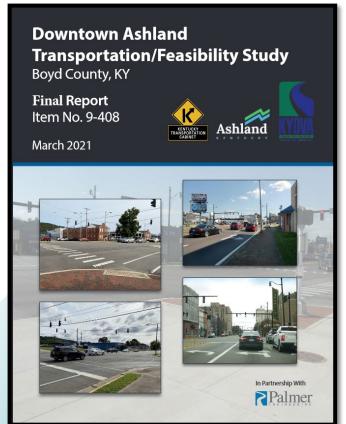
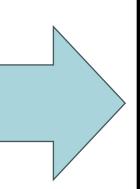
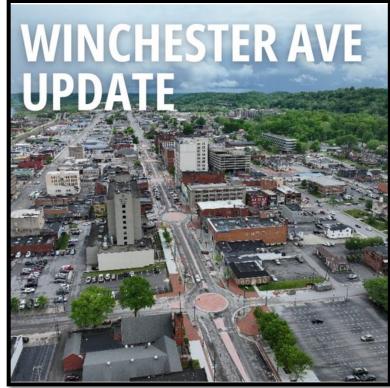
From Shelf to Street: Quickly Bringing Planning Studies to Life









What is This?





What is This?

2024 PARTNERING CONFERENCE — acec-ky kytc * fhwa

Planning Studies & Reports

Below you will find electronic links to all reports for planning studies conducted by the KYTC Division of Planning from 2004 to present (and a few from 2000 through 2003). These studies resulted from Highway Plan projects, the Statewide Transportation Planning process, or by special federal or state initiatives. Several key elements have been included within the study process. These include preliminary purpose and need, public input, project alternatives, socioeconomic and environmental impacts, cost-effectiveness, and scheduling. You can search for documents by district and by project name. Please phone or e-mail using the contact information on this page if you need to access studies conducted by the KYTC Division of Planning prior to 2004.

Interstate 66

Linking Kentucky (Statewide Corridor Plan)

Search by District

Click on the map below to filter the list of projects, below, to those in your area.



Filter projects by district by clicking on the map.

District	County	Project Link	Year	Item Number
District 1	Ballard	US 60 Connectivity Study	2024	1-80250.00
District 11	Jackson	KY 290 Corridor Study	2024	11-80202.00
District 3	Warren	Smiths Grove Traffic Operations Study	2024	
District 6	Boone,Kenton	US 25 Corridor Study Boone/Kenton	2024	6-105.00
District 7	Madison	West Richmond SUA Study	2024	7-80210.00
District 7 and 8	Boyle,Lincoln	Boyle and Lincoln Counties US 150 Corridor Study	2024	
District 8	Casey,Lincoln	Casey and Lincoln Counties US 127 Corridor Study	2024	8-80150.00
District 9	Rowan	KY 32 Corridor Study	2024	
District 9	Boyd	KY 168 Corridor Study	2024	9-125.00
District 9	Boyd	KY 716 Corridor Study	2024	9-180.00
Statewide		Linking Kentucky (Statewide Interstate and Parkway Plan)	2024	
District 1	Calloway	Murray SUA Study	2023	
District 10	Menifee,Powell,Wolfe	Red River Gorge Study	2023	
District 12	Floyd, Johnson	KY 3 Auxier Corridor Study	2023	
District 4	Hardin	US 62 Corridor Study	2023	4-80200
District 4	Hardin	Hardin County Glendale Mobility Study	2023	
District 5	Franklin	US 127 Traffic Analyses	2023	5-80212.00
District 5	Bullitt	KY 44 Programming Study	2023	
D::	F10:-	e was said a colonial warrants.	2022	00

Contact Information:

Division of Planning 200 Mero Street Frankfort, KY 40601 Phone: (502) 564-7183 Hours: 8:00am-4:30pm EST, M-F Man It

Navigation

Planning Home ADA Transition Strategies Adjusted Urban Boundaries Air Quality Bicycle and Pedestrian Program Carbon Reduction Program Coal Haul Connected & Automated Vehicle Congestion Management Complete Streets Manual Creating Vibrant Communities Program Data Needs Analysis Studies Electric Vehicle Charging Program Freight Modes in Kentucky Freight Advisory Committee **Functional Classification** Long Range Plan Multimodal Freight Transportation Map Sales National Truck Network (NTN) Official Highway Map Planning Highway Information (HIS) Planning Guidance Manual Planning Studies & Reports Planning Work Program State Primary Road System (SPRS) Public Involvement Plan Small Urban Area Planning Traffic Counts Traffic Forecasting and Modeling





BOYD	KY 168/Roberts Drive (3-way stop)		D.2					
High/Quick Hit	KY 168 MP 6.75 – MP 6.77	PHASE	(2023 \$'s)					
	D	\$0						
IMPROVEMENT I	R	\$0						
	oberts Drive intersection from a one-way to an all-way stop to	U	\$0					
increase safety.		С	\$ 20,000					
		TOTAL	\$ 20,000					
TRAFFIC OPERATIONS AND SAFETY:								
2023 Traffic:	023 Traffic: KY 168 carries between 5,800 and 9,200 vpd. EB Roberts Drive operates at							
2045 Traffic: KY 168 is projected to carry between 6,600 and 10,400 vpd with all-way stop operating at LOS C (PM) peak hour.								

l k	
	☑ Railr
	□ R/W
	☐ Shar
	Path
	☐ Bike
168	☐ Ped
	☐ Incre
	☐ Soci Impact
	□ Envi
	□ Utilitie

2018-2022 Crashes: 14 PDO crashes occurred at the intersection, including 7 angle and 3 rear end collisions.

Safety

WORK TYPE:

	↑ Nor	th	al A
#	☑ Railroad		
1	☐ R/W Required	☐ Reloc	
	☐ Shared Use Path		
	☐ Bike Facility		1
·	☐ Ped Facility		43
	☐ Increased Connectivity		3
	☐ Socioeconomic Impacts		
	☐ Environmental Impacts		
X	□ Utilities Affected		



Buses must follow state laws governing stopping requirements at railroad crossings, requiring a second mid-intersection stop for northbound buses.





FIRST ALERT TRAFFIC | KY 168, Roberts Drive changing to three-way stop New signs for KY 168 before and after railroad tracks, Roberts Drive

By Alyssa Hannahs

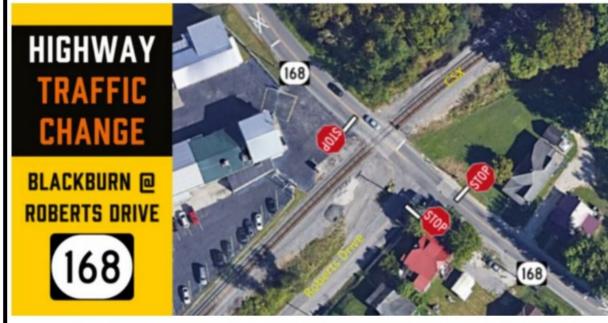
Published: Apr. 1, 2024 at 9:54 AM EDT

BODY COUNTY, Ky. (WSAZ) - A three-way stop is coming soon to the KY 168 (Blackburn Avenue-Wheatley Road) and Roberts Drive intersection at Ashland in Boyd County, the Kentucky Transportation Cabinet says.

Within the next two weeks, two new stop signs and stop bars will be placed each direction on KY 168 (milepoint 6.75- 6.77) at Roberts Drive, making the intersection a three-way stop.

Currently, traffic is only stopped at the end of Roberts Drive. There is also a railroad crossing that will remain in the middle of the new three-way stop.

The new signs will be marked with additional warning flags.







BOYD	KY 168/Roberts Drive (3-way stop)		D.2						
High/Quick Hit	KY 168 MP 6.75 – MP 6.77	PHASE	(2023 \$'s)						
		D	\$0						
IMPROVEMENT D	ESCRIPTION:	R	\$0						
	oberts Drive intersection from a one-way to an all-way stop to	U	\$0						
increase safety.		С	\$ 20,000						
		TOTAL	\$ 20,000						
TRAFFIC OPERATION	ONS AND SAFETY:								
2023 Traffic:	KY 168 carries between 5,800 and 9,200 vpd. EB Roberts Drive operate	es at LOS C(F) in AM	(PM) peak hour.						
2045 Traffic:	KY 168 is projected to carry between 6,600 and 10,400 vpd with all-war (PM) peak hour.	y stop operating at	LOS C(F) in AM						
2018-2022 Crashes:	14 PDO crashes occurred at the intersection, including 7 angle and 3 re	ear end collisions.							
WORK TYPE:	Safety								
		↑ Nor	th						
and the same		☑ Railroad							
1		☐ R/W Required	☐ Relocations						
*	ANY OF THE PARTY O	☐ Shared Use							
		Path							
		☐ Bike Facility							
	[168]	☐ Ped Facility							
		☐ Increased	<u> </u>						
	A CONTRACTOR OF THE PARTY OF TH	Connectivity							
A STORY									
0.0									
		☐ Socioeconomic							

| Bike Facility | Ped Facility | Increased | Connectivity | Socioeconomic | Impacts | Environmental | Impacts | Utilities Affected | Utilities Affected | Utilities Affected | Impacts | I

Notes:

Buses must follow state laws governing stopping requirements at railroad crossings, requiring a second mid-intersection stop for northbound buses.





High/Quick Hit	(3-way stop) KY 168 MP 6.75 – MP 6.77	DULAGE	D.2
High/Quick Hit	KY 168 IVIP 6.75 - IVIP 6.77		12022 61-1
	N. 200 III. 0170	PHASE	(2023 \$'s)
		D	\$0
MPROVEMENT DES	SCRIPTION:	R	\$0
Convert KY 168/Rob	erts Drive intersection from a one-way to an all-way stop to	U	\$0
ncrease safety.		С	\$ 20,000
		TOTAL	\$ 20,000
RAFFIC OPERATION	NS AND SAFETY:		
2023 Traffic:	KY 168 carries between 5,800 and 9,200 vpd. EB Roberts Drive operate	es at LOS C(F) in AM	(PM) peak hour.
U45 Trame:	KY 168 is projected to carry between 6,600 and 10,400 vpd with all-wa (PM) peak hour.	y stop operating at	LOS C(F) in AM
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WORK TYPE:	Safety		
		↑ Nor	th
		⊠ Railroad	
		R/W Required	☐ Relocations
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	168	☐ Ped Facility	
		☐ Increased	
		Connectivity	
A STATE OF THE PARTY OF THE PAR			
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1		Socioeconomic	
		pripacts	
13			
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E /	CAPTER CONTROL OF THE PROPERTY	☐ Environmental	
	168	mpacts	
B			
10		Utilities Affected	
			•
Notes:	e laws governing stopping requirements at railroad crossings, require	g a second mid-inte	rsection stop for

- Very Low Cost
- No ROW
- No Environmental
- No Utilities
- Maintenance Install



D3: Kentucky/Adams Street





D3: Kentucky/Adams Street

- One-way Couplet
- Heavy Pedestrian Crossing
- WKU Heavily Involved
- Upcoming Resurfacing

KENTUCKY AND ADAMS STREET (US 68X) IMPROVEMENT STUDY -FINAL REPORT



Kentucky Transportation Cabinet Central Office, Division of Planning Highway District 3, Bowling Green

In partnership with



October 2020



D3: Kentucky/Adams Street









February 2018





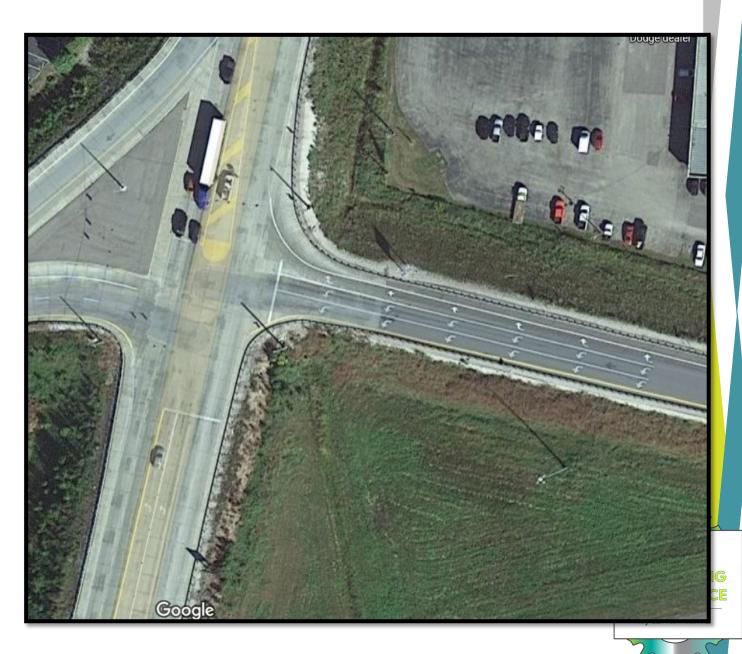












District 9: Grayson Ramp

- ✓ Straight from SUA to Highway Plan
- ✓ No ROW
- ✓ No Utilities
- **✓** CEMP
- ✓ Same Consultant as Planning Study
- ✓ Stayed in Budget
- ✓ One Biennium



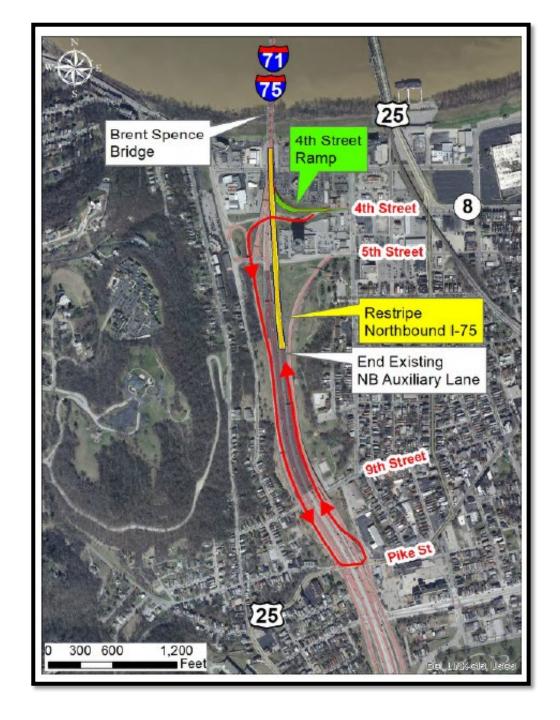
D6: Texas Turnaround

In summary, the relocation of this northbound entrance ramp at 4th Street could provide some congestion relief in the A.M. Peak at a relatively low cost, somewhat due to traffic diverting to other local bridges. The other improvements to be anticipated include:

- Routing of traffic allows for dedicated through lane across the Brent Spence bridge
- Eliminating the merge at the Brent Spence bridge would reduce crashes
- · Relieves congestion by relocating merge and weaving maneuvers
- Enhances connectivity while using existing mainline infrastructure
- Reduces conflicts and improves driver expectancy before the decisions points prior to and after the Brent Spence Bridge
- Improves level of service by adding capacity, shortening travel times, and reducing queuing
- May Increase travel speeds

This interim improvement warrants additional consideration.

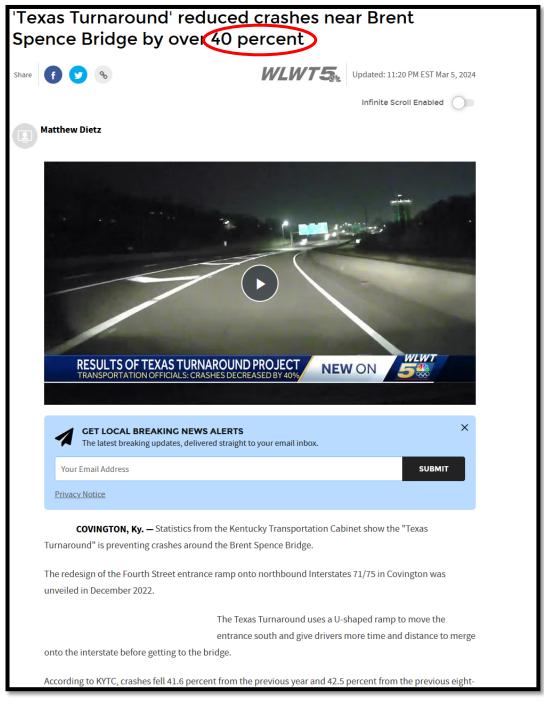




D6: Texas Turnaround

- Brent Spence Momentum
- Contract Mod for Planning study to Design
- Constant communication with FHWA for IMR





D5: Exit 58 Dual Lefts





LOCATION

US 60 Versailles Road Jett Blvd to KY 1681 Duncan Rd (MP 13.130-13.599)

High

PROJECT PRIORITY

Cost Estimate (G2|G3):

D \$50k | \$84k R \$0 | \$0 U \$750k | \$750k C \$550k | \$840k Total \$1.4M | \$1.7M

Costs based on per mile.

G Short-Term

Description

Improve Interchange with I-64

G2: Extend left turn lanes G3: Dual left turn lanes

Identified Needs:

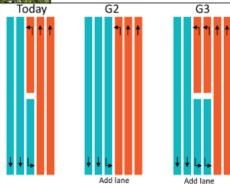
- Stop-and-go commuter traffic during peak hour, with high left turn volumes accessing I-64, leads
 to queue spillbacks that disrupt through movements at adjacent signalized intersections.
- 2018 ADT: 28,090-30,680 vpd; segments operating at LOS B-C.
- 2040 ADT: 28,090-31,400 vpd; segments operating at LOS B-C.
- 129 crashes (0 fatal, 21 injury) in three years: 2 high CCRF segments and 4 high CCRF spots.

<u>Proposed Improvement:</u> Two short-term improvements were considered. Option G2 adds a lane along US 60 between the ramp terminals to effectively double the length of the left turn lanes, to run side-by-side instead of end-to-end. Option G3 creates dual left turn lanes to both on-ramps to improve signal timing options. Options G2 and G3 improve operations but neither fully covers peak queue lengths.





View north along US 60 at I-64 interchange during PM peak hour (top left); queueing for left turns to ramp (top right); sketches of each option (bottom).



D5: Exit 58 Dual Lefts

- Top Franklin County project in 2020 SHIFT
- Entered in 2020 Recommended & Enacted SYP
- HSIP came and identified crash problem at adjacent intersection
- HSIP paid for Design
- No ROW, Utilities
- Constructed using SYP funds





D9: Downtown Ashland





Downtown Ashland

Boyd County, KY

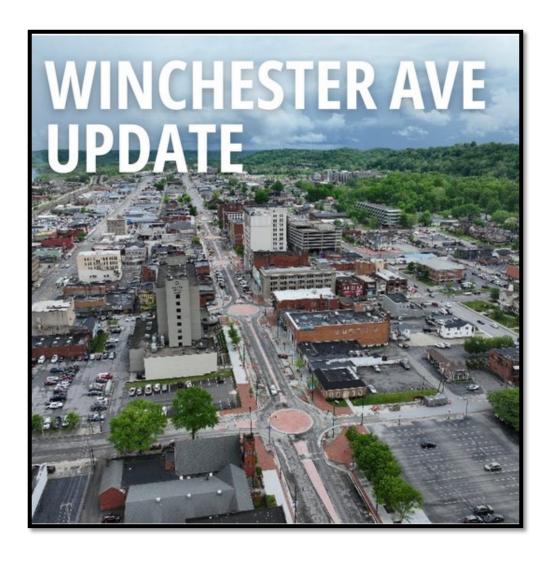
Final Report Item No. 9-408

March 2021

Transportation/Feasibility Study

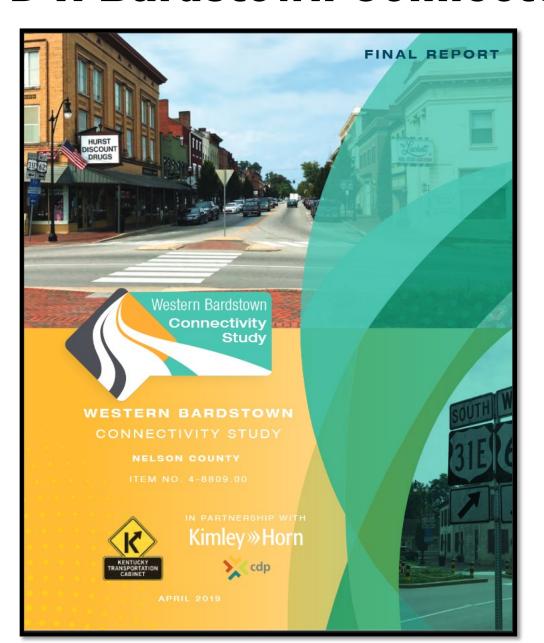
TRAISPORTATION Ashland

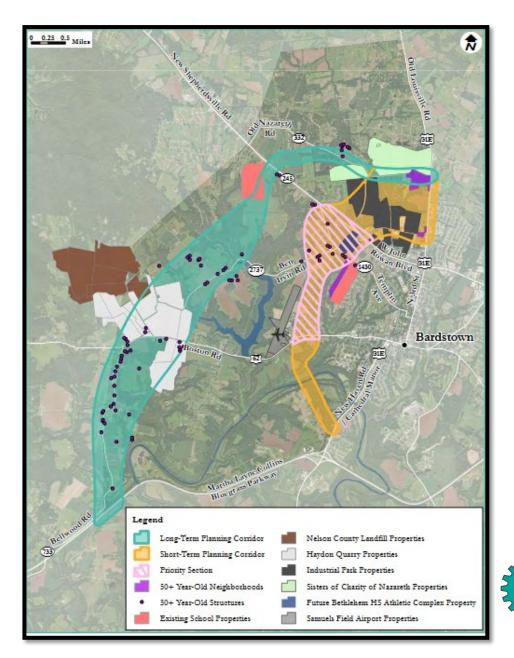
D9: Downtown Ashland



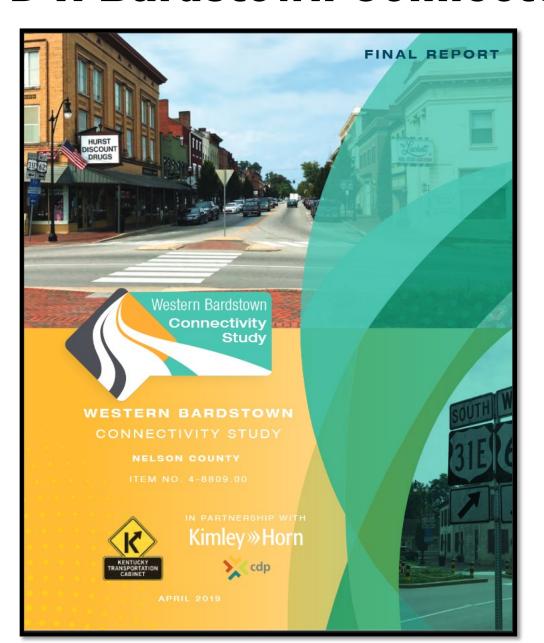
- HSIP Demonstration Project
- KYOVA SAH Funds
- Local excitement

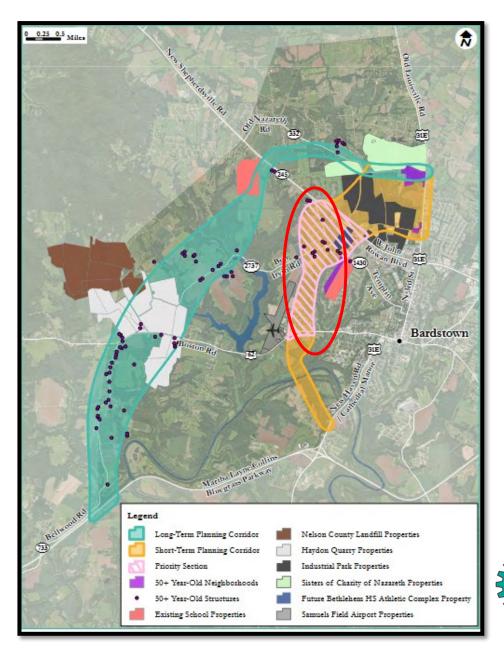




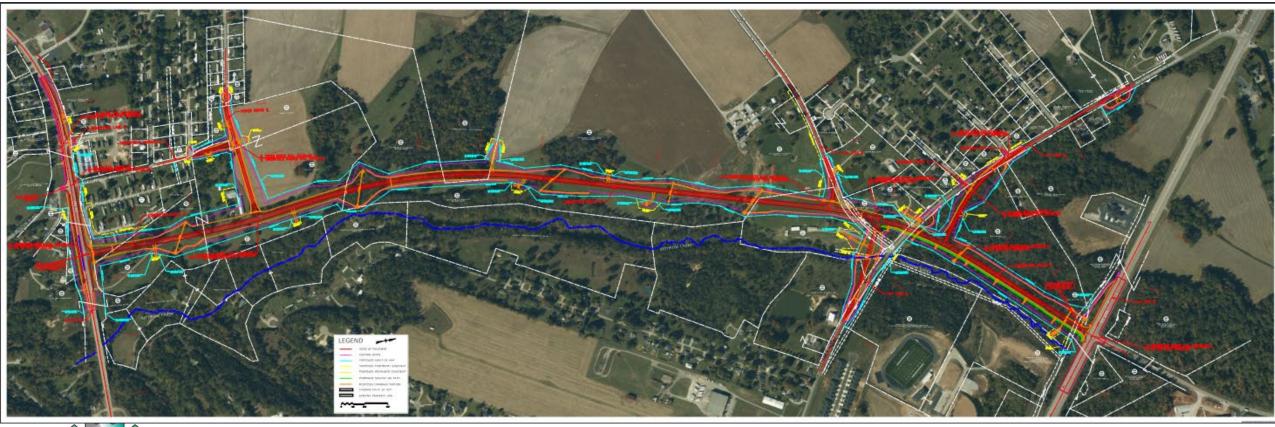










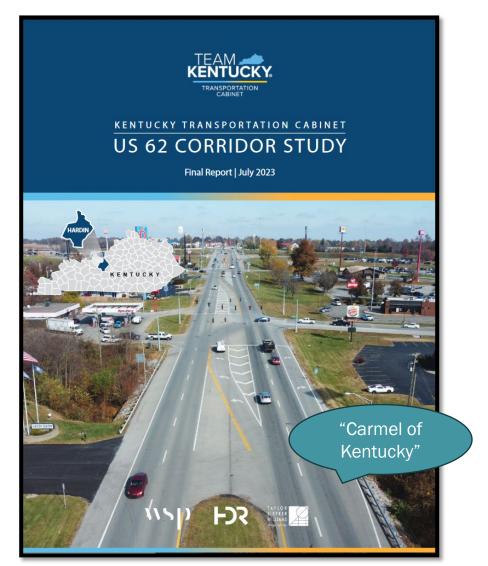




- Study provided long-term vision (disagreement between city and county)
- Local Legislative Champion
- Consistent funding in SYP
- Diligent ROW and Utility Coordination
- Awarded July 2024



D4: US 62 Mulberry St





www.drive62.com





US 62 STATION 500+00 TO STATION 550+00 HARDIN COUNTY ITEM NO. 4-80200.00

US62 from French St. to Dolphin Dr.

US 62 STATION 500+00 TO STATION 550+00 HARDIN COUNTY ITEM NO. 4-80200.00









US 62 STATION 550+00 TO STATION 603+00 HARDIN COUNTY ITEM NO. 4-80200.00

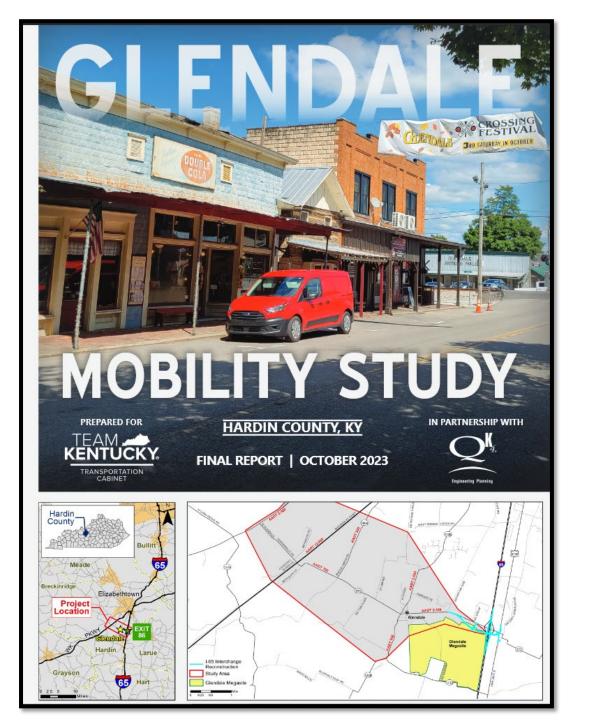




D4: US 62 Mulberry St



- Local vision, motivated stakeholders
- Mostly no ROW
- Minor Utilities
- Two biennia of funding







D4: Glendale Bypass

- Most productive LO/S meeting
- Mesh with CVC Technical Assistance Program
- Low ROW
- Low Utilities
- High Motivation



D11: Slow but Steady

- 1990s US 119 Study in Bell, Harlan Counties
- Produced a number of safety improvement projects
- Rep. Rick Nelson adds a project, gets it constructed, adds another
- No 4-lane, but persistence pays off for safer corridor





D3: US 31W Bypass Reconfiguration

Report for Bowling Green and Warren County Metropolitan Planning Organization

US 31W Bypass Traffic Analysis



Prepared by

STRAND ASSOCIATES, INC.® 325 West Main Street, Suite 710 Louisville, KY 40202 www.strand.com

May 2020



Figure 1 US 31W Bypass Corridor



- Study Began in 2019
- Finalized 2020
- Let in 2021
- Supposed to be completed in 2022
- Contractor went out of business
- Finished in 2023



D3: US 31W Bypass Reconfiguration





10:30 AM

31W Road Reconfiguration Project

Joe Plunk, KYTC D-3, Chief District Engineer
Wes Watt, KYTC D-3, Public Information Officer



Frankfort Paddocks



								Meeting Room #12	
9:00 – 9:40	MS4 Program Danny Peake, KYTC; Lucas Hanks, EEC	KYTC's Standard Drawings Update Jeff Jasper, KTC Corinne Schurman, KYTC	Using Knowledge of Human Factors to Strengthen Roadway Design Chris Van Dyke, KTC; Mike Vaughn, KYTC	Utility Depiction and Analysis in ORD Pat Eckert and Blake Combs, KYTC; Jason Littleton, WSP	Plan Submittals and Communication with KYTC Geotech Patrick Stone, Sean House, JC Wilhoite, Tyler Sheffield and Matt Sipes, KYTC	Navigating Trust Drew Mackell, Calvin Andries, Lochner; Mike Russell, KYTC	KYTC Structure Design for Resiliency Joe Van Zee, KYTC	Hitting the Target: The Rapid Delivery of the Frankfort Paddocks Projects Stephen De Witte and Adam Ulrich, KYTC; Taylor Kelly, Qk4	Find Out If You Are Ready for the New MUTCD Duane Thomas, FHWA

Frankfort Paddocks



								Meeting Room #12	
9:00 – 9:40	MS4 Program Danny Peake, KYTC; Lucas Hanks, EEC	KYTC's Standard Drawings Update Jeff Jasper, KTC Corinne Schurman, KYTC	Using Knowledge of Human Factors to Strengthen Roadway Design Chris Van Dyke, KTC; Mike Vaughn, KYTC	Utility Depiction and Analysis in ORD Pat Eckert and Blake Combs, KYTC; Jason Littleton, WSP	Plan Submittals and Communication with KYTC Geotech Patrick Stone, Sean House, JC Wilhoite, Tyler Sheffield and Matt Sipes, KYTC	Navigating Trust Drew Mackell, Calvin Andries, Lochner; Mike Russell, KYTC	KYTC Structure Design for Resiliency Joe Van Zee, KYTC	Hitting de Target: The plus ery the Franki H do roj s So ben Witte d Aa Virich C; Taylo Qk4	Find Out If You Are Ready for the New MUTCD Duane Thomas, FHWA



Table 1: Trip Generation Rates

Jan 1	
2024 PARTNERING CONFERENCE — acec-ky kytc # fhwa	
7	•

ITE Use				Daily	Daily Trips		AM Peak		PM Peak	
Code	Code Desc.		Unit	In	Out	In	Out	In	Out	
820	Shopping Center	467.4	1000 SF	9,033	9,033	253	156	822	891	
220	Multi-family Housing	300	Units	999	999	28	88	94	56	
944	Gas/Service Station	14	Pumps	1,204	1,204	72	72	97	98	
930	Fast Casual Restaurant	2.56	1000 SF	124	124	2	2	18	14	
932	Sit-Down Restaurant	9.85	1000 SF	528	528	52	43	54	35	
934	Fast Food Restaurant/Drive Thru	2.56	1000 SF	598	598	58	56	44	41	
TOTAL				12,486	12,486	465	417	1,129	1,135	

Key Takeaways

- Unlikely for risky, complex projects
- Minimize impacts to ROW
- Minimize impacts to Utilities (or in road contract)
- Stakeholder buy-in
- Communicate with Partners (internal & external)
- Align with repaving projects
- Have something for District staff to charge to
- CEMP, CE1
- Good Cost Estimates
- Make use of quick contract mechanisms





Questions?

Stephen De Witte, P.E.

502-782-5056

Stephen.DeWitte@ky.gov



PDH QR Code (AM)



Questions?

Stephen De Witte, P.E.

502-782-5056

Stephen.DeWitte@ky.gov



PDH QR Code (PM)



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