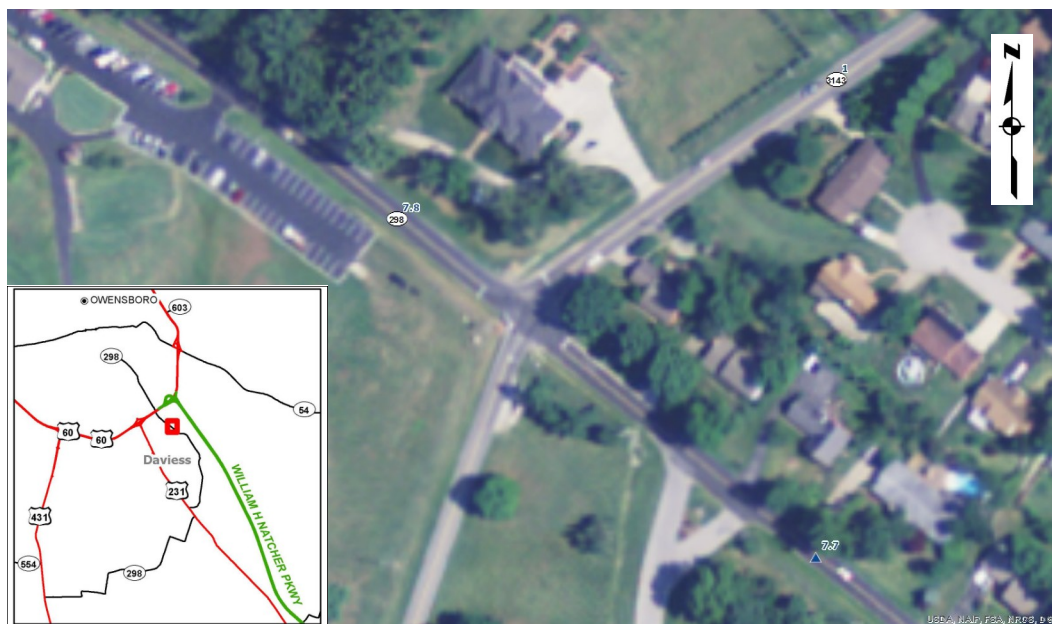
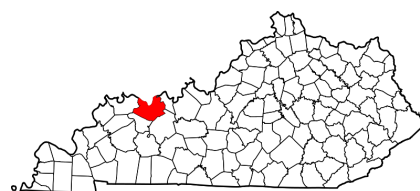


Data Needs Analysis



Scoping Study



Daviess County

Intersection of KY 298 and
KY 3143

Item No. **2-229.00**

Prepared by

KYTC District 2 Planning

June 2014



I. PRELIMINARY PROJECT INFORMATION			
County:	Daviess	Item No.:	2-229.00
Route Number(s):	KY 298 at KY 3143	Road Name:	Old Hartford Rd at Fairview Dr
Program No.:	873310	UPN:	FD04 030 0298 7.7-7.8
Federal Project No.:		Type of Work:	Reconstruct Intersecti
2012 Highway Plan Project Description:			
Reconstruct Intersection at Fairview Drive (KY 3143) and KY 298. (12CCR)			
Beginning MP:	7.6	Ending MP:	7.8
Project Length:	0.2		
Functional Class.:	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural Collector ▼	State Class.:	<input type="checkbox"/> Primary <input checked="" type="checkbox"/> Secondary
MPO Area:	Owensboro ▼	Route is on:	<input type="checkbox"/> NHS <input checked="" type="checkbox"/> NN <input type="checkbox"/> Ext Wt
In TIP:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Truck Class.:	A ▼
ADT (current):	10948 2012	% Trucks:	4.8
Access Control:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled	Terrain:	Level ▼
Median Type:	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):	Spacing:	▼
Existing Bike Accommodations:	Shared Lane ▼	Ped:	<input type="checkbox"/> Sidewalk
Posted Speed:	<input type="checkbox"/> 35 mph <input checked="" type="checkbox"/> 45 mph <input type="checkbox"/> 55 mph	Other (Specify):	
KYTC Guidelines Preliminarily Based on : 30 MPH Proposed Design Speed			
COMMON GEOMETRIC			
Roadway Data:	EXISTING	PRACTICES*	
No. of Lanes	2	2	Existing Rdwy. Plans available?
Lane Width	9ft	10ft	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Width	3ft stabilized		Year of Plans:
Max. Superelevation**		4%	<input checked="" type="checkbox"/> Traffic Forecast Requested
Minimum Radius**			Date Requested: 10/23/2012
Maximum Grade		6%	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.		200ft	Date Requested:
Sidewalk Width(urban)		min 4ft	Type: ▼
Clear-zone***		min curb to curb width	
Project Notes/Design Exceptions?:			
*Based on proposed Design Speed, **AASHTO's A Policy on Geometric Design of Highways and Streets, ***AASHTO's Roadside Design Guide			
Bridge No.*:	(Bridge #1)	(Bridge #2)	
Sufficiency Rating			Existing Geotech data available?
Total Length			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Width, curb to curb			
Span Lengths			Detour Length(s):
Year Built			
Posted Weight Limit			
Structurally Deficient?			
Functionally Obsolete?			
Existing Bridge Type			

*If more than two bridges are located on the project, include additions sheets.

II. PROJECT PURPOSE AND NEED

A. Legislation

Parent# 02-229.00 in the 2012 Highway Plan.	<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
	SPP	D	2013	\$500,000
	SPP	R	2015	\$600,000
	SPP	U	2015	\$1,000,000
	SPP	C	2017	\$3,500,000

B. Project Status

This was a UPL project 02 030 D0298 27.80. This project had support from the MPO Technical Committee. The opinion of the current fiscal court may not be as supportive of this project. Design funds were authorized on 10/23/2012.

C. System Linkage

This route is a Urban Collector. This project should not affect linkage.

D. Modal Interrelationships

This project will not impact Modal Interrelationships.

E. Social Demands & Economic Development

The intersection is a major part of traffic accessing the Owensboro Community College, Daviess County High School, Hillcrest Golf Course, and the KCTCS Vocational School on Southeastern Parkway. This intersection is also on the route that eastern Daviess County residents use to travel to the commercial area along south Frederica Street, (US 431).

II. PROJECT PURPOSE AND NEED (cont.)

F. Transportation Demand

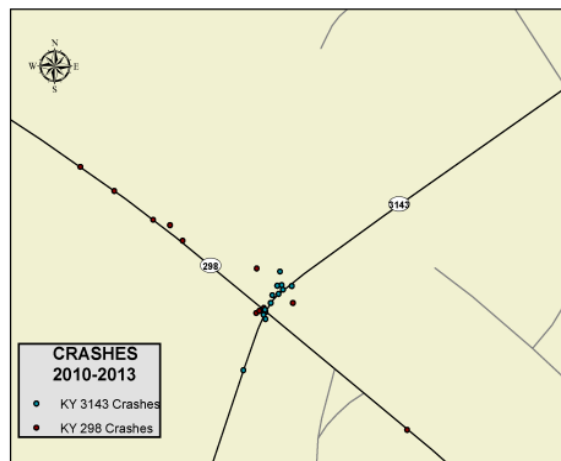
The intersection is a major part of traffic accessing the Owensboro Community College, Daviess County High School, Hillcrest Golf Course, and the KCTCS Vocational School on Southeastern Parkway. This intersection is also on the route that eastern Daviess County residents use to travel to the commercial area along south Frederica Street, (US 431). There is an ADT of 6990 on KY 298 and an ADT of 10,378 on KY 3143 at this location.

G. Capacity

This project is to improve safety and relieve congestion at the intersection. This project should not impact capacity. This is a 4 leg signalized intersection with single lanes in all directions.

H. Safety

At present, the intersection backs traffic up causing delays and crashes on the hill on Fairview Dr which approaches the intersection. More than 60 collisions were reported in the area of this intersection between 1/1/2010 and 1/1/2013. The collisions include opposing left turn, rear end, and sideswipe collisions. The critical rate factor for the same time period at the intersection along KY 298 is 1.55.



I. Roadway Deficiencies

This intersection is skewed with a slight sight distance issue on one approach. At present, the intersection backs traffic up causing delays and crashes on the hill on Fairview Dr which approaches the intersection. KY 3143 has a curve class code of E at the intersection with KY 298. The existing 9ft lane width does not meet KYTC's common geometric practices.

III. PRELIMINARY ENVIRONMENTAL OVERVIEW	
A. Air Quality Project is in: <input checked="" type="checkbox"/> Attainment area <input type="checkbox"/> Nonattainment or Maintenance Area <input type="checkbox"/> PM 2.5 County STIP Pg. #: <input type="text"/> TIP Pg. #: <input type="text"/> NA	
B. Archeology/Historic Resources <input type="checkbox"/> Known Archeological or Historic Resources are present None known	
C. Threatened and Endangered Species No habitat present	
D. Hazardous Materials <input type="checkbox"/> Potentially Contaminated Sites are present <input type="checkbox"/> Potential Bridge or Structure Demolition None known	
E. Permitting Check all that may apply: <input type="checkbox"/> Waters of the US <input type="checkbox"/> MS4 area <input type="checkbox"/> Floodplain Impacts <input type="checkbox"/> Navigable Waters of the US Impacts Are 401/404 Permits likely to be required? <input type="checkbox"/> Yes <input type="checkbox"/> No Impacts to: <input type="checkbox"/> Wetlands <input type="checkbox"/> Stream/Lake/Pond <input type="checkbox"/> ACE LON <input type="checkbox"/> ACE NW <input type="checkbox"/> ACE IP <input type="checkbox"/> DOW IWQC <input type="checkbox"/> Special Use Waters None known	
F. Noise Are existing or planned noise sensitive receptors adjacent to the proposed project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is this considered a "Type I Project" according to the KYTC Noise Analysis and Abatement Policy? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No State funded. No analysis needed.	
G. Socioeconomic Check all that may apply: <input type="checkbox"/> Low Income/Minority Populations affected <input type="checkbox"/> Relocations <input type="checkbox"/> Local Land Use Plan available None known	
H. Section 4(f) or 6(f) Resources The following are present on the project: <input type="checkbox"/> Section 4(f) Resources <input type="checkbox"/> Section 6(f) Resources None known	
Anticipated Environmental Document:	<input type="text" value="None (Completely State funded)"/> ▼

IV. PROJECT SCOPING, NEEDS & PURPOSE

A. Scoping & Need:

This project is to improve the intersection and relieve congestion. There are multiple accidents reported at this intersection. It has a CRF of 1.55. The current crosssection does not meet KYTC's common geometric practices.



B. Draft Project Purpose:

Reduce congestion and improve safety.

V. PROJECT ESTIMATE & METHODOLOGY

Estimate Methodology:

UPL costs were based on similar projects. The funds shown in the 2012 Highway plan should be adequate other than ROW may need an additional \$150,000 in funding.

Current Estimate

Phase	Estimate
Planning	
Design	500,000
R/W	600,000
Utilities	1,000,000
Const	3,500,000
Total	5,600,000

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

OMU WATER

2070 Tamarack Road
Owensboro, KY 42301
270-926-3200

AT&T

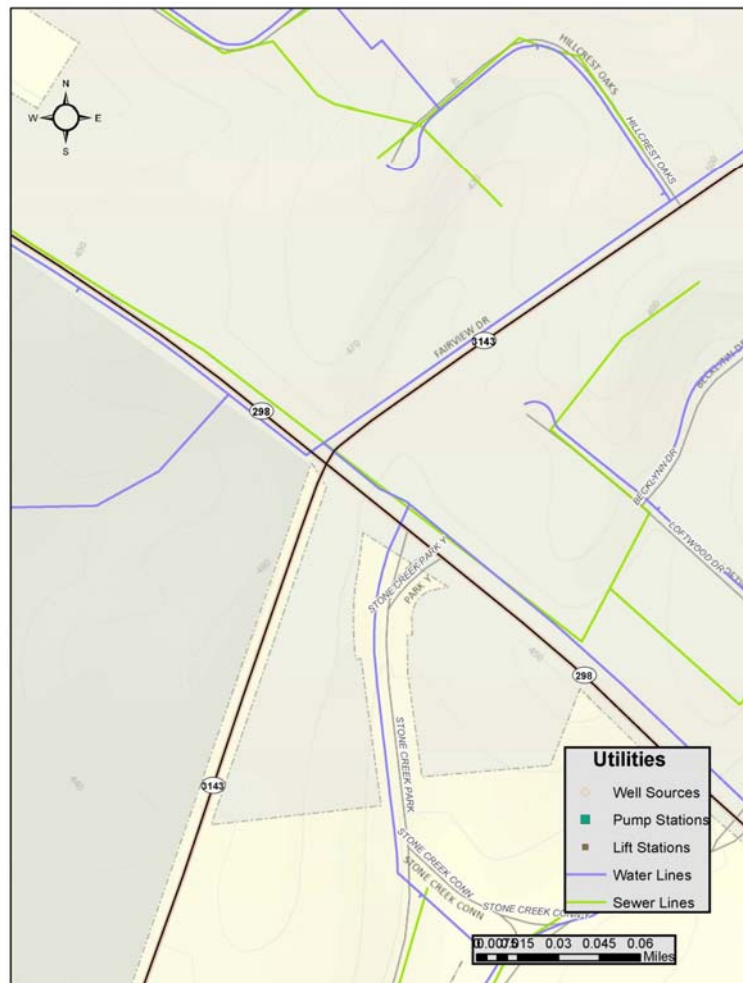
3021 Old Hartford Road
Owensboro, KY 42303
270-685-7615

Atmos Energy

3275 Highland Pointe Drive
Owensboro, KY 42303
270-684-7404

Kenergy

3111 Fairview Drive
Owensboro, KY 42302
270-689-6100



VII. PRECONSTRUCTION STATUS REPORT

02-Apr-2013

Preconstruction Status Report

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Auth No. / Date 87331 23-Oct-2012
County Name DAVIESS
BMP / EMP 7.7 / 7.8
Route KY-298-

Project No. 02 229.00

Parent No. 02 229.00

Desc RECONSTRUCT INTERSECTION AT FAIRVIEW DRIVE (KY 3143) AND KY 298. (12CCR)

Type Of Work SAFETY(P) No. Lanes Length Measurement Type E

Road Eng. CONSULTANT

Bridge Eng.

Proj Mgr kytejohn.rudd

Bridge No.

Suff. Rating

Letting Status / Date *****

Final Plans

Contractor Notice

Environmental	Name	Date	Type	Sched. Comp.	Actual Comp.	Expire Date
Assigned:						
Requested:						

Concerns

EMARS PROGRAM CODE

Phase Code	D	R	U	C	
Stage	AUTHORIZED	ESTIMATED	ESTIMATED	ESTIMATED	8733101D
Fund Code	SPP	SPP	SPP	SPP	
Escalated Cost	0	600,000	1,000,000	3,500,000	
Fiscal Year		2015	2015	2017	
Auth Amt.	500,000				
Auth Date	23-Oct-2012				
Current Cost					
Date Of Current Cost					
Year of Proj Auth Date					
Program Code	FD04				
Remaining Balance	500,000.00				

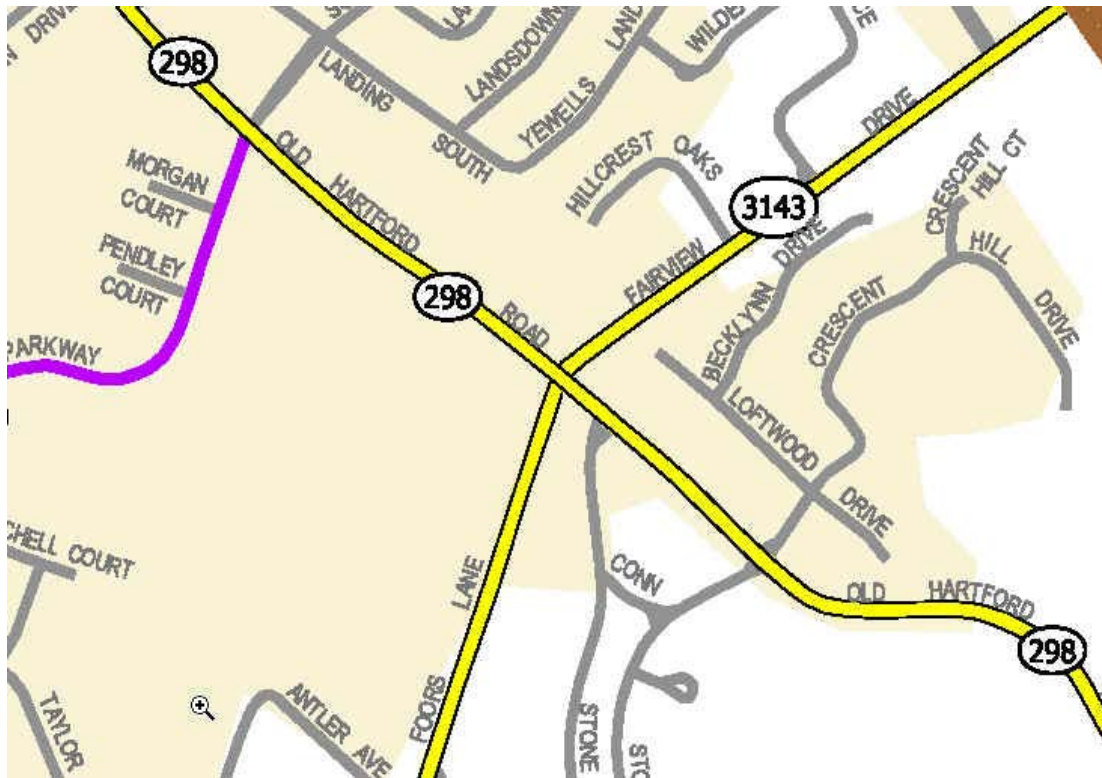
Right Of Way Parcel Information

Utility Information

Total Parcels:		Completion Date		Completion Date
Appraisals	of		Negotiated Starts	of
Relocated	of		Agreement	of
Deeds Signed			Relocated	of
Suits Filed				
Right Of Entry				
Parcels Cleared				

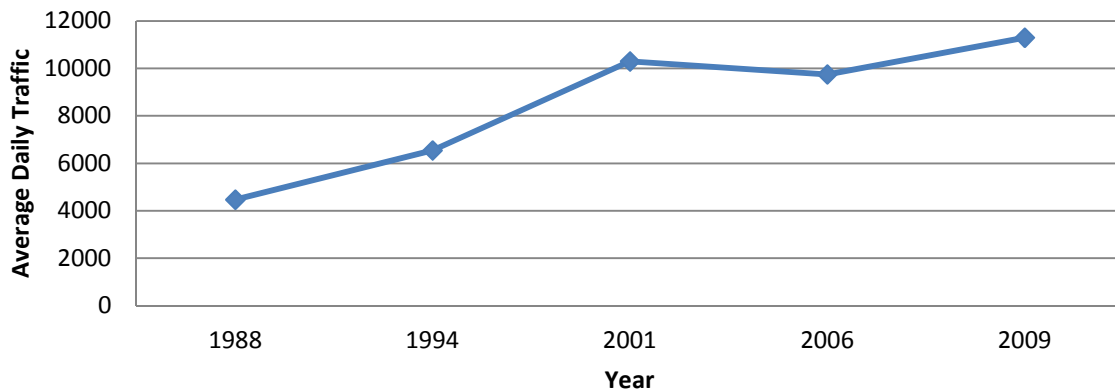
Milestone	Remarks	Status	Date	Scheduled
PRELIMINARY LINE AND GRADE		UNKNOWN	21-May-2012	
DRAINAGE INSPECTION		UNKNOWN	21-May-2012	
JOINT INSPECTION		UNKNOWN	21-May-2012	
GEOTEC ENGINEERING - ROADWAY		UNKNOWN	21-May-2012	
GEOTEC ENGINEERING - BRIDGES		UNKNOWN	21-May-2012	
BRIDGE AND STRUCTURE PLANS TO CENTRAL OFFICE		UNKNOWN	21-May-2012	
ADVANCE SITUATION TO CENTRAL OFFICE		UNKNOWN	21-May-2012	
RIGHT OF WAY PLANS TO CENTRAL OFFICE		UNKNOWN	21-May-2012	
ROAD PLANS TO CENTRAL OFFICE		UNKNOWN	21-May-2012	
TRAFFIC PLANS - SIGNING		UNKNOWN	21-May-2012	
TRAFFIC PLANS - LIGHTING		UNKNOWN	21-May-2012	
TRAFFIC PLANS - SIGNALS		UNKNOWN	21-May-2012	
TRAFFIC PLANS - TRAFFIC CONTROL		UNKNOWN	21-May-2012	

VIII. TABLES AND EXHIBITS

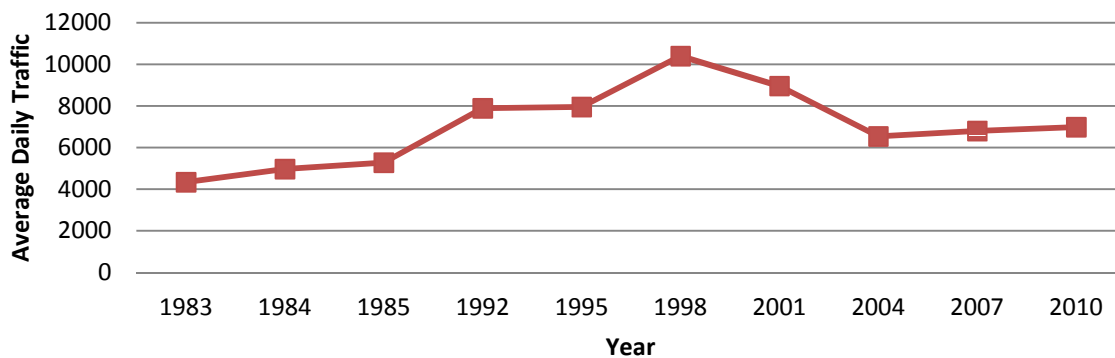


VIII. TABLES AND EXHIBITS (cont.)

**Traffic Counts for 2-229.00
(KY 3143 From US 231)**



**Traffic Counts for 2-229.00
(KY 298 East of KY 3143)**



**Traffic Counts for 2-229.00
(KY 298 West of KY 3143)**

