

		Dat	a Needs Ana	lysis				KY 56
Jnion Scoping Study							Safety	
I. PRELIMINARY PROJECT INFORMATION								
County:	Union		Item No.:			2-8020	3	
Route Number(s): [*]	KY 56		Road Name:					
Program No.:	15236		UPN: FD52		52	113 KY 56		6 013-020
Federal Project No.:	STP 5049007		Type of Wo	Type of Work:		Safety		ty
2022 Highway Pl	an Project De	escription:	-					
Address the service, sa		•	56 from Mo	rganfield	d to KY	141		
				8				
Beginning MP:	13.100		Ending MP:		19.800		Project Len	gth: 6.700
In TIP: 🗆 Yes 🖾 No				ļ	Use PD	P/CHAF	<u>to Verify Pr</u>	oject Data
State Class.: Primary	Seconda	iry		Route i	is on:	□ NHS		🗆 Ext Wt
Functional Class.: DU	rban 🗹 Rural	Arterial	-	Truck C	Class.:	A	▼ % Trucl	
MPO Area: Not Applicab			-	Terrain				-
ADT (current):		(2020-2021)		i ci i di i		Rolling		
				_				
				🗆 Pa	artial S	Spacing:		•
Existing Bike Accommo	Undivided		ed (Type):	_	Dodu			
-	L	Shared Lane			Peu.	□ Sidew		N
-	35 mph	□ 45 mph		5 mph			(Specify):	see Notes
KYTC Guidelines Preliminarily Based on : 55 MPH Proposed Design Speed								
<u>COMMON GEOMETRIC</u> Roadway Data: EXISTING PRACTICES**								
Roadway Data: No. of Lanes			PRA		-	Evict	ing Down D	lans available?
Lane Width	2 10'			<u>2'</u> 12'				lans available?
	<u>10'-</u>			<u>12'</u> 6'		~	Yes D No	
Shoulder Width	<u>0'-</u> :	10_		<u>6'</u>		_		lans: 1929/1930
Max. Superelevation***				<u>8%</u>				orecast Requested
Minimum Radius***		N/	<u>-</u>	<u>960'</u>			Date Reques	
Maximum Grade	<u>8%</u>			<u>5%</u>		Mapping/Survey Requested		
Minimum Sight Dist.	*	a 1	4	<u>495'</u>			Date Reques	sted:
Sidewalk Width(urban)	<u> </u>	<u>4'</u>		<u>5'</u>			Type:	•
Clear-zone [†]				<u>36'</u>				
Project Notes/Design Exce	eptions?	*T	he first 0.65	miles is	s urban	w/SW a	ind C&G (3	5 MPH)
Bridge No.: [‡]	<u>113B0</u>	0021N	<u>113E</u>	8000191	1			
Sufficiency Rating	<u>94</u>	.2	<u>(</u>	<u>94.2</u>				
Total Length	<u>24</u>	.9	<u>-</u>	<u>27.9</u>		<u>Exist</u>	ing Geotech	Data Available?
Width, curb to curb	<u>N</u>	<u>A</u>		NA			□ Yes □	No
Span Lengths	<u>11</u>	2		<u>12.1</u>				110
Year Built	<u>19</u>	<u>30</u>	<u>1</u>	<u>930</u>				
Posted Weight Limit	<u>no</u>	ne	<u>r</u>	<u>none</u>		0	etour Lengtl	n(s): 23.100
Structurally Deficient?	<u>N</u>	<u>o</u>		<u>No</u>				
Functionally Obsolete?								
Existing Bridge Type	DBL R	СВС		DBL RC	BC			
*If more than one road is includ **Based on proposed Design Sp ***AASHTO's A Policy on Geom +AASHTO's Roadside Design Gu ‡If more than two bridges are b	peed netric Design of Hi uide	ghways and Stre	ets					

Data	KY 56							
Jnion S	Safety							
II. PROJEC	T PURPOSE	AND NEED						
A. Legislation								
This project was funded in the 2022 enacted plan as	Funding	Phase	Year	Amount				
shown.	STP1	D	2024	\$2,800,000				
	STP1	R	2025	\$3,500,000				
	STP1	U	2026	\$3,800,000				
	STP1	С	2027	\$20,000,000				
B. Project Status								
This project is expected to be advertised in Septembe	r 2022.							
C. System Linkage								
This route connects to the US 60 Bypass in Morganfield, US 60 in downtown Morganfield, and KY 141. This route provides								
	ld. US 60 in de	owntown Morga	anfield. and KY	141. This route provide				
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel								
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp	ection of KY 5	6 that has a rive	r crossing at th					
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development This route appears to serve mostly residential and agr	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development This route appears to serve mostly residential and agr	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development This route appears to serve mostly residential and agr	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development This route appears to serve mostly residential and agr	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development This route appears to serve mostly residential and agr	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development This route appears to serve mostly residential and agr	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				
This route connects to the US 60 Bypass in Morganfiel connection to services in Morganfield as well as the se D. Modal Interrelationships This route does not provide direct access to any riverp E. Social Demands & Economic Development This route appears to serve mostly residential and agr	ection of KY 5	6 that has a rive	odal facility.	ne Shawneetown bridge				

Data Needs Analysis Scoping Study

KY 56 Safety

II. PROJECT PURPOSE AND NEED (cont.)

F. Transportation Demand

Historical counts show a fairly stable ADT for the last few years. The latest count for station 113282 was done in 2020 With an ADT of 1795. However, The ADT ranges from 1590 (2020) to 2015 (2021) along this route and adjoining station information has also been provided as part of the documentation at the end of the DNA study.

G. Capacity

This project is not expected to add capacity. Other than the 0.65 miles of urban typical section, this route currently has two lanes ranging from 10' to 12' with little shoulders. There is no known issue with capacity on this route.

H. Safety

There were 74 crashes on this route from 2017-2022. Of those crashes, 12 were rear ends, 7 were sideswipes and 40 were single vehicle crashes. This included 15 animal collisions and 8 roadway departure crashes. The 7 sideswipes could be atributed in part to the narrow lanes. The lack of shoulders may have contributed to some of the vehicular run offs. Using the CDAT data from 2016-2020, this section of KY 56 had an Excess Expected Crashes (ECC) of 7.2, and a Level of Service of Safety (LOSS) of 3.

I. Roadway Deficiencies

The first 0.65 miles of this route within the city limits of Morganfield from MP 13.1 to MP13.75 has an urban typical section. The lanes are narrow. Some of the sidewalks have been replaced but here may be other spots that need addressing. There are multiple access points at an odd intersecton at Park Street (MP 13.5) that needs further review for potential improvements. The rural section also has narrow lanes and little to no shoulders. There is a"y" intersection at KY 758 that would need addressing. There are some horizontal and vertical deficiencies that should be reviewed for potential improvement along with traffic flow issues at the intersection with KY 141.

		Data N	eeds Analysis			KY 56
Union		Sco	ping Study			Safety
	III. PF	RELIMINARY E	NVIRONMENTAL O	VERVIE	N	
A. Air Quality						
Project is in: 🛛 🗹 Atta	inment area	🗆 Nonattainme	ent or Maintenance Area	C	DM 2.5 Count	y
STIP Pg.#: Need to add	STIP		TIP Pg.#:			
No air quality impacts are	anticipated.					
	_					
B. Archeology/Historic						
Known Archeological or		-				
Archaeological and histori	c resources are	e nearby the pro	ject. Surveys will be r	required.		
C Threatened and End	angarad Spac					
C. Threatened and Enda Potential impacts to T & E	<u> </u>		har spacias			
	species (bats).	NO Effect all ot	ner species.			
D. Hazardous Material	s					
Potentially Contaminate		nt 🗆	Potential Bridge or Struc	rture Dem	olition	
Contaminated soil location	-		-		JILION	
		. AT hase I site				
E. Permitting						
Check all that may apply:	☑ Waters of th	ne US □ MS4 a	rea 🛛 Floodplain Impa	acts 🗆 N	Javigable Water	s of the US Impacts
Are 401/404 Permits likely				ts to:		Stream/Lake/Pond
	-					cial Use Waters
Minor stream impacts are			DOW IWQC			
winter stream impacts are	anticipated. (E					
F. Noise						
Are existing or planned no	oise sensitive re	eceptors adjacer	nt to the proposed pro	oject?	🗹 Yes 🛛	□ No
Is this considered a "Type I P	oject" according	g to KY	TC Noise Analysis and	d Abatem	ent Policy?	🗹 Yes 🔲 No
No noise impacts are antic	cipated.					
G. Socioeconomic						
Check all that may apply:		me/Minority Popula	ations 🗆 Re	elocations	🗆 Local La	ind Use Plan available
Relocations not anticipate	d.					
H. Section 4(f) or 6(f) F						
The following are present on			on 4(f) Resources		ion 6(f) Resourc	ies
Morganfield Park is adjacent	to road project.	Section 4(f) impa	cts may occur as a resul	t of the pr	oject.	
A			CE Level 2			-
Anticipated Enviro	nmental Doci	<u>ument:</u>				•

Data Needs Analysis Scoping Study

KY 56 Safety

IV. PROJECT NEED, PURPOSE & SCOPE

A. Need:

The project is needed to provide a safe and reliable route for residential and commercial traffic to and from Morganfield. This section of KY 56 Connects US 60 in downtown Morganfield to the Morganfield Bypass as well as KY 141. It provides the connection to businesses and services in Morganfield as well as residential properties. There is an urban typical section with a 35 MPH speed limit within the city limits of Morganfield from MP 13.1 to MP 13.75. From this point, this roadway is narrow with very little shoulders. A few geometric deficiencies and undesirable intersection layouts occur throughout the corridior. This section of KY 56 also has a few access management issues that needs to be reviewed for potential improvements.

B. Purpose:

The purpose of this project is to improve safety, traffic flow, and operation of KY 56.

C. Scope:

To make necessary improvements to KY 56 from downtown Morganfield (MP 13.1) to the intersection with KY 141 (MP 19.8). This would include addressing geometric deficiencies, improving operational issues, and addressing any other concerns.

Data Needs Analysis

KY 56 Safety

Union	Scoping Study			Safety				
V. PROJECT ESTIMATE & METHODOLOGY								
Estimate Methodology:	(Current Estimate						
Estimate Methodology: Estimate v	vas based on knowledge of similar projects .	<u>Phase</u>		<u>Estimate</u>				
		Planning						
		Design	\$	2,800,000.00				
		R/W	\$	3,500,000.00				
		Utilities	\$	3,800,000.00				
		Const	\$	20,000,000.00				
		Total	\$	30,100,000.00				

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

КU

Contact -Hunter Gipson **Electrical Engineer I** 195 Hubert Reid Drive Earlington, KY 42410 M: 270-841-0354 O: 270-383-6000

AT&T

Contact - Scott Roche 1340 E John Rowan Blvd Bardstown, KY 40004 502-348-4528

Windstream

Contact -James Galvin 111 South Main Street Elizabethtown, KY 42701 270-765-1818

City of Morganfield

Contact: Les Piper 526 N. Court Street Morganfield, KY 42437 270-389-2186

Kenergy

Contact: Scott Atherton P.O. Box 1389 Owensboro, KY 42302-1389 O: 800-844-4832 D: 270-689-6110

Spectrum

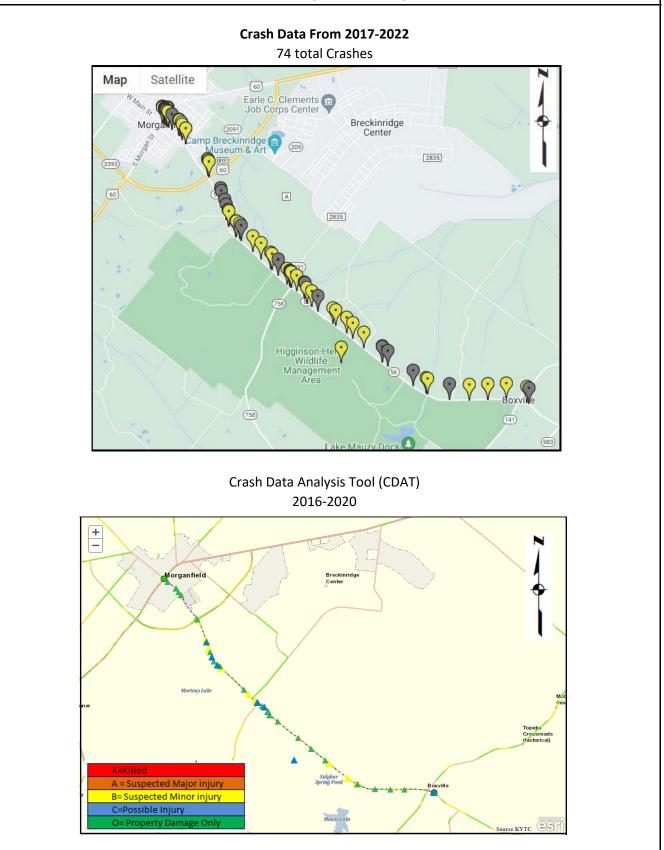
Contact - John Wade 250 Madison Square Dr. Madisonville, KY 42431 502-253-2710

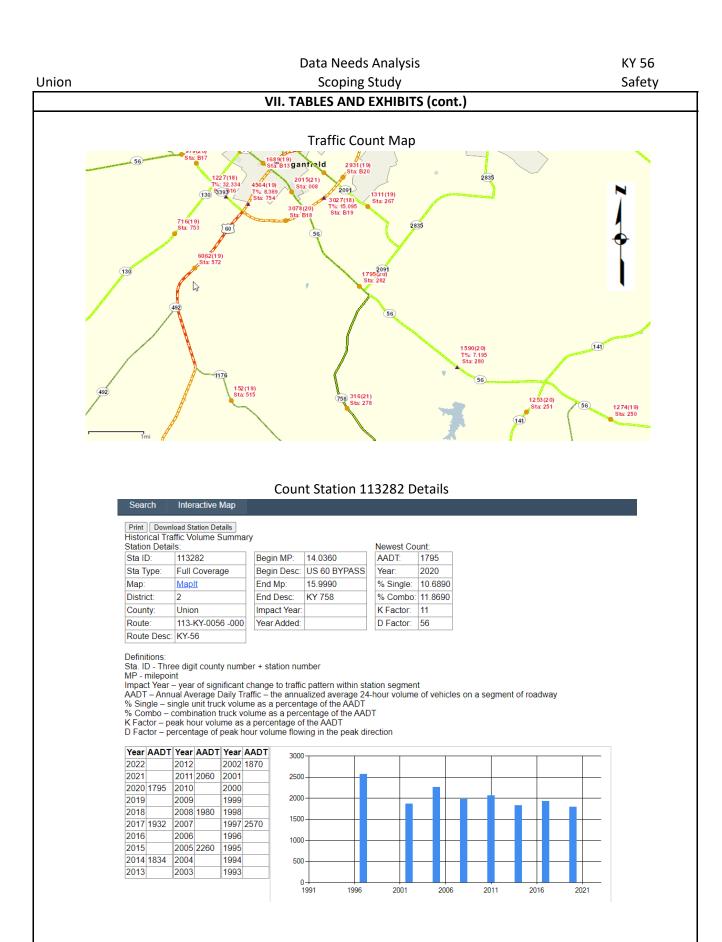
Union County Water District

Contact - Gary Sheffer 409 N Court Street Morganfield, KY 42437 270-389-3868

Data Needs Analysis Scoping Study

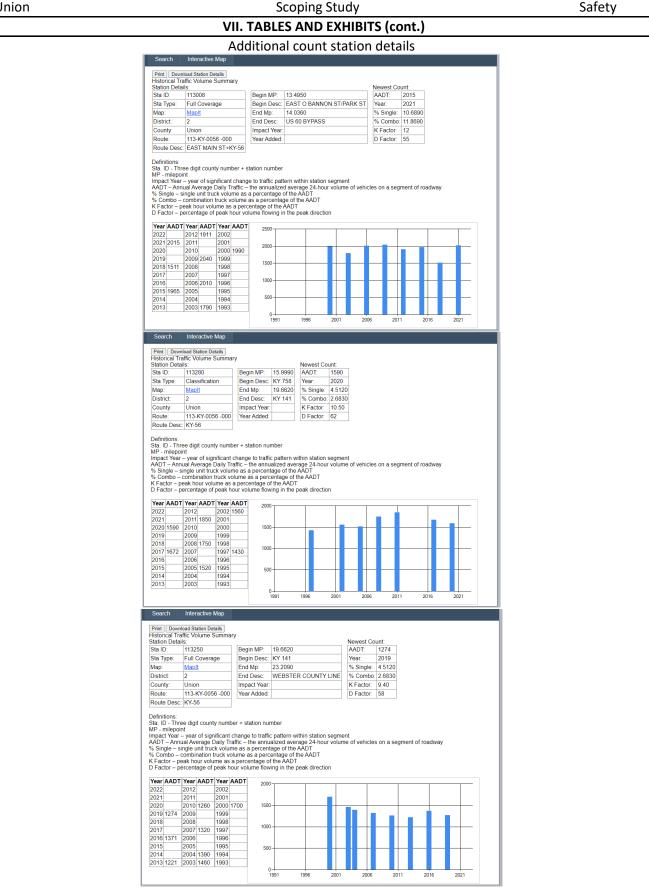
VII. TABLES AND EXHIBITS





Data Needs Analysis

KY 56 Safety



Data Needs Analysis Scoping Study VII. TABLES AND EXHIBITS (cont.)



KY 56 looking South at US 60



KY 56 looking north at US 60



Looking north at the beginningof the urban section



KY 56 Looking north at US 60 Bypass



KY 56 looking north at KY 2091



Looking north at the inetersection with KY 758



KY 758 looking east at KY 56



Looking north at the bank of the cemetary



Looking north at KY 141



Looking south at KY 141