

Wadsworth Road at Downtown Wadsworth
LCDOT Change Order No. 2

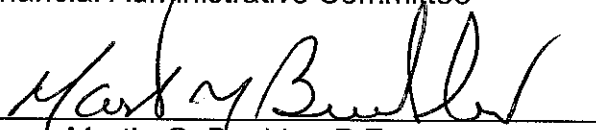
TO: Public Works and Transportation Committee
Financial Administrative Committee

Committee Action Meeting Date

DATE: January 11, 2012

DATE: January 11, 2012

FROM:


Martin G. Buehler, P.E.
County Engineer

SUBJECT: Change Order No. 2
Section No. 01-00033-10-ES

Joint Committee action item approving Change Order No. 2, consisting of an increase of \$ 67,873.16 for additions to the Wadsworth Road at Downtown Wadsworth, Engineering Services, designated as Section No.01-00033-10-ES.

- Wadsworth Road at Downtown Wadsworth, Engineering Services: LCDOT Change Order No.2
- Change Orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Wadsworth Road at Downtown Wadsworth project is under Engineering contract with Christopher Burke Engineering, Ltd, in the amount of \$245,026.21.
- Additional engineering services are being requested for several revisions to the original scope of work as detailed in the attached Supplement No. 2.

Summary:

Original awarded contract:	\$223,377.61
Change Order No.1:	\$ 21,648.60
Change Order No. 2:	<u>\$ 67,873.16</u>
Sum of all changes:	\$312,899.37

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval
of Change in Consultant Contract

Date: 12/21/2011 Local Agency: LAKE COUNTY
 Request: No. 2 Name: Wadsworth Road
 To: Department of Transportation at Downtown Wadsworth
 LCDOT/Schaumburg Section: 01-00033-10-ES
 Consultant: Christopher B. Burke Engineering

I recommend that an addition be made to the above consultant contract.

The estimated work is listed below

Original contract amount services described:	for	\$223,377.61
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Sum of all previous contract change orders:	\$21,648.60
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Item #	Description	Additions	Deductions
1	Task 18 - Pre-final plan revisions to reduce road width and match proposed sidewalk with existing	\$30,497.10	
2	Task 19 - Additional sidewalk on north side of Wadsworth Road	\$4,231.93	
3	Task 20 - Storm sewer video taping and analysis	\$17,278.98	
4	Task 21 - Redesign storm sewer outfall	\$4,401.95	
5	Task 22 - USACE permit application and submittal	\$4,980.27	
6	Task 23 - Additional SMC submittal documents	\$2,999.09	
7	Task 24 - Additional plats for sidewalk easements	\$3,483.84	
TOTALS		\$67,873.16	\$0.00
NET CHANGE		\$67,873.16	\$0.00

Net ADDITION change to date \$89,521.76 which is 40.08 % of the original contract amount for services described

State fully the nature and reason for change:

Please see attached.

Revised contract amount services described:	for	\$312,899.37
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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.

_____ 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.

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

Project Engineer Helena Sultin Date 12/23/11

Engineer of Design Michael D. Zmatt Date 12/23/11

Approval Recommended Mark of Beech Date 1/4/12
County Engineer

Scope of Services

CBBEL understands that LCDOT has decided to modify the typical section to narrow to proposed roadway and move the proposed sidewalk 1' farther away from the existing ROW based on comments received at the Public Meeting. In addition LCDOT would like the CBBEL to add sidewalk to the north side of Wadsworth Road from Caroline Avenue to St. Patrick's Church at the request of the Village of Wadsworth. Also, it is understood that LCDOT would like to have the existing sewer system videotaped to determine the locations of all connections to eliminate the potential for delays during construction. We are proposing the following services to assist in completion of these project requirements:

Task 18 - Pre-Final Plan Revisions for Narrower Roadway

CBBEL will revise proposed plan to narrow the reconstruction section by eliminating the 4' wide on-street bike lane and adding a 3' wide bike friendly shoulder in its place. The parkway and sidewalk widths will remain the same moving the sidewalk 1' farther from the existing ROW. This will affect 1 Typical Section sheet.

This revisions will also be reflected on the Plan-Profile sheets. The plan geometry will be redrawn and relabeled from the west project limits to Cashmore Road where the proposed sidewalk on the south side of the road ends. This affects all 5 plan-profile sheets and the first plan-plan sheet.

The storm sewer system will be adjusted to reflect the revised curb location. The graphics will be changed on the Drainage Plan-Profile sheets. Structure offsets, inverts, rim elevations, pipe lengths and trench backfill quantities will be revised in the pipe and structure schedules. This will affect 3 drainage plan-profile sheets.

The Erosion Control Plans will be revised to reflect the revision. This includes patterning for Erosion Control Blanket and the locations of Inlet Filters and Inlet Protection (Special). 2 Erosion Control Plan sheets will be affected.

The Pavement Marking Plans will be revised to reflect the revision. All bike lane markings and call outs will be removed. 1 Pavement Marking Plan sheet will be affected.

The Cross Sections will be revised to reflect the revision. The cross sections will be redrawn, the proposed edge of pavement offsets and elevations will be revised and the CUT/FILL/TOPSOIL PLACEMENT areas will be for each affected cross section. The proposed ditches, parkway and driveway slopes will be revised outside the limits of reconstruction where new sidewalk is being added. The construction limits will be adjusted based on the revised cross sections and redrawn in the Removal Plans, Plan-Profile sheets and Drainage Plan-Profile sheets. 115 cross section (28 sheets) will be affected.

Schedules and the Summary of Quantities will be revised to reflect the revision. 17 of the 27 schedules and 28 individual quantities will be affected.

Task 19 - Additional Sidewalk North Side of Wadsworth Road

CBBEL will design a new sidewalk on the north side of Wadsworth Road from Caroline Avenue to St. Patrick's Church. This will be shown on all appropriate sheets. The new sidewalk will be labeled on the Typical Sections, the Plan-Profile sheets and on the Cross Sections. The drainage will be revised accordingly. Specifically, the ditch and drainage structures along the Village owned parcel will be modified to be outside the existing ROW and will be maintained by the Village after construction is complete. CBBEL will complete a Right-of-Entry form for access onto Village property for the ditch grading and the construction of the drainage structures and storm sewer. It is assumed that LCDOT will prepare an Intergovernmental Agreement for the ownership and maintenance responsibility of the storm sewer on Village property.

Task 20 - Sewer Videotaping and Analysis

It is understood that LCDOT would like the existing sewer system videotaped to locate all connections into the system to prevent delays during construction that would result from unknown connections. CBBEL will retain a plumbing company as a sub-consultant to perform this work which will include cleaning of the existing system adequately enough to determine all connections. The video will be correlated to lengths for positive locations. CBBEL will analyze the tapes and transfer the locations of all newly discovered connections into plan view for reference during construction. Videos will be provided to LCDOT for record in a format that is viewable with common software.

Task 21 - Storm Sewer Outfall Redesign

CBBEL will redesign the west end of the proposed storm sewer to bypass the existing 24" storm sewer to the existing outfall south of the project along the railroad ROW. The new outfall will be at the Des Plaines River on the south side of Wadsworth Road.

Task 22 - USACE Permit Application Preparation and Submittal

As federally jurisdictional wetland/waters of the U.S. are proposed to be impacted by the project, we will compile the required exhibits, specifications, data and project information into a Regional Permit 3 application package to the USACE. We will coordinate development of the documents with LCDOT and other project team members. This task includes time for follow up with USACE.

Task 23 - Additional SMC Submittal Work

CBBEL will calculate the new impervious area for the additional sidewalk to verify that it is under 1.5 acres/linear mile. The project also impacts the floodplain and floodway of the Des Plaines River. The required floodplain and floodway calculations will be prepared to verify that the project meets the applicable requirements of the Lake County Watershed Development Ordinance (WDO). As the project requires wetland/waters of the U.S. impacts,

we will compile the required exhibits, specifications, data and project information into the Wetland Submittal section of the Watershed Development Permit Submittal in accordance with Article IV, Section E.2.c of the WDO.

Task 24 – Additional Plats for Sidewalk Easements

CBBEL will retain McClure Engineering to complete 3 additional Plats for easement required to construct the proposed sidewalk west of Caroline Avenue on the north side of Wadsworth Road.

Client Lake County Division of Transportation
 Firm Christopher B. Burke Engineering, Ltd.
 Route Wadsworth Road
 Section 01-00033-10-ES
 County Lake
 Job No. _____
 PTB & Item _____

Cost Estimate of
 Consultant Services
 (CPFF)

Date 12/14/11
 Overhead Rate 146.48%
 Complexity Factor 0

Item	Manhours	Payroll	Overhead & Fringe Benefits	In-House Direct Costs	Fixed Fee	Outside Direct Costs	Services By Others	Total	% of Grand Total
Task 18 - Pre-Final Plan Revisions for Narrower Road	224	\$10,806.16	\$15,828.86		\$3,862.08			\$30,497.10	44.93%
Task 19 - Additional Sidewalk North Side Wadsworth Road	32	\$1,499.52	\$2,196.50		\$535.92			\$4,231.93	6.24%
Task 20 - Sewer Videotaping and Analysis	16	\$807.52	\$1,182.86		\$288.60		\$15,000.00	\$17,278.98	25.46%
Task 21 - Storm Sewer Outfall Redesign	32	\$1,559.76	\$2,284.74		\$557.45			\$4,401.95	6.49%
Task 22 - USACE Permit Application and Submittal	36	\$1,764.68	\$2,584.90		\$630.69			\$4,980.27	7.34%
Task 23 - Additional SMC Submittal Work	24	\$1,062.68	\$1,556.61		\$379.80			\$2,999.09	4.42%
Task 24 - Additional Plats for Sidewalk Easements	4	\$171.44	\$251.13		\$61.27		\$3,000.00	\$3,483.84	5.13%
TOTALS	368	\$17,671.76	\$25,885.59	\$0.00	\$6,315.82	\$0.00	\$18,000.00	\$67,873.16	100.00%

Client Lake County Division of Transportation

Average Hourly Project Rates

Route Wadsworth Road

Section 01-00033-10-ES

County Lake

Consultant Christopher B. Burke Engineering, Ltd.

Date 12/14/11

Sheet 1 OF 2

PTB/item

Payroll Classification	Avg Hourly Rates	Total Project Rates			Task 18 - Pre-Final Plan Revisions for Narrower Road			Task 19 - Additional Sidewalk North Side Wadsworth Road			Task 20 - Sewer Videotaping and Analysis			Task 21 - Storm Sewer Outfall Redesign			Task 22 - USACE Permit Application and Submittal		
		Hours	%	Wgtd Avg	Hours	%	Wgtd Avg	Hours	%	Wgtd Avg	Hours	%	Wgtd Avg	Hours	%	Wgtd Avg	Hours	%	Wgtd Avg
Principal	70.00																		
Engineer VI	70.00																		
Engineer V	57.69	118	32.07%	18.50	80	35.71%	20.60	8	25.00%	14.42	8	50.00%	28.85	12	37.50%	21.63	4	11.11%	6.41
Engineer IV	46.86	0																	
Engineer III	38.31	24	6.52%	2.50	16	7.14%	2.74							8	25.00%	9.58			
Engineer I/II	31.01	0																	
Env. Res. Spec. V	58.50	20		0.00															
Env. Res. Spec. IV	45.75	0																	
Env. Res. Spec. III	39.10	16	4.35%	1.70															
Env. Res. Spec. II	30.75	0																	
Env. Res. Technician	31.75	0																	
Env. Res. Spec. I	46.00	0																	
Landscape Architect	68.50	0																	
Survey V	49.25	0																	
Survey IV	47.00	0																	
Survey III	31.33	0																	
Survey II	27.33	0																	
Survey I	48.50	16	4.35%	2.11	8	3.57%	1.73												
Cad Manager	43.25	164	44.57%	19.27	120	53.57%	23.17	24	75.00%	32.44	8	50.00%	21.63	8	25.00%	12.13	4	11.11%	4.81
Asst. Cad Manager	40.16	0																	
Cad II	30.00	0																	
Cad I	60.00	0																	
Engineering Tech V	46.17	0																	
Engineering Tech IV	40.62	0																	
Engineering Tech III	27.68	0																	
Engineering Tech I/II	38.00	0																	
GIS Specialist III	21.50	0																	
GIS Specialist I/II	28.03	10	2.72%	0.76															
Administrative		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		368	95%	\$44.84	224	100%	\$48.24	32	100%	\$46.86	16	100%	\$50.47	32	100%	\$48.74	36	100%	\$49.02

Client Lake County Division of Transportation

Route Section Wadsworth Road

County Lake

Job No. _____

PTB/Item _____

Average Hourly Project Rates

Consultant Christopher B. Burke Engineering, Ltd.

Date 12/14/11

Sheet 2 OF 2

Payroll Classification	Avg Hourly Rates	Task 23 - Additional SMC Submittal Work			Task 24 - Additional Plats for Sidewalk Easements			Task 25 - Additional Plats for Sidewalk Easements			Task 26 - Additional Plats for Sidewalk Easements			Task 27 - Additional Plats for Sidewalk Easements		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	70.00															
Engineer VI	70.00															
Engineer V	57.69	4	16.67%	9.62	2	50.00%	28.85									
Engineer IV	46.86															
Engineer III	38.31															
Engineer I/II	31.01															
Env. Res. Spec. V	58.50	4	16.67%	9.75												
Env. Res. Spec. IV	45.75															
Env. Res. Spec. III	39.10	8	33.33%	13.03												
Env. Res. Spec. II	30.75															
Env. Res. Technician	31.75															
Landscape Architect	46.00															
Survey V	68.50															
Survey IV	49.25															
Survey III	47.00															
Survey II	31.33															
Survey I	27.33															
Cad Manager	48.50															
Asst. Cad Manager	43.25	4	16.67%	7.21												
Cad II	40.16															
Cad I	30.00															
Engineering Tech V	60.00															
Engineering Tech IV	46.17															
Engineering Tech III	40.62															
Engineering Tech I/II	27.68															
GIS Specialist III	38.00															
GIS Specialist I/II	21.50															
Administrative	28.03	4	16.67%	4.67	2	50.00%	14.02									
TOTALS		24	100%	\$44.28	4	100%	\$42.86	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME
PRIME/SUPPLEMENT

Christopher B. Burke Engineering, Ltd.

DATE 12/14/11
PTB NO. _____

CONTRACT TERM
START DATE
RAISE DATE

4 MONTHS
09/01/11
01/01/12

OVERHEAD RATE 146.48%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

ESCALATION PER YEAR

9/1/2011 - 01/01/12
4
4

= 100.00%
= 1.0000

The total escalation for this project would be: 0.00%

PAYROLL RATES

FIRM NAME
PRIME/SUPPLEMENT
PTB NO.

Christopher B. Burke Engineering, Lt

DATE 12/14/11

ESCALATION FACTOR

0.00%

CLASSIFICATION	CURRENT RATE	ESCALATED RATE
Principal	\$70.00	\$70.00
Engineer VI	\$70.00	\$70.00
Engineer V	\$57.69	\$57.69
Engineer IV	\$46.86	\$46.86
Engineer III	\$38.31	\$38.31
Engineer I/II	\$31.01	\$31.01
Env. Res. Spec. V	\$58.50	\$58.50
Env. Res. Spec. IV	\$45.75	\$45.75
Env. Res. Spec. III	\$39.10	\$39.10
Env. Res. Spec. II	\$30.75	\$30.75
Env. Res. Technician	\$31.75	\$31.75
Landscape Architect	\$46.00	\$46.00
Survey V	\$68.50	\$68.50
Survey IV	\$49.25	\$49.25
Survey III	\$47.00	\$47.00
Survey II	\$31.33	\$31.33
Survey I	\$27.33	\$27.33
Cad Manager	\$48.50	\$48.50
Asst. Cad Manager	\$43.25	\$43.25
Cad II	\$40.16	\$40.16
Cad I	\$30.00	\$30.00
Engineering Tech V	\$60.00	\$60.00
Engineering Tech IV	\$46.17	\$46.17
Engineering Tech III	\$40.62	\$40.62
Engineering Tech I/II	\$27.68	\$27.68
GIS Specialist III	\$38.00	\$38.00
GIS Specialist I/II	\$21.50	\$21.50
Administrative	\$28.03	\$28.03