

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] \$277,381.00

TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS: [2] \$7,063.13

CURRENT CONTRACT AMOUNT: ([1]+[2]) [3] \$284,444.13

PROPOSED CHANGE ORDER: (PENDING APPROVAL) [4] \$9,180.75

PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ([3]+[4]) [5] \$293,624.88

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ([2]+[4]) \$16,243.88

TIME EXTENSION OR REDUCTION: 0

TOTAL CONTRACT TIME: _____

BUDGET ESTIMATE: In-House Labor

ENGINEER'S ESTIMATE: \$270,000.00

RECOMMENDED FOR ACCEPTANCE :

[Signature] 6-7-12
Resident Engineer Date

Approved By: [Signature] 6/25/12
Director of Finance Date

[Signature] 6-7-12
Contractor Date

Approved By: [Signature] 6/25/12
(<\$10K or 25%) Village Manager Date

[Signature] 6/7/12
Village Engineer Date

Approved By: [Signature] 6/7/12
(>\$10K or 25%) Village President Date

[Signature] 6/7/12
Director of Public Works Date

Attest: [Signature] 6/6/12
Village Clerk Date

[Signature] 6/25/12
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

6/6/2012

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: 6/4/2012

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.

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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: 6/21/2012

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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ACCEPTED BY: 

DATE: 6/4/2012

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.

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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:

6/24/2012

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.

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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: 4/24/2012

**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.

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Kenny Thorne, Superintendent

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ACCEPTED BY: 

DATE: 4/24/2012

**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.

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Kenny Thorne

Kenny Thorne, Superintendent

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ACCEPTED BY: 

DATE: 4/23/2012

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,

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ACCEPTED BY:



DATE:

6/20/2012

Electrical Contract
PROPOSAL

CR-8

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,

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THORNE ELECTRIC, INC.

Kenny Thorne
Kenny Thorne, Superintendent

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ACCEPTED BY:



DATE:

6/20/12