 Subst. Vault | U.S. Service |
| 400 Subst. Vault | On Street Light |
| SwitchGear | U.G. Street Light |
| 5000 | Conduit |
| 5000 | Conduit |
| 5000 | |

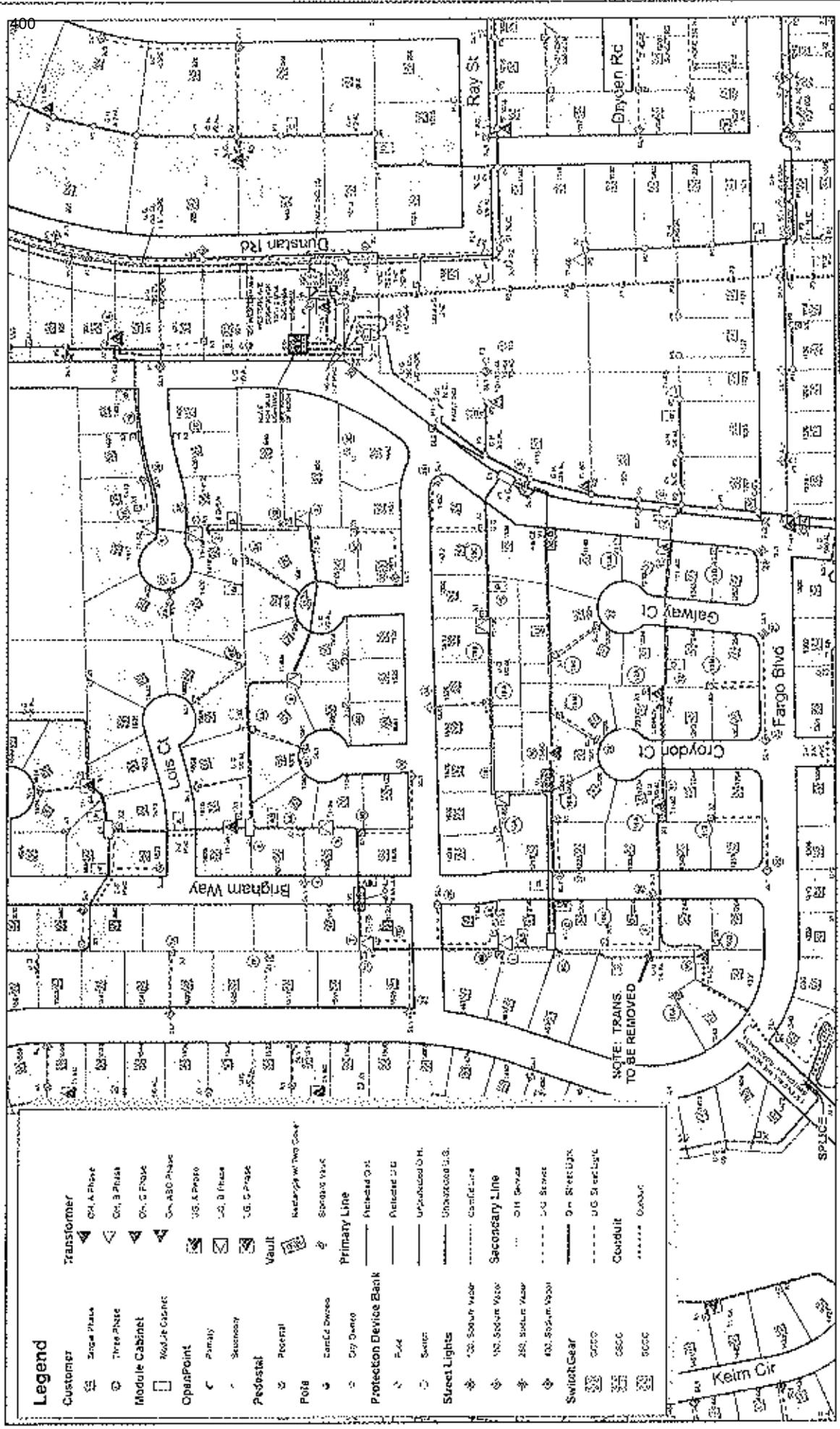
NOTE: TRANS. TO BE REMOVED

EXISTING ELECTRIC CONFIGURATION

EXISTING SHOWS THE PREVIOUS CONFIGURATION AND IS SUBJECT TO CHANGE. THIS IS THE PREVIOUS CONFIGURATION AND IS SUBJECT TO CHANGE. THIS IS THE PREVIOUS CONFIGURATION AND IS SUBJECT TO CHANGE.

A FIVE FOOT UTILITY AND DRAINAGE EASEMENT IS RESERVED ALONG ALL SIDE LOT LINES, EXCEPT WHEN SHOWN OTHERWISE

1 inch = 200 feet



Legend

- | | |
|-------------------------------|--------------------|
| Customer | Transformer |
| Single Phase | On A Phase |
| Three Phase | On B Phase |
| Module Cabinet | On C Phase |
| Module Cabinet | On ABC Phase |
| OperatePoint | UG A Phase |
| Primary | UG B Phase |
| Secondary | UG C Phase |
| Pedestal | Vault |
| Potential | Vault |
| POB | Vault |
| Can/Ed Device | Vault |
| City Owned | Vault |
| Protection Device Bank | Vault |
| Flask | Vault |
| Switch | Vault |
| Street Lights | Vault |
| 100 Solum Vole | Vault |
| 150 Solum Vole | Vault |
| 250 Solum Vole | Vault |
| 400 Solum Vole | Vault |
| Switchgear | Vault |
| 6000 | Vault |
| 6500 | Vault |
| 6000 | Vault |
| Conduit | Vault |
| UG Street Light | Vault |
| UG Street Light | Vault |
| UG Street Light | Vault |

NOTE: TRANS. TO BE REMOVED

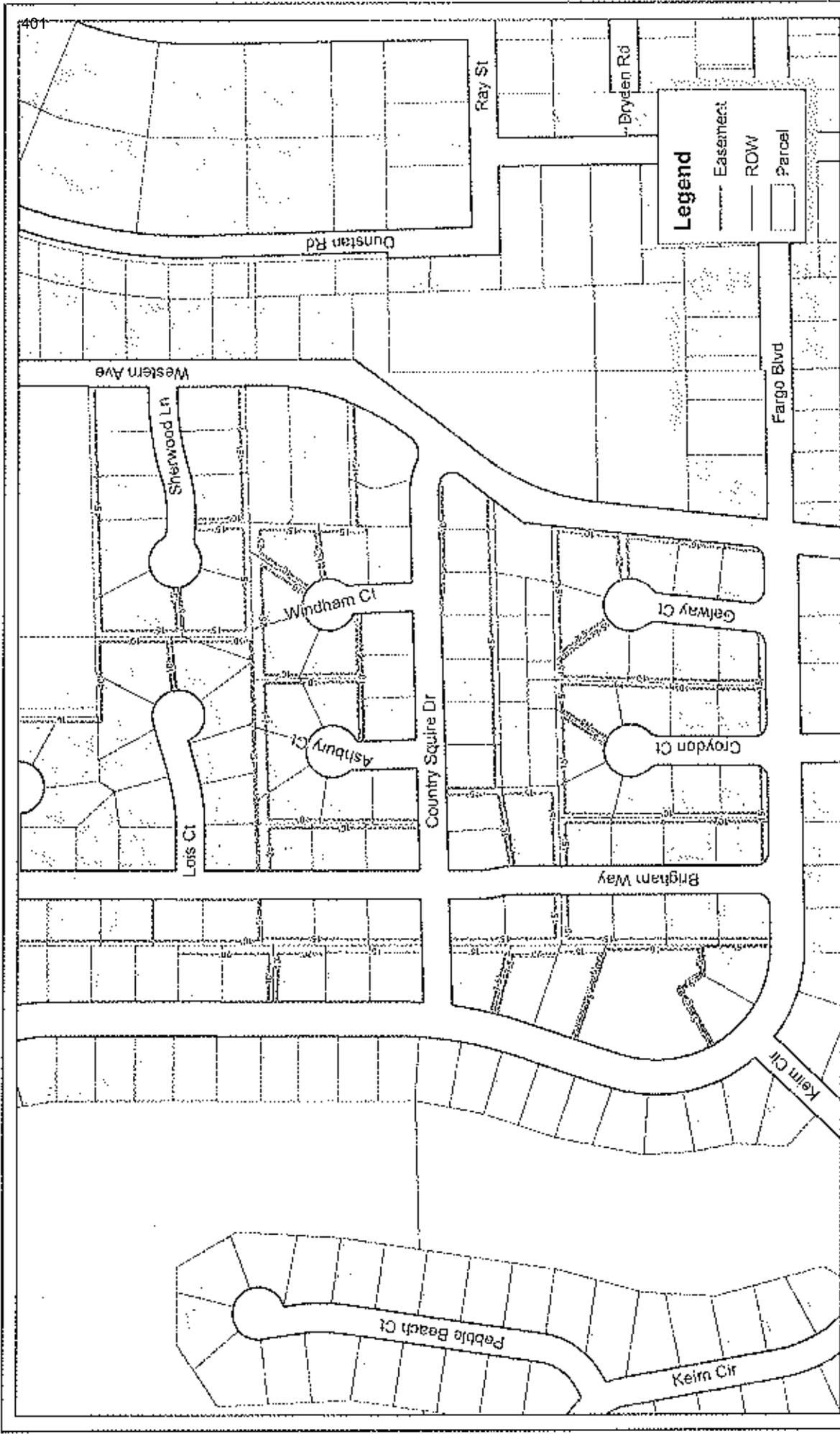
A FIVE FOOT UTILITY AND DRAINAGE EASEMENT IS RESERVED ALONG ALL SIDE LOT LINES, EXCEPT WHEN SHOWN OTHERWISE

PROPOSED ELECTRIC CONFIGURATION

It is the responsibility of the user to verify the accuracy of the information shown on this map. The user is advised that the information shown on this map is for informational purposes only and does not constitute a contract. The user is advised that the information shown on this map is subject to change without notice. The user is advised that the information shown on this map is not to be used for any other purpose.



1 inch = 200 feet



Legend

- Easement
- ROW
- ▭ Parcel

A FIVE FOOT UTILITY AND DRAINAGE EASEMENT IS RESERVED ALONG ALL SIDE LOT LINES, EXCEPT WHEN SHOWN OTHERWISE.

UTILITY AND DRAINAGE EASEMENTS

For additional information, please contact the City of Grantsville, Utah, at 435-636-2222. The City of Grantsville is not responsible for the use of the utility information shown on this map. The City of Grantsville is not responsible for the use of the utility information shown on this map. The City of Grantsville is not responsible for the use of the utility information shown on this map.

1 inch = 200 feet

N



Legend

- Gate Valve
- ◇ Hydrant with Valve
- ◇ Hydrant without Valve
- B-Box
- Water Main
- Abandoned Main
- Service Line
- - - ROW
- Parcel

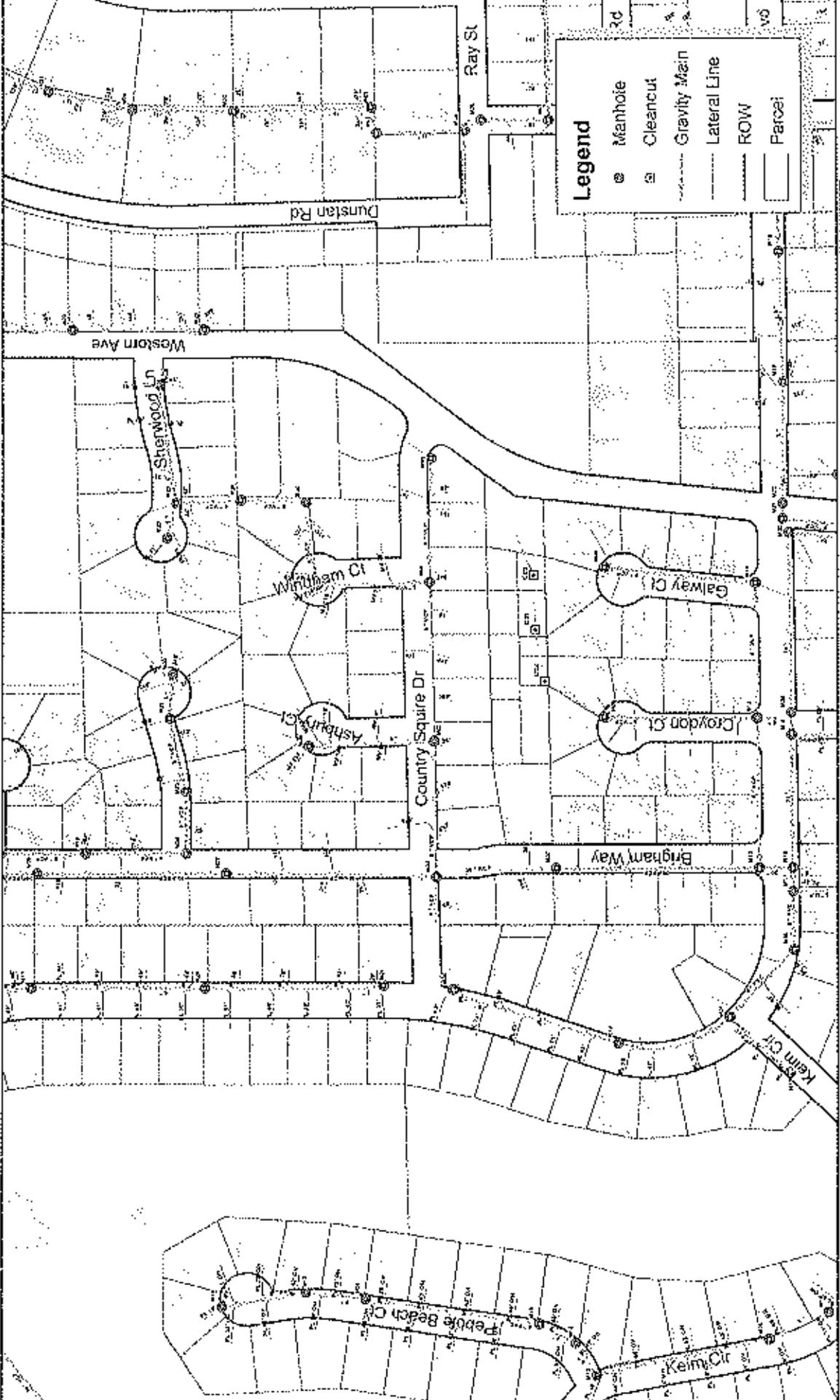
A FIVE FOOT UTILITY AND DRAINAGE EASEMENT IS RESERVED ALONG ALL SIDE LOT LINES, EXCEPT WHEN SHOWN OTHERWISE.

WATER UTILITY

PROVIDED SUBJECT TO THE TERMS AND CONDITIONS OF THE WATER UTILITY AGREEMENT AND THE WATER UTILITY AGREEMENT. THE WATER UTILITY AGREEMENT IS A LEGAL INSTRUMENT WHICH HAS BEEN FILED WITH THE COUNTY CLERK OF BOZEMAN, MONTANA. THE WATER UTILITY AGREEMENT IS A LEGAL INSTRUMENT WHICH HAS BEEN FILED WITH THE COUNTY CLERK OF BOZEMAN, MONTANA.

1 inch = 200 feet





Legend

- Manhole
- Cleanout
- - - Gravity Main
- Lateral Line
- ROW
- ▭ Parcel

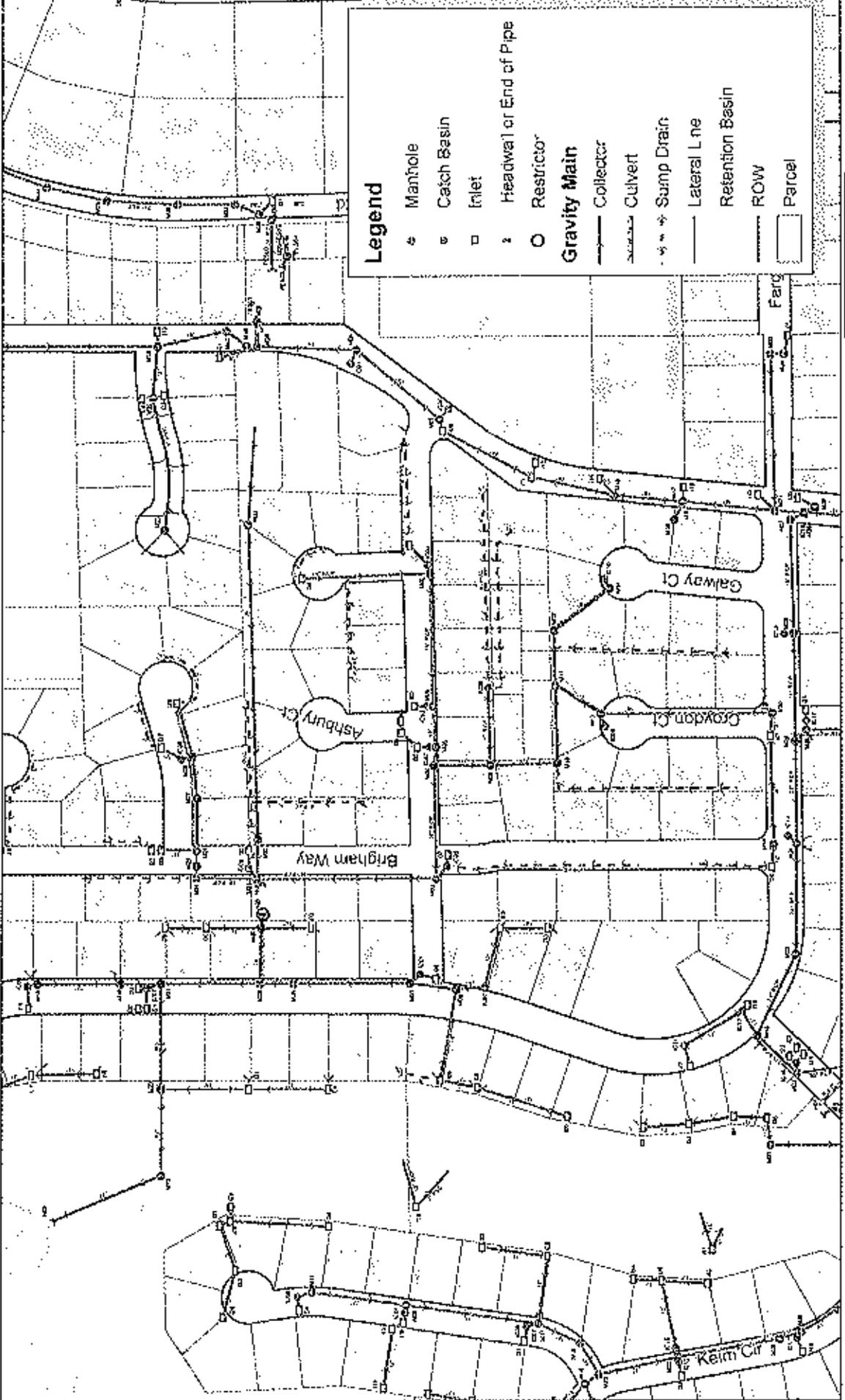
A FIVE FOOT UTILITY AND DRAINAGE EASEMENT IS RESERVED ALONG ALL SIDE LOT LINES, EXCEPT WHEN SHOWN OTHERWISE.

SANITARY UTILITY

Information shown on this map is preliminary in nature and is not intended to be a representation of the state of Utah or any other state or territory. The user is advised to verify the accuracy of the information shown on this map with the appropriate authorities. The user is advised to verify the accuracy of the information shown on this map with the appropriate authorities. The user is advised to verify the accuracy of the information shown on this map with the appropriate authorities.

1 inch = 200 feet

N



Legend

- ⊕ Manhole
- ⊙ Catch Basin
- Inlet
- △ Headwall or End of Pipe
- Restrictor
- Gravity Main**
- Collector
- Culvert
- Sump Drain
- Lateral Line
- Retention Basin
- ROW
- ▭ Parcel

A FIVE FOOT UTILITY AND DRAINAGE EASEMENT IS RESERVED ALONG ALL SIDE LOT LINES, EXCEPT WHEN SHOWN OTHERWISE.

STORM UTILITY

THIS PLAN IS A PRELIMINARY DESIGN AND IS SUBJECT TO CHANGE WITHOUT NOTICE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON.



1 inch = 200 feet

405

Equipment List

Class ID	Class Name	Equip ID	Equipment Name
2	TRUCKS	200595	1995 GMC TELELECT TELECON II
2	TRUCKS	200747	2008 FORD F450 FLATBED
2	TRUCKS	200764	2004 FREIGHTLINER DUMP TRUCK
2	TRUCKS	200765	2003 INT TRUCK
2	TRUCKS	200766	2003 INT FLATBED
2	TRUCKS	200768	2005 FORD SHORT F750 DUMP
2	TRUCKS	200787	2001 GMC TELELECT
2	TRUCKS	200812	2011 CHEVY DUMP TRUCK
2	TRUCKS	200816	1999 FREIGHTLINER DUMP TRUCK
2	TRUCKS	200826	2006 INT 4300 BOX TRUCK
2	TRUCKS	200829	2000 INT 4900 FLATBED
2	TRUCKS	200842	2007 INT. VAN TRUCK
2	TRUCKS	200843	2002 FORD F450
2	TRUCKS	200847	2008 FREIGHTLINER
2	TRUCKS	200853	2002 INTERNATIONAL BUCKET TRUCK
2	TRUCKS	200858	1999 INT'L W/ HYDRAULIC CRANE
2	TRUCKS	200861	2013 DODGE RAM 4500
2	TRUCKS	200866	2014 FORD F250
2	TRUCKS	260868	2001 INTERNATIONAL BUCKET ST LIGHTER
2	TRUCKS	200869	2006 FORD F550 W/ BUCKET
2	TRUCKS	200870	1998 INTERNATIONAL DIGGER DERRICK
2	TRUCKS	200871	2014 FORD F-450
2	TRUCKS	200872	2014 FORD F-450
2	TRUCKS	200879	2004 FORD F450 FLATBED
2	TRUCKS	200880	2005 FORD F-650 DUMP TRUCK
2	TRUCKS	200881	2008 STERLING BUCKET LIFT TRUCK
2	TRUCKS	200882	2008 STERLING BUCKET LIFT TRUCK
2	TRUCKS	200883	2008 STERLING BUCKET LIFT TRUCK
2	TRUCKS	200886	2005 CHEVY MEDIUM DUTY
2	TRUCKS	200889	2015 FORD F-250 SD
2	TRUCKS	200891	1999 GMC SIERRA
2	TRUCKS	200892	2007 GMC LIFT ALL
2	TRUCKS	200893	2007 GMC LIFT ALL
2	TRUCKS	200899	2009 GMC UTILITY TRUCK
2	TRUCKS	200900	2005 GMC UTILITY TRUCK
2	TRUCKS	200910	2015 DODGE RAM
2	TRUCKS	200914	2003 FORD F550
2	TRUCKS	200922	2007 STERLING W/ TEREX COMMANDER
2	TRUCKS	200923	2007 STERLING ACTERA
2	TRUCKS	200924	2007 INTERNATIONAL BUCKET TRUCK
2	TRUCKS	200929	2016 DODGE RAM 4500
2	TRUCKS	200930	2016 DODGE RAM 4500
2	TRUCKS	200931	2016 DODGE RAM 4500
2	TRUCKS	200937	2000 INTERNATIONAL WINCH TRUCK
2	TRUCKS	200938	2003 INTERNATIONAL BOOM TRUCK
2	TRUCKS	200939	2003 INTERNATIONAL BOOM TRUCK
2	TRUCKS	200941	2017 DODGE RAM
2	TRUCKS	200942	2005 Ford F350
2	TRUCKS	200945	2007 FORD UTILITY TRUCK
2	TRUCKS	200946	2006 INT'L 4300 DIGGER
2	TRUCKS	200947	2004 INT'L 7400 BUCKET
3	LICENSED TRAILERS	300239	Tandem Axle Tag Trlr homemade
3	LICENSED TRAILERS	300553	2000 REDI HAUL TRAILER
3	LICENSED TRAILERS	300569	1996 SAUBER REEL TRAILER
3	LICENSED TRAILERS	300590	1996 SAUBER REEL TRAILER
3	LICENSED TRAILERS	300606	R & W DUMP TRAILER
3	LICENSED TRAILERS	300606	2002 HOMEMADE TRAILER
3	LICENSED TRAILERS	300609	1994 TOWMASTER (CONTRAIL) TRLR
3	LICENSED TRAILERS	300610	1997 DITCH WITCH UTILITY TRLR
3	LICENSED TRAILERS	300619	1993 DELPHI POLE TRLR

406		Equipment List	
Class ID	Class Name	Equip ID	Equipment Name
3	LICENSED TRAILERS	300652	1979 BUTLER TRAILER
3	LICENSED TRAILERS	300682	1999 REDHAUL TRLR
3	LICENSED TRAILERS	300683	1999 REDHAUL TRLR
3	LICENSED TRAILERS	300691	1989 SAUBER 3 REEL TRAILER
3	LICENSED TRAILERS	300692	1987 FRUEHAUF TRAILER
3	LICENSED TRAILERS	300694	1990 FRUEHAUF TRAILER
3	LICENSED TRAILERS	300702	2000 TOWMASTER TAGALONG TRAILER
3	LICENSED TRAILERS	300707	1995 CRONKHITE DROP DECK TRLR
3	LICENSED TRAILERS	300724	2005 PACE AMERICAN
3	LICENSED TRAILERS	300729	1990 SAUBER 1536 TRAILER
3	LICENSED TRAILERS	300735	2005 DITCH WITCH T18B TAG A LONG TRAILER
3	LICENSED TRAILERS	300761	2001 TOWMASTER TRLR
3	LICENSED TRAILERS	300763	2006 TRLR EXPRESS
3	LICENSED TRAILERS	300784	1973 DYNAWELD UTILITY TRAILER
3	LICENSED TRAILERS	300786	2000 ROOSE REEL TRAILER
3	LICENSED TRAILERS	300792	2007 BETTERBUILT TRLR
3	LICENSED TRAILERS	300797	2003 BELSHE T16
3	LICENSED TRAILERS	300801	2011 DOOLITTLE TRAILER
3	LICENSED TRAILERS	300806	2012 BRAVO TRAILER
3	LICENSED TRAILERS	300807	PAGE JOURNEY TRAILER
3	LICENSED TRAILERS	300808	2010 PAGE OUTBACK TRAILER
3	LICENSED TRAILERS	300811	FELLING DROP DECK TRLR
3	LICENSED TRAILERS	300815	2005 BOBCAT TRLR
3	LICENSED TRAILERS	300818	2001 REEL TRAILER
3	LICENSED TRAILERS	300819	2009 JTC REEL TRAILER
3	LICENSED TRAILERS	300825	2012 FELLING FT-24 I DROP DK TRAILER
3	LICENSED TRAILERS	300832	2006 BIG TOW EQUIP. TRAILER
3	LICENSED TRAILERS	300833	2006 BIG TOW 3 TON UTILITY TRAILER
3	LICENSED TRAILERS	300834	2006 BIG TOW 7 TON EQUIPMENT TRAILER
3	LICENSED TRAILERS	300835	2006 BIG TOW B6 UTILITY TRAILER
3	LICENSED TRAILERS	300848	2013 KAUFMAN TRAILER
3	LICENSED TRAILERS	300863	2006 PONDEROSA ENCLOSED TRAILER
3	LICENSED TRAILERS	300864	2006 REDI HAUL TRAILER
3	LICENSED TRAILERS	300873	1989 REY CLIF
3	LICENSED TRAILERS	300875	2006 TOWMASTER TRAILER
3	LICENSED TRAILERS	300897	2002 WELLS CARGO TRAILER
3	LICENSED TRAILERS	300898	2018 LOAD TRAILER
3	LICENSED TRAILERS	300902	2015 DITCH WITCH TRAILER
3	LICENSED TRAILERS	300904	2014 FELLING FT241 TRAILER
3	LICENSED TRAILERS	300911	2004 CORN PRO 14' TRAILER
3	LICENSED TRAILERS	300912	1989 DITCH WITCH REEL TRAILER
3	LICENSED TRAILERS	300915	1996 WELLS CARGO TRAILER
3	LICENSED TRAILERS	300917	2002 BROOKS BROS REEL TRAILER
3	LICENSED TRAILERS	300918	2004 BUTLER POLE TRAILER
3	LICENSED TRAILERS	300919	2005 BROOKS BROS PIPE TRAILER
3	LICENSED TRAILERS	300920	2003 TN TRAILER
3	LICENSED TRAILERS	300925	2009 SDP EQUIPMENT TRAILER
3	LICENSED TRAILERS	300944	2017 FELLING TRAILER
3	LICENSED TRAILERS	300948	1975 DYNAWELD REEL TRAILER
4	SEMI/OFFICE TRLR	500905	KUBOTA SKID STEER
5	OFF ROAD EQUIP.	500116	SINGLE DRUM PULLER
5	OFF ROAD EQUIP.	500119	1988 VERMEER LM35 TRENCHER
5	OFF ROAD EQUIP.	500155	ARROW CEMENT MIXER
5	OFF ROAD EQUIP.	500159	COLEMAN LIGHT PLANT
5	OFF ROAD EQUIP.	500190	EAGER BEAVER ASPHALT ROLL.
5	OFF ROAD EQUIP.	500191	ATLAS COPCO AIR COMPRSOR
5	OFF ROAD EQUIP.	500193	1997 JOHN DEERE 310E
5	OFF ROAD EQUIP.	500194	CLARK LIFT TRUCK
5	OFF ROAD EQUIP.	500195	CLARK FORK LIFT
5	OFF ROAD EQUIP.	500198	ARROWBOARD

Class ID	Class Name	Equip ID	Equipment Name
5	OFF ROAD EQUIP.	500584	2001 CAT 416D BACKHOE LOADER
5	OFF ROAD EQUIP.	500591	HYSTER FORK LIFT
5	OFF ROAD EQUIP.	500592	ARROW PANEL
5	OFF ROAD EQUIP.	500599	MULTIQUIP ROLLER
5	OFF ROAD EQUIP.	500608	JOHN DEERE
5	OFF ROAD EQUIP.	500645	SINGLE DRUM PULPER
5	OFF ROAD EQUIP.	500647	HYCA LOADER WIRE TRAILER
5	OFF ROAD EQUIP.	500703	CLUB CAR
5	OFF ROAD EQUIP.	500705	1988 VERMEER LM-35 W/PLOW
5	OFF ROAD EQUIP.	500727	Exmark Lazer Z XS
5	OFF ROAD EQUIP.	500758	1995 YALEFORKLIFT
5	OFF ROAD EQUIP.	500760	CAT 252B SKIDSTEER
5	OFF ROAD EQUIP.	500772	2007 ARROW BOARD, SOLAR
5	OFF ROAD EQUIP.	500773	2007 ARROW BOARD, SOLAR
5	OFF ROAD EQUIP.	500781	2006 BUSH HOG
5	OFF ROAD EQUIP.	500802	2010 EZ SPOT UR POLE CLAW
5	OFF ROAD EQUIP.	500805	2002 VERMEER TRENCHER
5	OFF ROAD EQUIP.	500820	2005 INGERSOLL-RAND AIR COMPRESSOR
5	OFF ROAD EQUIP.	500821	2004 INGERSOLL-RAND AIR COMPRESSOR
5	OFF ROAD EQUIP.	500845	2005 VERMEER MIXING UNIT
5	OFF ROAD EQUIP.	500846	2006 VERMEER MIXING UNIT
5	OFF ROAD EQUIP.	500850	2004 YANMAR EXCAVATOR
5	OFF ROAD EQUIP.	500857	COMPACTOR, MULTIQUIP
5	OFF ROAD EQUIP.	500859	2004 DITCH WITCH TRENCHER
5	OFF ROAD EQUIP.	500860	2004 VERMEER TRENCHER
5	OFF ROAD EQUIP.	500874	IHI MINI EXCAVATOR
5	OFF ROAD EQUIP.	500877	STOW CEMENT MIXER
5	OFF ROAD EQUIP.	500888	FX25 VACUUM EXCAVATOR
5	OFF ROAD EQUIP.	500894	BOBCAT SKID-STEER
5	OFF ROAD EQUIP.	500895	BOBCAT SKID-STEER
5	OFF ROAD EQUIP.	500901	DITCH WITCH VACUUM EXCAVATOR
5	OFF ROAD EQUIP.	500906	KUBOTA EXCAVATOR
5	OFF ROAD EQUIP.	500907	KUBOTA EXCAVATOR
5	OFF ROAD EQUIP.	500908	KUBOTA EXCAVATOR
5	OFF ROAD EQUIP.	500909	ARROWHEAD HYDRAULIC BREAKER
5	OFF ROAD EQUIP.	500913	KUBOTA TRACK LOADER
5	OFF ROAD EQUIP.	500916	2006 JGL TELESCOPIC FORKLIFT
5	OFF ROAD EQUIP.	500925	2008 EZ HAULER 4100
5	OFF ROAD EQUIP.	500927	KUBOTA EXCAVATOR
5	OFF ROAD EQUIP.	500928	KUBOTA SKIDSTEER
5	OFF ROAD EQUIP.	500933	MUSTANG MINI EXCAVATOR
5	OFF ROAD EQUIP.	500934	MUSTANG MINI EXCAVATOR
5	OFF ROAD EQUIP.	500935	MUSTANG MINI EXCAVATOR
5	OFF ROAD EQUIP.	500936	MUSTANG MINI EXCAVATOR
6	DIRECTIONAL BORE	600876	JT20 DRILL W/ TRAILER
6	DIRECTIONAL BORE	600896	DITCH WITCH JT20
6	DIRECTIONAL BORE	600903	DITCH WITCH JT20 BORING MACHINE
6	DIRECTIONAL BORE	600932	2016 DITCH WITCH JT20
6	DIRECTIONAL BORE	600943	2017 DITCH WITCH JT25

PRE-BID MEETING MINUTES
CITY OF GENEVA -PUBLIC WORKS FACILITY - 1800 SOUTH STREET
 GENEVA, ILLINOIS May 17, 2017 10:00 a.m.
FOR THE 2017-18 UNDEGROUND ELECTRIC CABLE REPLACEMENT PROJECT

Attendees: Phil Whalen, Utility Dynamics
 Josh Nelson, Mohawk Electric
 Matt Teschke, John Burns Construction

Jennifer Hilkeemann City of Geneva

Owner: City of Geneva, Illinois - Electric Utility

1. General Project Information

Utility Contact: Jennifer Hilkeemann

Maximum working hours for this project - (7:00 a.m. - 3:30 p.m preferred).

2. Expected Start of Construction

Questions Due - May 25, 2017 at 9:00 a.m.

Bid Opening - June 1, 2017 at 10:00 a.m. at 22 S. 1st St

Award Date - June 20, 2017

Start Date - July 17, 2017.

Completion Date -October 24, 2017 with landscaping by April 25, 2018.

3. Failure to Complete Work on Time. - see liquidated damages. This timeframe will only be extended if, in the City's opinion, the contractor has demonstrated a diligent effort and has encountered extreme hardships that prevent good progress. Working days are Monday through Friday 7am-3:30 pm. No work is permitted on City celebrated holidays. No Saturday work unless we have a significant amount of weather delays (at City's discretion).

4. Material - City provided material available at the start of contract. Material will be available for pickup from the yard here at Public Works or inside building.

5. Site Show-up/Storage of Materials. Contractor is responsible for providing their own show-up location and storage for materials. The City of Geneva property at 1800 South Street is NOT available for parking of contractor's equipment or personal vehicles. Contractor to store minimum amount of material on site. City will assist contractor with names of possible companies that could provide show-up location. The Geneva Generation will not be available.

6. Project Specifics.

a. Notices_ Contractor expected to communicate with businesses and residents ahead of time (prior to working on property). City to provide notices for the contractor to hang. Contractor is responsible for distributing notices to public 48 hours prior to working. Outage notices are also the contractor's responsibility to distribute 2 working days prior to start of outage. Outages on businesses shall be arranged off-hours and labor for such outage included in unit prices.

b. Safety Follow all OSHA and City of Geneva standards.

c. Crew makeup Each crew shall have the appropriate number of journeyman lineman present when working on or near energized lines. Journeyman lineman present even

when hand-digging. One lineman cannot be responsible for multiple job sites. Contractor to do own switching with City provided switching routine. Two journeyman linemen to be present at each location where energized equipment is being worked on. City may or may not elect to have supervision present when switching. City will provide switching routine and maps that correspond with routing.

d. Water: Water is to be drawn from the hydrant at Public Works. Gallons used shall be reported to front desk prior to leaving DPW. Hydrants may not be used in the subdivision. There is no charge for this water use while working on City of Geneva project.

e. Claims by customers: The contractors shall resolve all matters to the customer's satisfaction, at the contractors' cost to put landscaping back as it was found. Video taping prior to start should help with this issue.

f. Criteria for Award: The City has a \$600,000 budget this year for cable replacement. This includes labor and material. Please include the value of GED supplied materials in the Payment & Performance Bond. Please still provide unit prices for the zero quantity items. It keeps our estimates current and allows us to work off a unit price if we have an adder. Obviously it won't be figured into the total.

i. We locate sewer line mains while contractors are responsible for locating the stubs. Maps have been provided for City Utilities.

j. East side storage facility off of RT 25 is available for boring spoil dumping only. You will need to clean up and dispose of what you dump there at the conclusion of the project. Concrete removal is contractor's responsibility. Contractor shall follow the City's CCDD policy for depositing soil at the East Side Storage Facility. City will test material.

7. Open Discussion

- a. Contractor to provide CA6 for base for pads.
- b. If you have to remove a fence to do the work, put the fence back as you found it.
- c. Details of the street light poles and helix foundations will be provided with the notes (which will count as Addenda #1).
- d. Outage times would be between 8 a.m. -- 3p.m. no weekend outages needed.
- e. Memo for Notification to Residents included. Add pet fence request to memo.
- f. Map sheet should be printed at 11" x 17" for the scale to be 1" = 200'
- g. A unit price will be added for splicing at 1402 Fairway Circle
- h. Pedestal description shall include splicing out the existing services at each existing pedestal into the new pedestal location and coating them with Scotchcoat.

Price for Crews & Equipment

Labor Unit	Price Per Hour (\$)
Foreman	
Lineman	
Groundman	
Directional Boring Machine	
Foreman's Truck	
Wire Pulling Truck	
Crew Price for 40 hour Work Week Total:	

Hipot and Energizing

Labor Unit	Lump Sum Price
Hipot, Phase, and Energize and Tagging	

Landscaping

Labor Unit	Lump Sum Price
Landscaping	

Surveying

Labor Unit	Lump Sum Price
Surveying	

Splice at 1402 Fairway

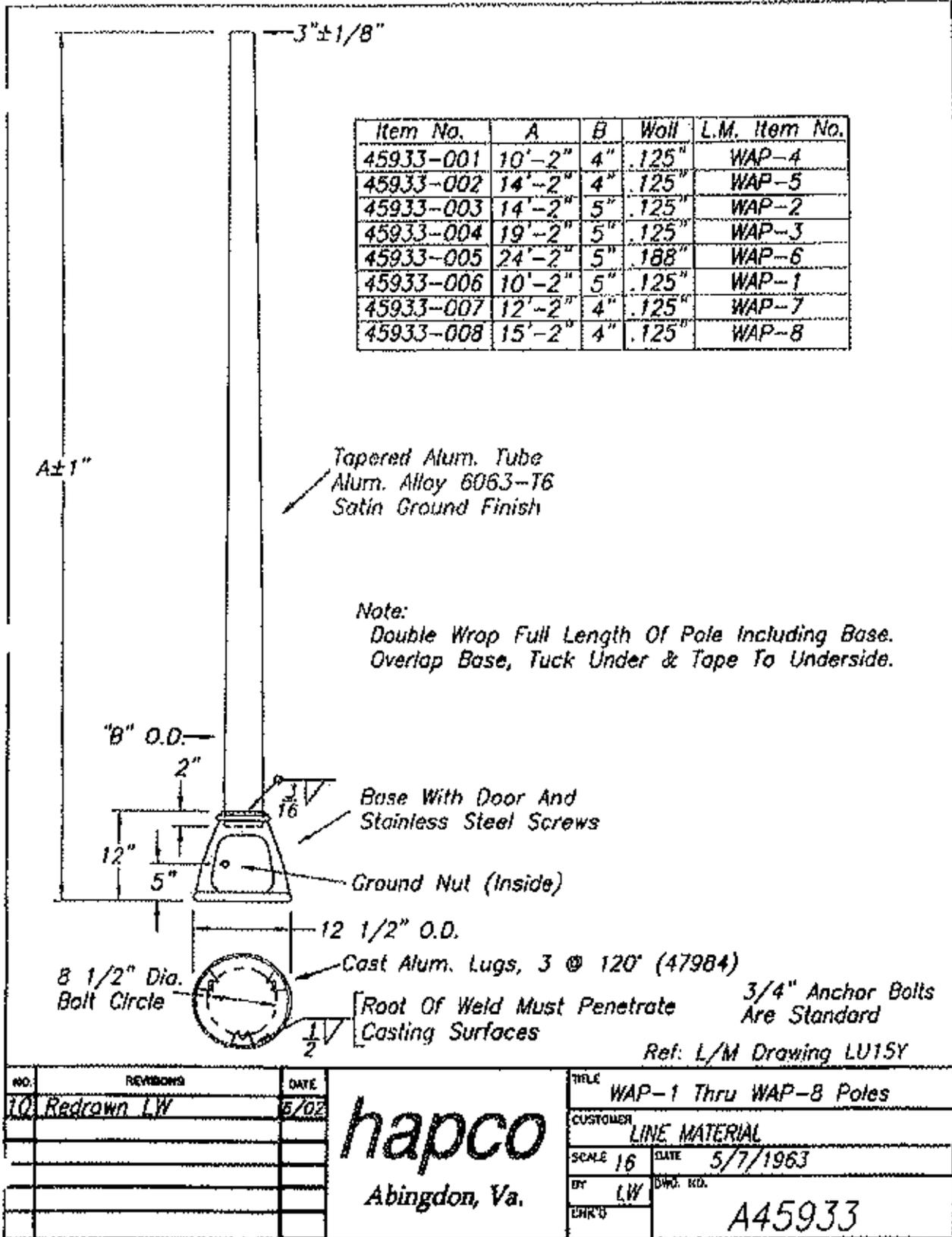
Labor Unit	Lump Sum Price
Splice at 1402 Fairway Circle	

**DISTRIBUTION LINE CONSTRUCTION
PROPOSAL SUMMARY**

Underground -

Section	Total Price
Section UD	
Section UG	
Section LM	
Section UR	
Section I	
Crews & Equipment	
Hipot & Energizing	
Landscaping	
Surveying	
Splice at 1402 Fairway	
TOTAL: =	

PROJECT TOTAL + MATERIAL = \$ _____



Stock #000018

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CHK

6" DIA HOLE

13 DIA ROUND TOP PLATE

NOTCH FOR CABLE SLOT ORIENTATION

CABLE SLOT
2 5/8 X 12
(THRU BOTH WALLS)

6.625 O.D. X 290 WALL

12" NOM

CATALOG NUMBER	LENGTH (FT)
D-1201-0105	5

NOTES

1. FINISH: HOT DIP GALVANIZED, PER ASTM A153
2. INSTALLATION TENSILE RATING 10,000 LBS.
3. HARDBONE KIT CONSISTS OF 3 EA OF THE FOLLOWING: WAGERS AND GEARS TO PIPE END, 3/4" X 4" HARDWARE BOLTS, 3/4" LOCKWASHER, 3/4" HEX NUT

MACLEAN DIXIE, LLC.
A MACLEAN POWER SYSTEMS COMPANY
 1500 RED HOLLOW RD.
 BIRMINGHAM, ALABAMA 35215

FOUNDATION ANCHOR
6" PIPE W/ 18" ROUND TOP PLATE

ALL INFORMATION CONTAINED ON THIS DRAWING IS UNLESS OTHERWISE SPECIFIED, THE PROPERTY OF MACLEAN DIXIE, LLC. AND ITS UNAUTHORIZED USE OR REPRODUCTION WITHOUT THE EXPRESS WRITTEN CONSENT OF MACLEAN DIXIE, LLC. IS STRICTLY PROHIBITED.

DATE: 05/11/08	DRAWN BY: FULL	REV: P3413	A/G
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SAMPLE

NOTIFICATION OF WORK

FY 2017-18 UNDERGROUND CABLE REPLACEMENT

Starting the week of July 17, 2017, XXXXX, under contract with the City of Geneva Electric Utility, will be replacing underground cable in your area. They will be directional boring new conduit through the easements and then pulling wire through the new conduit. Electrical boxes will be replaced as well. There will be instances where power interruptions will be necessary. For scheduled power interruptions, outage notices will be distributed 48 hours in advance. The contractor will keep the number of and the duration of power interruptions to a minimum.

Once the contractor has completed all work, landscaping will commence. The contractor will be responsible for restoration of the affected areas with the exception of the areas surrounding the existing equipment as noted here. Please note that obstructions within ten feet of a switch, junction box, transformer or pedestal will be permanently removed, with the exception of established viable trees. In addition, any plantings within five feet of street lights need to be relocated as well. If you wish to relocate existing landscaping from within the safety zone, please do so prior to the contractor's arrival. If you have questions or concerns about landscaping, please contact the City of Geneva.

If you have any private utilities (sprinkler system, dog fence, etc.), please contact Jennifer Hilkemann at 630-232-1503, extension 3203 so that it can be located and not hit during construction.

If you have questions concerning the underground cable replacement program or landscaping relocation, please call Jennifer Hilkemann, Manager of Distribution Construction & Maintenance at the Geneva Electric Utility at (630) 232-1503.

The expected completion date of this project is November 2017. Follow up on landscaping will be done as weather permits.

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 pull each meter during the outage, ring out the secondary cables from pedestal to house to insure correct labeling and to test voltage and re-install meter after energizing the pedestal. 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 pedestal clear zone (3' on all 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.

Please note there is a substantial portion of landscaping repairs on this project that shall consist of hand work (using hand tools and wheelbarrows) in the rear property easement, including but not limited to: repairing damage caused by construction excavation, machine tracks, ruts, damage caused by plywood used for spoil stockpiles and equipment setup locations. No change orders will be issued for additional costs regarding landscaping repairs.

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 lot corners and rights-of-way necessary for construction marked by a licensed surveyor for the contractor to stay within the subdivision's easements or rights-of-ways. The utility company will provide select maps that are in its possession to assist with easements.

Splice at 1402 Fairway

This is a lump sum price to excavate the two runs of single phase cable along the south side of Fairway Circle and splice the two runs together. This price shall include the excavation, splicing, testing, backfilling and landscaping. This work cannot be completed until transformer 10 is tied into the circuit to the north.

Section UM -- Miscellaneous Underground Assembly Units

Unit No.	No. of Units	Unit Price	Total Price
Single Phase Transformer pad	14		
Pulling vault 4' x 8' x 3'	0		
Pulling vault 3 x 6' x 3'	4		
Splice Box Fiber 30" x 48"	0		
Hand Hole Fiber 9" Round	0		
1/0 AL Elbow Terminations	45		
1/0 AL Splices	4		
4/0 AL Elbows	0		
750 AL Tbodies	0		
750 AL Splices	0		
Parking Stand Arrestor	3		
Elbow Arrestor	11		
1 Ground Rod Assembly	14		
200A Dead End Caps	14		
Two Ground Rod Assembly	3		
Single Phase Modcan & Pad	0		
Three Phase Modcan & Pad	2		

Street Lights	19		
Secondary Riser	0		
Switch vault	0		
Switch Lid	0		
Switchgear	0		
1 1/4" PVC Elbow (with Material cost included)	38		
3" PVC Elbow (with material cost included)	91		
4" PVC Elbow (with material cost included)	0		
5" PVC Elbow (with material cost included)	0		
6" PVC Elbow (with material cost included)	0		
Pedestal	37		
Bollards	0		
UM50-S-3"	0		
UM50-S-4"	0		
UM50-S-5"	0		
UM50-S-6"	0		