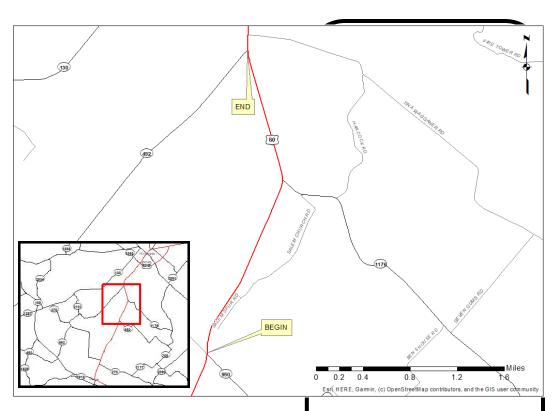
$\mathbf{D}_{\mathsf{ata}}$ 

 $N_{\rm eeds}$ 

 $A_{\text{nalysis}}$ 



# **Scoping Study**



US 60 from KY 950 to KY 492

**Union County** 

Item No. **2-80202.00** 

Prepared by

KYTC District 2 Planning

July 2022







US 60 Safety

I. PRELIMINARY PROJECT INFORMATION												
County:	Union		Item No.:			2-80202						
Route Number(s):*	US 60		Road Name:									
Program No.:	15233		UPN: FD52		52	113	3	US 60		010-0	)14	
Federal Project No.:	STP 0601214		Type of	Wo	rk:				Safet	у		
2022 Highway Pl	an Project Do	escription:	_'									
Address Safety and Service concerns of US 60 from the KY 950 to KY 492.												
Beginning MP:	10.200		Ending N	MP:	1	13.290		Pro	oject Leng	th:	3	3.090
In TIP: ☐ Yes ☑ No					Ţ	Jse PD	P/CHAF	to \	erify Pro	ject	Data	
State Class.:   Primary	☐ Seconda	nry			Route i	s on:	□ NHS	[	☑ NN [	⊒ Ext	t Wt	
Functional Class.:   U	rban 🗵 Rural	Arterial	•		Truck C	lass.:	AAA	•	% Trucks	5:	11.0	25
MPO Area: Not Applicab	le	·	•		Terrain	:	Rolling			_		
ADT (current):	<u>4784</u>	2019										
Access Control:	□ None ☑ P	ermit 🗆 Fu	lly Controlle	ed	□ Pa	artial S	Spacing:				_	
Median Type:	☑ Undivided		ed (Type):									
Existing Bike Accommo		Shared Lane	( )  -)	_	▼	Ped:	☐ Side	walk	_			
_	35 mph	☐ 45 mph		<b>☑</b> 55	mph		☐ Othe		ecify):			
KYTC Guidelines Prelin	ninarily Base	d on :		55	MPH Pr	oposed		٠.				
	<del></del>		COMN	ИON	GEOME	TRIC						
Roadway Data:	EXIS	TING	<u>P</u>	RAC	TICES**							
No. of Lanes	2	<u>2</u>			<u>2</u>		Exist	ting	Rdwy. Pla	ıns a	ıvailab	le?
Lane Width	<u>11-</u>	12'		1	<u>12'</u>		<b>V</b>	Yes	□ No			
Shoulder Width	<u>4-1</u>	<u>10'</u>			<u>8'</u>				Year of Pla	ns: 1	.965 /1	1969
Max. Superelevation***				8	<u>8%</u>				Traffic Fo	recas	st Requ	<u>ested</u>
Minimum Radius***	1145	5.94 <u>'</u>		9	<u>60'</u>			Da	ite Request	ed: <u>N</u>	1A	
Maximum Grade	<u>6</u> '	<u>%</u>		5	<u>5%</u>			Ma	apping/Surv	ey Re	quested	I
Minimum Sight Dist.					<u>95'</u>			Da	ite Request	ed:		
Sidewalk Width(urban)				1	<u>NA</u>				Type:			•
Clear-zone <sup>†</sup>				4	<u> 40'</u>				'			
Project Notes/Design Exce	eptions?											
Bridge No.: <sup>‡</sup>	<u>113B0</u>	0029N	(	(Brid	lge #2)							
Sufficiency Rating	<u>69</u>	) <u>.9</u>										
Total Length	<u>10</u>	<u> </u>					Exis	ting (	Geotech D	ata A	<u> \vailabl</u>	<u>e?</u>
Width, curb to curb	<u>4</u>	<u>5</u>						□ Y	es ☑ N	d٥		
Span Lengths	<u>3</u>	<u>9</u>										
Year Built	<u>19</u>	<u>70</u>										
Posted Weight Limit	<u>N</u>	<u>A</u>						Deto	ur Length(	s):		79.7
Structurally Deficient?	<u>N</u>	<u>o</u>										
Functionally Obsolete?												
Existing Bridge Type	3- RCDG	Spans										
*If more than one road is inclue **Based on proposed Design Sg ***AASHTO's A Policy on Geom +AASHTO's Roadside Design Gu ‡If more than two bridges are le	oeed netric Design of Hi iide	ghways and Stre	ets	ts.								

US 60

Union	Scoping Stud	У		Safety			
II. PROJE	CT PURPOSI	AND NEED					
A. Legislation							
This project was funded in the 2022 enacted plan as	Funding	Phase	Year	Amount			
shown.	STP2	D	2024	\$1,500,000			
	STP2	R	2025	\$3,500,000			
	STP2	U	2026	\$2,500,000			
	STP2	С	2027	\$17,000,000			
	3112		2027	\$17,000,000			
B. Duningt Status							
B. Project Status  This project is expected to be advertised in August 2	กวา						
This project is expected to be advertised in August 20	022.						
C. System Linkage							
This route is on the National Truck Network and prov	vides a connec	tion between t	wo of the large	est communities in Union			
County. It connects to KY 56 (via KY 3393 in Morganf	ield) which ha	s a river crossir	ng at the Shawi	neetown bridge.			
D. Modal Interrelationships							
This section of US 60 does not directly connect with a	an airnort or i	atormodal facil	ity				
This section of 03 00 does not directly connect with	an an port or n	iterinoual racii	ity.				
E. Social Demands & Economic Development							
US 60 is on the National Truck Network from KY 109	to the Morga	nfiled Bypass.	This section of	the route serves mostly			
farms, but does provide access to the hospital, a mid	dle school and	d a high school	which woud ha	ve student drivers. There			
is a lot of coal traffic on this route. This route connec	ts to KY 56 at	Morganfied via	KY 3393.				

# Union **Scoping Study** Safety II. PROJECT PURPOSE AND NEED (cont.) F. Transportation Demand The historical traffic counts show a fairly stable ADT for the last few year. The latest traffic count was done in 2019 with and ADT of 4784. G. Capacity This project is not intended to add capacity. H. Safety There were 53 crashes on this route from June 2018 to June 2022. Of those crashes 28 were single vehicle crashes and 12 were rearends. There was one fatality that was not in this time frame but was included in the CDAT data (2019-2020). Using CDAT data from 2016- 2020, there was a Excess Expected Crashes (ECC) -8.15, and a Level of Service of Safety (LOSS) of 2.

### I. Roadway Deficiencies

This route has 3 skewed intersections at KY 950, KY 1176, and KY 492. In addition, US 60 possesses little to no shoulder. Finally, there are a few horizontal and vertical curve deficiencies to be addressed.

# Data Needs Analysis Scoping Study

US 60

Union		Sco	oing Study			Safety
	III. F	RELIMINARY EI	NVIRONMENTAL	OVERVIEW	1	
A. Air Quality						
Project is in:	☑ Attainment area	□ Nonattainme	nt or Maintenance Area	a 🗆	PM 2.5 County	
STIP Pg.#:			TIP Pg.#:			
No air quality im	pacts are anticipated.					
B. Archeology	/Historic Resources					
	ological or Historic Resour	ces are present				
	are present, however, a	•	nacts are always no	ssible and a	survey will he re	nuired
The Miles of	6 6. 656() 611.61.61.)		sacts and armays por	20.010 0.10 0	5a. rc, 2c .c	.44
C. Threatened	and Endangered Spe	ecies				
Potential impact	s to T & E species (bats	).				
D. Hazardous	Materials					
	ontaminated Sites are pres	ent 🗆	Potential Bridge or Stru	ucture Demoli	tion	
	where contaminated					is needed
Several locations	where containinated .	ons may be prese	ent are along the pr	oject. A i na	36 1 0336331116110	is needed.
E. Permitting						
Check all that ma	ay apply: 🗵 Waters of	the US 🗆 MS4 ar	ea 🗌 Floodplain Imp	oacts 🗆 Na	vigable Waters of t	the US Impacts
Are 401/404 Per	mits likely to be requir	ed? ☑ Yes 🗆	No Impa	cts to: 🗵 W	etlands 🗵 Strea	am/Lake/Pond
	ACE LON	W □ ACE IP □	DOW IWQC		☐ Special U	Jse Waters
Minor stream im	pacts are anticipated.					
F. Noise						
	lanned noise sensitive	recentors adjacer	it to the proposed p	roject?	☑ Yes □ No	
	a "Type I Project" accordir		TC Noise Analysis ar	-		Yes ☑ <b>No</b>
	s are anticipated.	<u>KT</u>	TC NOISE Allalysis al	id Abateme	int rolley:	res 🗹 NO
140 Holse Impact.	s are arricipated.					
G. Socioecono	mic					
Check all that ma	ay apply: 🗆 Low Inco	me/Minority Popula	tions 🗆 F	Relocations	☐ Local Land U	se Plan available
Relocations not a	anticipated.					
, ,	or 6(f) Resources					
	present on the project:		on 4(f) Resources	☐ Section	n 6(f) Resources	
No Section 4(f) or (	6(f) impacts are anticipate	d.				
Anticinate	d Environmental Doo	rument:	CE for Minor Projects			•
Anticipate	a Environmental Dut	Janiene.				

Union Scoping Study

IV. PROJECT NEED, PURPOSE & SCOPE
A. Need:
This section of US 60 is a major connection between Sturgis and Morganfield. It provides access to a high school, a middle school and the county hospital. This section has very little shoulders, a few geometric deficiencies, and undesirable intersection layouts. This project is needed to provide a safe and reliable route for those accessing services within the corridor as well as residential and commercial traffic traveling to Morganfield. In addition, this section of US 60 is part of the truck network in Union County which is vital to businesses.
B. Purpose:
The purpose of this project is to improve safety, traffic flow, and function of US 60.
C. Scope:
To make necessary improvements to US 60 from the intersection with KY 950 (MP 10.2) to the intersection
with KY 492 (MP 13.29). This would include addressing geometric deficiencies, improving functionality issues,
and addressing any other concerns.

	V DDG 1505 50510 4455 G 1455110 D G1 G GV	
Union	Scoping Study	Safety
	Data Needs Analysis	US 60

V. PROJECT ESTIMATE & METHODOLOGY					
Estimate Methodology:	urrent Estimate				
This estimate is based on similar projects.	Phase	<u>Estimate</u>			
	Planning				
	Design	1,500,000			
	R/W	3,500,000			
	Utilities	2,500,000			
	Const	17,000,000			
	Total	24,500,000			

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# Data Needs Analysis Scoping Study

US 60 Safety

## VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

#### ΚU

Union

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

#### АТ&Т

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

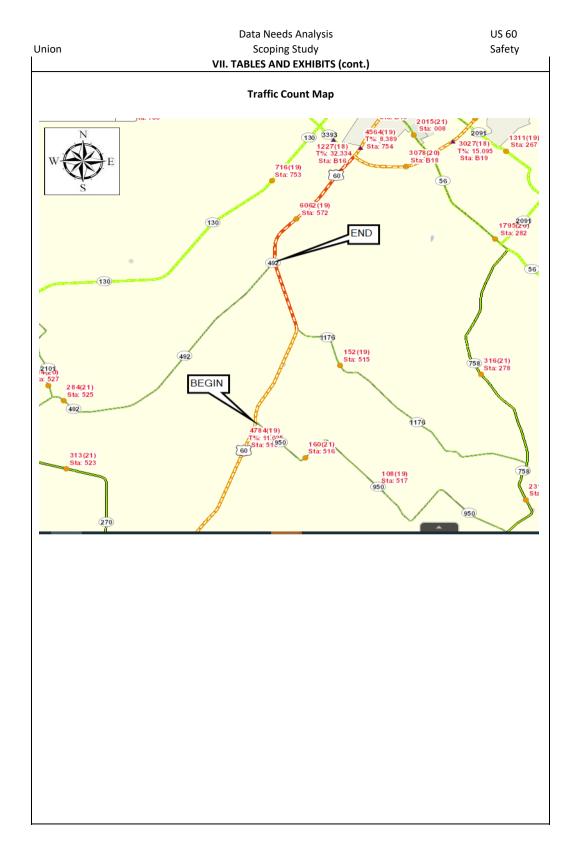
## Spectrum

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

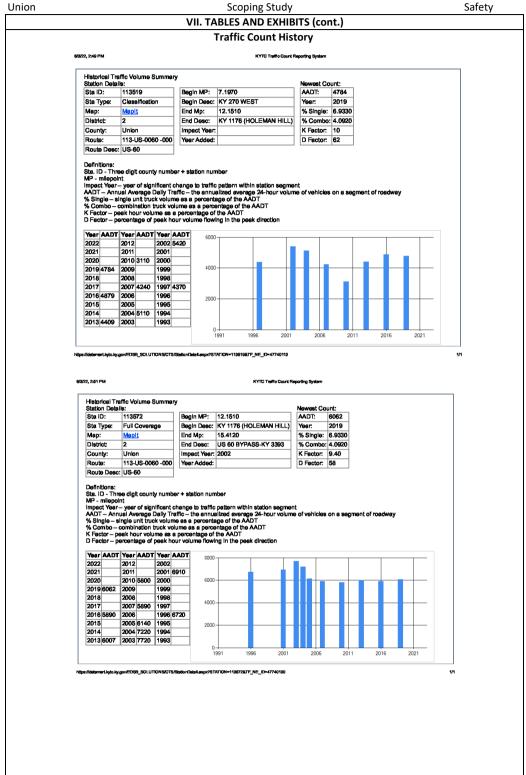
# **Union County Water District**

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

7/25/2022



Union



# VII. TABLES AND EXHIBITS (cont.)

## Photos



On KY 950 looking east to the intersection with US  $60\,$ 



On KY 950 looking South on US 60



US 60 looking west at KY 1176



On KY 1176 looking south at US 60

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Union

# VII. TABLES AND EXHIBITS (cont.)

# Photos



On US 60 looking south at KY 492



On KY 492 looking west at US 60



On US 60 looking south near schools

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