



KENTUCKY TRANSPORTATION CABINET
 Department of Rural and Municipal Aid
 OFFICE OF LOCAL PROGRAMS

TC 20-24
 Rev. 8/2022
 Page 1 of 4

CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 1: APPLICANT INFORMATION

PROJECT TITLE

Mason Headley - Multimodal Improvements

SPONSOR NAME

Lexington Fayette Urban County Government

ADDRESS

200 East Main Street

CITY

Lexington

ZIP

40507

PHONE

(859) 258-3410

METROPOLITAN PLANNING ORGANIZATION (MPO)

Lexington Area MPO

PROJECT CONTACT

Andrew Grunwald, P.E.

EMAIL

agrunwal@lexingtonky.gov

SAI NUMBER (All applicants must complete the Department for Local Government, [Kentucky State Clearinghouse](#) requirements prior to submitting an application. The SAI number provided upon completion of the Clearinghouse requirements must be included.)

Pending - Project entered into Clearinghouse on 09/26/22.

UNIQUE ENTITY IDENTIFIER (UEI) # (all applicants must be registered in the federal [System for Award Management \(SAM\)](#) before applying for funding. Please indicate the UEI assigned upon completion of registration.)

3WTE6

SECTION 2: PROJECT CATEGORY

INSTRUCTION: For the category that most fits your project, check one of the boxes below. Please see the FHWA Interim Guidance for more information on each category. Please note, CMAQ projects cannot add roadway capacity except for HOV lanes. Any project that increases vehicle capacity is ineligible for CMAQ, even if the overall project does show emissions reductions.

- | | |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> Traffic Control Measures (TCMs) | <input type="checkbox"/> Carpooling, Vanpooling, Car Sharing |
| <input type="checkbox"/> Alternative Fuels and Vehicles | <input type="checkbox"/> Freight/Intermodal |
| <input checked="" type="checkbox"/> Congestion Reduction and Traffic Flow Improvements | <input type="checkbox"/> Diesel Engine Retrofits & Other Advanced Truck |
| <input type="checkbox"/> Bicycle and Pedestrian Facilities and Programs | <input type="checkbox"/> Idle Reduction |
| <input type="checkbox"/> Public Education and Outreach Activities | <input type="checkbox"/> Training |
| <input type="checkbox"/> Transportation Management Associates (TMAs) | <input type="checkbox"/> Inspection/Maintenance (I/M) Programs |
| <input type="checkbox"/> Travel Demand Management | <input type="checkbox"/> Experimental Pilot Projects |
| <input type="checkbox"/> Transit Improvements | |

If funding is for operational assistance, has this project previously received federal CMAQ funds? Yes No

SECTION 3: PROJECT STATUS

Have any elements of this project been completed using state, federal or local funds prior to this application for funding?
 Yes No

If yes, please indicate the funding source and what has been completed



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 4: PROJECT DESCRIPTION

Provide a detailed project description, including the location and all items for which funding is being requested. **A separate Project Cost Estimate should be attached as Attachment B.** Keep in mind all potential costs associated with the project, including but not limited to: Design, Right-of-Way acquisition, archaeology, permits, surveys, tree removal, utilities, construction, construction inspection, etc. For operational assistance projects, include how the project will continue to be funded once the federal funds are expended.

Acquire Right-of-Way for left and right turn lanes to access proposed Fayette County School facility, curb & gutter, street drainage, sidewalks and bike lanes on Mason Headley Road from Versailles Road to The Lane.

SECTION 5: PURPOSE AND NEED

Explain the purpose of this project and how it will improve air quality.

To reduce congestion and improve access to the Fayette County Public School facility for motorists, cyclists and pedestrians.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 6: PROJECT BUDGET

IMPORTANT: The Office of Local Programs uses the budget and estimate to determine the amount of funding awarded for a project; therefore, the amounts listed for each phase of the project must be as accurate as possible. To find out more information about cost estimates, consult the [Local Public Agency \(LPA\) Guide](#).

Enter the total estimated amount for each phase of the project OR the Non-Infrastructure Project Total Cost.

PHASE	FEDERAL DOLLARS	LOCAL MATCH DOLLARS	TOTAL DOLLARS
Design (All design activities including PE, Phase I and II design)			\$0.00
Right of Way	\$246,000.00	\$61,500.00	\$307,500.00
Utilities			\$0.00
Construction (Including construction inspection, materials testing and administration)			\$0.00
Contingency (20%)	\$49,200.00	\$12,300.00	\$61,500.00
TOTAL	\$295,200.00	\$73,800.00	\$369,000.00
State Forces (10% of the total project cost-federal and state)	\$29,520.00	Local Match Not Required	
Non-Highway infrastructure Activities			\$0.00

Maintenance Plan:

The roadway, including bike lanes, crosswalks, signalization, and drainage improvements will be maintained by LFUCG.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 8: EMISSION REDUCTIONS

Enter the emissions reductions for the pollutants listed below. Please note the reductions should be in kilograms per day and **each pollutant must have a number listed**. If a pollutant does not have any emission reductions, put a zero in the space. Applicants must use the [FHWA CMAQ Emissions Calculator Toolkit](#) when possible.

VOC	CO	NOx	PM ₁₀	PM _{2.5}
0.194	2.662	0.193	0.021	0.007
Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)

Describe the methodology used to determine each reduction. **Do not attach additional pages to this application.**

The Mason Headley Intersection Improvement project is located on Mason Headley at the intersection of Versailles Rd. The ADT of 8192 on Old Frankfort Pike (2021 Street Light Data) was multiplied by the percentage of all commuters who travel by foot or bicycle (4.3%) (from the 2020 Census). We used this information to generate a decrease in AADT of 345 over the 1.5 mile segment. Using the FHWA CMAQ Emissions Calculator.

SECTION 9: LOCAL PUBLIC AGENCY (LPA) ACKNOWLEDGEMENT

By submitting this application the applicant acknowledges, if selected for funding, the project will follow all requirements outlined in this application, the KTYC Local Public Agency Guide, Memorandum of Agreement, and all applicable federal and state laws and regulations. The applicant further acknowledges failure to follow these requirements or complete the project in the allotted time may result in cancellation of the project and repayment of federal funds.

Linda Gorton

Authorized Signature of LPA Sponsor

9.30.2022

Date



LEXINGTON

DIVISION OF ENGINEERING

**PROJECT LOCATION MAP
MASON HEADLEY
WIDENING**

09/19/2022
DWG



VERSAILLES ROAD

PROJECT
LOCATION

THE LANE

ALEXANDRIA DRIVE

BEACON HILL

MASON HEADLEY ROAD

Attachment B

DETAILED PROJECT COST ESTIMATE

PROJECT NAME	Widen West side of Mason Headley
PROJECT NUMBER	N/A - Conceptual Estimate
PROJECT LIMITS	As shown on Project Map
TYPE OF PROJECT	Major Widening of Mason Headley Versailles to The Lane
ESTIMATE DONE BY	AFG
DATE (Estimate)	Sep-22
COST ESTIMATE PHASE	CONCEPTUAL

NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	EXTENSION
Acquiring 2160 Versailles Road					
1	Appraisal / plat / deed / closing	LS	1	\$ 8,200.00	\$ 8,200.00
2	ROW	SF	36,250	\$ -	\$ -
3	Temporary Construction Easement	SF	17,300	\$ -	\$ -
Sub-Total					\$ 8,200.00
Acquiring 975 Mason Headley					
1	Appraisal / plat / deed / closing	LS	1	\$ 8,200.00	\$ 8,200.00
2	ROW	SF	10,500	\$ 10.52	\$ 110,454.00
3	Temporary Construction Easement	SF	3,450	\$ 2.10	\$ 7,258.41
Acquiring 941-961 Mason Headley					
1	Appraisal / plat / deed / closing	LS	6	\$ 4,300.00	\$ 25,800.00
2	ROW	SF	13,150	\$ 10.52	\$ 138,330.49
3	Temporary Construction Easement	SF	4,400	\$ 2.10	\$ 9,257.10
Acquiring All ROW and TCE					
1	Appraisal / plat / deed / closing	LS			\$ 42,200.00
2	ROW	SF			\$ 248,784.50
3	Temporary Construction Easement	SF			\$ 16,515.50
Total - ROW and Easements					\$ 307,500.00
Construction/Extension of Turn Lane					
1	Mobilization / Set Up / Traffic Control	LS	1	\$ 95,000.00	\$ 95,000.00
2	Clear and Grub	LS	1	\$ 130,000.00	\$ 130,000.00
3	Excavation and Removal	CY	200	\$ 100.00	\$ 20,000.00
4	Erosion and Sediment Control	LS	1	\$ 40,000.00	\$ 40,000.00
5	Remove Existing Curb and Gutter	LF	115	\$ 30.00	\$ 3,450.00
6	Remove Existing Sidewalk	SY	22	\$ 25.00	\$ 550.00
7	Remove Existing Retaining Wall	LF	25	\$ 250.00	\$ 6,250.00
8	#2 Stone for Stabilization	Ton	543	\$ 50.00	\$ 27,150.00
9	Place Stone For Base (8" Deep)	Ton	2164	\$ 50.00	\$ 108,200.00
10	Place Asphalt Base (6" Deep)	Ton	1623	\$ 110.00	\$ 178,530.00
11	Place Asphalt Surface (1 1/2" Deep)	Ton	543	\$ 110.00	\$ 59,730.00
12	Install New Sidewalk	SY	2070	\$ 75.00	\$ 155,250.00
13	Install New Curb and Gutter	LF	4472	\$ 40.00	\$ 178,880.00
14	Sidewalk Ramps	EA	10	\$ 1,500.00	\$ 15,000.00
15	Install New Retaining Wall	LF	538	\$ 250.00	\$ 134,500.00
16	Move and Set Catch Basin	EA	1	\$ 2,500.00	\$ 2,500.00
17	Install New Catch Basin	EA	8	\$ 4,500.00	\$ 36,000.00

NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	EXTENSION
18	18" RCP	LF	2025	\$ 125.00	\$ 253,125.00
19	Sod	SY	828	\$ 10.00	\$ 8,280.00
20	Seeding and protection	SY	2794	\$ 2.00	\$ 5,588.00
21	Remove and Replace Fence (Chain link)	LF	1850	\$ 35.00	\$ 64,750.00
22	Remove Fence (split rail)	LF	705	\$ 10.00	\$ 7,050.00
23	Striping	LS	1	\$ 20,000.00	\$ 20,000.00
24	Solar School Flashings	EA	2	\$ 18,000.00	\$ 36,000.00
25	Street Lighting conduit	LF	3000	\$ 6.50	\$ 19,500.00
26	New Drive Way Aprons	EA	2	\$ 5,000.00	\$ 10,000.00
27	Move stone entrance - The Lane	LS	1	\$ 35,000.00	\$ 35,000.00
28	Move stone entrance - 975 Mason Headley	LS	1	\$ 70,000.00	\$ 70,000.00
29	New mast arm/signalization modification	LS	1	\$ 75,000.00	\$ 75,000.00
30	Ped Crossing Pole	LS	1	\$ 1,500.00	\$ 1,500.00
Total - Construction					\$ 1,796,783.00
Utilities					
1	Relocate Water Line	LF	2050	\$ 125.00	\$ 256,250.00
2	Relocate Gas	LF	1775	\$ 125.00	\$ 221,875.00
3	LFUCG Street Lights	EA	20	\$ 1,200.00	\$ 24,000.00
4	Relocate AT&T and Pole	LS	1	\$ 20,000.00	\$ 20,000.00
Total - Utilities					\$ 522,125.00

ADDITIONAL COMMENTS

For Estimating and Budgeting Purposes The Total Project Cost
This Estimate assumes dedication of ROW and Easements on 2160 Versailles Road

DETAILED PROJECT COST ESTIMATE

PROJECT NAME	Widening of Mason Headley - Versailles Road 1st Block
PROJECT NUMBER	N/A - Conceptual Estimate
PROJECT LIMITS	As shown on Project Map
TYPE OF PROJECT	Roadway
ESTIMATE DONE BY	AFG
DATE (Estimate)	Sep-22
COST ESTIMATE PHASE	CONCEPTUAL

Widen Mason Headley			
Description	Estimated Cost	Contingency @ 20%	Rounded Cost
Design	\$ 350,000.00	\$ 70,000.00	\$ 420,000.00
ROW and Easement Acquisition	\$ 307,500.00	\$ 61,500.00	\$ 369,000.00
Utilities	\$ 522,125.00	\$ 104,425.00	\$ 627,000.00
Construction	\$ 1,796,783.00	\$ 359,356.60	\$ 2,156,000.00
KYTC Oversight	\$ 135,000.00	-	\$ 135,000.00
TOTAL			\$ 3,707,000.00

ADDITIONAL COMMENTS

For Estimating and Budgeting Purposes The Total Project Cost
 This Estimate assumes dedication of ROW and Easements on 2160 Versailles Road



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 1: APPLICANT INFORMATION

PROJECT TITLE

Mt Tabor Road Multimodal Improvement

SPONSOR NAME

Lexington-Fayette Urban County Government

ADDRESS

200 East Main Street

CITY

Lexington

ZIP

40507

PHONE

859-258-3410

METROPOLITAN PLANNING ORGANIZATION (MPO)

Lexington Area MPO

PROJECT CONTACT

Scott Gabbard, P.E.

EMAIL

sgabbard@lexingtonky.gov

SAI NUMBER (All applicants must complete the Department for Local Government, [Kentucky State Clearinghouse](#) requirements prior to submitting an application. The SAI number provided upon completion of the Clearinghouse requirements must be included.)

KY 201609061216

UNIQUE ENTITY IDENTIFIER (UEI) # (all applicants must be registered in the federal [System for Award Management \(SAM\)](#) before applying for funding. Please indicate the UEI assigned upon completion of registration.)

3WTE6

SECTION 2: PROJECT CATEGORY

INSTRUCTION: For the category that most fits your project, check one of the boxes below. Please see the FHWA Interim Guidance for more information on each category. Please note, CMAQ projects cannot add roadway capacity except for HOV lanes. Any project that increases vehicle capacity is ineligible for CMAQ, even if the overall project does show emissions reductions.

<input type="checkbox"/> Traffic Control Measures (TCMs)	<input type="checkbox"/> Carpooling, Vanpooling, Car Sharing
<input type="checkbox"/> Alternative Fuels and Vehicles	<input type="checkbox"/> Freight/Intermodal
<input type="checkbox"/> Congestion Reduction and Traffic Flow Improvements	<input type="checkbox"/> Diesel Engine Retrofits & Other Advanced Truck
<input checked="" type="checkbox"/> Bicycle and Pedestrian Facilities and Programs	<input type="checkbox"/> Idle Reduction
<input type="checkbox"/> Public Education and Outreach Activities	<input type="checkbox"/> Training
<input type="checkbox"/> Transportation Management Associates (TMAs)	<input type="checkbox"/> Inspection/Maintenance (I/M) Programs
<input type="checkbox"/> Travel Demand Management	<input type="checkbox"/> Experimental Pilot Projects
<input type="checkbox"/> Transit Improvements	

If funding is for operational assistance, has this project previously received federal CMAQ funds? Yes No

SECTION 3: PROJECT STATUS

Have any elements of this project been completed using state, federal or local funds prior to this application for funding?

Yes No

If yes, please indicate the funding source and what has been completed **Local funding was utilized for the design and the purchase of temporary construction easements**



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 4: PROJECT DESCRIPTION

Provide a detailed project description, including the location and all items for which funding is being requested. **A separate Project Cost Estimate should be attached as Attachment B.** Keep in mind all potential costs associated with the project, including but not limited to: Design, Right-of-Way acquisition, archaeology, permits, surveys, tree removal, utilities, construction, construction inspection, etc. For operational assistance projects, include how the project will continue to be funded once the federal funds are expended.

Over half of this section of Mt. Tabor Road has never been upgraded from a rural section to an urban section. Pedestrians walking between the residential area and the commercial area and to the bus stop within the project area must walk in uneven turf just off the pavement edge, where no safety features or drainage system exist. This project will widen the pavement, construct curb, gutter and sidewalk, and provide bike lanes and a stormwater collection system. The vertical alignment will be adjusted to improve sight lines, for the benefit of all users.

Request: The Mt. Tabor Road Multimodal Improvement project has previously received CMAQ funding for Construction. This request is to fill a shortfall in construction funding due to an increase in construction prices since the original CMAQ award for construction in 2017. The amount shown in Section 6 represents the difference between the original funding and the current construction cost estimate (See Attachment B and Attachment B Part 2).

SECTION 5: PURPOSE AND NEED

Explain the purpose of this project and how it will improve air quality.

This narrow section of Mt Tabor Road will be upgraded to an urban cross section. The project will provide sidewalks, bike lanes, street lights, curbs, gutters, and storm water drainage. Pedestrians traveling between the commercial and residential areas and the bus stop located within the project limits must walk on a narrow shoulder of uneven turf along the roadway's edge. Cyclists must occupy the driving lanes on this narrow section of Mt Tabor Road or ride along the edge of pavement where there is a high volume of traffic and no street lighting. The sidewalks and bike lanes will provide an alternative means of transportation to local businesses and services. The bike lanes will also connect to a larger bike lane network that runs along Richmond Road.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 6: PROJECT BUDGET

IMPORTANT: The Office of Local Programs uses the budget and estimate to determine the amount of funding awarded for a project; therefore, the amounts listed for each phase of the project must be as accurate as possible. To find out more information about cost estimates, consult the [Local Public Agency \(LPA\) Guide](#).

Enter the total estimated amount for each phase of the project **OR** the Non-Infrastructure Project Total Cost.

PHASE	FEDERAL DOLLARS	LOCAL MATCH DOLLARS	TOTAL DOLLARS
Design (All design activities including PE, Phase I and II design)			\$0.00
Right of Way			\$0.00
Utilities			\$0.00
Construction (Including construction inspection, materials testing and administration)	\$753,333.33	\$188,333.33	\$941,666.67
Contingency (20%)	\$150,666.67	\$37,666.67	\$188,333.33
TOTAL	\$904,000.00	\$226,000.00	\$1,130,000.00
State Forces (10% of the total project cost-federal and state)	\$90,400.00	Local Match Not Required	
Non-Highway infrastructure Activities			\$0.00

Maintenance Plan:

The roadway, including bike lanes and crosswalks will be maintained by LFUCG, as well as the drainage system. Where properties front on Mt. Tabor, the abutting property owners will maintain the sidewalks; where properties back up to Mt. Tabor, sidewalks will be maintained by LFUCG.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 8: EMISSION REDUCTIONS

Enter the emissions reductions for the pollutants listed below. Please note the reductions should be in kilograms per day and **each pollutant must have a number listed**. If a pollutant does not have any emission reductions, put a zero in the space. Applicants must use the [FHWA CMAQ Emissions Calculator Toolkit](#) when possible.

VOC	CO	NOx	PM ₁₀	PM _{2.5}
0.101	1.338	0.098	0.010	0.003
Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)

Describe the methodology used to determine each reduction. **Do not attach additional pages to this application.**

The Mount Tabor Rd Sidewalk project adjacent to Mount Tabor Rd has an ADT of 6243 (2021 Street Light Data) was multiplied by the percentage of all commuters who travel by foot or bicycle (3.8%) (from the 2020 Census). We used this information to generate a decrease in AADT of 181 over the 1.3 mile segment. Using the FHWA CMAQ Emissions Calculator.

SECTION 9: LOCAL PUBLIC AGENCY (LPA) ACKNOWLEDGEMENT

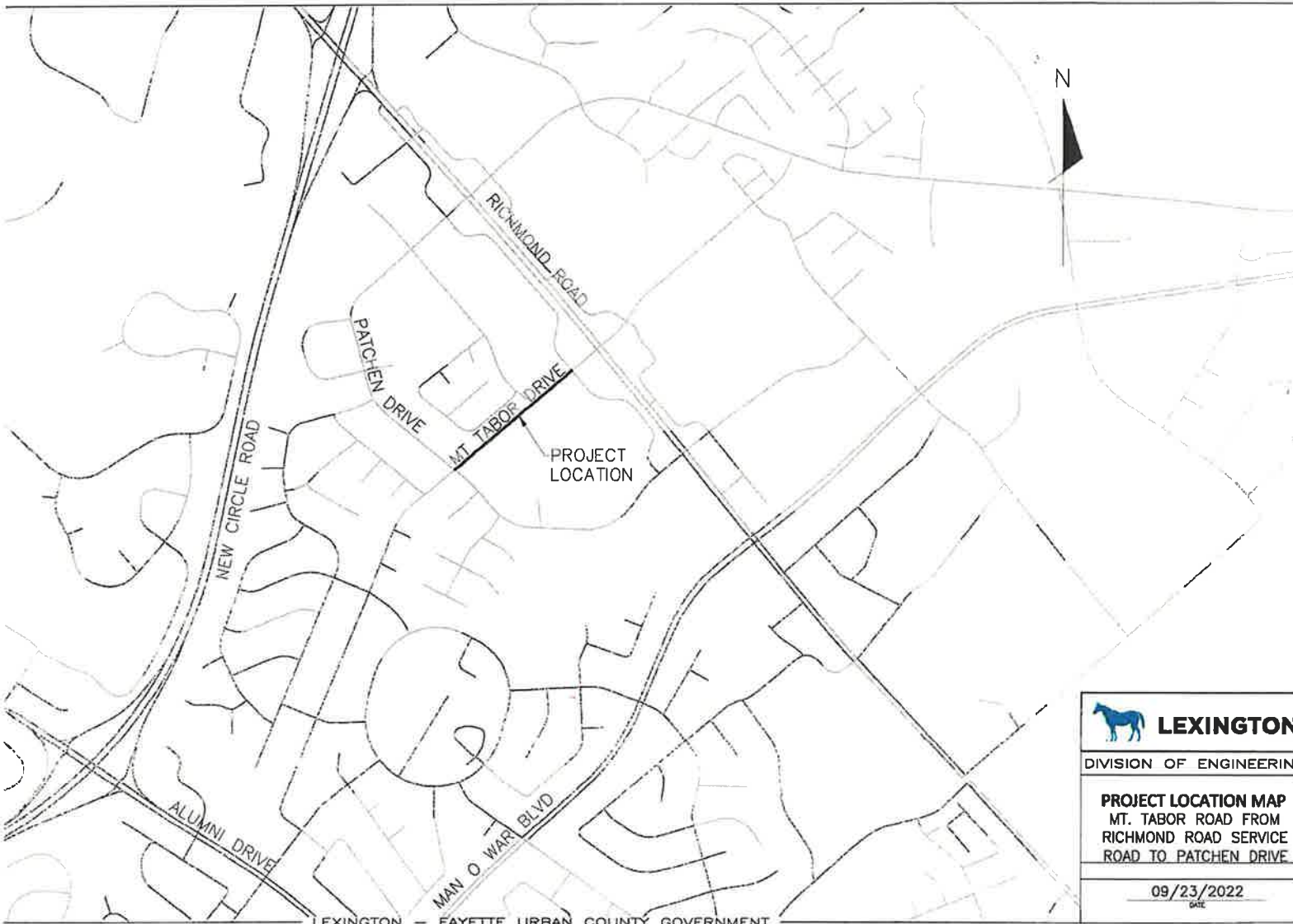
By submitting this application the applicant acknowledges, if selected for funding, the project will follow all requirements outlined in this application, the KTYC Local Public Agency Guide, Memorandum of Agreement, and all applicable federal and state laws and regulations. The applicant further acknowledges failure to follow these requirements or complete the project in the allotted time may result in cancellation of the project and repayment of federal funds.

Linda Gorton

Authorized Signature of LPA Sponsor

9-30-2022

Date



 LEXINGTON
DIVISION OF ENGINEERING
PROJECT LOCATION MAP MT. TABOR ROAD FROM RICHMOND ROAD SERVICE ROAD TO PATCHEN DRIVE
09/23/2022 <small>DATE</small>

Attachment B
Mt Tabor Multimodal Improvements
Lexington-Fayette Urban County Government
September 21, 2022

ITEM #	DESCRIPTION	QUANTITY	UNIT	ENGINEER'S ESTIMATE	
				09 06 2022	
				UNIT PRICE	TOTAL COST
1	Maintain and Control Traffic	1	LS	\$ 50,000.00	\$ 50,000.00
2	Quality Control Services - Allowance	1	LS	10,000.00	\$ 10,000.00
3	Construction Staking	1	LS	10,000.00	\$ 10,000.00
4	Clearing and Grubbing	1	LS	25,000.00	\$ 25,000.00
5	Unclassified Excavation and Earthwork	1	LS	175,000.00	\$ 175,000.00
6	Remove and Replace 6 ft Wooden Fence	667	LF	57.00	\$ 38,019.00
7	Remove and Replace Wooden Plank Fence	412	LF	57.00	\$ 23,484.00
8	Remove and Replace 4 ft Wooden Picket Fence	106	LF	57.00	\$ 6,042.00
9	Dense Graded Aggregate	6745	Ton	40.00	\$ 269,800.00
10	No.2 Stone	500	Ton	45.00	\$ 22,500.00
11	No. 57 Stone	62	Ton	56.75	\$ 3,518.50
12	Formed Class A Concrete and Unfinished Conc.	10	CY	1,200.00	\$ 12,000.00
13	Sidewalk 4-1/2 in. Concrete	855	SY	128.00	\$ 109,440.00
14	8 in Concrete Entrance Pavement	146	SY	148.00	\$ 21,608.00
15	Sidewalk Ramps	56	SY	118.00	\$ 6,608.00
16	LFUCG Concrete Curb and Gutter, Type 1	2510	LF	38.00	\$ 95,380.00
17	Bituminous Base	2388	Ton	120.00	\$ 286,560.00
18	Class 1 Bituminous Surface	596	Ton	120.00	\$ 71,520.00
19	Bituminous Material for Tack Coat	6	Ton	5.00	\$ 30.00
20	LFUCG Curb Box Inlet - Type A	10	EA	7,825.00	\$ 78,250.00
21	LFUCG Curb Box Inlet - Type D	1	EA	5,400.00	\$ 5,400.00
22	Adjust Manhole	2	EA	1,764.00	\$ 3,528.00
23	Std. Manhole Frame and Cover	1	EA	1,221.00	\$ 1,221.00
24	LFUCG Storm Sewer Manhole Type A, 6 ft dia.	1	EA	4,725.00	\$ 4,725.00
25	12 in. PVC Pipe	12	LF	198.00	\$ 2,376.00
26	18 in RCP Storm Sewer	949	LF	162.50	\$ 154,212.50
27	Sodding/Fertilizing/Limestone Application	2782	SY	19.00	\$ 52,858.00
28	4" High Density Polyethylene Underdrain Pipe	730	LF	17.00	\$ 12,410.00
29	Temporary Silt Fence	1261	LF	3.75	\$ 4,728.75
30	Storm Drain Inlet Protection - Silt Trap, Type C	13	EA	265.00	\$ 3,445.00
31	Edge Key	332	LF	66.50	\$ 22,078.00
32	Precast Modular Block Retaining Wall	2329	SF	68.00	\$ 158,372.00
33	Project Sign	2	EA	1,320.00	\$ 2,640.00
34	Roadway Signage	1	LS	7,000.00	\$ 7,000.00
35	42" High Aluminum Handrail w/ Pickets	356	LF	172.50	\$ 61,410.00
36	Imbedded Detectable Warnings - Install	60	SF	46.00	\$ 2,760.00
37	Broken White Line 6 in (2 ft seg, 6 ft skip)	676	LF	0.50	\$ 338.00
38	Dotted White Line - 4 in (3 ft seg, 8 ft skip)	231	LF	1.00	\$ 231.00
39	Lane Line White - 4 in Thermo	363	LF	1.50	\$ 544.50

**Mt Tabor Multimodal Improvements
Lexington-Fayette Urban County Government
September 21, 2022**

ITEM #	DESCRIPTION	QUANTITY	UNIT	ENGINEER'S ESTIMATE	
				09 06 2022	
				UNIT PRICE	TOTAL COST
40	Lane Line Yellow - 4 in Thermo	277	LF	1.50	\$ 415.50
41	Solid Yellow Line - Double 4 in Thermo	1053	LF	3.00	\$ 3,159.00
42	Pave Marking - Thermo Enhanced X-Walk	677	SF	8.00	\$ 5,416.00
43	Pave Striping - Perm Thermo 6 in White	2560	LF	2.00	\$ 5,120.00
44	Pave Marking - Pref Thermo Bicycle Symbol	14	EA	258.00	\$ 3,612.00
45	Pave Marking - Pref Thermo Curved Arrow	10	EA	134.00	\$ 1,340.00
46	Pave Marking - Pref Thermo "ONLY"	3	EA	325.00	\$ 975.00
47	Pave Marking - Thermo Stop Bar 24 in	91	LF	14.50	\$ 1,319.50
48	8 ft Concrete Wheel Stops	8	EA	358.00	\$ 2,864.00
49	4 ft Temporary Construction Safety Fence	139	LF	19.00	\$ 2,641.00
50	Conduit 2" (Rigid Steel)	67	LF	19.50	\$ 1,306.50
51	Conduit 2" (Schedule 40 PVC)	2485	LF	10.75	\$ 26,713.75
52	Electrical Juntion Box	2	EA	2,635.00	\$ 5,270.00
53	Lighting Base	14	EA	1,750.00	\$ 24,500.00
54	Intentionally Left Blank	-	-		
55	Intentionally Left Blank	-	-		
56	Additional 2" PVC SCH 40	50	LF	12.50	\$ 625.00
57	Coupling, Conduit, PVC 2"	28	EA	50.00	\$ 1,400.00
58	Pavement Marker V - Bidirectional Yellow	30	EA	33.00	\$ 990.00
59	MOBILIZATION (MAX 5%)	1	LS	95,135.23	95,135.23
60	DEMOBILIZATION (MIN 1.5%)	1	LS	28,540.57	28,540.57
61	PAYMENT AND PERFORMANCE BOND	1	LS	57,081.14	57,081.14
TOTAL BID (ITEMS 1 THRU 102)					\$ 2,083,461.43
				Contingency 20.00%	\$ 416,692.29
				TOTAL Rounded to nearest \$1000	\$ 2,500,000.00

**ATTACHMENT B Part 2 - Construction Cost Shortfall
Mt. Tabor Road Multimodal Improvements
September 21, 2022**

Item	Federal	Match Required	Total
2017 CMAQ Award	\$ 1,096,000.00	\$ 274,000.00	\$ 1,370,000.00
Engineers Estimate - Sept. 2022	\$ 2,000,000.00	\$ 500,000.00	\$ 2,500,000.00
FUNDING SHORTFALL	\$ 904,000.00	\$ 226,000.00	\$ 1,130,000.00

NOTE: For an explanation of the shortfall spreadsheet above see SECTION 4 on the TC 20-24 CMAQ Program Application form in this submittal.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 1: APPLICANT INFORMATION

PROJECT TITLE

Town Branch Trail Mid-Block Crossing

SPONSOR NAME

Lexington-Fayette Urban County Government

ADDRESS

200 E. Main St.

CITY

Lexington

ZIP

40508

PHONE

859-258-3441

METROPOLITAN PLANNING ORGANIZATION (MPO)

Lexington Area MPO

PROJECT CONTACT

Thomas Clements, P.E.

EMAIL

tclements@lexingtonky.gov

SAI NUMBER (All applicants must complete the Department for Local Government, [Kentucky State Clearinghouse](#) requirements prior to submitting an application. The SAI number provided upon completion of the Clearinghouse requirements must be included.)

KY20108080971

UNIQUE ENTITY IDENTIFIER (UEI) # (all applicants must be registered in the federal [System for Award Management \(SAM\)](#) before applying for funding. Please indicate the UEI assigned upon completion of registration.)

3WTE6

SECTION 2: PROJECT CATEGORY

INSTRUCTION: For the category that most fits your project, check one of the boxes below. Please see the FHWA Interim Guidance for more information on each category. Please note, CMAQ projects cannot add roadway capacity except for HOV lanes. Any project that increases vehicle capacity is ineligible for CMAQ, even if the overall project does show emissions reductions.

- | | |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> Traffic Control Measures (TCMs) | <input type="checkbox"/> Carpooling, Vanpooling, Car Sharing |
| <input type="checkbox"/> Alternative Fuels and Vehicles | <input type="checkbox"/> Freight/Intermodal |
| <input type="checkbox"/> Congestion Reduction and Traffic Flow Improvements | <input type="checkbox"/> Diesel Engine Retrofits & Other Advanced Truck |
| <input checked="" type="checkbox"/> Bicycle and Pedestrian Facilities and Programs | <input type="checkbox"/> Idle Reduction |
| <input type="checkbox"/> Public Education and Outreach Activities | <input type="checkbox"/> Training |
| <input type="checkbox"/> Transportation Management Associates (TMAs) | <input type="checkbox"/> Inspection/Maintenance (I/M) Programs |
| <input type="checkbox"/> Travel Demand Management | <input type="checkbox"/> Experimental Pilot Projects |
| <input type="checkbox"/> Transit Improvements | |

If funding is for operational assistance, has this project previously received federal CMAQ funds? Yes No

SECTION 3: PROJECT STATUS

Have any elements of this project been completed using state, federal or local funds prior to this application for funding?

Yes No

If yes, please indicate the funding source and what has been completed **Design and RW have been completed using CMAQ funding.**



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 4: PROJECT DESCRIPTION

Provide a detailed project description, including the location and all items for which funding is being requested. **A separate Project Cost Estimate should be attached as Attachment B.** Keep in mind all potential costs associated with the project, including but not limited to: Design, Right-of-Way acquisition, archaeology, permits, surveys, tree removal, utilities, construction, construction inspection, etc. For operational assistance projects, include how the project will continue to be funded once the federal funds are expended.

Background: The Town Branch Trail is a shared use path that travels between Masterson Station Park and downtown Lexington. Along the way it connects various parks, neighborhoods, and commercial properties. Some of the notable connections include: Masterson Station Neighborhood (Lexington’s largest neighborhood), The Distillery District (a popular nightlife destination), Townley Park Apartments, and the Melrose/Oakpark Neighborhood. Once completed it will be one of Lexington’s Major Bikeways.

Description: The Town Branch Trail Crossing will provide a connection between McConnell Springs Park and the Town Branch Trail. The primary component of the project is constructing a safe bike/pedestrian crossing from the north side of Old Frankfort Pike to the south side at McConnell Springs Rd. The existing intersection has poor sight distance, heavy truck traffic, and no accommodations for bicyclist or pedestrians. This project will rebuild the intersection to improve sight distance, construct a refuge island, construct ADA compliant ramps, and add signing/striping. In addition, a shared use path will be constructed along McConnell Springs Rd.

Request: The Town Branch Trail Corssing has previously received CMAQ funding for Design, Right-of-Way, and Construction. This request is to fill a shortfall in construction funding due to an increase in construction prices since the original CMAQ award for construction. The amount shown in Section 6 represents the difference between the remaining funding LFUCG has and the current construction cost estimate (Attachment B).

SECTION 5: PURPOSE AND NEED

Explain the purpose of this project and how it will improve air quality.

Trails are an important component of the community’s multimodal strategy to reduce automobile use. McConnell Springs Park is close to the planned Town Branch Trail and is currently primarily accessed by automobile. We anticipate that connecting the park to the Town Branch Trail will reduce the number of automobile trips to the park from the neighborhoods connected to the trail.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 6: PROJECT BUDGET

IMPORTANT: The Office of Local Programs uses the budget and estimate to determine the amount of funding awarded for a project; therefore, the amounts listed for each phase of the project must be as accurate as possible. To find out more information about cost estimates, consult the [Local Public Agency \(LPA\) Guide](#).

Enter the total estimated amount for each phase of the project **OR** the Non-Infrastructure Project Total Cost.

PHASE	FEDERAL DOLLARS	LOCAL MATCH DOLLARS	TOTAL DOLLARS
Design (All design activities including PE, Phase I and II design)			\$0.00
Right of Way			\$0.00
Utilities			\$0.00
Construction (Including construction inspection, materials testing and administration)	\$313,333.33	\$78,333.33	\$391,666.66
Contingency (20%)	\$62,666.67	\$15,666.67	\$78,333.34
TOTAL	\$376,000.00	\$94,000.00	\$470,000.00
State Forces (10% of the total project cost-federal and state)	\$37,600.00	Local Match Not Required	
Non-Highway infrastructure Activities			\$0.00

Maintenance Plan:
 The roadway, including bike lanes, crosswalks, signalization, and drainage improvements will be maintained by LFUCG.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 8: EMISSION REDUCTIONS

Enter the emissions reductions for the pollutants listed below. Please note the reductions should be in kilograms per day and **each pollutant must have a number listed**. If a pollutant does not have any emission reductions, put a zero in the space. Applicants must use the [FHWA CMAQ Emissions Calculator Toolkit](#) when possible.

VOC	CO	NOx	PM ₁₀	PM _{2.5}
0.136	1.803	.132	.013	.004
Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)	Regional Reduction (kg/day)

Describe the methodology used to determine each reduction. **Do not attach additional pages to this application.**

The Town Branch Trail Crossing is located on Old Frankfort Pike at McConnell Spring Rd. The ADT of 6243 on Old Frankfort Pike (2021 Street Light Data) was multiplied by the percentage of all commuters who travel by foot or bicycle (3.8%) (from the 2020 Census). We used this information to generate a decrease in AADT of 244 over the 1.3 mile segment. The FHWA CMAQ Emissions Calculator was then used to determine the numbers shown above.

SECTION 9: LOCAL PUBLIC AGENCY (LPA) ACKNOWLEDGEMENT

By submitting this application the applicant acknowledges, if selected for funding, the project will follow all requirements outlined in this application, the KTYC Local Public Agency Guide, Memorandum of Agreement, and all applicable federal and state laws and regulations. The applicant further acknowledges failure to follow these requirements or complete the project in the allotted time may result in cancellation of the project and repayment of federal funds.

Linda Gorton

Authorized Signature of LPA Sponsor

9.30.2022

Date

Attachment B - Project Construction Cost Estimate

Town Branch Trail Crossing

September 20, 2022

Item No.	Description	Quantity	Unit	Unit Price	Total Price
1	Crushed Stone Aggregate, No 2	3,504	TON	\$35.00	\$122,640
2	Perforated Pipe 4"	2,975	LF	\$15.00	\$44,625
3	Standard Curb and Gutter	2,975	LF	\$30.00	\$89,250
4	Remove Pavement	77	SY	\$20.00	\$1,540
5	Temporary Ditch	815	LF	\$1.00	\$815
6	Clean Temporary Ditch	815	LF	\$1.00	\$815
7	Roadway Excavation	3,280	CY	\$30.00	\$98,400
8	Water (for dust control)	328	M GAL	\$1.00	\$328
9	Clearing and Grubbing	3.4	AC	\$5,000.00	\$17,000
10	Edge Key	91	LF	\$35.00	\$3,185
11	Fabric Geotextile Type IV	10,522	SY	\$2.00	\$21,044
12	Maintain and Control Traffic	1	LS	\$250,000.00	\$250,000
13	Temporary Silt Fence	822	LF	\$2.00	\$1,644
14	Silt Trap C	24	EA	\$200.00	\$4,800
15	Clean Silt Trap C	24	EA	\$50.00	\$1,200
16	Clean Temporary Silt Fence	822	LF	\$1.00	\$822
17	Concrete Multi Use Path	331	SY	\$100.00	\$33,100
18	Staking	1	LS	\$35,000.00	\$35,000
19	Erosion Control Blanket	2,445	SY	\$2.00	\$4,890
20	Seeding and Protection	8,135	SY	\$1.50	\$12,203
21	Aluminum Sheet Signs 0.08 Thick	70	SF	\$25.00	\$1,744
22	Yield Markings	25	EA	\$80.00	\$2,000
23	Pavement Marking Temporary 4"	7,235	LF	\$1.00	\$7,235
24	Pavement Marking Permanent 4"	7,235	LF	\$1.00	\$7,235
25	Pavement Marking Thermo X-Walk 12"	144	LF	\$6.00	\$864
26	Pavement Marker Thermo Stop Bar 24"	25	LF	\$13.00	\$325
27	Pavement Marking Thermo Cross-Hatch	1,375	SF	\$3.50	\$4,813
28	Pavement Marking Thermo Straight Arrow	5	EA	\$200.00	\$1,000
29	Pavement Marking Thermo Turn Arrow	8	EA	\$200.00	\$1,600
30	Pavement Marking Thermo Combo Arrow	1	EA	\$200.00	\$200
31	Temporary Constuction Entrance	300	TN	\$25.00	\$7,500
32	Concrete Washout Pit	1	EA	\$750.00	\$750
33	Detectable Warning Stip	60	SF	\$4.00	\$240
34	24" Culvert Pipe	12	LF	\$120.00	\$1,440
35	15" Storm Sewer	100	LF	\$80.00	\$8,000
36	18" Storm Sewer	1,413	LF	\$95.00	\$134,235
37	24" Storm Sewer	60	LF	\$115.00	\$6,900
38	24" S & F Box Inlet/Outlet	1	EA	\$5,000.00	\$5,000
39	Curb Box Inlet Type A	13	EA	\$6,000.00	\$78,000
40	KYDOT DBI Type 3	2	EA	\$5,000.00	\$10,000
41	KYDOT DBI Type 14	1	EA	\$3,000.00	\$3,000
42	4' Diameter Manhole	2	EA	\$4,000.00	\$8,000
43	Class 3 Asphalt Surface	331	TON	\$130.00	\$43,030
44	Class 2 Asphalt Base	1,986	TON	\$120.00	\$238,320
45	Crushed Stone Base	3,672	TON	\$25.00	\$91,800
46	Rectangular Rapid Flashing Beacon	1	LS	\$65,000.00	\$65,000

Attachment B - Project Construction Cost Estimate

Town Branch Trail Crossing

September 20, 2022

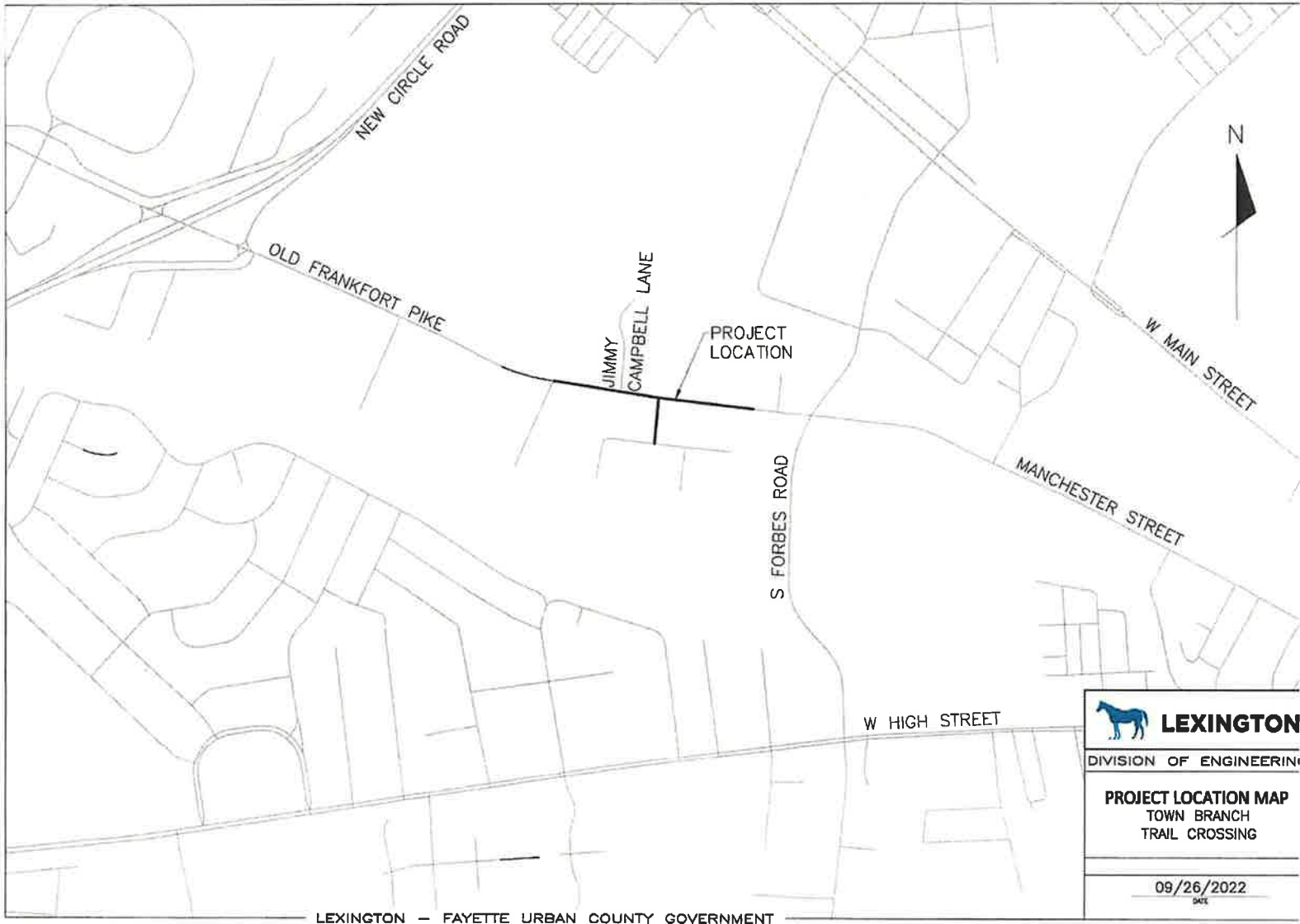
Item No.	Description	Quantity	Unit	Unit Price	Total Price
47	Mobilization (5%)	1	LS	\$73,576.54	\$73,577
48	Demobilization (1.5%)	1	LS	\$22,072.96	\$22,073
49	Payment and Performance Bond (1%)	1	LS	\$14,715.31	\$14,715
Sub Total					\$1,581,896
Contingency (20%)					\$316,379
Total Estimated Project Cost					\$1,898,275

Attachment B (Part II) - Construction Cost Shortfall

Town Branch Trail Crossing

September 20, 2022

Item	Federal	Match Required	Total
2015 CMAQ Award	\$ 408,700.00	\$ 102,175.00	\$ 510,875.00
2019 CMAQ Award	\$ 878,090.00	\$ 219,522.50	\$ 1,097,612.50
Total Obligated/Spent by LFUCG	N/A	N/A	\$ 184,000.00
Total Construction Cost Estimate	N/A	N/A	\$ 1,898,000.00
Funding Shortfall (Rounded)	\$ 376,000.00	\$ 94,000.00	\$ 470,000.00



LEXINGTON — FAYETTE URBAN COUNTY GOVERNMENT

 LEXINGTON
DIVISION OF ENGINEERING
PROJECT LOCATION MAP TOWN BRANCH TRAIL CROSSING
09/26/2022 <small>DMS</small>



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 1: APPLICANT INFORMATION

PROJECT TITLE

Fiber Optic Cable

SPONSOR NAME

Lexington-Fayette Urban County Government

ADDRESS

101 East Vine Street, Suite 300

CITY

Lexington

ZIP

40507

PHONE

859-258-3830

METROPOLITAN PLANNING ORGANIZATION (MPO)

Lexington Area MPO

PROJECT CONTACT

Jeffer Neal, PE

EMAIL

jneal@lexingtonky.gov

SAI NUMBER (All applicants must complete the Department for Local Government, [Kentucky State Clearinghouse](#) requirements prior to submitting an application. The SAI number provided upon completion of the Clearinghouse requirements must be included.)

KY201708080973

UNIQUE ENTITY IDENTIFIER (UEI) # (all applicants must be registered in the federal [System for Award Management \(SAM\)](#) before applying for funding. Please indicate the UEI assigned upon completion of registration.)

VM1GLHWZXA96

SECTION 2: PROJECT CATEGORY

INSTRUCTION: For the category that most fits your project, check one of the boxes below. Please see the FHWA Interim Guidance for more information on each category. Please note, CMAQ projects cannot add roadway capacity except for HOV lanes. Any project that increases vehicle capacity is ineligible for CMAQ, even if the overall project does show emissions reductions.

- | | |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> Traffic Control Measures (TCMs) | <input type="checkbox"/> Carpooling, Vanpooling, Car Sharing |
| <input type="checkbox"/> Alternative Fuels and Vehicles | <input type="checkbox"/> Freight/Intermodal |
| <input checked="" type="checkbox"/> Congestion Reduction and Traffic Flow Improvements | <input type="checkbox"/> Diesel Engine Retrofits & Other Advanced Truck |
| <input type="checkbox"/> Bicycle and Pedestrian Facilities and Programs | <input type="checkbox"/> Idle Reduction |
| <input type="checkbox"/> Public Education and Outreach Activities | <input type="checkbox"/> Training |
| <input type="checkbox"/> Transportation Management Associates (TMAs) | <input type="checkbox"/> Inspection/Maintenance (I/M) Programs |
| <input type="checkbox"/> Travel Demand Management | <input type="checkbox"/> Experimental Pilot Projects |
| <input type="checkbox"/> Transit Improvements | |

If funding is for operational assistance, has this project previously received federal CMAQ funds? Yes No

SECTION 3: PROJECT STATUS

Have any elements of this project been completed using state, federal or local funds prior to this application for funding?

Yes No

If yes, please indicate the funding source and what has been completed



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 4: PROJECT DESCRIPTION

Provide a detailed project description, including the location and all items for which funding is being requested. **A separate Project Cost Estimate should be attached as Attachment B.** Keep in mind all potential costs associated with the project, including but not limited to: Design, Right-of-Way acquisition, archaeology, permits, surveys, tree removal, utilities, construction, construction inspection, etc. For operational assistance projects, include how the project will continue to be funded once the federal funds are expended.

This proposal is to extend the existing fiber optic network to enhance traffic signal and video monitoring capabilities along Man o' War Boulevard from Fort Harrods Drive northward to Versailles Road (U.S. 60), approximately 2.7 miles and along Versailles Road (U.S. 60) from Man o' War Boulevard to Parkers Mill Road inside New Circle Road, approximately 2.3 miles. The project further enhances the coverage in the community and helps to provide redundant communications routes for the advanced traffic management system (ATMS) network gaining a greater benefit from this technology.

All work will be within existing right-of-way and designed by in-house staff in such a way as to avoid conflicts with other underground utilities along the route. The utility infrastructure will consist of a 2" conduit with junction boxes spaced every 500-800 feet, connections to each traffic signal cabinet, a multi-strand fiber optic cable, and an assortment of digital routers.

Each end of this installation will connect to the existing fiber optic network installed with previous CMAQ funding.

SECTION 5: PURPOSE AND NEED

Explain the purpose of this project and how it will improve air quality.

The purpose of this project is to extend traffic management capabilities we have throughout the community to the last section of Man o' War Blvd and Versailles Road outside of New Circle. This will complete the last planned, physical fiber ring, providing robust communications coverage along nearly every arterial roadway in Lexington.



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 6: PROJECT BUDGET

IMPORTANT: The Office of Local Programs uses the budget and estimate to determine the amount of funding awarded for a project; therefore, the amounts listed for each phase of the project must be as accurate as possible. To find out more information about cost estimates, consult the [Local Public Agency \(LPA\) Guide](#).

Enter the total estimated amount for each phase of the project **OR** the Non-Infrastructure Project Total Cost.

PHASE	FEDERAL DOLLARS	LOCAL MATCH DOLLARS	TOTAL DOLLARS
Design (All design activities including PE, Phase I and II design)			\$0.00
Right of Way			\$0.00
Utilities			\$0.00
Construction (Including construction inspection, materials testing and administration)	\$500,000.00	\$125,000.00	\$625,000.00
Contingency (20%)	\$100,000.00	\$25,000.00	\$125,000.00
TOTAL	\$600,000.00	\$150,000.00	\$750,000.00
State Forces (10% of the total project cost-federal and state)		Local Match Not Required	
Non-Highway infrastructure Activities			\$0.00



CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM APPLICATION

SECTION 8: EMISSION REDUCTIONS

Enter the emissions reductions for the pollutants listed below. Please note the reductions should be in kilograms per day and each pollutant must have a number listed. If a pollutant does not have any emission reductions, put a zero in the space. Applicants must use the FHWA CMAQ Emissions Calculator Toolkit when possible.

Table with 5 columns: VOC, CO, NOx, PM10, PM2.5. Each column contains a numerical value and the label 'Regional Reduction (kg/day)'.

Describe the methodology used to determine each reduction. Do not attach additional pages to this application.

The FHWA CMAQ Emissions Calculator was used to determine emissions reductions. Baseline inputs are for the 5 mile corridor with 6 traffic signals in an urban setting with a posted speed limit of 50 mph and 5 peak hours covering both AM and PM peak periods during calendar year 2023. Traffic conditions modeled include the following:

Table with 3 columns: Metric, Average Peak Hour, Average Non-Peak Hour. Rows include Total Volume on corridor, Existing Total Corridor Delay, Truck Percentage, and Average Level of Service per intersection.

SECTION 9: LOCAL PUBLIC AGENCY (LPA) ACKNOWLEDGEMENT

By submitting this application the applicant acknowledges, if selected for funding, the project will follow all requirements outlined in this application, the KTYC Local Public Agency Guide, Memorandum of Agreement, and all applicable federal and state laws and regulations. The applicant further acknowledges failure to follow these requirements or complete the project in the allotted time may result in cancellation of the project and repayment of federal funds.

Handwritten signature of Linda Gorton

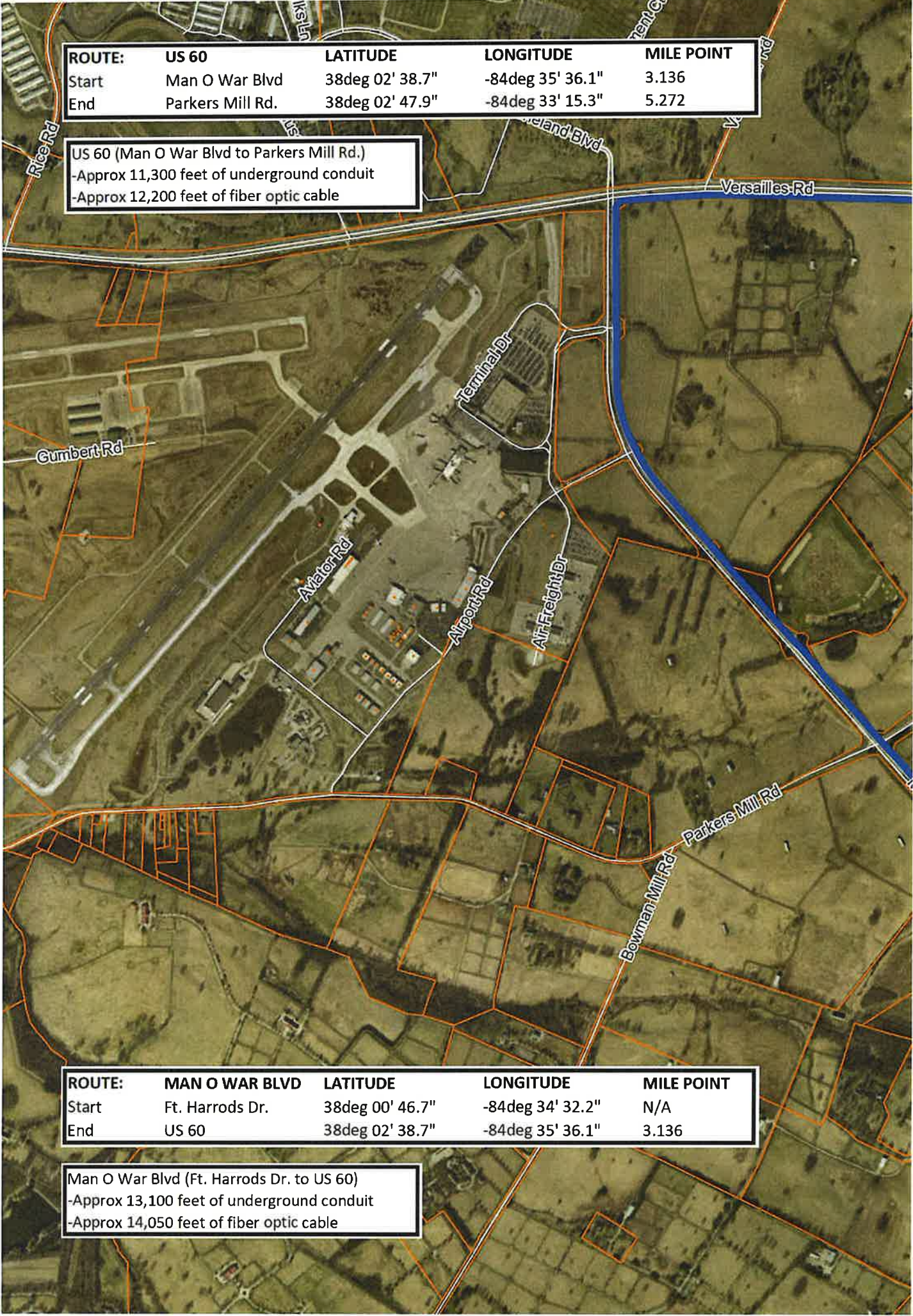
Authorized Signature of LPA Sponsor

Handwritten date 9-30-2022

Date

ROUTE:	US 60	LATITUDE	LONGITUDE	MILE POINT
Start	Man O War Blvd	38deg 02' 38.7"	-84deg 35' 36.1"	3.136
End	Parkers Mill Rd.	38deg 02' 47.9"	-84deg 33' 15.3"	5.272

US 60 (Man O War Blvd to Parkers Mill Rd.)
 -Approx 11,300 feet of underground conduit
 -Approx 12,200 feet of fiber optic cable



ROUTE:	MAN O WAR BLVD	LATITUDE	LONGITUDE	MILE POINT
Start	Ft. Harrods Dr.	38deg 00' 46.7"	-84deg 34' 32.2"	N/A
End	US 60	38deg 02' 38.7"	-84deg 35' 36.1"	3.136

Man O War Blvd (Ft. Harrods Dr. to US 60)
 -Approx 13,100 feet of underground conduit
 -Approx 14,050 feet of fiber optic cable

ATTACHMENT "B"

Detailed Engineer Estimate

MOW (Ft Harrod Drive to Versailles)				
Versailles (MOW to Parkers Mill)				
	Unit	Quantity	Cost	Total
Conduit, Jboxes, Boring, Etc Based on Previous Projects	Ft	25,000	\$ 20.93	\$ 523,250
Contractor Provide and Install Fiber (72-Count)	Ft	28,000	\$ 3.25	\$ 91,000
Swtiches/Connecting Equipment	EA	6	\$ 1,791.65	\$ 10,750
Total				\$ 625,000
Contingency		20%		\$ 125,000
Total with Contingency				\$ 750,000

ATTACHMENT C – MAINTENANCE PLAN

The proposed communications infrastructure will be maintained by the city as part of our municipal fiber optic network. We have two in-house personnel with primary functions of design, operation, and maintenance of approximately 95 miles of facilities. We are a member utility in the Kentucky 811 so we routinely receive locate notices through that system to ensure our underground facilities are not damaged.