

Martin G. Buehler, P.E.  
Director of Transportation/County Engineer



Lake County

**Stearns School Road Bridge over I-94 Deck Resurfacing:  
Change Order No. 1 and Final**

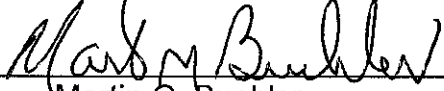
600 West Winchester Road  
Libertyville, Illinois 60048-1381  
Phone (847) 377-7400  
Fax (847) 362-5290

**TO:** Public Works and Transportation Committee  
Financial & Administrative Committee

**DATE:** October 7, 2009

**DATE:** October 7, 2009

**FROM:**

  
\_\_\_\_\_  
Martin G. Buehler  
County Engineer

**SUBJECT:** Change Order No. 1  
Section No. 07-00236-02-BR  
Lorig Construction, Des Plaines

Joint committee action item approving Change Order No. 1 for the Stearns School Road Bridge over I-94 in the amount of \$100,000 for the balance of the work, designated as Section No. 07-00236-02-BR.

- Change orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Stearns School Road Bridge project over I-94 is under an original awarded contract at bid unit prices totaling \$309,905.
- Reason for the change order is the necessity of several items to properly and safely complete the intended contract.
- Location of the electrical service for the proposed bridge signals was incorrectly shown on the plans. An additional run of cable & poles were necessary to get power to the signal.
- A protective shield under the bridge was not anticipated to be necessary until one lane of the existing bridge deck overlay was removed and the need for additional patching work was discovered. The Illinois Tollway requires this protective shield if work other than just removal and replacement of the overlay is done.
- An estimated amount is also included to address the patching discovered on this stage as well as under the second lane width to be taken off in the next stage of the project.
- The original appropriation of \$325,000 of County Bridge Tax funds will need to be increased \$100,000 to cover this change order

**Summary:**

Original awarded contract at bid unit prices	\$309,905
Change Order No. 1	\$100,000
Sum of all changes	\$100,000



Request:	1	TOTALS	\$100,000.00	\$0.00
		NET CHANGE	\$100,000.00	\$0.00

Net ADDITION change to date \$100,000.00 which is 32.268 % of the contract price

State fully the nature and reason for change:

700. Plans show service connection for temporary bridge signals to be at west end of the bridge. There are not any ComEd facilities at that location to make the service connection. L.CDOT traffic requested that the service connection be made at the existing signal installation at Stearns School Road and North Creek Drive (E-mail attached). Contractor's proposal includes installation and removal of temporary aerial wire and poles to make this temporary connection. This is an estimate of costs.  
 701. Protective shield required to protect Tollway traffic from falling objects during hydroscarification and patching work. Tollway requires lane closures to accomplish this work. Contractor's estimate of cost attached. Protective shielding to extend over live lanes and shoulders.  
 702. Due to condition of the existing bridge deck additional patching anticipated. Associated costs include full depth and partial depth patching, reinforcement bar replacement, and additional Bridge Deck Latex Concrete Overlay material to fill in all depressions below the specified thickness. Estimated cost breakdown attached.

When the net increase or decrease in the cost of the contract is \$10,000 or more or the time of completion is increased or decreased by 30 days or more, one of the following statements shall be checked.

- X The undersigned determined that the circumstances which necessitated this change were not reasonably foreseeable at the time the contract was signed.
- The undersigned determined that the circumstances which necessitated this change were not within the contemplation of the contract as signed.

The undersigned determined that this change is in the best interest of the local agency and is authorized by law.

APPROVED

DEPARTMENT OF TRANSPORTATION

Approved \_\_\_\_\_

Made By S. Scott Aho Date 9-24-04

Checked By Stelena Peltier Date 9/30/09

County Engineer  
 On Behalf of IDOT pursuant to Agreement  
 of Understanding dated January 22, 2003

Approval Recommended \_\_\_\_\_ Date \_\_\_\_\_  
 County Engineer

BLR13210  
 Submit 3 copies of this form to Regional Engineer (4 copies for road district)  
 updated GP 5/21/08 (for use on projects with MFT funding)



9-29-09  
07-00236-02-BR  
Stearns School Road Bridge Deck Resurfacing  
Scott Aho

Explanation for Change Order

700. Contractor's estimate of time to accomplish work appears high based on work completed thus far.

Hecker

Estimate shows 3 men @ 8 hours for 3 days = 24 hrs/man for installation and removal

Actual time to install was approx 3 men @ 4 hours for 3 days = 12 hrs/man for installation

Estimate 3 men @ 4 hrs for 1 day to remove = 4 hrs/man

16 hrs per man/24 hrs per man = 67% for Hecker labor

Lorig

Flagging time estimate = 48 hrs for install and removal

Actual for install = 16 hrs

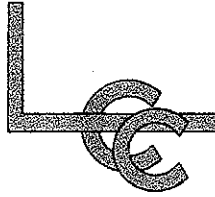
Estimate for removal = 16 hrs

32 hrs/48 hrs = 67% Lorig labor costs

Use \$15,000 as initial estimate of cost for this work.

700, TEMP ELECT SERV.

LORIG CONSTRUCTION COMPANY



250 East Touhy Ave • Des Plaines IL 60018  
Phone: 847/298-0360 • FAX: 847/ 298-2689

TIME & MATERIAL BILLING

PROJECT: STEARNS SCHOOL RD OVER I-94  
LAKE COUNTY DOT CONTRACT  
DATE: 8/2/09

DESCRIPTION OF WORK TO BE DONE: INSTALL TEMP. ELECTRICAL SERVICE TO TEMP TRAFFIC SIGNALS

TOTAL LABOR	\$4,559.74	$\times 0.67 = 3039$
TOTAL EQUIPMENT	\$70.47	
TOTAL MATERIAL	\$103.50	
TOTAL SUBCONTRACTOR	<u>\$15,734.25</u>	<i>0.67 Labor = <del>13,300</del> 13,300</i>
SUB-TOTAL	\$20,467.96	
BOND (0.5%)	<u>\$102.34</u>	
ESTIMATED TOTAL COST	<del>\$20,570.30</del>	<i>SAY <u>15000</u></i>

APPROVED \_\_\_\_\_  
Resident Engineer

APPROVED \_\_\_\_\_  
District Engineer

700

LORIG CONSTRUCTION COMPANY  
CHANGE ORDER ESTIMATE  
PROJECT: STEARNS SCHOOL RD OVER I-94  
LAKE COUNTY DOT CONTRACT  
DESCRIPTION OF WORK TO BE DONE: INSTALL TEMP ELECTRICAL SERVICE TO TEMP TRAFFIC SIGNALS

SUBCONTRACTOR CHARGES

SUBCONTRACTOR #1	DESCRIPTION OF WORK	QUANTITY	U/M	UNIT PRICE	TOTAL
HECKER	INSTALL/REMOVE TEMP TRAFFIC SIGNAL ELECTRICAL FEED				\$14,985.00

SUBCONTRACTOR #1 SUB-TOTAL : \$14,985.00  
\$14,985.00  
 PLUS 5 % : \$749.25  
 TOTAL SUBCONTRACTOR #1 \$15,734.25

SUBCONTRACTOR #2	DESCRIPTION OF WORK	QUANTITY	U/M	UNIT PRICE	TOTAL
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SUBCONTRACTOR #2 SUB-TOTAL : \_\_\_\_\_  
 PLUS 5 % : \_\_\_\_\_  
 TOTAL SUBCONTRACTOR #2 \_\_\_\_\_

SUBCONTRACTOR #3	DESCRIPTION OF WORK	QUANTITY	U/M	UNIT PRICE	TOTAL
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SUBCONTRACTOR #3 SUB-TOTAL : \_\_\_\_\_  
 PLUS 5 % : \_\_\_\_\_  
 TOTAL SUBCONTRACTOR #3 \_\_\_\_\_

TOTAL SUBCONTRACTOR #1 \$15,734.25  
 TOTAL SUBCONTRACTOR #2 \_\_\_\_\_  
 TOTAL SUBCONTRACTOR #3 \_\_\_\_\_  
 TOTAL SUBCONTRACTORS 1-3 \$15,734.25



Hecker And Company, Inc.

250 E. Industrial Lane  
Wheeling, IL 60090  
Ph : (847)459-9222

700

**Change Request**

To: Tim Riemersma  
Lorig Construction  
250 E. Touhy Ave.  
Des Plaines, IL 60018  
Ph: (847) 298-0360 x12 Fax: (847) 298-2689

Number: 1 R  
Date: 9/4/09  
Job: 9-269 Stearns School Rd & I-94 LCDOT  
Phone:

Description: Service Installation for Bridge Temporary Traffic Signal

At the request of the resident engineer, we submit the following lump sum price for the Service Installation for Bridge Temporary Traffic Signal. The price only includes the installation and removal of 850' of wire and wood poles from the SW quadrant of Stearns School Rd and N. Creek Drive. The existing traffic signal service will be used to feed the bridge temporary traffic signal.

Service Installation for Bridge Temporary Traffic Signal \$14,984.30 Lump Sum

Not Included: Bond, Traffic Control or Flagging(3 - 8hr days), Restoration, Lay out, Connection charges/costs

Note: The service connection at the bridge temporary traffic signal is not part of this proposal and is included in the Bridge temporary traffic signal.

If you have any questions, please contact me at (847) 459-9222.

Submitted by: Daniel Burke  
Hecker & Company

Approved by: \_\_\_\_\_  
Date: \_\_\_\_\_

Cc:



700

Stearns School Rd  
Lake County Department of Transportation

Backup #1

**TIME AND MATERIAL BACKUP:** Install and remove 850' of wire and poles for Bridge Temp Traffic Signal

LABOR	Name				Total		Rate	Insurance Amount	Payroll Amount
					S.T.	O.T.			
Foreman		22			22		\$ 46.43	\$ 1,021.46	\$ 1,021.46
Journeyman		24			22	2	\$ 39.85	\$ 956.40	\$ 996.25
Journeyman		24			22	2	\$ 39.85	\$ 956.40	\$ 996.25
<b>Subtotals, Labor:</b>								\$ 2,934.26	\$ 3,013.96

**Pension and Welfare Funds**

Foreman	22.0	@	\$ 25.27						\$ 555.98
Journeyman	48.0	@	\$ 21.69						\$ 1,041.14

Subtotal:									\$ 4,611.08
Plus 35%:									\$ 1,613.88
<b>Subtotals, Labor:</b>									\$ 6,224.95

Plus: Workmens Compensation Insurance			8.63%	of	\$ 2,934.26			\$ 253.23	
Pub. Liability & Prop. Damage			7.72%	of	\$ 3,013.96			\$ 232.68	
Federal Unemployment Tax			0.80%	of	\$ 3,013.96			\$ 24.11	
State Unemployment Tax			9.80%	of	\$ 3,013.96			\$ 295.37	
Federal Social Security Tax			7.65%	of	\$ 3,013.96			\$ 230.57	
<b>Total Payroll Additives:</b>								\$ 1,035.95	
						Plus 10% of	\$ 1,035.95	\$ 103.60	
								Subtotal:	\$ 1,139.55
								<b>TOTAL LABOR:</b>	\$ 7,364.50

X 0.67  
4933

**EQUIPMENT EXPENSE**

	QTY	UM	UNIT COST	TOTAL HOURS	RATE	AMOUNT
2006 Service Truck 4x2 1 1/2 ton, 360hp	22			22	\$ 27.67	\$ 608.74
1993 Digger Derrick 24K lift cap, Truck 56K lbs	16			16	\$ 102.69	\$ 1,643.04
1995 Aerial Bucket 75' 42K GVW	16			16	\$ 95.84	\$ 1,533.44
2007 Tag Trailer 12ton 2 Axle	16			16	\$ 4.63	\$ 74.08

**TOTAL EQUIPMENT:** \$ 3,859.30

**MATERIAL USED**

	QTY	UM	UNIT COST	EXTENSION
45' Wood Pole (Delivered)	4	EA	\$ 550.00	\$ 2,200.00
#4 Alum Triplex	900	Ft	\$ 0.75	\$ 675.00
1P -20A Breaker	1	EA	\$ 45.00	\$ 45.00
Sand Backfill	1	LS	\$ 350.00	\$ 350.00

**SUBTOTAL:** \$ 3,270.00

**PLUS 15%:** \$ 490.50

**TOTAL MATERIAL:** \$ 3,760.50

**TOTAL LABOR:** \$ 7,364.50

**TOTAL EQUIPMENT:** \$ 3,859.30

**TOTAL MATERIAL:** \$ 3,760.50

**TOTAL:** \$ 14,984.30

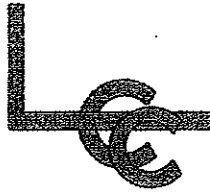
**TOTAL COST:** \$ 14,984.30

Not Included: Bond, Traffic Control or Flagging (3 - 8hr days), Restoration, Lay out, Connection charges/costs



701. Part SHIELDING

LORIG CONSTRUCTION COMPANY



250 East Touhy Ave • Des Plaines IL 60018  
Phone: 847/298-0360 • FAX: 847/ 298-2689

CHANGE ORDER ESTIMATE

PROJECT: LCDOT STEARNS SCHOOL ROAD

CONTRACT:

DATE:

DESCRIPTION OF WORK TO BE DONE: INSTALL & REMOVE PROTECTIVE SHIELD

ESTIMATED QTY = 244SY

TOTAL LABOR	\$28,788.39
TOTAL EQUIPMENT	\$4,837.20
TOTAL MATERIAL	\$1,262.70
TOTAL SUBCONTRACTOR	<u>\$10,080.00</u>
SUB-TOTAL	\$44,968.29
BOND (0.5%)	<u>\$224.84</u>
ESTIMATED TOTAL COST	\$45,193.13
UNIT PRICE PROPOSAL	\$185.22 /SY

EST ADDL COSTS (TOLLWAY + 5000

PERMITS, INSURANCE, ~~CALL~~

PAV. SHIELDING DESIGN, ETC

50,000

CONTINGENCY + 10,000

ESTIMATE \$ 60,000

701. PACT SHIELD

LORIG CONSTRUCTION COMPANY  
 CHANGE ORDER ESTIMATE  
 PROJECT: LCDOT STEARNS SCHOOL ROAD  
 CONTRACT:

DESCRIPTION OF WORK TO BE DONE: INSTALL & REMOVE PROTECTIVE SHIELD

	TOTAL HOURS		DT	RATE	INSURANCE AMOUNT	PAYROLL AMOUNT
	ST	OT				
CARPENTERS			32.0	\$40.77	\$1,304.64	\$2,609.28
CARPENTER FOREMAN			64.0	\$42.77	\$2,737.28	\$5,474.56
LABORERS	8.0	64.0		\$35.20	\$2,534.40	\$3,660.80
LABORER FOREMAN				\$37.20	\$0.00	\$0.00
CONSTRUCTION INSPECTOR				\$30.20	\$0.00	\$0.00
CONCRETE INSPECTOR				\$25.75	\$0.00	\$0.00
TECH ENGINEER				\$34.55	\$0.00	\$0.00
TECH ENGINEER FOREMAN				\$36.55	\$0.00	\$0.00
CRANE OPERATOR				\$46.30	\$0.00	\$0.00
OPERATORS CLASS 1	4.0			\$43.30	\$173.20	\$173.20
OPERATORS CLASS 2				\$42.75	\$0.00	\$0.00
CEMENT FINISHERS				\$41.85	\$0.00	\$0.00
CEMENT FIN FOREMAN				\$43.85	\$0.00	\$0.00
TEAMSTERS		40.0		\$33.25	\$1,330.00	\$1,995.00

SUB-TOTAL LABOR :

\$8,079.52      \$13,912.84

CARPENTERS PENSION & WELFARE	96.0 HRS @	\$20.32	\$1,950.72
LABORERS PENSION & WELFARE	72.0 HRS @	\$18.17	\$1,308.24
TECH ENGINEERS PENSION & WELFARE	0.0 HRS @	\$17.07	\$0.00
OPERATORS PENSION & WELFARE	4.0 HRS @	\$23.08	\$92.32
CEMENT FINISHERS PENSION & WELFARE	0.0 HRS @	\$18.76	\$0.00
TEAMSTERS PENSION & WELFARE	40.0 HRS @	\$12.43	\$497.20
			\$0.00
			\$0.00
			\$0.00

SUB-TOTAL LABOR AND UNION FRINGES: \$17,761.32

PLUS 35% OF \$17,761.32 \$6,216.46

\$23,977.78

WORKERS COMP INS	22.02% OF	\$8,079.52	\$1,779.11
PUBLIC LIAB. & DAMAGE INS	7.00% OF	\$6,749.52	\$472.47
FEDERAL UNEMPLOYMENT TAX	0.80% OF	\$13,912.84	\$111.30
STATE UNEMPLOYMENT TAX	6.80% OF	\$13,912.84	\$946.07
FICA & MEDICARE	7.65% OF	\$13,912.84	\$1,064.33

SUB-TOTAL INS AND TAXES: \$4,373.28

PLUS 10 % OF \$4,373.28 \$437.33

SUB-TOTAL ..... \$4,810.61

TOTAL LABOR : \$28,788.39

701

LORIG CONSTRUCTION COMPANY  
CHANGE ORDER ESTIMATE  
PROJECT: LCDOT STEARNS SCHOOL ROAD  
CONTRACT:

DESCRIPTION OF WORK TO BE DONE: INSTALL & REMOVE PROTECTIVE SHIELD

EQUIPMENT EXPENSE

YEAR	MAKE	CATEGORY	MODEL	NOTES	BLUE BOOK RATE	HOURS	TOTAL
2000	GROVE	LIFT SCISSOR	SM3884XT		\$29.16	32.00	\$933.12
2005	PETERBILT	TRK / TRLR	378		\$63.32	40.00	\$2,532.80
1996	GREAT DANE	TRK / TRLR	FLATBED TRAILER		\$11.61	40.00	\$464.40
2003	VOLVO	LOADER RUBBERTIRE	L-110E		\$62.88	4.00	\$251.52
2008	FORD	TRK / TRLR	F250		\$20.48	32.00	\$655.36

RENTAL EQUIPMENT

EQUIPMENT SUBTOTAL

\$4,837.20

SUBTOTAL RENTAL EQUIPMENT  
PLUS 5% OF ABOVE AMOUNT:  
RENTAL EQUIPMENT TOTAL  
TOTAL EQUIPMENT

\$4,837.20

701

LORIG CONSTRUCTION COMPANY  
CHANGE ORDER ESTIMATE  
PROJECT: LCDOT STEARNS SCHOOL ROAD  
CONTRACT:  
DESCRIPTION OF WORK TO BE DONE: INSTALL & REMOVE PROTECTIVE SHIELD

MATERIAL EXPENSE

DESCRIPTION	QUANTITY	U/M	UNIT PRICE	LCC USAGE CREDIT %	TOTAL	SOURCE
PROTECTIVE SHIELD MATERIALS	244.00	SY	\$4.50		\$1,098.00	STOCK MATL LCC USE COST

SUBTOTAL	<u>\$1,098.00</u>
+ 15 %	<u>\$164.70</u>
TOTAL MATERIALS	\$1,262.70

AFFIDAVIT

This is to certify that the material entered on this force account bill which was taken from stock is shown at our cost.

\_\_\_\_\_  
David H. Lorig President

Subscribed and sworn to before me this

\_\_\_\_\_ day of \_\_\_\_\_

\_\_\_\_\_

LORIG CONSTRUCTION COMPANY  
 CHANGE ORDER ESTIMATE  
 PROJECT: LCDOT STEARNS SCHOOL ROAD  
 CONTRACT:

701

DESCRIPTION OF WORK TO BE DONE: INSTALL & REMOVE PROTECTIVE SHIELD

SUBCONTRACTOR CHARGES

SUBCONTRACTOR #1	DESCRIPTION OF WORK	QUANTITY	U/M	UNIT PRICE	TOTAL
TCP, INC.	2 LANE NIGHT CLOSURES	8.00	EA	\$1,200.00	\$9,600.00

SUBCONTRACTOR #1 SUB-TOTAL : \$9,600.00  
 \$9,600.00  
 PLUS 5 % : \$480.00  
 TOTAL SUBCONTRACTOR #1 \$10,080.00

SUBCONTRACTOR #2	DESCRIPTION OF WORK	QUANTITY	U/M	UNIT PRICE	TOTAL
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SUBCONTRACTOR #2 SUB-TOTAL : \_\_\_\_\_  
 PLUS 5 % : \_\_\_\_\_  
 TOTAL SUBCONTRACTOR #2 \_\_\_\_\_

SUBCONTRACTOR #3	DESCRIPTION OF WORK	QUANTITY	U/M	UNIT PRICE	TOTAL
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SUBCONTRACTOR #3 SUB-TOTAL : \_\_\_\_\_  
 PLUS 5 % : \_\_\_\_\_  
 TOTAL SUBCONTRACTOR #3 \_\_\_\_\_

TOTAL SUBCONTRACTOR #1 \$10,080.00  
 TOTAL SUBCONTRACTOR #2 \_\_\_\_\_  
 TOTAL SUBCONTRACTOR #3 \_\_\_\_\_  
 TOTAL SUBCONTRACTORS 1-3 \$10,080.00

701.

Description of work

Load & unload protective shield materials from Des Plains main yard

Loader and 2 laborers 1hrs / day

Crew to install & remove protective shield 4 nights

1 carpenter foreman with pickup truck

2 journeymen carpenters

2 laborers

1 teamster with semi and trailer ( teamster & semi additional 2 hours /shift travel time)



9-29-09  
07-00236-02-BR  
Stearns School Road Bridge Deck Resurfacing  
Scott Aho

Explanation for Change Order

702.

Add'l Latex Concrete estimate -  $7 \text{ CY} \times 590.00 \times 1.15 = 4750$

Full Depth Patching (Ty I) est -  $5 \text{ SY} \times 575/\text{SY} = 2875$

Full Depth patching (Ty II) est -  $15 \text{ SY} \times 525/\text{SY} = 7875$

Rebar repl est - 5000

Total 20500

X 10%

= 22,550

Say 25,000

After hydro-scarification the deck shall be vacuum cleaned in a timely manner before the water and debris are allowed to dry and re-solidify to the deck. The uses of alternative cleaning and debris removal methods to minimize driving heavy vacuum equipment over exposed deck reinforcement may be used subject to the approval of the Engineer.

- (2) Deck Patching. After bridge deck scarification, all designated patching, except as noted below, shall be completed according to the Special Provision for "Deck Slab Repair". All full depth patching shall be completed prior to final surface preparation. When hydro-scarification is specified, partial depth patches may be filled with overlay material at the time of overlay placement.

All patches placed prior to overlay placement shall be struck off and then roughened with a suitable stiff bristled broom or wire brush to provide a rough texture designed to promote bonding of the overlay. Hand finishing of the patch surface shall be kept to a minimum to prevent overworking of the surface.

After scarification, the deck shall be thoroughly cleaned of broken concrete and other debris. The Engineer will sound the scarified deck and all remaining unsound areas will be marked for additional removal and/or repairs as applicable. If the bottom mat of reinforcement is exposed, that area shall be defined as a full depth repair.

In areas where hydro-scarification is specified, No separate payment for partial depth patching will be made regardless of whether it was detailed in the plans or not. Just prior to performing hydro-scarification, the deck shall be sounded, with unsound areas marked on the deck to assist the hydro-scarification process in performing the partial depth removal simultaneously with the hydro-scarification operation. If in the opinion of the Engineer additional removal is required after the hydro-scarification process, which could not have been anticipated or accounted for by normal modifications to the scarification process, such removal shall be paid for according to Article 109.04. Any removal required or made below the specified depth for scarification of the bridge deck, which does not result in full depth patching, shall be filled with the overlay material at the time of the overlay placement.

Estimated  
Add'l  
Partial Depth  
+  
Full Depth  
Patching

702. Patching Extras

For a rapid set mortar mixture, one part packaged rapid set cement shall be combined with two parts fine aggregate, by volume; or a packaged rapid set mortar shall be used. For a rapid set concrete mixture, a packaged rapid set mortar shall be combined with coarse aggregate according to the manufacturer's instructions; or a packaged rapid set concrete shall be used. Mixing of a rapid set mortar or concrete shall be according to the manufacturer's instructions.

**Method of Measurement:** The areas of mechanical and/or hydro scarification on the bridge deck will be measured for payment in square yards (square meters). No additional payment will be made for multiple passes of the equipment required to achieve the specified scarification depth.

The concrete overlay will be measured for payment in square yards (square meters).

~~When Bridge Deck Hydro Scarification is specified, the additional concrete placed with the overlay, required to fill all depressions below the specified thickness will be measured for payment in cubic yards (cubic meters). The volume will be determined by subtracting the theoretical volume of the overlay from the ticketed volume of overlay delivered minus the volume estimated by the Engineer left in the last truck at the end of the overlay placement. The theoretical cubic yard (cubic meter) quantity for the overlay will be determined by multiplying the plan surface area of the overlay times the specified thickness of the overlay.~~

**Basis of Payment:** Concrete scarification of the bridge deck using mechanical scarification equipment will be paid for at the contract unit price per square yard (square meter) for CONCRETE BRIDGE DECK SCARIFICATION of the depth specified. Concrete scarification of the bridge deck using hydro-scarification equipment will be paid for at the contract unit price per square yard (square meter) for BRIDGE DECK HYDRO-SCARIFICATION of the depth specified.

~~Latex concrete overlay will be paid for at the contract unit price per square yard (square meter) for BRIDGE DECK LATEX CONCRETE OVERLAY, of the thickness specified. When hydro-scarification is specified, the additional volume of overlay required to fill all depressions below the specified thickness will be paid for at the Contractor's actual material cost for the latex concrete per cubic yard (cubic meter) plus 15 percent.~~

When mechanical scarification is specified, additional partial depth patches poured monolithically with the overlay will be paid for at the contract unit price bid per square yard (square meter) for DECK SLAB REPAIR (PARTIAL).

When the Engineer conducts pull-off tests on the overlay and they are acceptable, Contractor expenses incurred due to testing and for filling core holes will be paid according to Article 109.04. Unacceptable pull-off tests will be at the Contractor's expense.

**Re: Extra work at Stearns School**

Tim Riemersma [remersma@flash.net]

**Sent:** Friday, September 25, 2009 3:00 PM

**To:** Aho, Scott A.

**Cc:** john harling [johnharling@lorigconstruction.com]; dan burke [dan@heckerco.com]; andy leroux [leroux@flash.net]

scott: see below responses

dan: please respond at your earliest convenience

andy: please formulate unit price proposal for full depth deck slab repair as requested.

thanks,  
tim

**Tim Riemersma**  
**Lorig Construction Company**  
Office: 847-298-0360x312  
Cell: 847-774-0965  
e-mail: remersma@flash.net

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**From:** "Aho, Scott A." <SAho@lakecountyl.gov>  
**To:** "remersma@flash.net" <remersma@flash.net>  
**Cc:** "johnharling@lorigconstruction.com" <johnharling@lorigconstruction.com>  
**Sent:** Friday, September 25, 2009 1:56:35 PM  
**Subject:** Extra work at Stearns School

We need some costs and estimated costs for the extra work –

- Actual T&M for temp signal power so far **we will forward e-mail to hecker and request prompt invoice**
- Estimated T&M for removal temp signal power work **we will forward e-mail to hecker and request budget estimate**
- A material cost for the latex so we can estimate extra material that will be used to fill low areas **\$590.00/cy**
- AUP's for DECK REPAIRS – FULL DEPTH TY I = 5 SY and DECK REPAIRS TY II = 15 SY **suggest you use \$575/sy and \$525/sy for budget numbers; we will submit a detailed aup in near future or track on force account**
- I will use you previous Prot Shield submittal to estimate that cost
- I know there will be a cost for rebar replacement, but I don't have a good estimate for that cost **suggest you use \$5000/lb for budget number; this will have to be tracked on force account because there is not sufficient information to formulate aup**

We are trying to estimate the extra costs for this job. The extras will exceed 10% of the contract amount so we need to go to the County Board for approval

If you can get me this info early next week I can submit a Change Order.

Thanks,  
Scott