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March 12th, 2021

Mr. Matthew Emde
Project Manager/Principal Engineer
Lake County Division of Transportation
600 West Winchester Rd
Libertyville, Illinois 60048

RE: Design Engineering Services for Fairfield Road at Monaville Road Intersection Improvements

Dear Mr. Emde:

Benesch has prepared the below summary and attached Change Order request for additional services related to the design of improvements to the intersection of Fairfield Road at Monaville Road in Lake County. The below services are required for completion of the project and were not included in the original scope of services for the design contract.

Force Main Easement Vacation Document Preparation – 48 hours

This work includes preparation of an Abrogation of Easement word document which includes the legal description of the easement as well as an exhibit showing the easement to be vacated. Easement will be prepared, and comments addressed as required. This work does not include legal services or recording of documents. Scope also covers increased complexity and multiple coordination meetings required for the design of the force main relocation due to the Village restrictions for maintaining operations which was not anticipated in the original scope.

ESR Submittal & IDOT Coordination – 24 hours

This work includes preparation of an updated ESR exhibit, submittal to IDOT, updating of the Wetland Impact Evaluation, and follow-up coordination with Bureau of Local Roads and Streets. It also includes preparation of exhibits and minutes, presentation of the project to IDOT Detour Committee, and incorporation of the Detour Committee comments.

Land Acquisition – Septic and Driveway Regrading – 36 hours

This work includes addressing comments on grading and materials for the property at the southeast corner of the intersection and updating plans to align with final negotiations. Regrading of the property and coordination with Mellen Septic Services was required to meet septic needs. Additionally, the property owner requested adjustments to both the residential and commercial driveways. These revisions resulted in the creation of multiple exhibits showing modified cross sections, plan view grading sheets, as well as the incorporating the changes into the underlying terrain to generate the contours.

MTJ Scope Reduction

The original scope for MTJ included review of prefinal pavement marking and signage, which was not required due to use of LCDOT standards. A reduction of the unspent MTJ contract value is included in this Change Order.

Contract Document Changes for March 2021 Letting – 80 hours

This work includes additional administration, preparation of and updating of plan and specification documents due to the delay in letting to March 2021. Pavement marking plans were prepared in accordance to LCDOT standards for the original letting date. Due to the delay in letting significant changes to the plans and quantities were required. Updating to this new standard, implemented in fall 2020, required detailed call-out changes for sizes and materials, specification revisions, updates to legends, splitting, re-calculating and re-checking quantities and also updating the various

pavement marking schedules. Additional quality checks on all documents were completed to meet 2021 letting standards. These changes represent an increase of \$22,493.69 to the design contract.

We appreciate the opportunity to work with the Lake County Division of Transportation. Please contact Jill Hayes, P.E., Project Manager, at jhayes@benesch.com with any questions.

Regards,



Andrew J. Keaschall
Senior Vice President
Illinois Division Manager

COST ESTIMATE OF CONSULTANT SERVICES

Sheet: 1 of 1

Project: Fairfield Road at Monaville Road - Phase II

Section: 15-00120-06-CH

Firm: ALFRED BENESCH & COMPANY

Change Order #1

Change Order #2

Date: July 30, 2019

County: Lake County

Overhead Rate: 159.64

Complexity Factor: 0

Job No.: _____

Estimate Prepared By: _____

CPFF Formula: 14.5% (DL+(R*DL)+(OH*DL)+IHDC)

Item	Number of Staff hours (A)	Estimated Cost In Dollars					Profit (F)	Ineligible Direct Costs (D1)	Services By Others* (G)	Total (H)	Percent Of Grand Total (I)
		Adjusted Hourly Rate (A1)	Payroll (B)	Overhead Fringe Benefits (C)	Eligible Direct Costs (D)	Subtotal (E)					
PROJECT TASKS											
1 Project Coordination	122	45.00	5,490.00	8,764.24	635.00	14,889.24	2,158.94	0.00		17,048.18	2.88
IDOT Coordination	24	48.00	1,152.00	1,839.05	0.00	2,991.05	433.70	1.00		3,425.76	0.58
2 Civil Plans	1,560	42.00	65,520.00	104,596.13	0.00	170,116.13	24,666.84	0.00		194,782.97	32.86
Additional Design and Plan Sheets	220	42.00	9,240.00	14,750.74	0.00	23,990.74	3,478.66	0.00		27,469.39	4.63
Force Main Design	100	42.00	4,200.00	6,704.88	6,538.66	17,443.54	2,529.31	1.00		19,973.85	3.37
Force Main Vacation & Meetings	48	48.00	2,304.00	3,678.11	0.00	5,982.11	867.41	0.00		6,849.51	1.16
3 Lighting Plans	164	42.00	6,888.00	10,996.00	0.00	17,884.00	2,593.18	0.00		20,477.18	3.45
4 Landscaping Plans	128	42.00	5,376.00	8,582.25	0.00	13,958.25	2,023.95	0.00		15,982.19	2.70
5 Submittals	42	42.00	1,764.00	2,816.05	7,080.00	11,660.05	1,690.71	0.00		13,350.76	2.25
Change to LCDOT Letting	40	42.00	1,680.00	2,681.95	-3,120.00	1,241.95	180.08	0.00		1,422.04	0.24
Letting Delay	80	45.00	3,600.00	5,747.04	0.00	9,347.04	1,355.32	0.00		10,702.36	1.81
6 Quality Assurance	68	45.00	3,060.00	4,884.98	0.00	7,944.98	1,152.02	0.00		9,097.01	1.53
7 Administration	124	45.00	5,580.00	8,907.91	0.00	14,487.91	2,100.75	0.00		16,588.66	2.80
Extended Duration	48	50.00	2,400.00	3,831.36	0.00	6,231.36	903.55	0.00		7,134.91	1.20
8 Survey, Plats & Legals	428	45.00	19,260.00	30,746.66	815.00	50,821.66	7,369.14	0.00		58,190.81	9.82
9 Preliminary Site Investigation (Huff & Huff)	8	45.00	360.00	574.70	125.00	1,059.70	153.66	0.00	21,277.60	22,490.96	3.79
CCDD Testing and Update									3,572.77	3,572.77	0.60
10 Drain Tile Investigation (Hey & Assoc)	8	45.00	360.00	574.70	125.00	1,059.70	153.66	0.00	6,575.00	7,788.36	1.31
11 Land Acquisition Services (MROWCO)	8	45.00	360.00	574.70	0.00	934.70	135.53	0.00	98,250.00	99,320.24	16.75
2 Parcel Reduction									-19,500.00	-19,500.00	-3.29
Septic Impact Assessment									3,500.00	3,500.00	0.59
Septic Design									2,505.00	2,505.00	0.42
Property Owner Coordination & Exhibits	40	45.00	1,800.00	2,873.52	0.00	4,673.52	677.66	0.00		5,351.18	0.90
Property Owner Coordination & Exhibits	36	45.00	1,620.00	2,586.17	0.00	4,206.17	609.89	0.00		4,816.06	0.81
12 Phase III Coordination	48	45.00	2,160.00	3,448.22	1,200.00	6,808.22	987.19	0.00		7,795.42	1.32
13 Phase I Geometry	120	45.00	5,400.00	8,620.56	35.00	14,055.56	2,038.06	0.00	19,876.00	35,969.62	6.07
MTJ Reduction - unused scope	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3,300.00	-3,300.00	-0.56
Sub-totals	3,464		149,574	238,780	13,434	401,788	58,259.20	2	132,756.37	592,805.19	100.0