

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: William T. Lichter, Village Manager

DATE: July 31, 2006 (COW) (B of T) **Date:** August 17, 2006

TITLE: Special Assessment 219 (Ahrens & Morris Avenues)
Change Order #1 (Ahrens Avenue Sewer)

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

BACKGROUND/POLICY IMPLICATIONS:

See memo

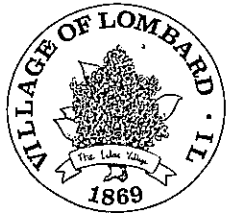
FISCAL IMPACT/FUNDING SOURCE:

\$254,039.69 INCREASE/ Water & Sewer Fund
Project #: ST-05-05
HTE Project #: 0411 7901,809500
PO #: 054748

Review (as necessary):

Village Attorney X	_____	Date	_____
Finance Director X	<i>Leonard Flood</i>	Date	<i>8/3/06</i>
Village Manager X	<i>William T. Lichter</i>	Date	<i>8/3/06</i>

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: William T. Lichter, Village Manager
 From: David A. Dratnol, P.E., Village Engineer *Also for DAD*
 Through: Wesley B. Anderson, Public Works Director *WBA*
 Date: July 31, 2006
 Subject: Special Assessment 219
 Change Order #1 (Ahrens Sewer)

Attached please find Change Order #1 for this project in the amount of \$254,039.69. The change order represents quantity adjustments to the existing contract items and time and material billings related to the replacement of the existing sanitary sewer on Ahrens Avenue between Roosevelt Road and Morris Avenue. A discussion of the circumstances regarding the replacement of the Ahrens sewer is covered below. Descriptions for each pay item are included on page 2 of the change order. Time & Material billings related to the construction of the Ahrens sewer are discussed at the end of the memo.

While excavating and laying the replacement sanitary sewer main along the east Ahrens Avenue parkway north of Morris Avenue, problems arose within the trench. The initial difficulty was encountered when soil conditions within the trench were not stable enough to allow normal construction (using stacked trench boxes) to continue. The trench was continually collapsing due to spoil from the gas line on the eastern side of the trench, and the soil in the trench bottom was saturated (most likely due to an upstream failure in the existing sanitary sewer line). The poor stability of the excavation made progress difficult, and safe progress could not continue due to the inability of maintaining trench boxes within the 20 plus foot deep excavation. Five days were spent trying to construct 150 feet of sanitary sewer. During this time, deficiencies related to the original installation of the existing sanitary pipe were uncovered. The pipe is inconsistent in terms of both depth and alignment (both vertically and horizontally). Even if the contractor could continue, bypass pumping would not be possible due to the fluctuations of pipe and the flow of saturated soil from the bottom of the trench. These factors make construction nearly impossible, let alone cost effective.

Given the condition of the trench, alternate means of construction were considered.

- Moving the sanitary line to the middle of the road
- Using sheet piling
- Tunneling with casings
- Installing a lift station near the corner of Ahrens and Roosevelt

These alternatives were ruled out for cost reasons.

The option selected was to move the sanitary sewer line to the west side of Ahrens and install a new water main on the east side over the existing sanitary sewer. Soil borings were performed over the existing sewer and the proposed new location of the sanitary sewer. The results of the borings were favorable and the consultant was instructed to proceed with a modification to the existing design. The intent of constructing the sewer on the west side was to bury the pipe at a depth where there was no previous construction. This option eliminates the problems that were being encountered on the east side. Moving the sanitary sewer to the west side required the existing 6 inch water main be replaced with a new 8 inch water main on the east side. The water main work would have eventually been done with the street special assessment. Essentially the water main is being replaced approximated 10 to 12 years ahead of schedule.

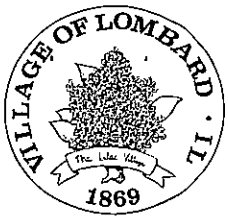
Changes to the current contract quantities reflect the change to the design. The new agreed to unit prices reflect additional work associated with the redesign. Total cost for the work directly related to the redesign of the Ahrens sewer is \$237,578.17

Three time and material billings are included in this change order.

- **EXTRA WORK #1:** Initially a temporary connection was constructed as part of the mainline sewer construction. This temporary connection was made until the design engineer, resident engineer and Village staff could address the differing site condition encountered by the contractor. This temporary connection was not charged to the Village. Approximately 24 hours after the completion of the temporary connection, a Village maintenance worker discovered a backup in the mainline sewer. The contractor excavated the area to expose the source to the blockage. To immediately address the situation and to keep the sewer in service over the weekend, overnight bypass pumping was used. The difference of the inverts of the existing and new pipe had built up solids which was the source to the backup. (\$9,913.85 increase).
- **EXTRA WORK #2:** This item is the re-excavation of the area that was temporarily connected for the weekend under EXTRA WORK #1. Under the direction of Public Works-Engineering, the location of the proposed manhole was moved from the southwest corner of Morris and Ahrens to the northwest corner. This allowed the contractor to establish a solid connection and to continue with other sanitary mainline installation, while the redesign of the Ahrens sewer could be done. (\$4,1221.10).
- **EXTRA WORK #3:** This item is the repair of an unknown (hence unmarked) sanitary service line at 750 East Morris. (\$2,456.57).

This change order has been presented to the Board of Local Improvements and the Public Works Committee via phone poll. Both committees recommended approval of the change order.

The Board of Trustees was also phone polled for approval. The phone poll was conducted to ensure no delays in construction and associated increases in cost. The change order was approved via a phone poll and work is proceeding. Please place this item on the consent agenda for the regular meeting of August 17, 2006.



RESOLUTION
R _____ 07

**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. 1 to the contract between the Village of Lombard and R. W. Dunteman Company regarding Special Assessment 219 (Ahrens, Morris & School), 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 \$254,039.69

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 _____, 2006

Ayes: _____

Nays: _____

Absent: _____

Approved this _____ day of _____, 2006

William J. Mueller
Village President

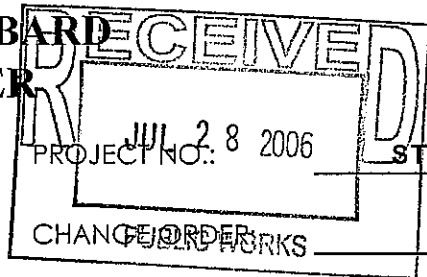
ATTEST:

Brigitte O'Brien
Village Clerk

APPROVAL AS TO FORM:

Thomas P. Bayer
Village Attorney

VILLAGE OF LOMBARD CHANGE ORDER



PROJECT NAME: Special Assessment 219

LOCATION: School, Morris & Ahrens

CONTRACTOR: Trine Construction

DATE: 7/25/2006

DESCRIPTION OF CHANGE ORDER: Quantity adjustments and time & material billings related to the construction of the Ahrens Avenue sewer

ORIGINAL CONTRACT AMOUNT:	[1]	<u>\$1,633,308.65</u>
TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS:	[2]	<u>\$0.00</u>
CURRENT CONTRACT AMOUNT: ([1]+[2])	[3]	<u>\$1,633,308.65</u>
PROPOSED CHANGE ORDER: (PENDING APPROVAL)	[4]	<u>\$254,039.69</u>
PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ([3]+[4])	[5]	<u>\$1,887,348.34</u>

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ([2]+[4]) \$254,039.69

NET TIME EXTENSION OR REDUCTION: \$0.00

TOTAL CONTRACT TIME: (PENDING APPROVAL) _____

BUDGET ESTIMATE: \$1,528,145.00

ENGINEER'S ESTIMATE: \$1,540,048.25

RECOMMENDED FOR ACCEPTANCE :

[Signature] 7/26/06
Resident Engineer Date

Approved By: _____
Director of Finance Date

[Signature] 7/26/06
Contractor Date

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

[Signature] 1 Aug 06
Village Engineer Date

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

[Signature] 1 Aug 06
Director of Public Works Date

Attest: _____
Village Clerk Date

Assistant Finance Director Date

Approved By: _____
President of BOLI 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.

Special Assessment 219

C.O. # 1

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	C.O. Amount	Description
20100110	TREE REMOVAL (6 TO 15 UNITS DIA.)	150	UNIT	\$14.40	164	14	\$201.60	Quantity change related to Ahrens. sewer redesign
20800250	TRENCH BACKFILL, SPECIAL	3489	CUYD	\$33.25	5204	1715	\$57,023.75	Quantity change related to Ahrens sewer redesign
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	1074	SQYD	\$1.50	1314	240	\$360.00	Quantity change related to Ahrens sewer redesign
21101615	TOPSOIL FURNISH AND PLACE, 4"	13148	SQYD	\$3.00	13963	815	\$2,445.00	Quantity change related to Ahrens sewer redesign
25200700	SODDING, SPECIAL	13148	SQYD	\$3.50	13963	815	\$2,852.50	Quantity change related to Ahrens sewer redesign
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	2631	SQYD	\$4.45	2871	240	\$1,068.00	Quantity change related to Ahrens sewer redesign
X3550110	BITUMINOUS BASE COURSE SUPERPAVE 4 1/2"	727	SQYD	\$16.55	957	230	\$3,806.50	Quantity change related to Ahrens sewer redesign
X4066412	BIT CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50	1045	TON	\$62.00	1071	26	\$1,599.60	Quantity change related to Ahrens sewer redesign
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	102	TON	\$60.00	134	32	\$1,932.00	Quantity change related to Ahrens sewer redesign
42001300	PROTECTIVE COAT	987	SQYD	\$1.10	1123	136	\$149.60	Quantity change related to Ahrens sewer redesign
42300710	PCC DRIVEWAY PAVEMENT, 6 INCH, SPECIAL	515	SQYD	\$39.60	635	120	\$4,752.00	Quantity change related to Ahrens sewer redesign
42400430	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH, SPECIAL PAVEMENT REMOVAL	2741	SQFT	\$4.00	2791	50	\$200.00	Quantity change related to Ahrens sewer redesign
44000100	DRIVEWAY PAVEMENT REMOVAL	2101	SQYD	\$8.40	2331	230	\$1,932.00	Quantity change related to Ahrens sewer redesign
44000200	COMBINATION CURB AND GUTTER REMOVAL	2142	SQYD	\$9.00	2421	279	\$2,511.00	Quantity change related to Ahrens sewer redesign
44000500	SIDEWALK REMOVAL	171	FOOT	\$9.85	201	30	\$295.50	Quantity change related to Ahrens sewer redesign
44000600	END SECTIONS 12"	171	SQFT	\$3.40	221	50	\$170.00	Quantity change related to Ahrens sewer redesign
54213447	END SECTIONS 15"	37	EACH	\$147.00	41	4	\$588.00	Quantity change related to Ahrens sewer redesign
54213450	STORM SEWER REMOVAL 10"	18	EACH	\$173.00	28	10	\$1,730.00	Quantity change related to Ahrens sewer redesign
55100400	STORM SEWER REMOVAL 12"	263	FOOT	\$5.00	339	76	\$380.00	Quantity change related to Ahrens sewer redesign
55100500	STORM SEWER REMOVAL 12"	284	FOOT	\$5.00	319	35	\$175.00	Quantity change related to Ahrens sewer redesign

Special Assessment 219

C.O. # 1

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	C.O. Amount	Description
55100700	STORM SEWER REMOVAL 15"	436	FOOT	\$5.00	496	60	\$300.00	Quantity change related to Ahrens sewer redesign
56103000	DUCTILE IRON WATERMAIN 6"	40	FOOT	\$41.95	49	9	\$377.55	Quantity change related to Ahrens sewer redesign
56103100	DUCTILE IRON WATERMAIN 8"	2960	FOOT	\$45.65	3828	868	\$39,624.20	Quantity change related to Ahrens sewer redesign
56105000	WATER VALVES 8"	11	EACH	\$865.80	13	2	\$1,731.60	Quantity change related to Ahrens sewer redesign
56200300	WATER SERVICE LINE 1"	1068	FOOT	\$12.45	1572	504	\$6,274.80	Quantity change related to Ahrens sewer redesign
56201400	CORPORATION STOPS 1"	34	EACH	\$569.90	47	13	\$7,408.70	Quantity change related to Ahrens sewer redesign
56400500	FIRE HYDRANTS TO BE REMOVED	2	EACH	\$401.00	4	2	\$802.00	Quantity change related to Ahrens sewer redesign
56400820	FIRE HYDRANT W/ AUXILIARY VALVE & VALVE BOX	10	EACH	\$2,590.00	12	2	\$5,180.00	Quantity change related to Ahrens sewer redesign
60228110	MANHOLES, SANITARY, 4'-DIA, TYPE 1 FRAME, CLOSED LID	14	EACH	\$3,895.00	15	1	\$3,895.00	Quantity change related to Ahrens sewer redesign
60248900	VALVE VAULTS, TYPE A, 5'-DIA., TYPE 1 FRAME, CLOSED LID	11	EACH	\$1,625.00	13	2	\$3,250.00	Quantity change related to Ahrens sewer redesign
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	50	FOOT	\$35.00	80	30	\$1,050.00	Quantity change related to Ahrens sewer redesign
XX000479	WATER MAIN REMOVAL 6 INCH	36	FOOT	\$32.80	836	800	\$26,240.00	Quantity change related to Ahrens sewer redesign
XX005377	CLASS D PATCHES, SUPERPAVE, TYPE 2, 7 INCH	351	SQYD	\$48.00	434	83	\$3,984.00	Quantity change related to Ahrens sewer redesign
XX005379	CLASS D PATCHES, SUPERPAVE, TYPE 4, 7 INCH	1352	SQYD	\$48.00	839	-513	(\$24,624.00)	Quantity change related to Ahrens sewer redesign
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	2045	TON	\$11.40	2195	150	\$1,710.00	Quantity change related to Ahrens sewer redesign
Z0004600	BITUMINOUS DRIVEWAY PAVEMENT 9"	1429	SQYD	\$42.00	1691	262	\$11,004.00	Quantity change related to Ahrens sewer redesign
LOM56101	WATER VALVE REMOVAL	2	EACH	\$551.00	3	1	\$551.00	Quantity change related to Ahrens sewer redesign
LOM56102	WATERMAIN FITTINGS	3906	POUND	\$2.60	5276	1370	\$3,562.00	Quantity change related to Ahrens sewer redesign
LOM56103	CONNECTION TO EXISTING WATER MAINS (NON-PRESSURE)	5	EACH	\$2,840.00	9	4	\$11,360.00	Quantity change related to Ahrens sewer redesign
	SANITARY SEWER, 10", TYPE 3	357	FOOT	\$96.30	375	18	\$1,733.40	Quantity change related to Ahrens sewer redesign

Special Assessment 219

C.O. # 1

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	C.O. Amount	Description
	SANITARY SEWER REMOVAL, 10"	1168	FOOT	\$5.10	366	-802	(\$4,090.20)	Quantity change related to Ahrens sewer redesign
	STRUCTURES TO BE REMOVED	14	EACH	\$550.00	15	1	\$550.00	Quantity change related to Ahrens sewer redesign
	SANITARY SEWER SERVICE CONNECTION	1362	FOOT	\$50.60	1295	-67	(\$3,390.20)	Quantity change related to Ahrens sewer redesign
	PIPE CULVERTS, 12"	570	FOOT	\$29.60	628	58	\$1,716.80	Quantity change related to Ahrens sewer redesign
	PIPE CULVERTS, 15"	204	FOOT	\$32.00	337	133	\$4,256.00	Quantity change related to Ahrens sewer redesign
	DETECTABLE WARNINGS	76	SQFT	\$8.00	86	10	\$80.00	New pay item related to Ahrens sewer
X1	CONNECTION TO MANHOLE AT ROOSEVELT	0	LS	\$10,363.04	1	10363	\$10,363.04	New pay item related to Ahrens sewer
X2	MANHOLE LINER	0	LS	\$12,296.46	1	12296	\$12,296.46	New pay item related to Ahrens sewer
X3	RELOCATE FIRE HYDRANT AND AUXILIARY VALVE	0	LS	\$1,722.96	1	1723	\$1,722.96	New pay item related to Ahrens sewer
X4	RELOCATE WATER VALVE AND VAULT	0	LS	\$2,151.04	1	2151	\$2,151.04	New pay item related to Ahrens sewer
X5	CONNECTION TO MANHOLE AT MORRIS	0	LS	\$7,478.64	1	7479	\$7,478.64	New pay item related to Ahrens sewer
X6	MANHOLES TO BE FILLED	0	EACH	\$1,281.38	3	3844	\$3,844.14	New pay item related to Ahrens sewer
X7	WATER SERVICE LINE 1" SPECIAL	0	LF	\$18.65	423	7889	\$7,888.95	New pay item related to Ahrens sewer
X8	WATER SERVICE LINE SLEEVE	0	LF	\$3.57	232	828	\$828.24	New pay item related to Ahrens sewer
X9	WATER MAIN REMOVAL 8 INCH	0	LF	\$32.80	70	2296	\$2,296.00	Time & material billing related to Ahrens sewer work
T&M1	SEWER CONNECTION & BYPASS PUMPING	0	LS	\$9,913.85	1	9914	\$9,913.85	Time & material billing related to Ahrens sewer work
T&M2	SEWER RECONNECTION	0	LS	\$4,121.10	1	4121	\$4,121.10	Time & material billing related to Ahrens sewer work
T&M3	SEWER REPAIR 950 E. MORRIS	0	LS	\$2,426.57	1	2427	\$2,426.57	Time & material billing related to Ahrens sewer work

Total

\$254,039.69