

JUSTIFICATION FOR CHANGE

PROJECT: Clays Mill Road Improvements, Section 1

CONTRACT NO. 167-2015

CONTRACT MODIFICATION NO.: 2

1. Necessity for change: Throughout the design phase, LFUCG requested that CDP Engineers modify portions of the plans. These changes were beyond the original design scope. The Change Order addresses changes made to accommodate property owner requests, changes to the planned construction sequencing and miscellaneous design changes that typically arise as a project of this size develops. The Change Order also reflects additional property appraisals that were necessary in order to negotiate and obtain easements from certain property owners.
2. Is proposed change an alternate bid? ___Yes ___x___No
3. Will proposed change alter the physical size of the project? ___Yes ___x___No
If "Yes", explain.
4. Effect of this change on other prime contractors: N/A
5. Has consent of surety been obtained? ___Yes ___x___Not Necessary
6. Will this change affect expiration or extent of insurance coverage? ___Yes ___x___No
If "Yes", will the policies be extended? ___Yes ___No
7. Effect on operation and maintenance costs: N/A
8. Effect on contract completion date: N/A



 Mayor

OCT 11 2018

 Date

CONTRACT HISTORY FORM

Project Name: Clays Mill Road Improvements, Section 1

Contractor: CDP Engineers

Contract Number and Date: 167-2015 08/27/15

Responsible LFUCG Division: Engineering

CONTRACT AND MODIFICATION DETAILS

A. Original Contract Amount:	\$	<u>526,482.00</u>	
Next Lowest Bid Amount:			
B. Amount of Selected Alternate or Phase:	\$	<u> </u>	
C. Cumulative Amount of All Previous Alternates or Phases:	\$	<u>526,482.00</u>	
D. Amended Contract Amount:	\$	<u>526,482.00</u>	
E. Cumulative Amount of All Previous Change Orders:	\$	<u>241,814.00</u>	<u>45.9%</u> <small>(Line E / Line D)</small>
F. Amount of This Change Order:	\$	<u>49,163.00</u>	<u>9.3%</u> <small>(Line F / Line D)</small>
G. Total Contract Amount:	\$	<u>817,459.00</u>	

SIGNATURES

Project Manager:

Ben K. Hays

Date: 8/25/18

Reviewed by:

[Signature]

Date: 8/29/18

Division Director:

[Signature]

Date: 8/30/18

KENTUCKY TRANSPORTATION CABINET

lpa-DOH-chgord
 Mod 07/2/10

Local Public Agency (Department of Highways Funding) CHANGE ORDER

Page 1
 Contract ID PO2-625-1500002693 Project Sponsor LFUCG
 Change Order No 2 County Fayette
 Contractor CDP Engineers Project Number
 Contractor Address 3250 Blazer Pkwy., Lexington, KY 40509 Project Name Clays Mill Road - Sec 1 Improvements

Proposed Changes In Connection with Contract Items

Item No.		Description	Quantity	Unit	Unit Price	Amount

Total for this Page
 Total for Continuation Page(s)

Total Contract Items

Proposed Items of Supplemental Agreement:

Ref. No.		Description	Quantity	Unit	Unit Price	Amount
1	Add	Additional Design Services	1.0	LS	\$ 45,313.00	45,313.00
2	Add	Additional Appraisal Services	1.0	LS	\$ 3,850.00	3,850.00

Total for this Page 49,163.00
 Total for Continuation Page(s)
 Total Supplemental Agreement 49,163.00

Total Increase Amount \$ 49,163.00

Time Extension/Explanation:

Reasons for Proposed Changes:

This work covers various design scope changes spanning from November 2016 to August 2018. Changes made include additional appraisals, additional meetings, design modifications to accommodate property owner requests, design changes impacted by construction sequencing, and miscellaneous design changes made along the way that typically arise as a project of this size develops.

If approved by Transportation Cabinet, the undersigned contractor agrees to do the work outlined herein and to accept as payment in full the basis of payment as set forth herein.

Requested Bruce K. Hays 8/29/18
Project Engineer - LFUCG DATE
 Recommended [Signature] 8/29/18
Manager - LFUCG Design and Construction Section DATE
 Recommended [Signature] 8/30/18
Director - LFUCG Division of Engineering DATE
 Approved Linda Gorton
LPA Signature Authority DATE
 Title Meyer 1-29-19
DATE
 Approved _____
Sate Highway Engineer DATE

CDP Engineers
Contractor

By: C Lewis Dyer
 Date: 8/30/2018



improving lives one community at a time...through sustainable solutions

August 20, 2018

Mr. Mark Feibes, PE
Lexington-Fayette Urban County Government
Division of Engineering
101 East Vine Street
Lexington, KY 40507

RE: Clays Mill Road

Mr. Feibes:

Attached are the hours negotiated for surveying and design services, and for property appraisals that were beyond the original design phase scope of services. As per our discussions starting in November 2016, these changes were made at the request of LFUCG, to satisfy property owner requests, reflect changes to the construction sequencing and prepare miscellaneous preferential changes to the plans.

If you need any additional information or have any questions, please call me at (859) 264-7500.

Sincerely,
CDP ENGINEERS, INC.

C. Lewis Dixon, PE, PLS
Executive Vice President



KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF PROFESSIONAL SERVICES
ENGINEERING AND RELATED SERVICES FEE PROPOSAL

TC 40-2
 Rev. 06/2017
 Page 1 of 1

SECTION 1: PROJECT INFORMATION

DATE:	Aug. 20, 2018	COUNTY:	Fayette	ITEM #:	7-224.10
PROJECT:	Clays Mill Road				

SECTION 2: BUDGET INFORMATION

FEE CONSIDERATIONS	PROPOSED MAN HOURS	NEGOTIATED MAN HOURS	AVERAGE RATE	ESTIMATED COST
Surveying	24		\$ 31.73	\$ 761.52
Preliminary Line and Grade			\$ 39.30	\$ -
Right of Way and Utility Plans	112		\$ 37.69	\$ 4,221.28
Final Plan Preparation	252		\$ 36.38	\$ 9,167.76
Meeting	16		\$ 43.48	\$ 695.68
Public Involvement			\$ 43.48	\$ -
				\$ -
				\$ -
				\$ -
				\$ -
TOTAL PRODUCTION HOURS	404			
		TOTAL DIRECT PAYROLL		\$ 14,846.24
		OVERHEAD (164.89 %)		\$ 24,479.97
		PROFIT (15.00 %)		\$ 5,898.93
		COST OF MONEY (0.59 %)		\$ 88.17

DIRECT COSTS	AMOUNT
TOTAL DIRECT COSTS	\$ -

SUBCONSULTANTS	AMOUNT
H.W. Lochner (2 additional appraisals)	\$ 3,850.00
TOTAL SUBCONSULTANTS	\$ 3,850.00

TOTAL FEE	\$ 49,163
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*Rounded to the nearest dollar

SECTION 3: SIGNATURE

FIRM NAME: CDP Engineers	SIGNED BY:	
	Vice President	Aug. 20, 2018
CONSULTANT SIGNATURE	TITLE	DATE
PROFESSIONAL SERVICES SIGNATURE	TITLE	DATE

PRODUCTION-HOUR WORKSHEET (revised 7/14)

COUNTY	Fayette	PROJECT TYPE	Phase 1 and 2, C0 #2
ROUTE	Clays Mill Road	CONSULTANT	CDP Engineers
DESC		REVIEWED BY	
ITEM NO.	7-224.10	PREPARED BY	Bob Walling
		DATE	

SURVEY

No.	ITEM	CREW	UNIT	AMOUNT	HRS/UNIT	HOURS
RECONNAISSANCE						
1	Control - (existing)	1	Mile			0
2	Utilities - (data gathering, identification & contact)	1	No.			0
3	Drainage - (sink holes, streams, pipes, etc.)	1	Mile			0
CONTROL						
4	Horizontal	2	Mile			0
5	Vertical	2	Mile			0
6	Process data	1	Mile			0
PLANIMETRIC SURVEY						
7	Planimetric location <i>(specify complete, pickup or update)</i>	2	Mile			0
8	Subsurface Utility Engineering, Quality Levels C & D	1	Mile			0
9	Subsurface Utility Engineering, Quality Level B	1	LS			0
10	Subsurface Utility Engineering, Quality Level A	1	LS			0
11	Process data	1	Mile			0
TERRAIN SURVEY						
12	DTM data collection <i>(Items 11-18 not required if used)</i>	2	Acre			0
13	Verify terrain model accuracy	2	Mile			0
14	Tie-ins		No.			0
15	Drainage situations survey (Bridge)	2	No.			0
16	Drainage situations survey (Culvert)	2	No.			0
17	Drainage pipe section (non-situation size)	2	No.			0
18	Flood plain data	2	No.			0
19	Railroad Surveys	2	No.			0
20	Additional necessary DTM data <i>(specify pickup or update)</i>	2	Acre			0
21	Process data	1	Mile			0
ESTABLISH PROPERTY LINES & OWNERSHIP						
22	Contact & Interview Property Owners	1	Parcel			0
23	Field tie property lines/corners	2	Parcel			0
STAKING						
24	Stake centerlines, approaches, detours	2	Mile			0
25	Stake core holes - structures <i>(unit is per structure)</i>	2	No.			0
26	Stake core holes - roadway <i>(unit is per core hole)</i>	2	No.			0
SURVEY MISCELLANEOUS						
27	Additional Survey on Reed Road	2	LS	4	4	8
28	Additional Survey on Mitchell Avenue	2	LS	1	4	8
29	Additional Survey on Rosemont Garden	2	LS	1	4	8
SURVEY TOTAL						24

PRODUCTION-HOUR WORKSHEET (revised 7/14)

COUNTY	Fayette	PROJECT TYPE	Phase 1 and 2. C0 #2
ROUTE	Clays Mill Road	CONSULTANT	CDP Engineers
DESC		REVIEWED BY	
ITEM NO.	7-224.10	PREPARED BY	Bob Walling
		DATE	

UTILITY COORDINATION

No.	ITEM	PERSONS	UNIT	AMOUNT	HRS/UNIT	HOURS
56	Utility Coordination Meeting	2	No.			0
57	Develop Utility Relocation Layout Sheets (1"=200')		Mile			0
58	Develop Utility Relocation Plans (1"=50')		Mile			0
UTILITY COORDINATION MISCELLANEOUS						
59						
UTILITY COORDINATION TOTAL						0

RIGHT OF WAY PLANS

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS	
60	Deed research	Parcel			0	
61	Establish property and ownership	Parcel			0	
62	Calculate Right of Way	Parcel			0	
63	Prepare legal descriptions	Parcel			0	
64	Complete Right of Way summary sheet	Parcel			0	
65	Generate Right of Way strip map (scale 1" = xxx')not in orig. contract	Sheet	9	8	72	
66	Prepare Right of Way Plans Submittal	LS			0	
67	Right of Way revisions after Right of Way submittal	LS			0	
R/W PLANS MISCELLANEOUS						
68		LS			0	
69	Deed Research for Existing Parcels	Parcel			0	
70	Prepare Legal Descriptions for Right of Way transfer	Parcel			0	
71	Additional R/W changes, not in orig. contract.	LS	1		40	
72		LS			0	
RIGHT OF WAY PLANS TOTAL						112

PRODUCTION-HOUR WORKSHEET (revised 7/14)

COUNTY	Fayette	PROJECT TYPE	Phase 1 and 2, C0 #2
ROUTE	Clays Mill Road	CONSULTANT	CDP Engineers
DESC		REVIEWED BY	
ITEM NO.	7-224.10	PREPARED BY	Bob Walling
		DATE	

FINAL PLAN PREPARATION

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS
80	Computer setup	LS			0
81	Update existing topography and terrain model	Mile			0
82	Refine alignments (horizontal & vertical)	Mile			0
83	Develop pavement design	No.			0
84	Finalize templates & transitions	No.			0
85	Develop final roadway model	Mile			0
86	Develop proposed design	Mile			0
87	Generate plan sheets (scale 1" = xxx')	Sheet	2	8	16
88	Generate profile sheets (scale 1" = xxx')	Sheet	2	4	8
89	Detail cross sections (scale 1" = xxx')	No.	8	0.5	4
90	Design entrances	No.			0
91	Revise roadway plans from soils report	Mile			0
DRAINAGE					
92	Develop pipe sections (< 54")	No.			0
93	Develop drainage system map	Mile			0
94	Develop drainage situation (bridge)	No.			0
95	Develop drainage situation (culvert)	No.			0
96	Develop blue line stream channel change (=> 200')	No.			0
97	Drainage analysis (entrance pipes)	No.			0
98	Drainage analysis (A <= 200 acres)	No.			0
99	Drainage analysis (200 acres < A < 1.0 sq. mile)	No.			0
100	Drainage analysis (A = > 1.0 sq. mile) level 1 analysis	No.			0
101	Drainage analysis (A = > 1.0 sq. mile) level 2 analysis	No.			0
102	Drainage analysis (A = > 1.0 sq. mile) level 3 analysis	No.			0
103	Special drainage studies	No.			0
104	Roadway ditches and channels	Mile			0
105	Develop Erosion Control Plan	Mile			0
106	Inlet spacing calculations	No.			0
107	Storm sewers calculations	No.			0
108	Perform scour analysis	No.			0
109	Assemble preliminary and final drainage folders	LS			0
110	Prepare advanced situation folder - bridge	No.			0
111	Prepare advanced situation folder - culvert	No.			0
DRAINAGE MISCELLANEOUS					
112	Temp. Drainage	EACH	1	4	4
113					0
114					0
115					0

PRODUCTION-HOUR WORKSHEET (revised 7/14)

COUNTY	Fayette	PROJECT TYPE	Phase 1 and 2, C0 #2
ROUTE	Clays Mill Road	CONSULTANT	CDP Engineers
DESC		REVIEWED BY	
ITEM NO.	7-224.10	PREPARED BY	Bob Walling
		DATE	

FINAL PLAN PREPARATION (Continued)

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS
116	Prepare layout sheet	LS	1	4	4
117	Prepare typical sections	LS	1	4	4
118	Prepare Interchange geometric approval	No.			0
119	Prepare intersection geometric approval	No.			0
120	Prepare coordinate control sheet	LS			0
121	Prepare elevation developments	No.			0
122	Prepare striping plan	No.	1	10	10
123	Calculate final quantities	Mile			0
124	Complete general summary	LS			0
125	Complete paving summary	LS			0
126	Complete drainage summary	LS			0
127	Complete pavement under-drain summary	LS			0
128	Prepare cost estimate	LS			0
129	Plot/print copies of plans	LS			0
130	Plan revisions	EACH			0
131	Prepare final construction plans submittal, not in orig. contract.	LS	1	20	20
MAINTENANCE OF TRAFFIC					
132	Write maintenance of traffic notes (TCP)	LS	1	40	40
133	Prepare construction phasing plans	Mile			0
134	Develop diversion plan sheets	LS			0
135	Develop diversion profile sheets	Sheet			0
136	Develop diversion cross sections	No.			0
137	Develop temporary drainage	No.			0
FINAL PLANS MISCELLANEOUS					
138	Two set of Specifications 1 Roadway and 1 San Sewer, not in orig. contract	No.	2	40	80
139	DES	LS	1	30	30
140	Transition from Proposed to Existing	LS	1	8	8
141	Break Lighting Plans	LS	1	8	8
142	Break Diversion Plans	LS	1	8	8
143	Break Signing Plans	LS	1	8	8
FINAL PLANS TOTAL					252

PRODUCTION-HOUR WORKSHEET (revised 7/14)

COUNTY	Fayette	PROJECT TYPE	Phase 1 and 2, C0 #2
ROUTE	Clays Mill Road	CONSULTANT	CDP Engineers
DESC		REVIEWED BY	
ITEM NO.	7-224.10	PREPARED BY	Bob Walling
		DATE	

MEETINGS

No.	ITEM	PERSONS	UNIT	AMOUNT	HRS/UNIT	HOURS
150	Prelim. line and grade inspection	2	No.			0
151	Drainage inspection	2	No.			0
152	Final inspection	2	No.			0
153	Misc. project coordination meetings	2	No.	2	4	16
154	Project team meetings	2	No.			0
MEETINGS MISCELLANEOUS						
155	Value Engineering Study		LS			0
156	Constructability Review		LS			0
MEETINGS TOTAL						16

PUBLIC INVOLVEMENT

No.	ITEM	PERSONS	UNIT	AMOUNT	HRS/UNIT	HOURS
160	Develop and Maintain Mailing List		LS			0
161	Prepare for Advisory Committee/Officials Meeting		No.			0
162	Attend Advisory Committee/Officials Meeting	2	No.			0
163	Prepare for Public Meetings/Hearings		No.			0
164	Attend Public Meetings/Hearings	2	No.			0
165	Prepare and Distribute Newsletter		No.			0
166	Property owner coordination		No.			0
PUBLIC INVOLVEMENT MISCELLANEOUS						
167						0
168						0
169						0
PUBLIC INVOLVEMENT TOTAL						0

QA/QC

No.	ITEM	PERSONS	UNIT	AMOUNT	HRS/UNIT	HOURS
180	Plan review					0
181	Structure review					0
QA/QC TOTAL						0

PRODUCTION-HOUR WORKSHEET (revised 7/14)

COUNTY	Fayette	PROJECT TYPE	Phase 1 and 2, C0 #2
ROUTE	Clays Mill Road	CONSULTANT	CDP Engineers
DESC		REVIEWED BY	
ITEM NO.	7-224.10	PREPARED BY	Bob Walling
		DATE	

PRODUCTION-HOUR SUMMARY

SURVEY TOTAL		24
LINE AND GRADE TOTAL		0
UTILITY COORDINATION TOTAL		0
RIGHT OF WAY PLANS TOTAL		112
FINAL PLANS TOTAL		252
MEETINGS TOTAL		16
PUBLIC INVOLVEMENT TOTAL		0
QA/QC TOTAL		0
GRAND TOTAL		404

Taylor, Debby

From: Bob Walling <bwalling@cdpengineers.com>
Sent: Monday, May 15, 2017 11:49 AM
To: Taylor, Debby
Subject: RE: Clays Mill Road Section I, Proposed Appraisal and Review Fee for Parcel 107

Debby,

You have notice to proceed for the Appraisal and Review for Parcel # 107, a Contract Mod. will be submitted later this summer.

Bob Walling | Vice President



3250 blazer parkway lexington ky 40509

T 859.264.7500 | C 8592306591 | F 859.264.7501



E-MAIL NOTICE

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From: Taylor, Debby [mailto:dtaylor@hwlochner.com]
Sent: Thursday, May 11, 2017 12:03 PM
To: Brian Hayes <bhayes@lexingtonky.gov>
Cc: Bob Walling <bwalling@cdpengineers.com>; Mark Feibes <mfeibes@lexingtonky.gov>
Subject: RE: Clays Mill Road Section I, Proposed Appraisal and Review Fee for Parcel 107

Thanks, Brian.

Bob,
If you will provide me with Notice to Proceed on this additional work, I will get Kevin and Thurston underway.

Thanks,
Debby

From: Brian Hayes [<mailto:bhayes@lexingtonky.gov>]
Sent: Thursday, May 11, 2017 7:54 AM
To: Taylor, Debby <dtaylor@hwlochner.com>
Cc: 'Bob Walling' <bwalling@cdbpengineers.com>
Subject: FW: Clays Mill Road Section I, Proposed Appraisal and Review Fee for Parcel 107

Ok.

From: Mark Feibes
Sent: Wednesday, May 10, 2017 4:54 PM
To: Brian Hayes
Subject: FW: Clays Mill Road Section I, Proposed Appraisal and Review Fee for Parcel 107

Brian,
I'm ok with this. Attached is a tracking spreadsheet and previous e-mail correspondence regarding additional work.

Mark Feibes, PE
Lexington-Fayette Urban County Government
Department of Planning, Preservation & Development
Division of Engineering
101 East Vine St., 4th Floor, Lexington, KY 40507
phone: (859) 258-3428
mfeibes@lexingtonky.gov

From: Taylor, Debby [<mailto:dtaylor@hwlochner.com>]
Sent: Wednesday, May 10, 2017 10:45 AM
To: Mark Feibes; Brian Hayes
Cc: Bob Walling
Subject: Clays Mill Road Section I, Proposed Appraisal and Review Fee for Parcel 107

Mark and Brian,
As requested, I am providing a proposed fee from Kevin Johnson and Thurston Freeman for doing the appraisal and review for Parcel 107 on Clays Mill Road Section I.

Kevin Johnson:
Parcel 107 appraisal: \$1,500

Thurston Freeman:
Parcel 107 appraisal review: \$500

Total: \$2,000

Please let us know if this is acceptable.

Thank you,
Debby Taylor
Project Manager
LOCHNER
1040 Monarch Street, Suite 300
Lexington, Kentucky 40513
P 859.224.4476
F 859.224.9828
dtaylor@hwlochner.com
www.hwlochner.com

Taylor, Debby

From: Bob Walling <bwalling@cdpengineers.com>
Sent: Thursday, November 3, 2016 2:11 PM
To: Taylor, Debby
Subject: FW: Clays Mill, Parcel 145 Johnson and Freeman Fee Proposals

Debby,

You are authorize to add an appraisal and review appraisal for P145.

From: Mark Feibes [<mailto:mfeibes@lexingtonky.gov>]
Sent: Wednesday, November 02, 2016 12:00 PM
To: Bob Walling <bwalling@cdpengineers.com>; Robert Bayert <bobb@lexingtonky.gov>
Subject: FW: Clays Mill, Parcel 145 Johnson and Freeman Fee Proposals

Bob,
Per the e-mail below from Debby, please authorize Lochner to add an appraisal and review appraisal of P-145 to their contract. We will be eliminating the driveway, so they will receive \$1,850. I will send you a formal work change directive shortly.
Since we will be eliminating their driveway, we will need to push the project extents down Reed Lane far enough to add a driveway entrance onto the adjacent lot (P-146), as we discussed with Tom Hall of Lafayette Christian when we met last month. Please calculate your PWHs and associated cost for this work so we may include that in our work change directive.
Toward the end of the design phase we will prepare a Change Order for formal approval.
Thanks,

Mark Feibes, PE
Lexington-Fayette Urban County Government
Department of Planning, Preservation & Development
Division of Engineering
101 East Vine St., 4th Floor, Lexington, KY 40507
phone: (859) 258-3428
mfeibes@lexingtonky.gov

From: Taylor, Debby [<mailto:dtaylor@hwllochner.com>]
Sent: Monday, October 31, 2016 3:39 PM
To: Mark Feibes
Subject: Clays Mill, Parcel 145 Johnson and Freeman Fee Proposals

Hi, Mark,

Please see below for Kevin Johnson's and Thurston Freeman's bid proposal for adding Parcel No. 145 to the list of appraised parcels. These fees are in keeping with their previous fees submitted and approved for this project.

Kevin Johnson:
\$1,250 on P/145 if there is loss of access from Clays Mill. If not, then \$1,000.

Thurston Freeman:
\$600 on P 145 if there is a loss of access from Clays Mill. If no plan change, then \$500.

Please let me know if you have any questions or comments.

Thanks!

Debby Taylor
Project Manager
LOCHNER

1040 Monarch Street, Suite 300
Lexington, Kentucky 40513
P 859.224.4476
F 859.224.9828
dtaylor@hwlochner.com
www.hwlochner.com