

2-8951.00	Data Needs Analysis				KY 54			
Ohio			Scoping Study			MINOR WIDENING		
I. PRELIMINARY PROJECT INFORMATION								
County:	Ohio		Item No.:		2-8951.00			
Route Number(s): [*]	KY 54		Road Name	-		st Main St		
Program No.:	135320		UPN:	FD04	092	0054		007-008
Federal Project No.:	STP 9031 03		Type of Wo	ork:		MINOR WI	DENI	NG
	lan Project D	•					_	
IMPROVE SAFETY ON K						CLUDING C	URB	AND
GUTTER AND ADDRESS		IARP TURNS						2.040
Beginning MP:	7.047		Ending MP:	7.995				0.948
In TIP: Yes Vo					e Project Ir	nformation	in Clea	arview
State Class.: Primar	, _	-		Route is on:	☐ NHS		E>	kt Wt
Functional Class.:	Urban 🔽 Rural	Collector	-	Truck Class.:	AAA	% Truc	ks:	13.1
MPO Area: Not Applica	ble		•	Terrain:	Rolling		•	
ADT (current):	<u>3281</u>	2020			_			
Access Control:	None 🗸	Permit 🛛 F	ully Controlled	Partial	Spacing:			•
Median Type:	✓ Undivided	Divid	ded (Type):					
Existing Bike Accommo	odations:	Shared Lane		▼ Ped:	✓ Sidew	alk		
Posted Speed:	2 35 mph	45 mph	55	5 mph	Other	(Specify):		
KYTC Guidelines Prelin	ninarily Base	ed on :		MPH Proposed	Design Sp	eed	_	
							-	
Roadway Data:		TING	PRAC	CTICES**				
No. of Lanes		<u>2</u>		2		ng Rdwy. Pl		<u>/ailable?</u>
Lane Width		<u>-17'</u>	<u>11</u>	<u>L' min</u>	<u>ر</u> ک			
Shoulder Width	<u>2'</u>	-3'		<u>6'</u>	_	Year of Pl	_	1933
Max. Superelevation***								<u>t Requested</u>
Minimum Radius***			-	<u>758</u>		Date Reques		
Maximum Grade	9	<u>%</u>		<u>7%</u>		Mapping/Su		lequested
Minimum Sight Dist.	41		4	<u>425'</u>		Date Reques	ted:	
Sidewalk Width(urban)	<u>4</u> .	-6'				Type:		•
Clear-zone				<u>34'</u>				
Project Notes/Design Exc	eptions?							
Bridge No.: [‡]	<u>092B0</u>	0137N	<u>(Brid</u>	dge #2)				
Sufficiency Rating	<u>94.</u>	<u>50%</u>						
Total Length	<u>26</u>	<u>5.9</u>			<u>Existin</u>	g Geotech	Data A	vailable?
Width, curb to curb	<u>37</u>	7.7				Yes 🗸	No	
Span Lengths	<u>12</u>	2.1					_	
Year Built	<u>19</u>	934						
Posted Weight Limit	<u>no</u>	one			De	tour Length	n(s):	10.248
Structurally Deficient?	<u>N</u>	<u>lo</u>						
Functionally Obsolete?	<u>N</u>	<u>lo</u>						
Existing Bridge Type	concrete cu	lvert						
Based on proposed Design S *AASHTO's A Policy on Geom +AASHTO's Roadside Design Gu	*If more than one road is included in the project, include additional sheets. **Based on proposed Design Speed ***AASHTO's A Policy on Geometric Design of Highways and Streets +AASHTO's Roadside Design Guide ‡If more than two bridges are located on the project, include additional sheets.							

II. PROJECT PURPOSE AND NEED								
A. Legislation								
This project received funding in the 2020 Highway	Funding	Phase	Year	Amount				
Plan.	SPP	D	2021	\$750,000				
	SPP	R	2023	\$1,220,000				
	SPP	U	2024	\$2,440,000				
	SPP	С	2026	\$7,300,000				

B. Project Status

This project is expected to be advertised in September.

C. System Linkage

KY 54 is a highly traveled route between Daviess, Ohio and Grayson County to the east. A lot of traffic in the summer use this route to access Rough River Lake and Dam. There is also a lot of truck traffic on KY 69 between Ohio County and Hancock County that junction with KY 54 in Fordsville and depart from KY 54 to the west of Fordsville. KY 54 shows a truck percentage of 13.1 between MP 6.0 and MP 7.4. Of the secton of KY 54 fom MP 7.047- 7.995, there is 0.365 miles show as AA (62,000 lbs) and 0.533 shown as AAA (80,000 lbs).

D. Modal Interrelationships

This route does not provide direct access to any airports or freight centers but it is a well used route to the Rough River Lake and Dam area about 18 miles away.

E. Social Demands & Economic Development

This route serves as Main Street through the city of Fordsville. It connects a restaurant, Bank and several shops. On one end there is a school and long term care facility and on the other end is a gas station and a Dollar general store. A section from the beginning of this project on KY 54 (MP 7.04) to KY 69 (MP 7.5) is on the Blues to Bluegrass- Bill Monroe BG Trail Scenic Byway System.

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II. PROJECT PURPOSE AND NEED (cont.)

F. Transportation Demand

There are two count stations along the project and both show a slight decline in traffic over the last 5 years. Additional information is provided in the tables and exhibits below.

G. Capacity

This project would not increase capacity. This project would be to improve the drainage issues, geometric deficiencies and pavement concerns.

H. Safety

There were 37 collisions reported during the period of 6/18/2017-6/18/2021. This included 8 that were described as being in a parking lot. Of the remaining 29 collisions, 9 more involved rear ending or backing into a parked vehicle but not in a parking lot. There was 1 single vehicle from a parking position. Of the remaining 19 collisions, the majority of the collisions were single vehicle collisions. There were 18 collisions (not including the parking lots) that happened during the daylight, 5 at dark and 5 reported at dusk/dawn. Of the 5 that were listed as dark, 3 were on a lighted section of roadway. There were several crashes in the downtown area that includes narrow lanes and on street parking. There were also several in the curve that does not have access control. Additional information is shown in the Tables and Exhibits section below.

I. Roadway Deficiencies

This route is a 2 lane road with sections of on street parking. There were several crashes shown in this section. There are some drainage issues and some sections with poor pavement conditions. There are some open ditches as well as some paved sections between the roadway and existing sidewalk. There are two curves on the east end of the project that create some sight distance issues. The curve between MP 7.690 - 7.753 is a 37.70 degree curve (F) has a skewed intersection coming into it. The The other curve between MP 7.757 - 7.822 is a 28 degree curve (F) and is adjacent to a convenient store parking lot that has no defined access points. This area had several crashes. There is also a curve that is 8.5-13.1 degree (D) curve between MP 7.247-7.292.

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	III. P	RELIMINARY ENVIRONMENTAL OVE	RVIEW			
A. Air Quality Project is in:	Attainment area	Nonattainment or Maintenance Area	PM 2.5 County			
STIP Pg.#:		TIP Pg.#:				
No STIP or TIP at th	nis time					
B Archeology/H	listoric Resources					
	ogical or Historic Resour	rces are present				
Historic will need t	o investigate older h	ouses and business buildings through the	e downtown area. Archaeology will have			
to investigate any	-		0,			
C. Threatened ar	nd Endangered Spe	ecies				
No habitat seen ex	cept a small number	of trees to be removed				
D. Hazardous M		_				
	taminated Sites are pre					
-			location of USTs will have to be located.			
Straightening of ro	ad will remove busin					
E. Damaitation						
E. Permitting Check all that may		the US 🔲 MS4 area 🔲 Floodplain Impacts				
,	apply: UWaters of ts likely to be require					
None						
F. Noise						
	nned noise sensitive	receptors adjacent to the proposed proje	ect? Yes No			
Is this considered a "	Type I Project" accordi	ng to <u>KYTC Noise Analysis and Ak</u>	Datement Policy? Yes No			
Temporary						
G. Socioeconom	ic					
Check all that may		ome/Minority Populations	ocations 🔲 Local Land Use Plan available			
If the east end is st	raightened out there	e may be an effect on lower income/mind	ority populations. This is unknown at			
this time						
H. Section 4(f) o	r 6(f) Resources					
The following are pre		Section 4(f) Resources	Section 6(f) Resources			
None seen at this tin	ne					
Anticipated	Environmental Docu	ment: CE Level 1	•			

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IV. PROJECT NEED, PURPOSE & SCOPE

A. Need:

This section of KY 54 serves as Main Street in Fordsville providing connections to local businesses and services as well residential properties. KY 54 serves as a link to the Owensboro area in Daviess County to the west and the Rough River Lake and Dam in Grayson County to the east. KY 54 boasts an AADT of 3281 vehicles which includes 13% as truck traffic. This section of KY 54 suffers from a number of geometric deficiencies including sharp horizontal curves, deficient sight distance, and narrow lanes or shoulders in certain portions of the roadway. In addition, there is a lack of access management, poorly defined on street parking, and drainage issues in this corridor. This project is needed to address safety and function issues as well as traffic flow.

B. Purpose:

The purpose of this project is to improve the safety, traffic flow, and function of KY 54.

C. Scope:

To make necessary improvements to KY 54 from MP 7.047 to near Marsh Lane. (MP 7.995) This would include addressing geometric deficiencies, instituting access management, improving functionality issues, and addressing any other concerns such as drainage and pavement issues.

V. PROJECT ESTIMATE & METHODOLOGY							
Current Estimate							
<u>Phase</u>	<u>Estimate</u>						
Planning							
Design	750,000						
R/W	1,750,000						
Utilities	2,440,000						
Const	7,300,000						
Total	12,240,000						
	Cu Phase Planning Design R/W Utilities Const						

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

Atmos Energy

Contact - Chase Downing 3275 Highland Pointe Dr. Owensboro KY, 42303 (270) 685-8128

Kenergy

Contact - Scott Atherton P.O. Box 1389 Owensboro KY 42302-1389 (o) 800.844.4832 (d) 270.689.6110

AT&T

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

Spectrum

Contact - Justin Sturgeon 250 Madison Square Dr Madisonville, KY 42431 (812) 253-2767

Ohio County Water District

Contact - Eric Hickman, P.E. 124 East Washington Street Phone: 270-298-7704. Mobile: 270-519-0885

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VII. TABLES AND EXHIBITS (cont.)					
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