

Legistar: 120327
DISTRICT: 1, 2, 4, 5, 6

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda

 X Resolution or Ordinance (Blue) _____ *Waiver of First Requested*
Recommendations of Boards, Commissions & Committees (Green)
Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: David A. Hulseberg, Village Manager

DATE: June 07, 2012 (B of T) Date: June 21, 2012

TITLE: Lift Station Improvements, Phase 1
Change Order No. 2 (Final)

SUBMITTED BY: David A. Dratnol, P.E., Village Engineer *Dratnol*

BACKGROUND/POLICY IMPLICATIONS:

Incorporating field changes/modification for each of the six (6) lift/pump stations included under this contract.

FISCAL IMPACT/FUNDING SOURCE

9,180.75 INCREASE (Water/Sewer Capital Reserve Fund)

Total Revised Contract Amount: \$293,624.88

PO #: 068906

HTE Project #: 1124 (Vista Pond), 1126 (Grace/Central), 1127 (Kenilworth)

1129 (Olde Towne) 1130 (Cambria), 1131 (Eliz/Morris)

Project #: SAN-11-03

Review (as necessary):

Village Attorney X _____ Date _____
Finance Director X _____ Date _____
Village Manager X _____ Date _____

NOTE: Materials must be submitted to / approved by the Village Manager's Office by 12:00 pm. Wednesday, prior to the Agenda Distribution.

InterOffice Memo



To: David A. Hulseberg, Village Manager
 From: David A. Dratnol, P.E., Village Engineer *Dratnol*
 Through: Carl Goldsmith, Public Works Director *CG*
 Date: June 6, 2012
 Subject: Lift Station Improvements, Phase 1
 Change Order No. 2 (Final)

Attached please find Change Order No. 2 (Final) for this project in the amount of a net increase of \$9,180.75. The change order adds pay items based on field changes for Cambria, Elizabeth/Morris, Olde Towne, Vista Pond and Kenilworth stations. Listed below is a brief description of each new pay item associated with the respective station.

All Stations

Clarification of Issues Related to the Design and Wiring

The meter and disconnect as originally specified in the contract documents and as originally represented to the Village by company sales representatives were either discontinued or never available, thus the need for the change. Additional hours were spent by the General contractor's Purchasing Manager and Superintendent (General Electrician Foreman) talking and coordinating with suppliers, the Design Engineer and Village staff in addressing the meter socket/main disconnect combination and pedestal requirements and specifications. The general contractor conducted research to determine what products were available to meet the intent of the meter/disconnect configuration requested/specified by the Village and Design Engineer.

The Electrician Foreman Journeyman (Forman) for Thorne Electric also needed additional time (over and above the typical time allotted for this work) to sort out a number of field issues. This was confirmed by the Resident Engineer (ESI Consultants). The Forman did spend a significant amount of time determining the correct number of wires and conduits required. In one instance, the plans did not illustrate a necessary conduit run. This was discovered after the concrete generator pad had been placed. The foreman also spent a significant amount of time on the phone with Cummins (generator supplier) to determine the manufacturer's requirements. The drawings and specifications did not provide a clear interpretation of what work was to be executed under the terms of the contract and what items were supplied by others. Lastly, the Foreman spent a considerable time determining how and where the components should be installed.

The cost of this work is \$2,152.75

Physical Reconfiguration of Meters and Disconnects: The second component addresses the physical work of reconfiguring the metering and disconnects enclosures for each station. The meter and disconnect as originally specified in the contract documents and as originally represented to the Village by company sales representatives were either discontinued or never available, thus the need for the change. The metering fittings needed to be changed at two stations (Grace & Central and Vista Pond) while all six (6) stations will now have a second enclosure to house the disconnect switch for each respective panel.

The cost of this work is \$1,980.00

Cambria & Olde Towne

Ground Rod Installation for the New Generators: The requirement of a "UFER" grounding system was not incorporated into the construction documents. A UFER ground is an electrical earth grounding method developed during World War II and named as such for the inventor (Herbert G. Ufer). It uses a concrete-encased electrode to improve grounding. In this situation the use of a UFER grounding system is a Village Code requirement.

The cost of this work is \$250.00

Cambria, Olde Towne & Elizabeth/Morris

Re-Pull Interlocking Wiring at all Generator Sites: The plans showed the interlocking wire to be in the same conduit as the power wires. Although this is acceptable by the National Electrical Code, it does not follow standard practice and is not acceptable to Cummins, the generator manufacturer. Cummins will not honor their warranty unless the wiring was moved to another conduit. The pulled wire was reused by the contractor. The amount is for labor only.

The cost of this work is \$648.00

Elizabeth/Morris, Vista Pond, Grace & Central and Kenilworth Stations

Install Sheet Metal Barrier in the Intermediate Junction Box: The minimum spacing to separate intrinsically and non-intrinsically safe voltage wiring in the junction boxes was not available within the intermediate junction boxes. Therefore the contractor needed to provide a steel divider so there would not be any interference from the wires. The contractor cut the required shapes for the barrier plates, painted the sheet metal white for protection and to match the color of the backplate. The contractor also provided a trim on the exterior edge of the plate to protect personnel from cutting themselves.

The cost of this work is \$964.00

Elizabeth/Morris

Install Two #12 xpl Wires From the ATS to Generator: These wires were not called out on the contract documents and are required for proper operation of the system. The Run Gen wires shown on the plans are to provide a signal back to the SCADA (supervisory control and data acquisition) system to notify the operator that the generator is running. The 2 #12 xlp wires, which were not included, run from the ATS (Automatic Transfer Switch) to the generator. These wires allow the ATS to signal the back-up generator to engage because of a disruption to electrical power supply.

The cost of this work is \$253.00

Install 1" Conduit and (17) #12 Wires from ATS to Control Cabinet: The plans did not include a way to provide 120v of power and a signal from SCADA system (located within the control cabinet) to the ATS cabinet. The required wiring is for the battery charger, engine jacket heater, common alarm, gen run, common shut down, not in auto, ATS signal power, ground, etc. As constructed, no chases exist between the ATS and control panel so two 1" pipe nipples needed to be installed. Wires were then pulled in.

The cost of this work is \$1,282.00

Raise Gas Meter: Nicor installed the gas meter for the new back-up generator meter at a less than optimal height. Village staff was not satisfied with the location of the meter. Nicor initially installed the gas meter at a height where it would be under water in the most extreme storm events. This situation is not perceived as very prudent. Staff was not comfortable with having the gas meter submerged at a time when a reliable power supply to the back-up generator would most likely be needed. Nicor insisted that the meter installation was satisfactory and if the Village wanted the meter raised, Nicor demanded compensation. Since Thorne needed to connect the gas meter to the service line within the concrete slab, it made sense for Thorne to raise the meter before making this connection. In addition to raising the meter, Thorne painted the service piping to match the line as installed by Nicor.

The cost of this work is \$820.00

Olde Towne

Install Ground Wire From Ground Triad to New Meter Disconnect from Inside Panel:

The installation of this wire and conduit was not called out on the plans. The work needed performed, as it is a NEC code requirement.

The cost of this work is \$1,282.00

These issues have been addressed in the Phase 2 construction contract documents (Finley Road and Charles Lane).

Public Works – Engineering and Underground Utilities Divisions will be meeting with the Design Engineer to review the field changes that comprised Change Orders 1 and 2. Discussion will revolve around why certain items were not included, omitted or clear within the contract documents. Topics will also cover what reimbursement/compensation the engineer may owe the Village.

This change order will be presented to the Public Works Committee on June 12, 2012. If the committee recommends approval, please present this change order to the President and Board of Trustees for their review and approval at their regular meeting on June 21, 2012. If approved, please have one signed copy returned to Engineering for further processing.

RESOLUTION
R_____12B

A RESOLUTION AUTHORIZING A CHANGE ORDER
INVOLVING AN INCREASE IN THE DOLLAR AMOUNT OF
THE CONTRACT OF \$10,000 OR MORE

WHEREAS, pursuant to Illinois Compiled Statutes, Chapter 720, Section 5/33E-9, units of local government are required to make specific findings prior to authorizing any change order relative to a contract which would increase or decrease the dollar amount of the contract by \$10,000 or more, or would extend or shorten the time in which the contract is to be completed by thirty days or more; and

WHEREAS, staff has presented and recommended the proposed Change Order No. 2 to the contract between the Village of Lombard and Thorne Electric Co inc. regarding Lift Station Improvemets – Phase 1, as attached hereto as Exhibit "A" and made part hereof, to the Corporate Authorities of the Village of Lombard; and

WHEREAS, said change order attached hereto as Exhibit "A" would increase the dollar amount of the contract by \$9,180.75

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: That after reviewing the explanation of staff as to the necessity of and reasons for the change order attached hereto as Exhibit "A", the President and Board of Trustees find as follows:

- A. That the circumstances which necessitated said change order were not reasonably foreseeable at the time the contract was entered into.
- B. That the basis of the change order was not within the contemplation of the contract when the contract was signed.
- C. That it is in the best interests of the Village of Lombard to approve the change order in its proposed form.
- D. That to the extent that it may have been necessary to go to bid relative to the work contemplated by said change order, bidding is hereby specifically waived as to the change order work.

SECTION 2: That having made the findings set forth in Section 1 above, the President and Board of Trustees hereby approve the change order attached hereto as Exhibit "A", and direct and authorize the Village President and Village Clerk to execute said change order on behalf of the Village.

Adopted this _____ day of _____, 2012.

Ayes: _____

Nays: _____

Absent: _____

Approved this _____ day of _____, 2012.

William J. Mueller
Village President

ATTEST:

Brigitte O'Brien
Village Clerk

VILLAGE OF LOMBARD CHANGE ORDER

PROJECT NAME: Lift Station Improvements, Phase 1

PROJECT NO.: SAN -11-03

LOCATION: Various Stations

CHANGE ORDER: 2 (Final)

CONTRACTOR: Thorne Electric, Inc.

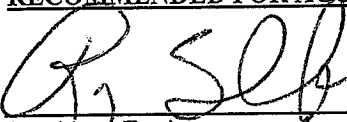
DATE: 6/6/2012

DESCRIPTION OF CHANGE ORDER: See descriptions on attached page

ORIGINAL CONTRACT AMOUNT:	[1]	<u>\$277,381.00</u>
TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS:	[2]	<u>\$7,063.13</u>
CURRENT CONTRACT AMOUNT: ([1]+[2])	[3]	<u>\$284,444.13</u>
PROPOSED CHANGE ORDER: (PENDING APPROVAL)	[4]	<u>\$9,180.75</u>
PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ([3]+[4])	[5]	<u>\$293,624.88</u>

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ([2]+[4])	<u>\$16,243.88</u>	
TIME EXTENSION OR REDUCTION:	<u>0</u>	
TOTAL CONTRACT TIME:		
BUDGET ESTIMATE:	<u>In-House Labor</u>	
ENGINEER'S ESTIMATE:	<u>\$270,000.00</u>	

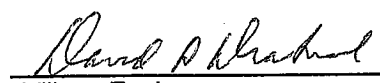
RECOMMENDED FOR ACCEPTANCE :

 6-7-12
Resident Engineer Date


Approved By: _____ Date
Director of Finance

 6-7-12
Contractor Date

Approved By: _____ Date
(<\$10K or 25%) Village Manager

 6/7/12
Village Engineer Date

Approved By: _____ Date
(>\$10K or 25%) Village President

 6/7/12
Director of Public Works Date

Attest: _____ Date
Village Clerk

Assistant Director of Finance Date

It is understood that as part of this change order that the Contractor agrees that all bonds, permits, insurance and guarantees are hereby extended to incorporate this Change Order.

Lift Station Improvements, Phase 1
Change Order #: 2 (Final)

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
1	Clarification of Issues Related to the Design and Wiring	0	L.S.	\$2,152.75	1	1	\$2,152.75	Time for Thorne staff to research materials and wiring for all six stations.
2	Reconfiguration of Meters and Disconnects	0	L.S.	\$1,980.00	1	1	\$1,980.00	The combination meter and disconnect as specified on the plans was not available and required to be reconfigured as separate units. Two new meters and six disconnects will be provided.
3	Generator Pad Ground Rod Installation at Cambria and Olde Towne	0	EA	\$125.00	2	2	\$250.00	The "UFER" Grounding note was not shown in the plans for the Cambria and Olde Towne stations, but is required.
4	Re-pulling Interlocking Wiring at Cambria, Olde Towne and Elizabeth/Morris Stations	0	EA	\$216.00	3	3	\$648.00	The plans showed the interlocking wire to be in the same conduit as the power wires. Although this is acceptable by Code, it does not follow standard practice and is not acceptable to Cummins, the generator manufacturer.
5	Install Sheet Metal Barrier in the Intermediate Junction Box at Elizabeth/Morris, Vista Pond, Grace & Central and Kenilworth Stations	0	LS	\$964.00	1	1	\$964.00	Barrier required to separate intrinsically and non-intrinsically safe circuits in the junction boxes was not shown on the plans.
6	Install two #12 Wires For the ATS to The Generator at the Elizabeth/Morris Site	0	L.S.	\$253.00	1	1	\$253.00	These wires were omitted from the plans and are required for proper operation of the system.
7	1" Conduit and (17) #12 Wires From the ATS to The Control Cabinet	0	L.S.	\$1,282.00	1	1	\$1,282.00	The plans did not have the means to provide 120V power and signals to the SCADA from the ATS Cabinet to the Control Cabinet. The required wiring is for the battery charger, engine jacket heater, common alarm, gen run, common shut down, not in auto, ATS signal power, ground, etc. No chases exist between the ATS and control panel so two 1" pipe nipples will need to be installed and then the wire can be pulled in.
8	Raise gas Meter at Elizabeth/Morris	0	L.S.		1	1	\$820.00	Thorne Electric paid to raise meter, as Nicor demanded compensation to move to a height acceptable by the Village.
9	Move Ground Wire from Ground Triad to New Disconnect From Inside Panel at Olde Towne	0	L.S.		1	1	\$831.00	The moving of this wire was not shown on the plans, however it is a NEC code requirement.

TOTAL AMOUNT= \$9,180.75

Electrical Contract
PROPOSAL
Change Order

June 5, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Additional Consultation Costs

Location: All Lift Stations

The undersigned, Thorne Electric, Inc., has furnished additional labor as has been necessary to keep the job moving in a forward direction. In every job a certain amount of clarification is always going to be necessary, but in the case of these 6 lift stations we have gone far beyond what should be required. We have in several instances spent hours at a time in the office and out in the field reviewing design issues and possible options for resolutions. At this point in the job we have an additional 30 hours of labor that has been spent in these efforts above what we would consider the normal call. This doesn't include the lost productivity of the second journeyman while his partner has been taken away for consultation.

The costs for the above cited labor only: \$2,152.75 (\$358.79 per station)
Labor breakdown: Electrician Foreman Journeyman: \$85.11 X 20 hrs = \$1,702.20
Purchasing Manager: \$46.00 X 5 hrs = \$230.00
Electrician General Foreman: \$89.65 X 5 hrs = \$448.25

- **These rates include payroll and benefits with a 15% markup included per the contract documents.**

THORNE ELECTRIC, INC.
P.O. BOX 321
INC.
WHEATON, ILLINOIS 60189
PHONE: (630)668-4853
FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC,

Kenny Thorne
Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL
Change Order

CR-1

April 23, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Change from plan for meters and disconnects Location: All Lift Stations

The undersigned, Thorne Electric, Inc., proposes to furnish material, equipment and labor as necessary to reconfigure the metering and disconnect enclosures at each of the lift stations from a single enclosure installation to a two enclosure system. There will now only be 2 new meter fittings associated with the work, but all 6 stations will now have a second enclosure to house the station's disconnect. These will be Milbank enclosures with Square D breakers as was discussed in meetings and the corresponding cut sheets that were approved. There will be 3 J frame breakers and 3 H frame breakers. As discussed we can provide these alternate materials for the same as our bid costs, but with it now being a 2 enclosure set up there will be additional labor fees.

The total additional cost over contract for the labor to install these materials as described above:
Total change to contract is: \$1,980.00

Customer is responsible for:
Engineering and construction layout, identification of utility easements and lot lines.
Obtaining the required permits or bonds and any associated fees, Landscape restoration,

All of the above work to be completed in a substantial and workmanlike manner. Thorne Electric, Inc. agrees to carry Workmen's Compensation and Public Liability Insurance, also to pay all Sales taxes, Old Age Benefit and Unemployment Compensation Taxes upon the material and labor furnished under this contract, as required by the United States Government and the State of Illinois. This proposal is valid for acceptance within 30 days. Payment terms are net 30 days. Customer agrees to pay interest on past due amounts at the rate of 1.2% compounded monthly plus all costs of collection and reasonable attorney's fees.

THORNE ELECTRIC, INC.
P.O. BOX 321
WHEATON, ILLINOIS 60189
PHONE: (630)668-4853
FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne
Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL

CR-2

April 4, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Generator Pad Ground Rod Installation

Location: Cambria/Olde Towne

The undersigned, Thorne Electric, Inc., proposes to furnish material, equipment and labor as necessary to furnish and install a ground rod, with #4 Bare ground wire attached by Cadweld to the top of the rod and routed through the foundation and into the generator enclosure.

Total cost for work described above: \$250.00 (\$125.00) per station
Labor: \$190.00
Material: \$60.00

Customer is responsible for:

Engineering and construction layout, identification of utility easements and lot lines.
Obtaining the required permits or bonds and any associated fees, Landscape restoration,
Thorne Electric is not responsible for incidental damage to landscaping, sprinkler systems, ornamental plantings or decorative yard accessories. Customer can specify hand digging only in order to minimize damage to landscaped areas at the rate of \$108.00 per hour. Reasonable care will be taken to minimize disturbance of existing facilities.

All of the above work to be completed in a substantial and workmanlike manner. Thorne Electric, Inc. agrees to carry Workmen's Compensation and Public Liability Insurance, also to pay all Sales taxes, Old Age Benefit and Unemployment Compensation Taxes upon the material and labor furnished under this contract, as required by the United States Government and the State of Illinois. This proposal is valid for acceptance within 30 days. Payment terms are net 30 days. Customer agrees to pay interest on past due amounts at the rate of 1.2% compounded monthly plus all costs of collection and reasonable attorney's fees.

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PHONE: (630)668-4853
FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne
Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL

CR-3

April 4, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Re-Pull Interlock Wiring

Location: 3 generator sites

The undersigned, Thorne Electric, Inc., proposes to furnish equipment and labor as necessary to remove the existing interlock wiring from the line voltage conduit and move it to the control wiring conduit as has been directed by Cummins, as it is not standard practice to mix the interlock wiring with the line voltage wiring. We believe we should be able to re-use the old wire, so the extra will be for labor only.

Total cost for work described above: \$648.00 (\$216.00 per station)

Customer is responsible for:

Engineering and construction layout, identification of utility easements and lot lines.

Obtaining the required permits or bonds and any associated fees, Landscape restoration,

Thorne Electric is not responsible for incidental damage to landscaping, sprinkler systems, ornamental plantings or decorative yard accessories. Customer can specify hand digging only in order to minimize damage to landscaped areas at the rate of \$108.00 per hour. Reasonable care will be taken to minimize disturbance of existing facilities.

All of the above work to be completed in a substantial and workmanlike manner. Thorne Electric, Inc. agrees to carry Workmen's Compensation and Public Liability Insurance, also to pay all Sales taxes, Old Age Benefit and Unemployment Compensation Taxes upon the material and labor furnished under this contract, as required by the United States Government and the State of Illinois. This proposal is valid for acceptance within 30 days. Payment terms are net 30 days. Customer agrees to pay interest on past due amounts at the rate of 1.2% compounded monthly plus all costs of collection and reasonable attorney's fees.

THORNE ELECTRIC, INC.
P.O. BOX 321
WHEATON, ILLINOIS 60189

PHONE: (630)668-4853

FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne

Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL

CR-4

April 23, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Junction Box High/Low Voltage Dividers

Location: Various Stations

The undersigned, Thorne Electric, Inc., proposes to furnish material, equipment and labor as necessary to furnish and install a steel divider in the intermediate junction boxes to separate the line voltage wiring from the intrinsically safe control voltage wiring. The divider will be made of 18 gauge steel. It will be fastened to the backboard of the junction box in the individual configuration need for each particular location.

Total cost for work described above: \$964.00
Labor: \$864.00
Material: \$100.00

Customer is responsible for:

Engineering and construction layout, identification of utility easements and lot lines.
Obtaining the required permits or bonds and any associated fees, Landscape restoration,
Thorne Electric is not responsible for incidental damage to landscaping, sprinkler systems, ornamental plantings or decorative yard accessories. Customer can specify hand digging only in order to minimize damage to landscaped areas at the rate of \$108.00 per hour. Reasonable care will be taken to minimize disturbance of existing facilities.

All of the above work to be completed in a substantial and workmanlike manner. Thorne Electric, Inc. agrees to carry Workmen's Compensation and Public Liability Insurance, also to pay all Sales taxes, Old Age Benefit and Unemployment Compensation Taxes upon the material and labor furnished under this contract, as required by the United States Government and the State of Illinois. This proposal is valid for acceptance within 30 days. Payment terms are net 30 days. Customer agrees to pay interest on past due amounts at the rate of 1.2% compounded monthly plus all costs of collection and reasonable attorney's fees.

THORNE ELECTRIC, INC.
P.O. BOX 321
WHEATON, ILLINOIS 60189

PHONE: (630)668-4853

FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne
Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL

CR-5

April 23, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Pull Generator Start Wiring

Location: Elizabeth-Morris Station

The undersigned, Thorne Electric, Inc., proposes to furnish equipment and labor as necessary to pull 2 #12 xlp wires in an existing conduit for the purpose of carrying the start signal from the ATS to the Genset.

Total cost for work described above: \$253.00

Customer is responsible for:

Engineering and construction layout, identification of utility easements and lot lines. Obtaining the required permits or bonds and any associated fees, Landscape restoration, Thorne Electric is not responsible for incidental damage to landscaping, sprinkler systems, ornamental plantings or decorative yard accessories. Customer can specify hand digging only in order to minimize damage to landscaped areas at the rate of \$108.00 per hour. Reasonable care will be taken to minimize disturbance of existing facilities.

All of the above work to be completed in a substantial and workmanlike manner. Thorne Electric, Inc. agrees to carry Workmen's Compensation and Public Liability Insurance, also to pay all Sales taxes, Old Age Benefit and Unemployment Compensation Taxes upon the material and labor furnished under this contract, as required by the United States Government and the State of Illinois. This proposal is valid for acceptance within 30 days. Payment terms are net 30 days. Customer agrees to pay interest on past due amounts at the rate of 1.2% compounded monthly plus all costs of collection and reasonable attorney's fees.

THORNE ELECTRIC, INC.
P.O. BOX 321
WHEATON, ILLINOIS 60189

PHONE: (630)668-4853
FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne
Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL

CR#6

April 23, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Connect ATS to control panel

Location: Elizabeth-Morris Station

The undersigned, Thorne Electric, Inc., proposes to furnish equipment and labor as necessary to pull the control wiring from the ATS to the control panel. This wiring is a total of 17 wires which includes the battery charger, engine jacket heater, common alarm, gen run, common shut down, not in auto, ATS signal power, ground, etc. No chases exist between the ATS and control panel so two 1" pipe nipples will need to be installed and then the wire can be pulled in.

Total cost for work described above: \$1,282.00

Customer is responsible for:

Engineering and construction layout, identification of utility easements and lot lines.
Obtaining the required permits or bonds and any associated fees, Landscape restoration,
Thorne Electric is not responsible for incidental damage to landscaping, sprinkler systems, ornamental plantings or decorative yard accessories. Customer can specify hand digging only in order to minimize damage to landscaped areas at the rate of \$108.00 per hour. Reasonable care will be taken to minimize disturbance of existing facilities.

All of the above work to be completed in a substantial and workmanlike manner. Thorne Electric, Inc. agrees to carry Workmen's Compensation and Public Liability Insurance, also to pay all Sales taxes, Old Age Benefit and Unemployment Compensation Taxes upon the material and labor furnished under this contract, as required by the United States Government and the State of Illinois. This proposal is valid for acceptance within 30 days. Payment terms are net 30 days. Customer agrees to pay interest on past due amounts at the rate of 1.2% compounded monthly plus all costs of collection and reasonable attorney's fees.

THORNE ELECTRIC, INC.
P.O. BOX 321
WHEATON, ILLINOIS 60189

PHONE: (630)668-4853

FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne

Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL

CR-7

May 16, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Raise gas regulator 10"

Location: Elizabeth-Morris

The undersigned, Thorne Electric, Inc., proposes to furnish equipment, labor, and material as necessary to furnish and install a 10" Riser on the Nicor meter installation to . This work was requested by the Village to keep the gas meter above the water line of the station. To complete this work we will need to disassemble the existing installation and rework the piping to achieve the requested height.

Total cost for work described above: \$820.00

Customer is responsible for:

Engineering and construction layout, identification of utility easements and lot lines. Obtaining the required permits or bonds and any associated fees, Landscape restoration, Thorne Electric is not responsible for incidental damage to landscaping, sprinkler systems, ornamental plantings or decorative yard accessories. Customer can specify hand digging only in order to minimize damage to landscaped areas at the rate of \$108.00 per hour. Reasonable care will be taken to minimize disturbance of existing facilities.

All of the above work to be completed in a substantial and workmanlike manner. Thorne Electric, Inc. agrees to carry Workmen's Compensation and Public Liability Insurance, also to pay all Sales taxes, Old Age Benefit and Unemployment Compensation Taxes upon the material and labor furnished under this contract, as required by the United States Government and the State of Illinois. This proposal is valid for acceptance within 30 days. Payment terms are net 30 days. Customer agrees to pay interest on past due amounts at the rate of 1.2% compounded monthly plus all costs of collection and reasonable attorney's fees.

THORNE ELECTRIC, INC.
P.O. BOX 321
WHEATON, ILLINOIS 60189

PHONE: (630)668-4853
FAX: (630)668-4879

Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne
Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____

Electrical Contract
PROPOSAL

CR-2

May 21, 2012

To: Lombard Public Works
255 E. Wilson Ave.
Lombard, IL 60148
Attn: Ray Schwab

Job Name: Grounding conductor Installation

Location: Olde Towne Lift Station

The undersigned, Thorne Electric, Inc., proposes to furnish material, equipment and labor as necessary to furnish and install a complete grounding electrode conductor from the new disconnect to the existing ground triad. We will install a 1/2" GRC conduit out the bottom of the disconnect enclosure, over the edge of the foundation, and into the soil. We will trench from the conduit stub over to the ground triad, install a #4 bare ground conductor, and cad-weld the #4 to the ground rod. We will land the #4 in the disconnect enclosure under the ground lug.

Total cost for work described above: \$831.00

Customer is responsible for:

Engineering and construction layout, identification of utility easements and lot lines. Obtaining the required permits or bonds and any associated fees, Landscape restoration, Thorne Electric is not responsible for incidental damage to landscaping, sprinkler systems, ornamental plantings or decorative yard accessories. Customer can specify hand digging only in order to minimize damage to landscaped areas at the rate of \$108.00 per hour. Reasonable care will be taken to minimize disturbance of existing facilities.

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Respectfully submitted,
THORNE ELECTRIC, INC.

Kenny Thorne
Kenny Thorne, Superintendent

You are hereby authorized to furnish all materials and labor required to complete the work described above, for which the undersigned agrees to pay the amount quoted above, and according to the terms thereof.

ACCEPTED BY: _____

DATE: _____