

Winchester Road at West County Farm Road
LCDOT Change Order No. 1

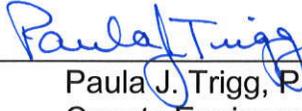
Committee Action Meeting Date

TO: Public Works and Transportation Committee
Financial Administrative Committee

DATE: January 9, 2013

DATE: January 9, 2013

FROM:


Paula J. Trigg, P.E.
County Engineer

SUBJECT: Change Order No. 1
Section No. 10-00151-22-CH

Joint Committee action item approving Change Order No. 1 Consisting of an increase of \$44,480.90 for additions to the Winchester Road at West County Farm Road, Engineering Services, designated as Section No. 10-00151-22-CH.

- Winchester Road at West County Farm Road, Engineering Services: LCDOT Change Order No. 1
- Change Orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Winchester Road at West County Farm Road, project is under contract with Manhard Consulting, Ltd., in the amount of \$ 167,245.79.
- Additional engineering services are being requested for several revisions to the original scope of work as detailed in the attached Supplement No.1.

Summary:

Original awarded contract:	\$167,245.79
Change Order No. <u>1</u> :	\$ 44,480.90
Sum of all changes:	\$ 44,480.90

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval
of Change in Consultant Contract

Date: 12/19/2012 Local Agency: LAKE COUNTY
 Request: No. 1 Name: Winchester Road at West County Farm Road
 To: Department of Transportation LCDOT / SCHAUMBURG Section: 10-00151-22-CH
 Consultant: Manhard Consulting, Ltd.

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

The estimated work is listed below

Original contract amount for services described:	\$167,245.79
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Sum of all previous contract change orders:	\$0.00
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Item #	Description	Additions	Deductions
1	Significant increase in the analysis, modeling and calculations for the required flood plain compensation and subsequent IDNR permit. Additionally unanticipated changes to the project scope including additional revisions to the preliminary alternatives, increased project area along West County Farm Road and including the relocation of the County's Fiber Optic Line.	\$44,480.90	
TOTALS		\$44,480.90	\$0.00
NET CHANGE		\$44,480.90	\$0.00

Net ADDITION change to date \$44,480.90 which is 26.60 % of the original contract amount for services described

State fully the nature and reason for change:

Revised contract amount for services described:	\$211,726.69
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Please see 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.

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 12/20/12

Paula Trigg
Regional Engineer

County Engineer

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

Project Engineer *Russell* Date 19 Dec 2012

Engineer of Design *Michael D Z...* Date 12/19/12

Approval Recommended *Paula Trigg* Date 12/20/12
County Engineer



Civil Engineering

Surveying

Water Resources Management

Water & Wastewater Engineering

Supply Chain Logistics

Construction Management

Environmental Sciences

Landscape Architecture

Planning

December 19, 2012

Mr. Rich McMorris, P.E.
Project Engineer
Lake County Division of Transportation
600 West Winchester Road
Libertyville, Illinois 60048

**RE: WINCHESTER ROAD IMPROVEMENTS
SECTION 10-00151-22-CH
LIBERTYVILLE, ILLINOIS
SUPPLEMENTAL ENGINEERING SERVICES**

Dear Mr. McMorris:

In the course of the work for this project, several items have resulted in the need for Manhard Consulting to provide supplemental services beyond the original scope of work as outlined in the attached Exhibits.

The requested Supplemental Engineering Services amount is \$44,480.90, which is 26.6% of the original contract amount of \$167,245.79, resulting in a revised total contract amount of \$211,726.69.

Should you have any questions, please do not hesitate to contact us.

Yours truly,
Manhard Consulting, Ltd.

A handwritten signature in blue ink that reads 'Richard Willman'.

Richard Willman, P.E.
Highway Project Manager

RW/LCDOT121912LS110124/Cor



Exhibit 1 – Supplemental Engineering Services – Scope of Services

Item 1 – Revisions to Preferred Alternate

Manhard was requested to prepare exhibits and attend an additional review meeting to discuss revisions to the Preferred Alternate. Manhard was requested to revise portions of the Preferred Alternate, provide revised Alternate Exhibits and revise the Preliminary Plans.

Item 2 – Compensatory Storage Analysis and Design of Relocated Bike Path

The proposed widening of Winchester Road and relocation of the Butler Park entrance requires filling of the Bull Creek floodplain. When the floodplain is filled, a compensatory volume of floodplain storage must be provided to offset the filled area somewhere else within the watershed. The analysis required to determine the amount of floodplain fill and where to provide the compensatory storage could not begin until detailed design of the project began and the extent of the analysis has exceeded the initial scope of work.

Initial analysis focused on the Village's park property along Bull Creek adjacent to Winchester Road and the Park's parking lot. Several alternates were analyzed to meet the requirements including relocation of the Village's Bike Path adjacent to Bull Creek, use of retaining wall along Winchester Road, realigning the sidewalk along the park entrance road and analysis to confirm no impact to existing ball field and electronic scoreboard. However, Village review of the alternates found the extent of work to be too intrusive on the park and analysis at another location was required. The Village and Lake County DOT met and agreed a suitable location for the compensatory storage is possible within the park, approximately 1,100 feet south of Winchester Road and 450 feet north of Lake Street.

Supplemental work will be required for topographic survey of the physical features at the Lake Street Compensatory Storage area, revision of the Winchester Road Drainage Design Report for the new compensatory location at Lake Street, and revision of the Winchester Road plans. In addition, The County has requested a separate set of plans be prepared for the construction of the new compensatory storage area.

Item 3 – Illinois Department of Natural Resources (IDNR) Permitting

Consultation with the IDNR/OWR determined a permit for work within the Bull Creek floodplain would be required in addition to the Lake County Stormwater Management Commission's permit (LCSMC). Supplemental work for IDNR permitting includes verification of a hydraulic model of Bull Creek prepared by the Army Corps of Engineers and provided by LCSMC, modify the model for the proposed conditions and analysis of results to minimize hydraulic impacts. Exhibits, report and coordination will be required.

Item 4 – Extension of Improvements along County Access Road

Manhard was requested to include in the plans an additional 500 feet of improvements of the County Access Road to match into the ongoing improvements currently occurring within the County complex. Detailed topographic survey was not requested; however topographic information was to be derived from plans for the County complex, aerial photos and a field investigation. Supplemental work to review plans and aerial photos for topographic information, develop plan views of topography, field visit to confirm topographic details, preparation of 1 new plan and profile sheet and 3 new cross section sheets, preparation of an additional typical section, and additional quantity calculations will be required.

Item 5 – Relocate County's Fiber Optic Line

Manhard was requested to include in the plans a relocation of approximately 1,000 feet of the County's Traffic Signal Fiber Optic cable. Included in the plans will be new sheets for a temporary plan to keep the cable in service during the relocation. Supplemental work to investigate conflicts and modify profiles, cross sections, details, quantities and special provisions will be required.

EXHIBIT 2 - SUPPLEMENTAL ENGINEERING SERVICES - MANHOUR AND FEE CALCULATIONS

TASK	MANHOURS						
	PROJECT MANAGER	PROJECT ENGINEER	CADD	PROJECT SURVEYOR	PARTY CHIEF	INSTRUMENT MAN	
1 Revisions to Preferred Alternate							
-Prepare for and attend additional Alternates Review meeting	3	3					
-Revise Alternate Exhibits per comments of additional Alternates Review meeting	2	2	2				
-Revise Preliminary Plans per comments of additional Alternates Review meeting	2	8	8				
-Project Administration / Coordination	2						
Subtotal Item 1	9	13	10				
2 Compensatory Storage Analysis							
-Iterative alternate analysis south of Winchester for acceptable comp storage volume	16	80					
-Topographic Survey of physical items at Lake St Comp Storage Area		1	3	5	8	8	
-Review/reformat information Comp Storage information from County	4	8	4				
-Revise Drainage Design Report for Lake St Comp Storage Area	2	16					
-Revise Winchester Road plans for revised Comp Storage locations	4	32	24				
-Prepare Separate Plan Set for Lake St Comp Storage Area	4	40	24				
-Project Administration / Coordination / Meetings	8	16					
Subtotal Item 2	38	193	55	5	8	8	
3 Illinois Department of Natural Resources Permitting							
-Hydraulic Analysis of Bull Creek	6	36	6				
-Prepare exhibits and reports	2	36	12				
-IDNR Floodway Construction Permit	2	25	4				
-IDNR Respond to comments	2	10	2				
-Project Administration / Coordination / Meetings	4	4					
Subtotal Item 3	16	111	24	0	0	0	
4 Extension of Improvements along County Access Road							
-Review of plans, aerials and Field investigation to add additional topographic information.		4					
- Prepare additional Plan & Profile sheet, Cross Section sheets, typical section and additional quantities		16	8				
Subtotal Item 4	0	20	8	0	0	0	

EXHIBIT 2 - SUPPLEMENTAL ENGINEERING SERVICES - MANHOURLY AND FEE CALCULATIONS

TASK	MANHOURS				
	PROJECT MANAGER	PROJECT ENGINEER	CADD SURVEYOR	PROJECT CHIEF	INSTRUMENT MAN
5 Relocate County's Fiber Optic Line					
-Include in Plan-Profile sheets, Cross Sections, Details, Quantities, Special Provisions	1	12	8		
-Review for conflicts		4			
Subtotal Item 5	1	16	8	0	0
Total Hrs	64	363	105	5	8
Rate	\$38.03	\$29.58	\$24.28	\$32.89	\$28.96
Total Salary	\$2,433.92	\$10,441.74	\$2,549.40	\$164.45	\$231.68

Direct Salaries	\$16,052.87
Payroll & Overhead (1.42)	\$22,795.08
Fixed Fee (14.5%)	\$5,632.95
Total	\$44,480.90

Original Contract Amount (\$167,245.79) (26.6%)
Revised Contract Amount (\$211,726.69)