

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: Scott Niehaus, Village Manager

DATE: December 7, 2016 (COW) (B of T) **Date:** December 15, 2016

TITLE: IL Route 53 – Storm Water Pump Station
Change Order No. 1

SUBMITTED BY: David P. Gorman, P.E., Assistant Director of Public Works *DPG*

BACKGROUND/POLICY IMPLICATIONS:

Change Order No. 1 is a net increase of \$127,692.68. The change order represents modifications to existing contract quantities, seven (7) Authorized Unit Price (AUP) items and one (1) Time and Material billings for extra work related to unanticipated field conditions.

FISCAL IMPACT/FUNDING SOURCE:

Project #: SS 12 01
Current Contract Amount: \$5,279,700.00
Change Order #1: \$127,692.68
Total Revised Contract Amount: \$5,407,392.68
PO #: 2016-00001897
Account: Water/Sewer Capital Reserve 520.790.715.75420

Review (as necessary):

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

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.

Interoffice Memo



To: Scott Niehaus, Village Manager
 From: David Gorman, P.E., Assistant Director Public Works Director
 Through: Carl Goldsmith, Public Works Director *AG*
 Date: December 7, 2016
 Subject: IL Route 53 Storm Water Pump Station Improvements
 Change Order No. 1

Attached please find Change Order No. 1 for this project in the amount of a net increase of \$127,692.68. The change order represents seven (7) Authorized Unit Price (AUP) items, one (1) Time and Material billing for extra work and various adjustments to existing pay items quantities. Refer to the summary sheets behind the change order form for all changes related to contract pay items.

One specific situation generated a significant change to the underground utility component of the project. While exposing the northern 90 degree bend of the existing 72 inch diameter storm sewer it was discovered that existing sanitary sewer was in conflict with the ComEd duct that is located by the west curb line of IL Route 53. The sanitary sewer was televised and found to be compromised underneath the ComEd duct. ComEd was contacted and the resulting discussion yielded that raising or modifying the duct was not practical or acceptable from both from a time and cost standpoint. Given the geometry of the ComEd duct, location of three different NiCor gas mains and the Village 72" diameter storm sewer main (all located in the vicinity of the sanitary sewer) the only prudent option was to relocate the sanitary sewer crossing to the northern limit of the project area. Other ramifications include running a second sanitary sewer line on the south side of the Village's 72" diameter storm sewer (on the Phillips Court site). This is so the southern sanitary sewer can be collected and run on the Phillips Court site, thus not creating another utility conflict within the IDOT right-of-way. The original design had the water main crossing underneath IL Route 53 however the water main was redesigned to be connected at the south end of the Phillips Court site. This avoids a costly second crossing underneath IL Route 53. Another ancillary cost is the traffic control required by IDOT. The IDOT permit required a revised traffic control plan to accommodate the underground subcontractor when he is staging within the IDOT right-of-way and/or working within eight feet of a travel lane. This item and pricing of a few sanitary sewer structures are still under negotiation with the contractor and will be include in a subsequent change order.

ADJUSTMENT TO EXISTING QUANTITIES

Refer to the above paragraph, as numerous additions and reductions to existing contract quantities are related to the redesign of the water main and sanitary sewer system.

NEW PAY ITEMS

TIME AND MATERIAL #1 REMOVAL OF SEDIMENT FROM EXISTING WET WELL Removal of silt within the existing wet well was necessary for the water proof lining of the existing structure (which will serve as a discharge chamber/point for the new pump station). During the bidding process, the amount of silt with the existing wet well could not be determined. To minimize the risk of the quantity associated with the amount of silt to be removed, the Village had the contractor do the work on a time and material basis. The billing includes all labor and equipment. *Billing = \$11,362.38*

AUP #1 REMOVAL OF 30 INCH DIAMETER STORM SEWER PIPE: An undocumented 30 inch diameter storm sewer was found on the Phillips Court site. No record of the pipe was in the Village utility atlas. The sewer was investigated to see if possible it was still in service. It was found to be abandoned. The run of pipe within the new pump station site was removed. The section of the sewer running under Route 53 will be documented in the project record drawing and incorporated into the Village atlas. Work includes excavation, equipment, disposal and all labor. *Authorized Unit Price = \$50.00/LF Total Cost = \$3,600.00*

AUP #2 SPECIALTY SANITARY MANHOLES 4 FOOT - DROP CONNECTION & SUMP STRUCTURE WITH EPOXY COATING: This item is related to the sanitary sewer redesign. A specialty structure connecting the sanitary sewer on the west side of IL Route 53 to the sanitary sewer on the east side of IL Route 53 (Phillips Court Side) will be needed to accommodate the geometric needs of the redesign. A drop manhole is used in areas with a steep slope when one or more of the inlet pipes have an invert (bottom) of pipe elevation significantly higher than the invert of the outlet pipe. A second specialty structure connecting the sanitary sewer on the east side of IL Route 53 to the sanitary sewer on the west side of IL Route 53 (Phillips Court Side) will be needed to accommodate the geometric needs of the redesign. A sump manhole is used in areas with a minimally pitched pipe. A sump is created within the structure to allow solids to accumulate at a collection point and minimize the amount of solids that settle within the pipe. The manhole will be epoxy coated to minimize microbial induced corrosion. *Authorized Unit Price = \$5,315.00 each*

AUP #3 WATER MAIN IN THE IDOT ROW: This item is related to the water main redesign as a component of the sanitary sewer redesign. The water main running under IL Route 53 was eliminated from the original design. A connection is for the “looping of the water main was achievable from the south end of the Phillips Court site. The redesign necessitated staging and working within the IDOT right of way as opposed to the Phillips Court site. The production rate from the contractor will be slightly lower than when working on an open site. *Authorized Unit Price = \$180.00/LF Total Cost = \$26,460*

AUP #4 PLUG AND ABANDON EXISTING SANITARY SEWER: Two existing sanitary manholes (one on the west side of Route 53, the second on the east side of IL Route 53) are being abandoned as part of the sanitary sewer line that is being decommissioned due to the failure in the sewer line under the ComEd duct bank. *Authorized Unit Price = \$948/Each Pipe Total Cost = \$3,792.00*

AUP #5 SANITARY SEWER, 8” PVC SDR 26: Another item related to the sanitary sewer redesign. A secondary sanitary sewer line needs to be run on the south side of the Phillips Court site. The new wet well and pump station facility along with the existing 72 inch diameter storm sewer cannot be crossed economically nor does the pipe geometry work to accommodate gravity flow. *Authorized Unit Price = \$133/LF Total Cost = \$36,176.00*

AUP #6 PIPE LINER 60 INCH (8 DEGREE BEND): During the lining process of the 72 inch diameter sewer, a bend in the existing line was discovered. Televising of the sewer did not yield that there was a minor deflection in such a large diameter pipe. The contractor had to have ADS (liner supplier) manufacturer a specialty pipe so the liner could effectively fit inside the existing 72 inch concrete pipe. *Authorized Unit Price = \$2,591.30/Each*

AUP #6 FLOWABLE REDI-MIX LOW STRENGTH FILL: As part of the abandonment of the existing sanitary sewer line, flowable fill was used to ensure that all voids around the abandoned sanitary sewer and ComEd duct bank were filled. *Authorized Unit Price = \$185.00 CY Total Cost = \$2,960.00*

This change order will be presented to the Public Works Committee on December 13, 2016. 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 December 15, 2016. If approved, please have two signed copies returned to Engineering for further processing.

DG/rgs

H:\PWPW-Eng\PROJECTS\FY2010\SS-10-01 Rte 53 Storm Pump Station\Construction\Change Orders\CO#1 BoT memo.doc

RESOLUTION
R _____

A RESOLUTION AUTHORIZING A CHANGE ORDER
INVOLVING AN INCREASE/DECREASE IN THE DOLLAR AMOUNT OF
THE CONTRACT OF \$10,000 OR MORE AND/OR EXTENDING/ SHORTENING THE
TIME IN WHICH THE CONTRACT IS TO BE COMPLETED BY THIRTY (30) DAYS
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 (30) days or more; and

WHEREAS, staff has presented and recommended the proposed Change Order No.1 to the contract between the Village of Lombard and the Rausch Infrastructure, LLC regarding the IL Route 53 Storm Water Pump Station Improvements project, as attached hereto as Exhibit "A" and made part hereof, (the "Change Order") 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 \$127,692.68.

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 15th day of December, 2016, pursuant to a roll call vote as follows:

Ayes: _____

Nays: _____

Absent: _____

Approved by me this 15th day of December, 2016.

Keith Giagnorio
Village President

ATTEST:

Sharon Kuderna
Village Clerk

VILLAGE OF LOMBARD CHANGE ORDER

PROJECT NAME: IL Rte 53 Storm Water Pump Station Imp PROJECT NO.: SS-12-01
 LOCATION: Phillips Court/IL Rte 53 CHANGE ORDER: 1
 CONTRACTOR: Rausch Infrastructure DATE: 12/7/2016
 DESCRIPTION OF CHANGE ORDER: Approved extra work and adjustment to contract items


ORIGINAL CONTRACT AMOUNT: [1] 5,279,700.00
 TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS: [2] \$0.00
 CURRENT CONTRACT AMOUNT: ((1)+[2]) [3] \$5,279,700.00
PROPOSED CHANGE ORDER: (PENDING APPROVAL) [4] \$127,692.68
 PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ((3)+[4]) [5] \$5,407,392.68

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ((2)+[4]) \$127,692.68
 TIME EXTENSION OR REDUCTION: _____
 TOTAL CONTRACT TIME: 270 Cal Days
 BUDGET ESTIMATE: \$4,950,000.00
 ENGINEER'S ESTIMATE: \$5,560,000.00

RECOMMENDED FOR ACCEPTANCE :

 12-7-16 Approved By: _____
 Resident Engineer Date Director of Finance Date

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

 12-7-16 Approved By: _____
 Village Engineer Date (>\$10K or 25%) Village President Date

 12/7/16 Attest: _____
 Director of Public Works Date Village Clerk Date

 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.

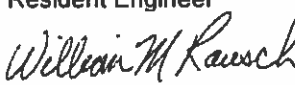
VILLAGE OF LOMBARD CHANGE ORDER

PROJECT NAME: IL Rte 53 Storm Water Pump Station Imp PROJECT NO.: SS-12-01
 LOCATION: Phillips Crt/IL Rte 53 CHANGE ORDER: 1
 CONTRACTOR: Rausch Infrastructure DATE: 11/30/2016
 DESCRIPTION OF CHANGE ORDER: Approved extra work and contract items added

ORIGINAL CONTRACT AMOUNT:	[1] <u>5,279,700.00</u>
TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS:	[2] <u>\$0.00</u>
CURRENT CONTRACT AMOUNT: ([1]+[2])	[3] <u>\$5,279,700.00</u>
PROPOSED CHANGE ORDER: (PENDING APPROVAL)	[4] <u>\$127,692.68</u>
PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ([3]+[4])	[5] <u>\$5,407,392.68</u>

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ([2]+[4]) \$127,692.68
 TIME EXTENSION OR REDUCTION: _____
 TOTAL CONTRACT TIME: 270 Cal Days
 BUDGET ESTIMATE: _____
 ENGINEER'S ESTIMATE: _____

RECOMMENDED FOR ACCEPTANCE :

Resident Engineer	Date	Approved By:	Director of Finance	Date
	<u>12.7.2016</u>			
Contractor	Date	Approved By:	Village Manager	Date
		(<\$10K or 25%)		

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

Director of Public Works	Date	Attest:	Village Clerk	Date
--------------------------	------	---------	---------------	------

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.

IL Rte. 53 Storm Water Pump Station Improvements
Change Order #: 1

12/5/2016

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
20800150	TRENCH BACKFILL	500	CY	\$34.00	550	50.0	\$1,700.00	For additional sanitary sewer and water main work.
54010804	PRECAST CONCRETE BOX CULVERT, 8' X 4'	15.00	FT	\$2,000.00	25.00	10.0	\$20,000.00	Field location of the 72 inch storm sewer pipe extended the proposed box culvert (10 feet to the north).
56103100	DUCTILE IRON WATER MAIN, 8"	350	FT	\$155.00	450	100.0	\$15,500.00	Work added for the water main
56105000	WATER VALVE, 8"	1	EA	\$2,050.00	2	1.0	\$2,050.00	Added for revised water main work
56108300	TAPPING VALVES AND SLEEVES, 8"	1	EA	\$14,000.00	0	(1.0)	(\$14,000.00)	Pay Item not used
56200300	WATER SERVICE LINE, 1"	150	FT	\$58.00	50	(100.0)	(\$5,800.00)	Revision reduced length required
56300200	REMOVE AND REPLACE 10" SANITARY SEWER WITH 10" DIP	45	FOOT	\$245.00	0	(45.0)	(\$11,025.00)	Not required for sanitary sewer revisions
60218400	MANHOLE, TYPE A, 4' DIA., T1 FRAME, CLOSED LID	2	EACH	\$5,000.00	4	2.0	\$10,000.00	(2)San MH's added for revisions 16 A
60248700	VALVE VAULT, TYPE A, 4' DIA, T1 FRAME, CLOSED LID	2	EACH	\$2,300.00	1	(1.0)	(\$2,300.00)	For water revisions
60605000	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24	300	FOOT	\$36.00	100	(200.0)	(\$7,200.00)	Plan quantity not used on the west side of IL. Rte. 53
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	100	FOOT	\$52.00	0	(100.0)	(\$5,200.00)	Pay Item not used
Z0057000	SANITARY SEWER, 10" PVC SDR 26	200	FOOT	\$136.00	325	126.0	\$17,136.00	For sanitary sewer revisions.
Z0067700	STEEL CASING, 20" AUGERED	65	FOOT	\$757.00	75	10.0	\$7,570.00	For sanitary sewer revisions under IL. Rte. 53 beyond 8 feet of BOC and under utilities
Z0067700	STEEL CASING, 20" OPEN CUT	25	FOOT	\$145.00	95	70.0	\$10,150.00	For revised water and sewer
T&M1	REMOVE SEDIMENT FROM EXT. WET WELL PRIOR TO COATING	0	LSUM	\$11,362.38	1	1.0	\$11,362.38	Sediment needed to be removed and disposed of prior to coating of the existing wet well.
AUP1	Remove and dispose of ext. 30 inch storm sewer pipe.	0	FOOT	\$50.00	72	72.0	\$3,600.00	Abandon storm sewer found during the sheeting installation work for the
AUP2	SANITARY MH #1 - 4 FT DIA. DROP CONNECTION and SANITARY MH #2- 4 FT DIA. EPOXY COATED INTERIOR	0	EA	\$5,315.00	2	2.0	\$10,630.00	For sanitary sewer revisions.
AUP3	WATER MAIN 8INCH IN IDOT ROW	0	FT	\$180.00	100	100.0	\$18,000.00	For water revisions in IDOT ROW
AUP4	PLUG/ABANDON EXT SAN SEWER	0	EA	\$948.00	4	4.0	\$3,792.00	For sanitary sewer revisions.

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
AUP5	SANITARY SEWER, 8" PVC SDR 26	0	FT	\$133.00	272	272.0	\$36,176.00	For sanitary sewer revisions.
AUP6	PIPE LINER 60 IN ADS 8 Deg Bend	0	EA	\$2,591.30	1	1.0	\$2,591.30	Required for 72 inch storm sewer pipe deflection.
AUP7	FLOWABLE FILL	0	CY	\$185.00	16	16.0	\$2,960.00	Backfill required to support the existing Com-Ed duct following the

TOTAL AMOUNT= \$127,692.68