

Final Report

# I-64 to US 23 Ashland Connector Study

Submitted to

**KY Transportation Cabinet** 

Submitted by

ENTRAN, PLC

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## **EXECUTIVE SUMMARY**

The Kentucky Transportation Cabinet (KYTC) conducted the I-64 to US 23 Ashland Connector Study to seek improvement strategies for current and anticipated future transportation deficiencies within the western portion of Boyd County. The study demonstrated the need for a new facility to relieve traffic congestion on US 60 through Ashland and to provide more efficient travel routes connecting to US 23 west of downtown Ashland.

The need for an improved transportation corridor between I-64 and downtown Ashland was first identified in the early 1990's. The original concept for the "Ashland Penetrator" route envisioned the project beginning on US 60 near the area known as Meads, paralleling the CSX railroad, and terminating west of downtown Ashland. The Ashland Metropolitan Planning Organization (MPO) added the Urban Penetrator to the Transportation Improvement Program (TIP) in 1996 and it was also included in the KYTC Enacted 1997-2002 Six Year Highway Plan (SYP) in 1996. Construction was scheduled to being in 2001, with an estimated cost of \$7,000,000. A project was advertised by KYTC and a consultant team selected, but no project activities took place. The 2003 Ashland Comprehensive Plan Update noted that the most significant transportation challenge in Ashland was the need for a major arterial facility in the western part of the community to provide congestion relief to US 60, provide improved access to Town Center Mall and the Wal-Mart shopping center on US 23, and improve circulation. The Ashland Urban Penetrator remained on the FY 2006 – FY 2012 SYP as a scoping study between I-64 and downtown Ashland. The KYTC initiated the current study in 2007, renaming it the I-64 to US 23 Ashland Connector Study. There are no further phases programmed for this project.

The study team worked with a diverse array of local officials, interested individuals, and other stakeholders throughout the course of the study. This group, referred to as the Ashland Connector Advisory Team (ACAT), assisted the study team in defining project goals and issues and identifying both short term and long term improvement projects. Two public meetings were also held over the course of the study. The first public meeting was held in April 2008 to inform the public of the planning study, discuss various environmental and technical issues concerning the project area, and solicit input. The second public meeting was held in November 2008 to summarize the key findings from the study and to present the preliminary short-term and long-range projects developed based on input from the ACAT and feedback from the first public meeting.

A number of improvement alternatives were developed and evaluated during the study. The recommended improvements are summarized on **Figure ES-1**. The short-term improvements, summarized in **Table ES-1**, include potential spot improvements, or projects that can provide much needed benefits at specific locations within the study area. Most of these projects are low-cost, safety oriented improvements that can be implemented in a relatively short time frame.



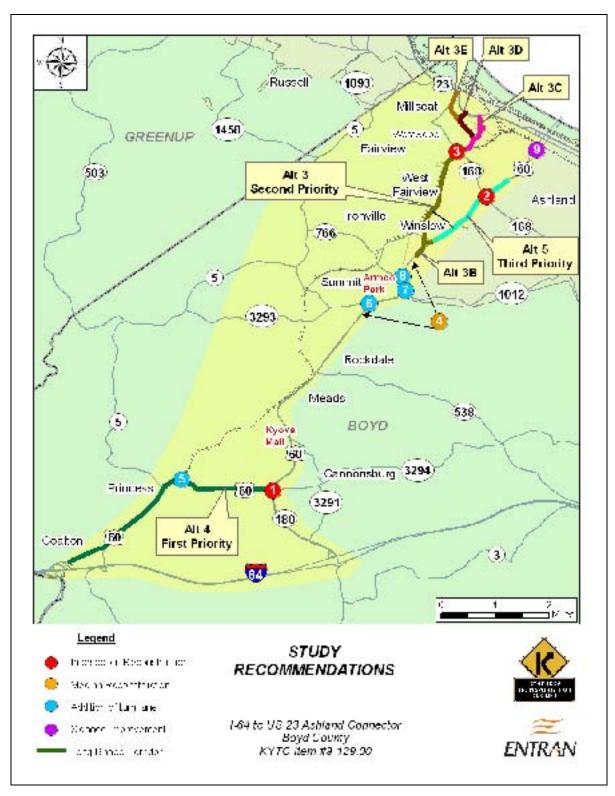


Figure ES-1: I-64 to US 23 Ashland Connector Recommendations



**Table ES-1: Recommended Short-Term Improvements** 

Project #	Roadway / Intersection	Improvement Type	Description	Estimated Cost
1	US 50 @C KY 180	Intersection Reconstruction	Reconstruct grade on approaches	\$1,000,000
2	US 60 (ଝୁ KY 168 (Blackburn Ave.)	Intersection Reconstruction	Realign curved approach leg(s)	\$760,000
3	Roberts Drive ② KY 168 (Blackburn Ave.)	Intersection Reconstruction	Improve at-grade railroad crossing on KY 168 west of Roberts Drive	\$250,000 - \$500,000
4	US 80 from south of KY 716 to KY 1012 (Bny Senut Rd.)	Median Reconstruction	Construct non-traversable median w/ selective median openings	\$325,000
5	US 60 @ Paul Coffey Blvd	Addition of turn lane	Add NB left turn lane and SB right turn lane	\$275,000
6	US 80 @ KY 716	Addition of turn lane	Add SB right turn lane	\$125,000
7	US 50 @ KY 1012 (Boy Scout Rd.)	Addition of turn lane	Add NB right turn lane	\$125,000
8	US 50 (ଫୁ KY 766	Addition of turn lane	Add SB right turn lane	\$125,000
9	US 60	Signage Improvement	Provide additional/improved signage for NB US 60 approaching bridge	\$200,000

The recommended long-range corridor alternatives, summarized in **Table ES-2**, represent significant improvements to existing roadways or potential new roadways recommended for further consideration. Three primary projects are shown. Alternative 3, referred to as the "Westwood Connector", includes the construction of a new route between US 60 south of Rose Hill to US 23 west of downtown Ashland. Two options were developed for where the connector could tie into US 60 and four options for where it could connect to US 23. Of these options, Alternative 3B-3C, 3B-3D, and 3B-3E are considered to be preferable due to lower construction costs and right-of-way impacts. Constructing Alternative 3 is considered to be the second highest priority among the long-range corridor alternatives.

Alternative 4 includes the widening of US 60 to four lanes between the Coalton Interchange at I-64 and the KY 180 intersection. This project is included in the KYTC 2009 Highway Plan with design and right-of-way acquisition programmed in FY 2008-2009. This project is considered to be the highest priority among the long-range alternatives.



**Table ES-2: Recommended Long-Range Corridor Improvements** 

		POTENTIAL RELOCATIONS REQUIRED				
Alternative Length (Miles)	Construction Cost	Commercial	Residential - Single Family	Residential - Multi-family	School Buildings	
Alt # 3B 3C	2.86	\$ 20,600,000	á	58	ú	1
Alt # 3B-3D	2.98	\$ 22,680,000	8	66	6	1
Alt # 3B-3E	3.39	\$ 24,470,000	11	70	b	1
Alt #4	3.80	\$ 15,700,000	3	10	σ	a
Alt#6		\$ 1,100,000	a	g.	g.	g g

Alternative 5 includes restriping US 60 (13<sup>th</sup> Street) between Rose Hill and downtown Ashland to three lanes (two travel lanes plus a center left-turn lane). This alternative should be implemented once Alternative 3 is constructed and open to traffic. Alternative 3 will divert traffic from this section of US 60, reducing the traffic volume enough for three lanes to accommodate the demand. Therefore, Alternative 5 is the third priority among the long-range corridor alternatives.



## 1.0 INTRODUCTION

The I-64 to US 23 Ashland Connector Study was initiated by the Kentucky Transportation Cabinet (KYTC) to seek improvement strategies for current and anticipated future transportation deficiencies within a portion of Boyd County. The project study area, shown in **Figure 1-1**, is completely within Boyd County and is about 24 square miles in size. At its southern boundary, this area includes I-64 between the US 60 and KY 180 interchanges. To the east, the study area follows KY 180 and then US 60 north to US 23. To the west, the boundary begins following US 60 to Princess, then proceeds northeast to the Greenup County line near Bellefonte and follows the county line to US 23. The study area is about 10 miles in length and varies from about 1.5 miles wide at its narrowest point to about 4.4 miles wide along I-64.

# 1.1 Project History

The need for an improved transportation corridor between I-64 and downtown Ashland was first identified in the early 1990's, at which time KYTC was also exploring the need for and feasibility of an Ashland Bypass. This improved corridor, referred to as the "Urban Penetrator", generally followed the CSX Transportation rail line from US 60 near Meads to US 23 west of downtown Ashland. The Ashland Metropolitan Planning Organization (MPO) added the Urban Penetrator to the Transportation Improvement Program (TIP) in 1996. The TIP, a list of multimodal transportation projects, is a short-range fiscal document that represents the first four years of the long-range plan and the highest transportation priorities of the region.

The Urban Penetrator was first included in the KYTC Enacted 1997-2002 Six Year Highway Plan (SYP) in 1996. The SYP, a fiscally constrained list of projects, represents the near-term KYTC funding commitments for transportation improvements statewide. At the time, \$1,000,000 was designated for design in 1998, and right-of-way acquisition (\$1,000,000) and utility relocation (\$750,000) were listed for 2000. Construction was scheduled to being in 2001, with an estimated cost of \$7,000,000. A project was advertised by KYTC and a consultant team selected, but no project activities took place. However, the project remained listed on the SYP.

The 2003 Ashland Comprehensive Plan Update included several transportation goals that supported the need for an improved connection through the study area. These goals included planning for a "vehicular bypass around the urban area", encouraging "alternate routes for US 60 commuter traffic", and encouraging "alternate routes for hazardous materials transport outside the urbanized area". The document noted that the most significant transportation challenge in Ashland was the need for a major arterial facility in the western part of the community to provide congestion relief to US 60, provide improved access to Town Center Mall and the Wal-Mart shopping center on US 23, and improve circulation.

More recently, the Ashland Urban Penetrator remained on the FY 2006 – FY 2012 SYP as a scoping study between I-64 and downtown Ashland. The KYTC initiated the current study in 2007, renaming it the I-64 to US 23 Ashland Connector Study. There are no further phases programmed for this project.



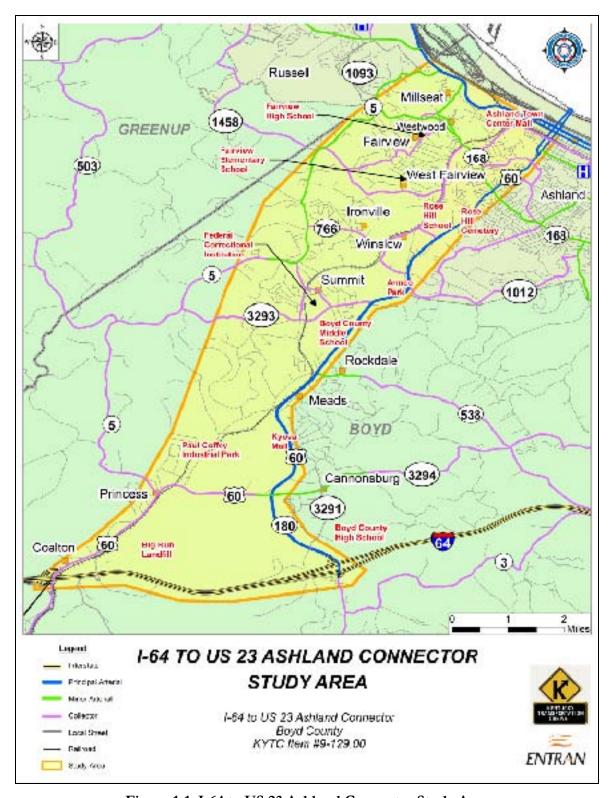


Figure 1-1: I-64 to US 23 Ashland Connector Study Area



# 1.2 Study Purpose and Need

The purpose of the I-64 to US 23 Ashland Connector Study was to identify community concerns and evaluate project alternatives to improve access and mobility between I-64 and Ashland. The study was intended to help define the location and purpose of the project and better meet federal requirements regarding consideration of environmental issues, as defined in the National Environmental Policy Act (NEPA).

There is a need for improved mobility between I-64 and Ashland. Additionally, the area west of Ashland is densely populated and contains a series of narrow local roads with limited connectivity. Currently, the only direct routes to downtown Ashland from I-64 are US 23 (via the Catlettsburg interchange) and US 60. US 60 is accessed by utilizing either the KY 180 interchange or the US 60 interchange (known locally as the "Coalton" interchange) with I-64. US 60, a signalized arterial, currently carries close to 30,000 vehicles per day (vpd) and has access management issues that tend to increase congestion. This congestion has led to high crash rates within the corridor. South of Ashland, US 60 is four lanes with full outside shoulders and grass median with turn lanes at major intersections. Approaching Ashland, the roadway narrows to four lanes with no shoulder and limited turn lanes. Development along US 23 within and to the west of Ashland has increased travel demand, particularly to the northwest and near Russell.

The primary goals for the study include:

- Discuss the project needs with public officials, resource agencies, the general public and other groups which have an interest in the project.
- Define project goals, needs, and issues
- Identify any known environmental issues, including potential environmental justice issues
- Define project termini (the beginning and ending points of the project)
- Identify and evaluate short and long term projects, including access management, spot improvements, alternate corridors and design criteria

Major issues and concerns identified within the study area and addressed in the study include:

- Mobility and Connectivity
  - o Lack of efficient north-south routes between I-64 and downtown Ashland
  - o A need to improve connectivity to US 23 and US 60 from surrounding communities
  - o Traffic congestion and safety along US 60 and US 23
  - o Lack of multimodal facilities, including bicycle and pedestrian facilities. More efficient transit routing is also needed.
  - o Truck routing
- Determination of Community Desire and Expectations
  - o Project Costs and Schedule
  - o Project Termini
- Environmental Issues
  - o Community and Residential Impacts



- o Environmental Justice Westwood and Fairview
- o Historical Properties
- o Natural Environment
- Access Management and Land Use
  - o US 60 and US 23
  - o Access management along any new routes to be proposed

#### 1.3 Public Outreach

Comprehensive public involvement plays a critical role in the success of a planning study. The purpose of the public outreach component of the I-64 to US 23 Ashland Connector Study was to bring different groups of people together to express their ideas, clarify areas of agreement and disagreement, and to develop shared resolutions. KYTC seeks to build partnerships among stakeholders in order to better understand the relationship among problems and to bring more resources and expertise together to develop alternate solutions.

The public involvement component of this study was used to:

- Gauge the interest of the affected communities regarding the desire for a project
- Inform and educate the public on the project
- Identify the needs of the study area
- Identify the project issues and goals
- Identify potential corridor locations

Public involvement during the study was guided by the Ashland Connector Advisory Team (ACAT), made up of local officials, interested individuals, and other stakeholders. Invitations to serve on the ACAT were sent to a diverse array of individuals, and the following volunteered to serve on the ACAT:

Name	Representing
Mr. Phil Biggs	Chairman, FIVCO MPO
Chief Richard Cyrus	Cannonsburg Fire Chief
Ms. Paula Hogsten	Ashland City Commissioner
Capt. Todd Kelley	Police Department - City of Ashland, KY
Mr. James King	Ashland Cyclist Enthusiasts
Ms. Judy McCoy	Boyd County Public Schools-Trans Director
Mr. Bill Musick	Fairview Independent Schools
Mr. Jim Purgerson	Ashland Alliance
Chief Robert Ratliff	Police Department - City of Ashland, KY
Mr. Keith Robinette	Boyd County Road Supervisor
Mr. Kyle Robinson	Boyd County Cooperative Extension District
Mr. Michael Rogers	Ashland Bus System
Mr. Marion Russell	Ashland Public Works Director



Mr. Thomas Saylor	Industrial Authority
Chief Scott Penick	Fire Department - City of Ashland
Ms. Nickie Smith	Riverport Authority
Ms. Cheryl Spriggs	Ashland City Commissioner
J/E Bud Stevens	Boyd County Fiscal Court

Meetings were held with the ACAT at regular intervals over the course of the study and provided opportunities for the study team to provide information and listen to community concerns. Early meetings were held to introduce the study team members, begin to discuss study goals, and solicit input on transportation issues and needs. A group exercise was undertaken at the first meeting with the ACAT to provide attendees an opportunity to work with each other to identify existing transportation issues and potential improvements. The committee was divided into small groups and provided maps depicting some of the known environmental resources within the study area. The following discusses some of the items which were brought up during the exercise.

#### **Transportation Issues**

- US 60 north of Rose Hill
  - o Lack of left turn lanes
  - o High travel speeds
  - o Trucks (HazMat)
  - o Utility pole setbacks
- Potential impacts to low-income neighborhoods near Millseat

#### **Short Term Projects**

- Eliminate left turns from US 23 onto Ohio River Bridges
- New traffic signal on US 60 at Safe Harbor
- Intersection improvements at US 60 @ KY 180
- Delineation of wide medians on portions of US 60

## Long Range Projects

- Defined future major corridor
  - o US 60 south of Rose Hill through West Fairview and Millseat
  - o Connector route from Industrial Parkway to US 60 north of Summit
- Improvements to KY 168 corridor
- US 60 I-64 to KY 180 (Possible 3 lane)
- US 60 Rose Hill to Downtown (Possible 3 lane)

As the study progressed, meetings were held to solicit feedback on potential projects. In addition, meetings with local officials and public information meetings were held at key intervals of the project.

The first public meeting was held on April 24, 2008 at the Kyova Mall in Ashland. The purpose of the meeting was to inform the public of the planning study, discuss various environmental and technical issues concerning the project area, and solicit input. The meeting was held in an open house format with KYTC and consultant



staff available to answer questions and discuss issues. Forty five (45) members of the public attended the meeting. A sign in table was set up where attendees signed in and were given a project brochure, meeting handout, and questionnaire. The following project exhibits were on display:

- Project Study Area
- Traffic and Safety
- Environmental Resources
- Advisory Committee Trouble Spots
- Advisory Committee Suggested Improvements
- KYTC Planning process
- Six year plan projects
- Aerial Map of Study Area with pictures

The second public meeting was held on November 18, 2008 at the Park Place Building in downtown Ashland. The purpose of this final public meeting was to summarize the key findings from the study and to present the preliminary short-term and long-range projects developed based on input from the ACAT and feedback from the first public meeting. Approximately 55 members of the public attended the meeting. In addition to the exhibits from the first public meeting, the following project exhibits were on display:

- Public Meeting #1 Identified Trouble Spots and Proposed Corridors
- Potential Short-Term Improvement Options
- Potential Long-Range Corridor Alternatives
- Alternative Corridors with Aerial Background

Meeting summaries for all meetings held throughout the I-64 to US 23 Ashland Connector Study are found in **Appendix A**.



### 2.0 EXISTING CONDITIONS

Conditions of the study area's existing transportation network are examined in the following section. The information compiled includes traffic facilities, roadway geometrics and capacity constraints, crash history, and planned projects within the study area. Data for this section was collected from the KYTC's Highway Information System (HIS) database and field review.

# 2.1 Roadway Characteristics

At the southern border of the study area, I-64 provides regional east-west connectivity to major destinations within the state, such as Lexington and Louisville, and extending to surrounding states. Two interchanges exist along I-64 within the study area, at US 60 and KY 180. US 60 traverses through rolling terrain to downtown Ashland, where it intersects with US 23.

Detailed roadway information for the major highways within the study area is located in **Table B-1** in **Appendix B**. Additionally, Lane Data, Median Type, Shoulder Width, Functional Classification, Truck Routes, Truck Weight Class, Horizontal Adequacy and Vertical Adequacy maps are located in **Appendix B**. Key

information is summarized below.

<u>KY 5</u>: State Route 5 (KY 5) is an undivided, two-lane highway with 11-foot lanes. The majority of the roadway has two-foot shoulders and parallels creek beds. From US 60 to the Ashland Urban Limits, the roadway is classified as a Rural Major Collector with 55 mph speed limit. From the Urban Limits to US 23, the roadway is an Urban Minor Arterial with speed limits ranging from 35 to 45 mph.

KY 180: Between I-64 and US 60, KY 180 is a four-lane divided highway with a depressed grass median. The functional classification is a Principal Arterial. Travel lanes are 11-feet wide and shoulder widths are 10 feet wide. The speed limit is 55 mph. KY 180 is part of the National Highway Network and designated with AAA Truck Weight Class.

<u>US 23X</u>: US 23X is an Urban Principal Arterial located in Ashland's central business district. This four-lane roadway has ten-foot travel lanes with a flush center median. The speed limit varies from 25 mph to 35 mph.

<u>US 23:</u> This divided roadway has four 12-foot wide travel lanes. US 23 parallels US 23X in the downtown area, and is also designated as an Urban Principal Arterial. From Town Center Drive to KY 168, the roadway's terrain is mountainous. The shoulder width varies from 2 feet to 10 feet wide. US 23 is part



KY 5 at KY 766



US 60 at KY 180



of the National Highway Network and designated with AAA Truck Weight Class.

<u>US 60</u>: The physical characteristics of US 60 within the study area vary greatly. Between I-64 and KY 180, the facility is classified a Rural Major Collector, and is an undivided roadway with two travel lanes and 10- to 12-foot shoulders. From KY 180 to KY 168, the facility becomes an Urban Principal Arterial with four travel lanes. From KY 168 to the downtown area, the lane width narrows to 10 feet, shoulders are curbed, and the speed limit is reduced to 35 mph.

The Ashland Bus System currently operates five bus routes in the Ashland area. The routes are identified in **Figure 2-1**.



US 60 approaching Ashland

# 2.2 Traffic Volumes and Volume-to-Capacity Ratios

Existing average daily traffic (ADT) volumes were obtained for all state-maintained roadways within the study area using the KYTC HIS database. **Figure 2-2** shows the ADTs. The list below summarizes the vehicles-perday (VPD) for the major roadways.

```
<u>KY 5</u>
2,290 VPD (West of US 60)
7,920 VPD (near Greenup County line)
<u>KY 180</u>
13,300 VPD (north of I-64)
33,400 VPD (east of US 31W)
<u>US 23</u>
35,600 VPD (at the Mall)
<u>US 60</u>
21,400 VPD (just south of Ashland)
28,100 VPD (north of KY 538)
```

The volume-to-capacity (V/C) ratio is a level-of-service measure, comparing the roadway's demand to the roadway's capability. Areas of concern are where the V/C values approach or exceed 1.0, in which limited capacity leads to congestion. As illustrated on **Figure 2-2**, the majority of the roadways are performing adequately, with V/C value of 0.8 or below. Portions of KY 5, KY 766, US 23, and US 60 are currently operating at or near capacity.

**Table 2-1** summarizes the truck percentage data available from the KYTC for the major roadways within the study area.



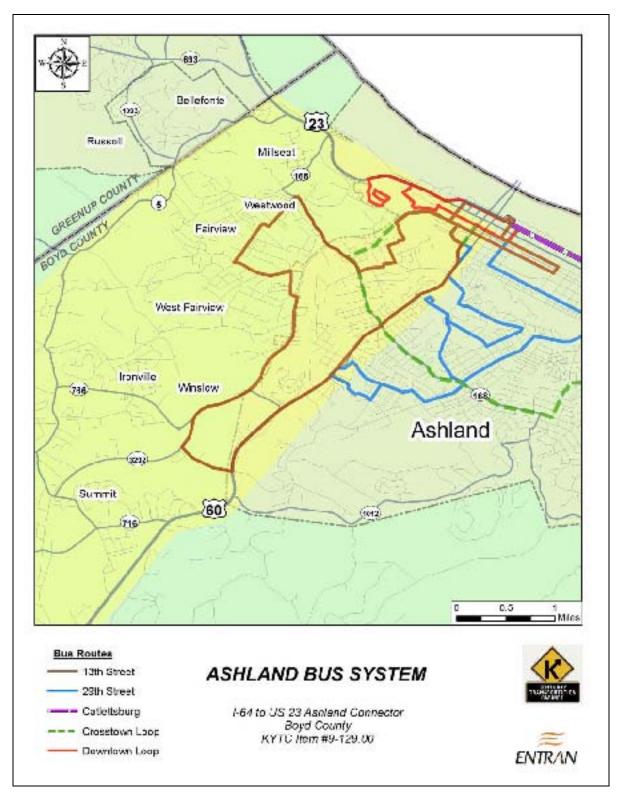


Figure 2-1: Ashland Bus System Routes



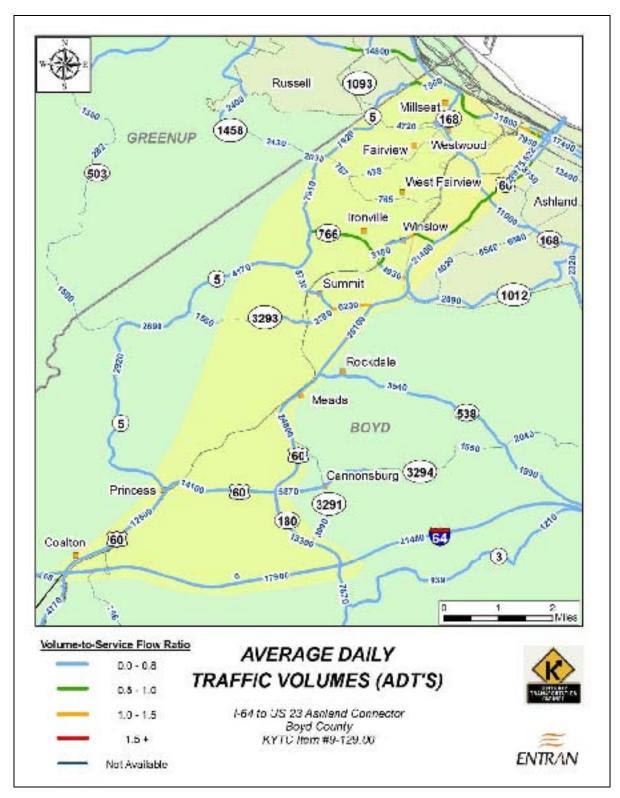


Figure 2-2: Average Daily Traffic Volumes



Table 2-1. Heavy Truck Percentages

Route	Count Station	Section Description	Total Heavy Truck %*	NB / EB %	SB / WB %
US 23	015	South of I-64	16.3	16.1	16.5
	D27	Between KY 538 & KY 3294	11.8	12.3	11.4
	D23	Between KY 3294 & US 60			
	D15	Between US 60 & KY 168	8.0	7.4	8.6
	A54	Between CS 2025 - CS 2024	13.8	13.7	13.8
	A52	Between CS 2024 - US 23X			
	B09	Between US 23X & US 60	7.5	7.8	7.3
	A96	Between US 60 & US 23X			
	B71	Between US 23X & KY 5	5.3	4.9	5.7
	A05	Between KY 5 & Co. Line	3.9	3.8	3.9
	813	Between US 60 & KY 503	10.0		
	759	Between KY 503 & KY 3293			
	C25	Between KY 3293 & KY 716			
KY 5	C08	Between KY 766 & KY 1458	5.0	5.0	5.1
	_	Between KY 1458 & KY			
	B29	1093			
	B81	Between KY 1093 & US 23			
KY 180	752	South of I-64			
	C49	at US 60	9.0	8.3	9.7
	043	South of I-64			
	816	Between I-64 & North I-64 Ramps			
	756	Between KY 5 & KY 180			
	C41	Between KY 180 & KY 538	5.1	4.0	6.2
	C39	at KY 538			
US 60	C36	Between KY 538 & KY 716			
	A82	Between KY 1134 & KY 168	5.2	5.1	5.3
	A21	Between KY 168 & US 60-1	3.8	3.5	4.2
	D0.4	Dat 110 00 4 0 110 00V	11.1 (one-		
	B34	Between US 60-1 & US 23X	way)		
	A26	Between US 23S & US 60-1			
	B39	Between US 23 & US 23X	F 0		
	5	Between US 23 & Bridge	5.0	0.0	0.7
110 001/	B16	Between US 23 & 17th St.	3.3	3.0	3.7
US 23X	B10	D	F 0	<b>.</b> .	
	A25	Between US 60-1 & US 23	5.8	5.6	6.0



# 2.3 Crash History

Crash data were collected along existing roadways within the study area for a five-year period (2002 – 2006). A total of 3,548 crashes were reported along the following major routes: KY 5, KY 180, US 23, US 23X and US 60.

A closer review of the data found that four fatal crashes and 388 injury crashes were reported along US 60 during the five years. Eighty-eight percent of all crashes along US 60 were intersection crashes. Rear-end or angle crashes accounted for 72 percent of all crashes along US 60. Along KY 5, three fatalities and 111 injury crashes were reported. Of all the crashes along KY 5, forty-seven percent involved only one vehicle. For KY 180, one fatality and 33 injury crashes were reported for the five years. Twenty-seven percent of the KY 180 crashes occurred at intersections, and sixty-three percent were reported as rear-end or angle crashes.

Critical Rate Factors (CRFs) were also determined as part of this analysis. The CRF value is calculated by dividing the actual crash rate along a particular roadway segment by the critical rate, which is the maximum accident rate for which it can be said that crashes are occurring randomly based on roadway characteristics and traffic. A CRF less than 1.0 indicates that crashes occur at random, and greater than 1.0 suggests that conditions may exist that contribute to non-random occurrences.

Segment locations with CRF values greater than 1.0, shown on Figure 2-3, are listed below.

- KY 5: between US 60 (MP 0.00) and KY 716 (MP 6.862)
- KY 180: between KY 3 (MP 0.00) and US 60 (MP 2.518)
- US 23X: between Greenup Avenue (MP 0.00) and US 23 (MP 1.796)
- US 23: between KY 3 (MP 10.445) and north I-64 ramps (MP 10.667)
- US 23: between 12<sup>th</sup> Street Bridge (MP 18.643) and Winchester Avenue (MP 18.997)
- US 60: between Carter-Boyd Co. line (MP 0.00) and I-64 overpass (MP 0.195)
- US 60: between KY 168 (MP 10.819) and 13<sup>th</sup> Street (MP 12.217)

Additionally, roadway spots (a roadway length of less than 0.1 miles) with high crash rates were also identified. These locations, shown on **Figure 2-4**, are as follows:

- KY 5 at KY 3293 (MP 4.677)
- KY 5 at KY 716 (MP 7.007)
- KY 5 at KY 766 (MP 7.532)
- KY 5 at KY 1458 (MP 9.247)
- KY 168 at Roberts Drive (MP 6.756)
- KY 180 at I-64 (0.650)
- US 23 at I-64 (MP 10.695)
- US 60 at Lexington Avenue (MP 0.135)

- US 60 at Central Avenue (MP 0.298)
- US 60 at Winchester Avenue (MP 0.448)
- US 60 at KY 180 (MP 4.073)
- US 60 at Winslow Road (MP 9.774)
- US 60 at KY 168 (MP 10.810)
- US 60 at Pollard Road (MP 11.597)
- US 60 at Central Avenue (MP 12.048)
- US 60 at Carter Avenue (MP 12.150)



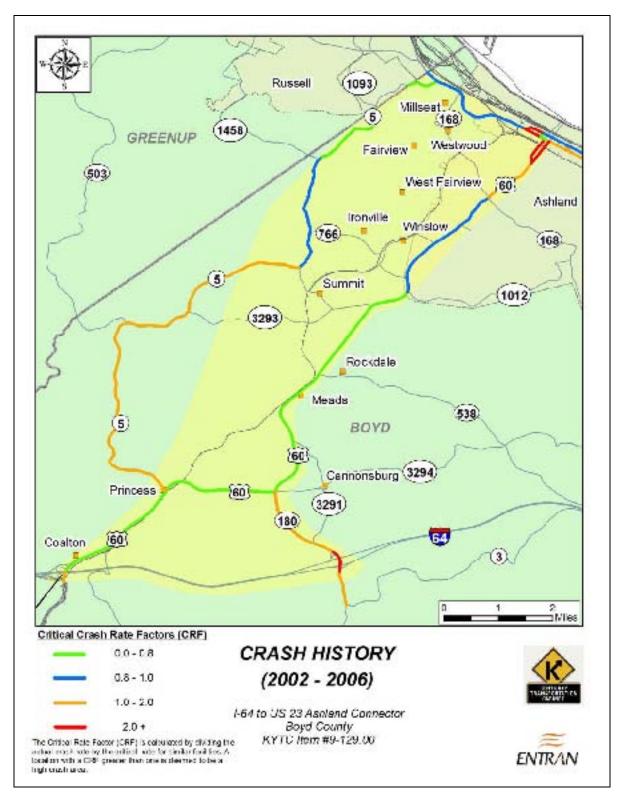


Figure 2-3: Crash History and Segments with High Crash Rates



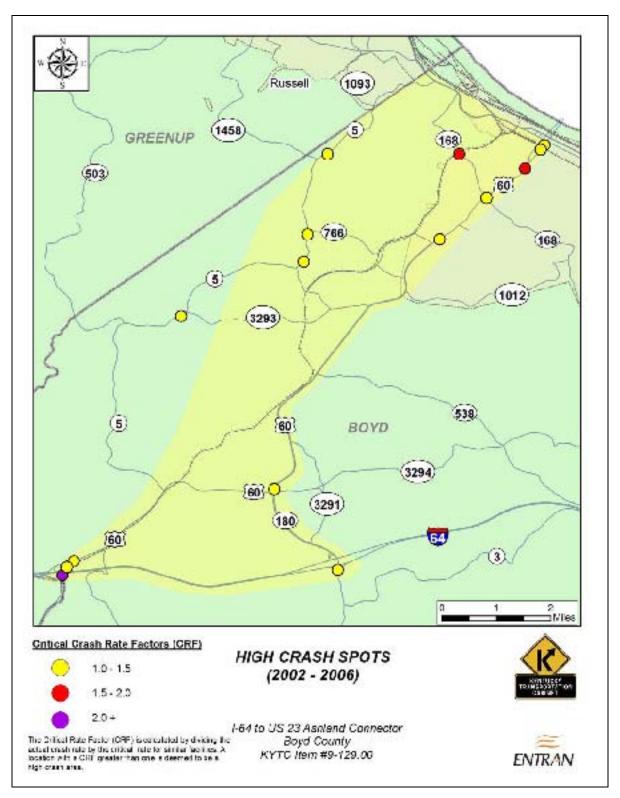


Figure 2-4: High Crash Spots



# 3.0 ENVIRONMENTAL RESOURCES AND ISSUES

Environmental resources and issues of concern identified in the project study area include those related to both the natural and human environment, and included the following: streams, floodplains, wetlands, ponds, water supplies, threatened, endangered and special concern species and habitat, woodland and terrestrial areas, parks, social and economic resources, historic and archaeological resources, hazardous materials concerns, agriculture, mining, environmental justices, and additional concerns. A brief summary of the environmental resources and issues requiring additional consideration in the project study area is presented below, with additional resource and issue information provided in the project *Environmental Overview*, included in **Appendix C**.

# 3.1 Resource Agency Coordination

A total of 120 letters were sent to federal, state, and local agencies to solicit input and comments on the I-64 to US 23 Ashland Connector Study. Twenty-one agencies responded, and their responses are included in **Appendix C, Attachment B**. The following agencies provided input or comments on the study:

- United States Fish and Wildlife Service (USFWS)
- Kentucky State Nature Preserves (KSNPC)
- Kentucky Department of Fish and Wildlife Resources (KDFWR)
- Kentucky Environmental and Public Protection Cabinet, Department for Environmental Protection (KEPPC-DEP) Clearing House
  - o Division of Water
  - o Division of Waste Management
  - o Division of Air Quality
  - Kentucky Heritage Council
  - o Department for Natural Resources
  - Division of Mine Reclamation and Enforcement
- Kentucky Bicycle and Bikeway Commission
- Kentucky Geological Survey (KGS)
- Centers for Disease Control and Prevention (CDC), Division of Emergency and Environmental Health Services
- Kentucky Cabinet for Economic Development
- Kentucky Cabinet for Health and Family Services
- Ashland Fire Department
- Boyd County Sheriff
- Kentucky Department of Education, Division of Facilities Management
- Department of Military Affairs
- Kentucky Heritage Council
- Kentucky Division of Waste Management (KDWM)
  - o Underground Storage Tank Branch
  - o Solid Waste Branch
- Kentucky Department of Agriculture
- Federal Aviation Administration (FAA)



- Kentucky Natural Resources Conservation Service (NRCS) Office

#### 3.2 Natural Environment

**Figure 3-1** presents a summary of the significant natural environment features located within the study area. Discussion on these features is found in the following sections.

#### Surface Streams

Through a combination of review of information from the Kentucky Environmental and Public Protection Cabinet Division of Water, United States Geological Survey (USGS) 7.5' topographic quadrangles and on-site field survey, it was determined that no Special Use Waters and no high quality stream corridors occur in the project study area. It was also determined that a total of 55 USGS blue-line streams occur in the project study area in two watersheds; the East Fork Little Sandy River and the Ohio River Near Greenup watersheds. The most prominent surface stream feature in the study area is the East Fork Little Sandy River, which flows east to west through the project study area. Additionally, numerous ephemeral non-USGS streams were identified in the study area during the September 2007 on-site field survey. A comprehensive stream survey and impact assessment, including evaluation of avoidance and minimization measures, will need to be conducted as this project further develops. Unavoidable impacts to the Little Sandy River and other USGS and/or ephemeral features will require coordination with the U.S. Army Corps of Engineers and the Kentucky Division of Water (KDOW).

# **Floodplains**

Based on review of Federal Emergency Management Agency (FEMA) 100-Year floodplain information from the Kentucky Office of Technology Division of Geographic Information, 100-Year floodplains occur along a number of streams in the project study area. Avoidance and minimization of floodplain encroachment will need to be evaluated as this project further develops for compliance with Executive Order 11988 and United States Department of Transportation floodplain policies, and coordination and review of the project by Kentucky Division of Water (KDOW) and the local floodplain coordinator will need to be conducted if floodplain encroachment does occur.

#### Wetlands

Review of National Wetland Inventory (NWI) information from the U.S. Fish and Wildlife Service indicated that a total of 19 NWI-mapped wetlands occur in the project study area, most of which were located along the East Fork Little Sandy River and other FEMA 100-year floodplain areas. During the 2007 on-site field survey of the project study area, many of the NWI mapped wetlands were confirmed to be present, and a number of additional non-NWI-mapped wetlands were observed. Most of the wetlands were noted to be low-quality features associated with roadside ditches and drainage swales, however, several moderate quality wetlands were observed along the East Fork Little Sandy River. No extensive, high quality wetlands were noted in the study area. A comprehensive wetland survey and impact assessment, including evaluation of avoidance and minimization measures, will need to be conducted as this project further develops. Unavoidable wetland impacts will require coordination with the U.S. Army Corps of Engineers and the Kentucky Division of Water.



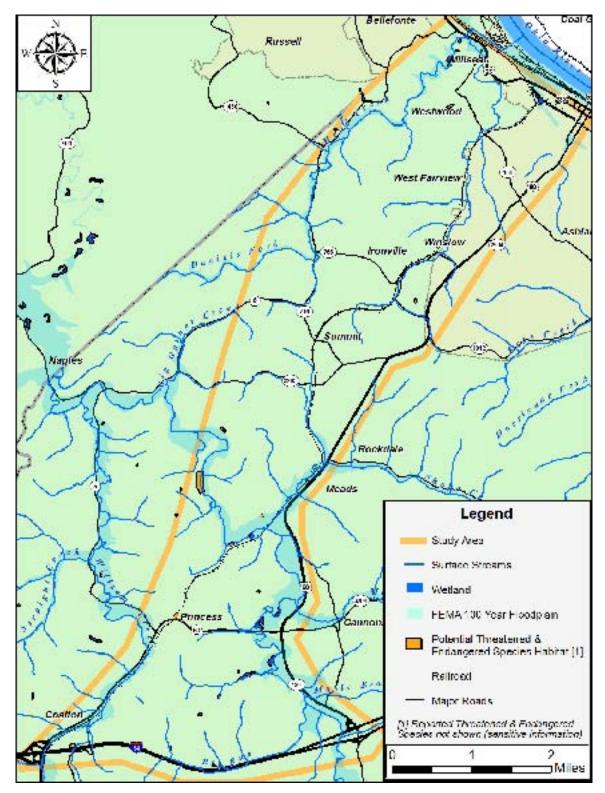


Figure 3-1: Significant Natural Environment Features



## **Groundwater Resources and Public Water Supplies**

Review of information from the Kentucky Geologic Survey (KGS) and Kentucky Division of Water (KDOW) indicated that no wellhead protection areas, public water supplies, springs or karst areas occur in the project study area. Information from KGS and KDOW indicated that approximately 157 water wells occur in the study area, most of which were identified as monitoring wells, and that the northern half of the study area occurs in a Source Water Assessment and Protection Program area (SWAPP). As the project further develops, water wells encountered within the construction limits of an alternative selected for development will need to be sealed per Kentucky Transportation Cabinet standard specifications.

### Threatened, Endangered and Special Concern Species

Information concerning the occurrence of federal and state threatened, endangered and special concern species and unique habitats in the project vicinity obtained from the United States Fish and Wildlife Service (USFWS), the Kentucky State Nature Preserves Commission (KSNPC) and the Kentucky Department of Fish and Wildlife Resources (KDFWR), indicated that no unique habitats occur in the study area, but that a total of 20 listed fish, mammals, birds and freshwater mussels were reported to occur or have suitable habitat in the general project area. Five of these listed species were reported to have occurrences of individuals from within the project study area boundaries, and included two federal species of management concern (salamander mussel and trout perch) and three state special concern species (little spectaclecase mussel, yellow troutlily and gray treefrog). No known occurrences of any federal threatened or endangered species were reported from within the study area boundaries. During the September 2007 on-site field survey of the project area, potential habitat for the federal endangered Gray and Indiana bats, as well as potential habitat for several mussel and fish species, listed above, was observed. Due to the occurrence of potential habitat for listed species in the project study area, a more thorough survey for these species should be conducted as the project further develops.

#### 3.3 Human Environment

A summary of the significant human environment features in the study area is shown in **Figure 3–2**.

<u>Public Parks - Section 4(f) and Section 6(f) Facilities - Through a combination of review of project aerial photographs, USGS maps, information from the National Park Service and on-site field surveys, a total of eight public parks were identified in the project study area. If any of these facilities are affected by the proposed project, then evaluation and coordination with the Federal Highway Administration will be necessary. Two of the above-listed facilities were additionally identified as having received grant assistance from the Land and Water Conservation Fund (LWCF), and, if impacted, would require evaluation and approval by the National Park Service.</u>

Social and Economic Resources - Through a combination of review of information from the Environmental Systems Research Institute (ESRI) and on-site field survey, the following social and economic resources were identified in the project study area: 18 schools, institutions and learning centers, 38 churches, 15 cemeteries, three fire departments, three shopping centers/urban mall complexes, two public golf courses, one industrial park, and two federal facilities. These facilities are shown on Figure 4-2. Impacts to these social and economic resources will have to be taken into consideration once the project further develops.



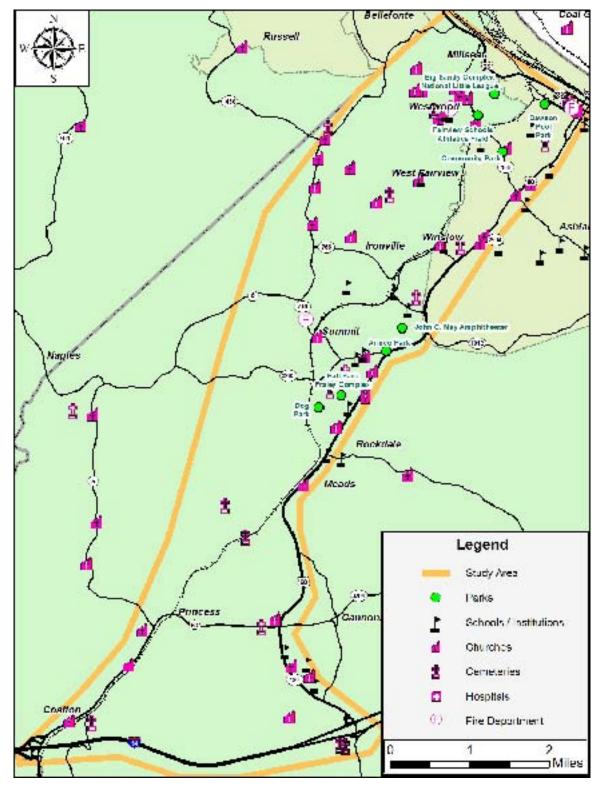


Figure 3-2: Significant Human Environment Features



### Historic and Archaeological Resources - Section 106 and Section 4(f) Resources

<u>Historic Resources</u> - Cultural historic investigations indicated that the following historic resources occur in the project study area: a total of four National Register of Historic Places (NRHP) listed resources, a total of four historic resources determined to be eligible for inclusion on the NRHP, and a total of six districts and 26 individual properties determined to be potentially eligible for inclusion on the NRHP (pending additional research and consultation with the State Historic Preservation Office). These resources are shown on **Figure 3-3**. Section 106 review under the Historic Preservation Act and evaluation and coordination with the Federal Highway Administration under Section 4(f) of the Department of Transportation Act of 1966 will be required if any of these resources are impacted by the project. Additional information concerning historic resources in the project study area is provided in the project *Historic Resources Overview* in **Appendix D**.

Archaeological Resources - Archaeological studies indicated that approximately five percent of the project study area has been previously surveyed for archaeological resources, and review of information from the Kentucky Office of State Archaeology indicated that a total of three archaeological sites occur in the project study area. The study also noted that nearly half of all recorded archaeological sites in Boyd County have been found on floodplains or on stream terraces, suggesting that similar areas, along with upland flats located in ridge line saddles, within the project study area would have the greatest potential for the occurrence of archaeological resources. A more thorough survey for archaeological resources in the project study area should be conducted as the project further develops. Additional information concerning archaeological resources in the project study area is provided in the project Archaeological Overview in Appendix E.

### **Agriculture**

Review of information from the Kentucky Natural Resources Conservation Service indicated that prime farmland soils occur at a number of locations throughout the project study area, primarily in low-lying, level stream bottomlands, and in level areas along chief transportation corridors. The 2007 on-site field survey revealed that the occurrence of agricultural land in the project study area was relatively sparse (estimated to account for less than ten percent of the total land area encompassed by the study area), and mostly in hay production. In response to a request for information, the Kentucky Department of Agriculture acknowledged the project, but offered no specific comments. Once the project further develops, coordination with the local Natural Resources Conservation Service office will be necessary to determine if the project will result in adverse impacts to farmland.



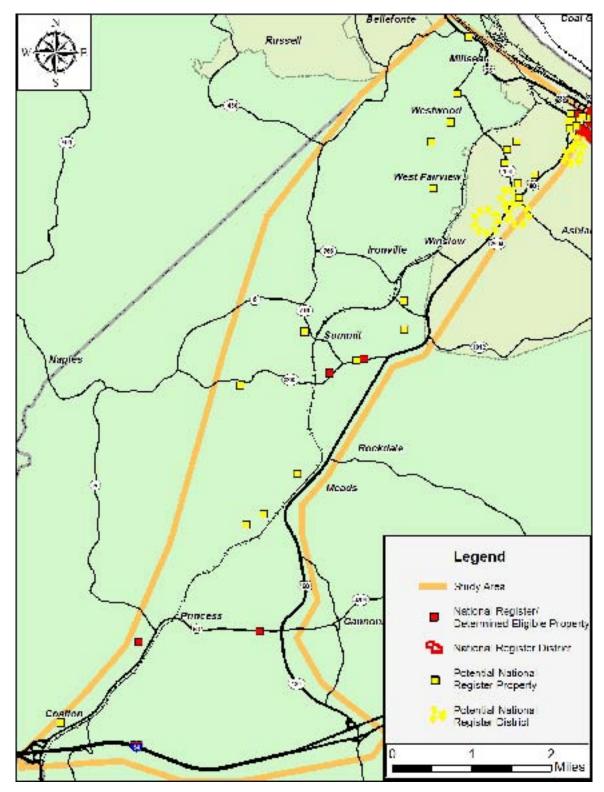


Figure 3-3: Cultural-Historic Resources



#### **Hazardous Materials Concerns**

A summary of the significant hazardous materials concerns in the study area is shown in Figure 3-4.

<u>Underground Storage Tanks (UST's)</u> - The occurrence of UST's in the project study area was determined through a combination of review of information from the Kentucky Division of Waste Management (KDWM) Underground Storage Tank Branch, the USEPA Envirofacts Data Warehouse for hazardous waste information and on-site field survey. In December 2007, KDWM reported that 39 facilities with UST's occur in the project study area. In general, the types of facilities with UST's included: gas stations, transportation, manufacturing, wholesale, service, government, information services, agriculture, and construction facilities. A Phase I survey for UST's in the project study area will need to be conducted as the project further develops.

<u>USEPA Regulated Sites</u> - A total of 46 USEPA regulated properties were identified in the project study area as hazardous materials concerns through review of information from KDWM and the USEPA Envirofacts Data Warehouse. Of the 46 USEPA regulated properties identified in the project study area, 13 of the sites were Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) Superfund properties and 33 were Resource Conservation and Recovery Information System (RCRIS), Toxic Release Inventory (TRI) or Brownfields properties. As a result, a Phase I survey for hazardous materials concerns in the project study area will need to be conducted as the project further develops.

Oil and Gas Wells - Through a combination of review of information from the Kentucky Office of Technology Division of Geographic Information and on-site field survey, a total of approximately 111 oil and gas wells were identified in the project study area. A more thorough survey for oil and gas wells should be conducted once the project further develops and any oil and gas wells determined to be impacted by the project will need to be sealed per KYTC standard specifications.

<u>Landfills</u> - Review of information from KDWM Solid Waste Branch indicated that eight known landfills occur in the project study area. A Phase I survey for hazardous materials concerns associated with these landfill sites will need to be conducted as the project further develops.



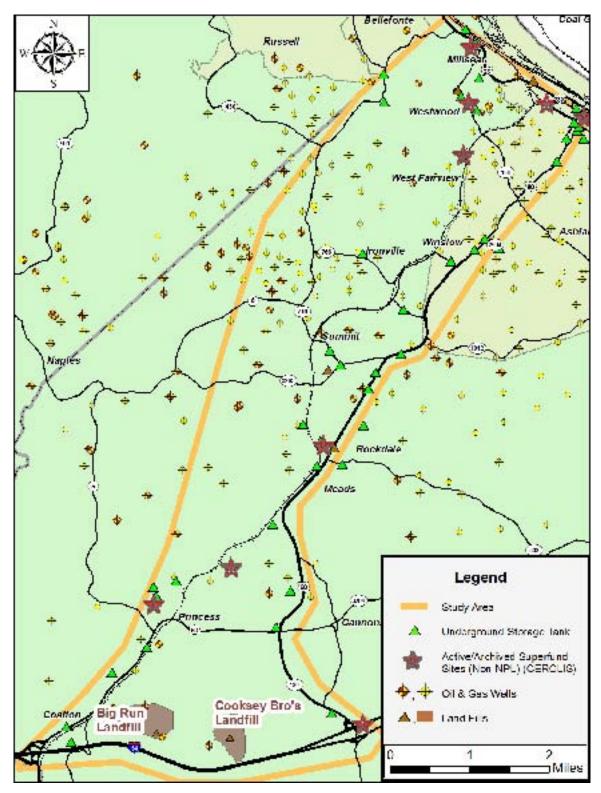


Figure 3-4: Hazardous Material Concerns



#### **Geotechnical Issues**

A geotechnical overview investigation conducted for the project in November and December of 2007 indicated that the study area has been extensively mined for coal, especially in the areas near the town of Princess and at several locations west of US 60. The study also indicated that bedded materials near surface elevations in the study area would be susceptible to landslides. The study recommended that available mining records be reviewed and that terrace deposits be avoided due to the potential for settling. The study also recommended that measures to increase safety such as flatter slopes, promotion of surface/subsurface drainage, re-vegetation and construction of retaining walls, be included in the design of the project. Additional information concerning geotechnical issues within the study area is found in the *Geotechnical Overview* in **Appendix F**.

#### Mines and Quarries

Mines and quarries in the project study area, shown in **Figure 3-5**, were identified through a combination of review of information from the Kentucky Department for Natural Resources Division of Mine Reclamation and Enforcement, the Kentucky Office of Technology Division of Geographic Information and on-site field survey of the study area. No active mining operations were determined to occur in the study area, although, a total of 18 inactive mine sites were identified from secondary sources. Two active quarries were identified in the southern portion of project study area in the vicinity of Princess. Impacts to previously mined or quarried areas in the study area will need to be taken into consideration for the development of project alternatives once the project further develops.



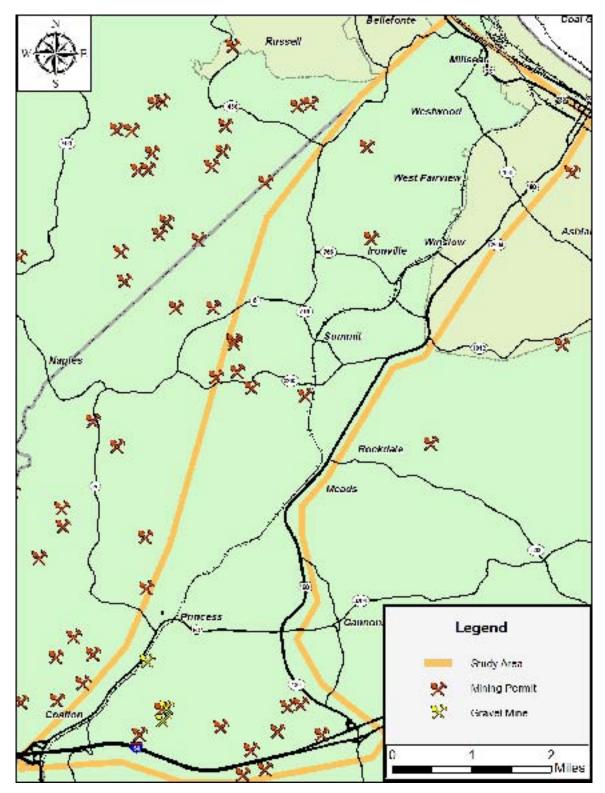


Figure 3-5: Mines and Quarries



#### 3.4 Environmental Justice

Issues pertaining to minority, elderly, disability and low income (persons living in poverty) populations in the project study area were evaluated and documented in a May 2008 report entitled *Environmental Justice and Community Impact Report*. The EHI report concluded that Environmental Justice populations above the state and county averages occur in several Census Tracts and Block Groups in the study area generally in proximity to the City of Ashland, and the communities of Summit, Westwood and Fairview. The occurrence of these Environmental Justice populations in the project study area should be taken into consideration as the project further develops. Additional information concerning Environmental Justice issues in the project study area is provided in the project *Environmental Justice Overview* in **Appendix G**.

### 3.5 Additional Items of Concern

<u>Air Quality</u> - Boyd County is currently (June 2008) reported by the USEPA as a non-attainment area for Particulate Matter (size < 2.5 micrometers), and a PM2.5 analysis will need to be conducted as this project further develops.

<u>Noise</u> - The study area includes a number of sensitive noise receptors, including parks, schools, churches, golf courses and residential neighborhoods. A project specific traffic noise impact analysis will need to be conducted to identify and mitigate traffic noise impacts as this project further develops.

<u>Utility Corridors</u> - A number of major utility corridors, as well as the CSX rail road, occur within the project study area. These facilities will require consideration as this project further develops.



# 4.0 FUTURE CONDITIONS

In order to determine the need for and purpose of potential transportation improvement projects, it is necessary to estimate future conditions within the study area. This chapter summarizes the anticipated future conditions within Boyd County.

# 4.1 Population Projections

According to projections provided by the Kentucky State Data Center, Boyd County's population is in decline. Projections developed in 2004 (available during the study) suggested that population would decrease between 2005 and 2010, but would increase slightly between 2010 and 2030. More recent population projections, released in April 2009, indicate that Boyd County will continue to lose population for the foreseeable future. These recent population projections are summarized in **Figure 4-1**.

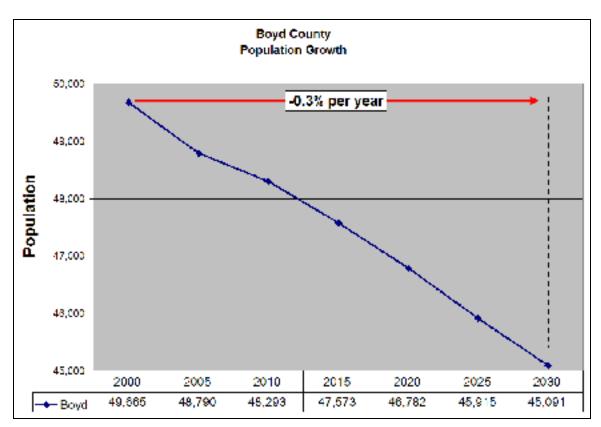


Figure 4-1: Boyd County Population Forecasts (Source: Kentucky State Data Center, April 2009)

The Kentucky State Data Center predicts that Boyd County will continue to lose population at an average rate of 0.3 percent per year. The estimated population in July 2008 was 48,560 and is expected to decrease to 45,091 by the year 2030.



# 4.2 Committed Projects

A number of transportation improvements are currently underway or are programmed for implementation in Boyd County within the coming years. These projects, most of which were listed in the KYTC FY 2006 – FY 2012 SYP, that are located within the study area are summarized in **Figure 4-2**.

Work on the I-64 interchange at KY 180 (KYTC Item #9-60.00 and #9-60.01) began in the summer of 2006 and was completed in 2008. This project included reconstructing the interchange and correcting sight distance issues on KY 180.

The KYTC initiated a congestion mitigation project in 2007 to construct turn lanes at various locations along US 60 north of KY 180 (KYTC Item #9-199.00). Crash data from this study were provided to KYTC to assist in determining priority locations for left-turn lane needs between KY 180 to KY 716.

Two intersection reconstruction projects are planned within the study area. The first project includes reconstructing the KY 766 intersection with Dawson Lane (KYTC Item #9-8302.00 and #9-8201.00). The second project includes adding left-turn lanes and a new traffic signal and realigning the US 60 intersection with Highland Avenue (KYTC Item #9-993.00).

One additional project has been introduced that was not listed in the FY 2006 – FY 2012 SYP. Originally listed on the Kentucky House version of the 2008 Highway Plan, the project includes widening US 60 to four travel lanes between the I-64 interchange near Coalton to the KY 180 intersection. The 2009 Highway Plan, enacted by the Kentucky Legislature in March 2009, includes funding for this project beginning with design in FY 2009.

The only remaining projects in the vicinity of the study area, not shown on **Figure 4-2**, include two pavement rehabilitation projects along I-64 from west of the US 60 interchange to the KY 180 interchange (KYTC Item #9-2019.00) and from the KY 180 interchange to the West Virginia state line (KYTC Item #9-1018.00). These projects will not add capacity to I-64 but will provide for resurfacing and corrections to adjacent fill slopes to remedy existing slide issues.

#### 4.3 Traffic Forecasts

The KYTC maintains a regional travel demand model, covering all of Boyd and Greenup County, developed using the TransCAD travel demand software. The model uses socioeconomic data, namely households and employment, to estimate current and future traffic volumes along all major roadways within the two-county area. The model was updated in 2007 and early 2008 by the KYTC Division of Planning with the assistance of a consultant, and has a base year of 2007 and forecast year of 2030. The updated travel demand model was made available for use in the study in late April 2008.



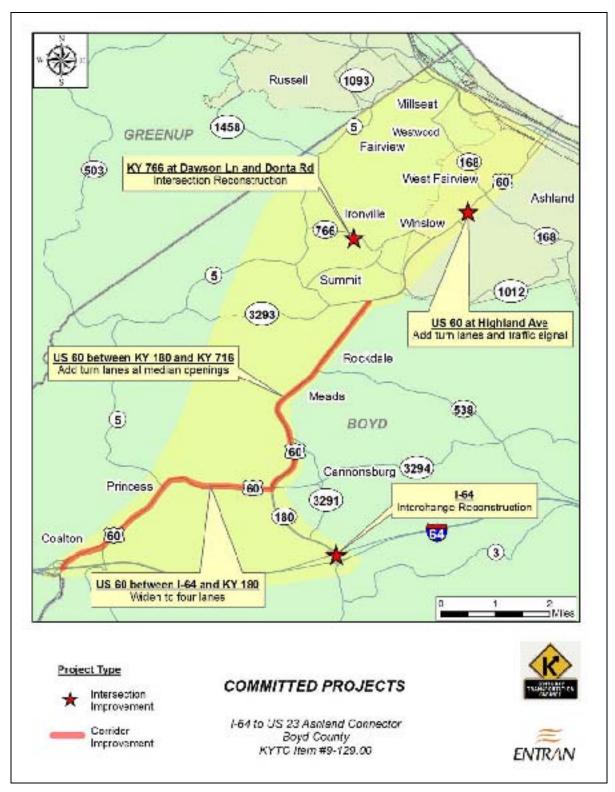


Figure 4-2: Programmed Transportation Improvements (Source: KYTC Six-Year Plan FY 2006- FY 2012 and 2009 Highway Plan)



The updated 2008 version of the model includes revised socioeconomic data forecasts. **Table 4-1** presents a comparison of the data contained in the 2002 version of the model and the 2008 (current) version. The previous version of the model indicated a 16.9 percent increase in population and 12.4 percent increase in employment between 2000 and 2025. These forecasts included negative population growth in and around Ashland and Catlettsburg, low growth near Russell, and significant growth in rural Greenup County and in Boyd County south of I-64. Employment growth in the 2002 version of the model was focused on the areas adjacent to the Industrial Parkway and north of I-64 in Greenup County (there was no growth elsewhere in the model area).

Table 4-1: Socioeconomic Data Comparisons between the 2002 and 2008 Ashland MPO Regional Travel Demand Models

Model	Year	Population	Employment		
	2005	86,643	35,954		
2002 Model	2025	101,289	40,396		
	Growth	16.9%	12.4%		
	2007	86,504	47,575		
2008 Model	2030	86,055	69,333		
	Growth	-0.5%	45.4%		

According to the model update report (available under separate cover from the KYTC Division of Planning), the Kentucky State Data Center was the source for countywide population forecasts and Woods & Poole Economics (<a href="http://www.woodsandpoole.com">http://www.woodsandpoole.com</a>) was the source for countywide employment forecasts. KYTC and its consultant estimated the distribution of population and employment within each individual traffic analysis zone (TAZ). A TAZ is a geographic area within a demand model that is based on U.S. Census blocks and is used to allocate socioeconomic data (namely households and employment) throughout a model area. The distribution of these socioeconomic data was discussed and refined with the assistance of local officials and stakeholders, including staff from the Ashland MPO, Boyd County, Greenup County, and KYTC.

**Figure 4-3** presents a summary of the estimated population growth in the current version of the regional travel demand model, disaggregated by TAZ. The updated 2008 version of the model predicts a 0.5 percent decline in population between the 2007 base year and 2030.

The TAZ's shaded in dark gray in **Figure 4-3** depict areas where population is expected to decrease between 2007 and 2030. Negative growth is anticipated all along the US 23 corridor, in and around Ashland and Catlettsburg in Boyd County and near Russell in Greenup County. Moderate growth, shaded in pink, is anticipated in the middle portion of the study area and to the west and south. Significant population growth, in red and dark red, is expected near the south end of the Industrial Parkway (KY 67) in Greenup County and in Boyd County south of I-64.



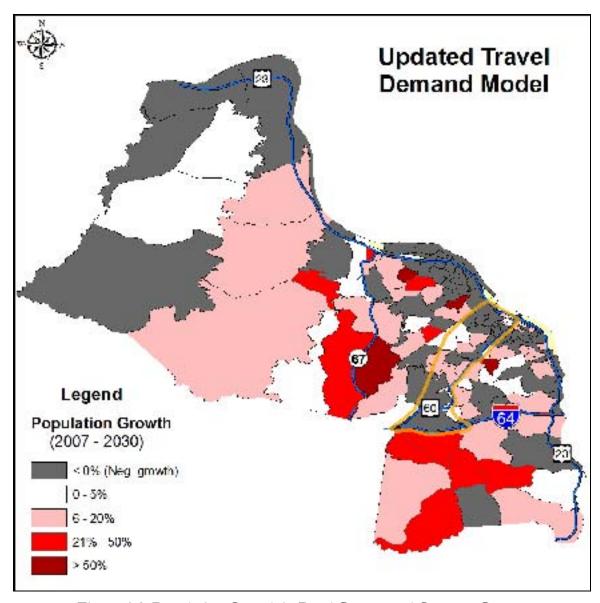


Figure 4-3: Population Growth in Boyd County and Greenup County (Source: Ashland MPO Regional Travel Demand Model, 2008)

Employment growth, shown in **Figure 4-4**, is higher in the current version of the model, with an increase of 45.4 percent anticipated by 2030. Base year 2007 employment is also significantly higher in the updated 2008 model than in the previous 2002 version. Negative employment growth is anticipated southwest of Ashland and near Catlettsburg, but significant growth is anticipated elsewhere in the study area, near the south end of the Industrial Parkway, and near Russell.



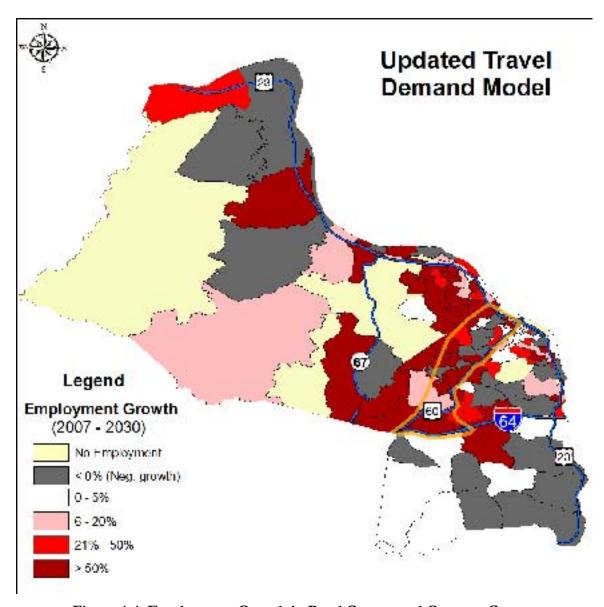


Figure 4-4: Employment Growth in Boyd County and Greenup County (Source: Ashland MPO Regional Travel Demand Model, 2008)

The KYTC Division of Planning provided all model files for the updated travel demand model in April 2008. The model was used to develop a 2030 No-Build daily traffic assignment, depicted in **Figure 4-5**. The average daily traffic volumes shown represent typical weekday traffic volumes expected in 2030. Volume to Capacity (V/C) ratios were calculated to determine where congestion would likely be an issue in the future, assuming no improvements are implemented prior to 2030. A V/C ratio of 1.0 indicates a roadway segment will operate at its intended capacity. V/C ratios exceeding 1.0 indicate a roadway will carry more traffic than it was intended to, resulting in congestion during some periods of the day.



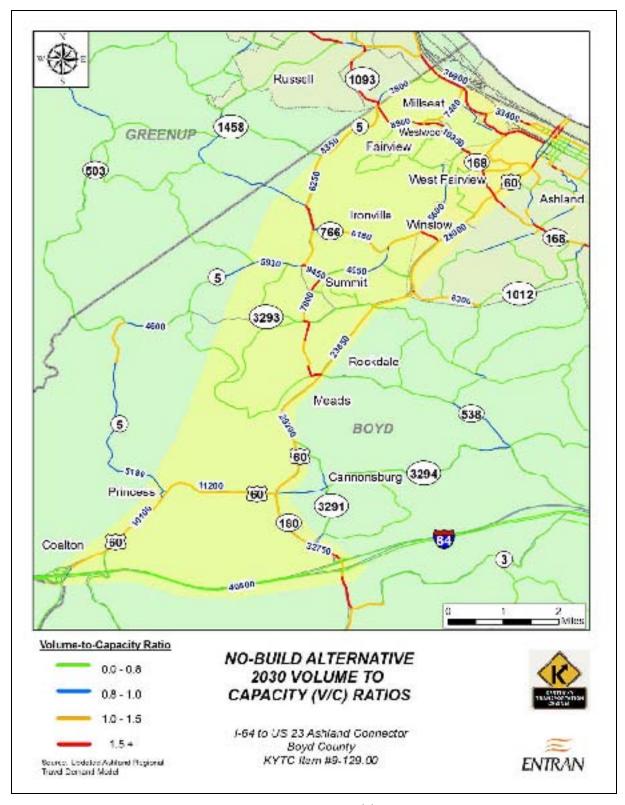


Figure 4-5: 2030 No-Build 2030 Traffic Forecasts



In general, the 2030 traffic volumes forecast by the updated travel demand model tend to be similar to or in some cases lower than existing traffic volumes within much of the study area. This is consistent with what would be expected with decreasing populations in Boyd County and limited areas of employment growth. However, the model predicts significant growth along I-64, KY 180, KY 5, and portions of US 60 south of Ashland, as shown in **Figure 4-6**.

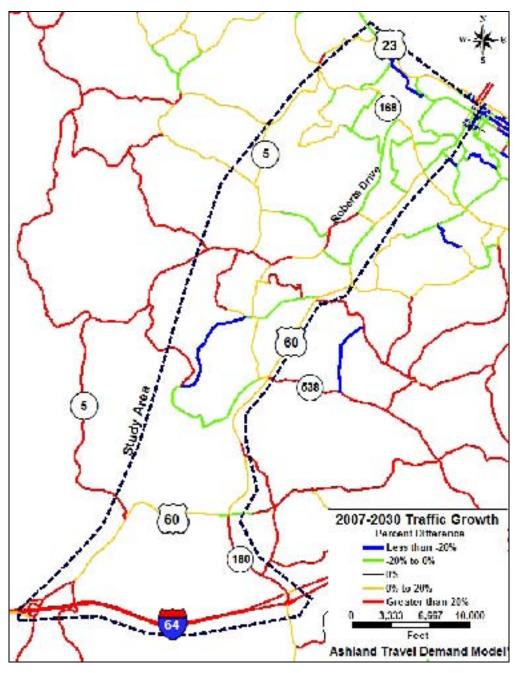


Figure 4-6: Percent Increase between 2007 and 2030 Traffic Assignments



Traffic along US 23 within the study area is not expected to increase significantly but much of this section is already at or near capacity. I-64 between the US 60 and KY 180 interchanges is expected to grow by nearly 126 percent between 2007 and 2030, and KY 180 north of US 23 is expected to increase by 146 percent. North of the KY 180 intersection, traffic volumes on US 60 are expected to increase by approximately 18 percent. All of US 23, US 60, and KY 180 are anticipated to experience V/C ratios greater than 1.0, indicating they will be congested during some portions of the day.

The regional travel demand model was also used to estimate future travel patterns and to evaluate potential improvement alternatives. (More discussion on the evaluation of alternatives is found in **Chapter 5**.) **Figure 4-7** presents a summary of the origins for daily trips traveling along US 23 in the vicinity of Town Mall, west of downtown Ashland. These results were developed by performing a "select-link" analysis using the TransCAD software. The select-link analysis provides information on the sources of every trip that uses any given link in the model network. Based on output from the regional travel demand model, the vast majority of the trips along this section of US 23 begin in Ohio and cross one of the Ohio River bridges from Ironton or Coal Grove. Unfortunately, no travel alternatives exist for these trips other than US 23.

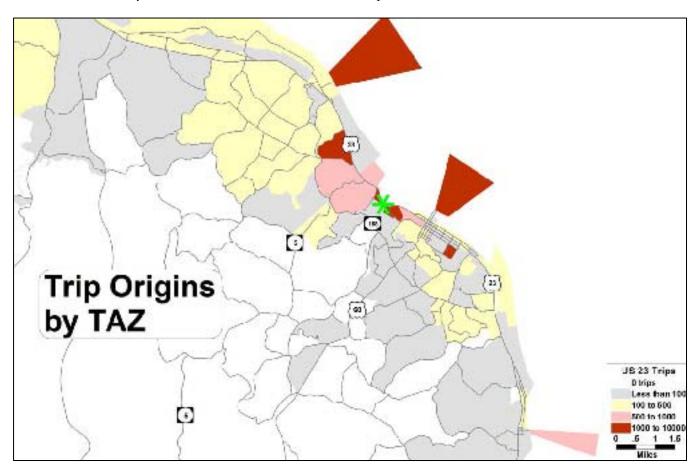


Figure 4-7: 2030 Travel Patterns for Trips Destined for US 23 west of Downtown Ashland



**Figure 4-8** presents similar findings for trips that travel along US 60 just north of the KY 168 intersection and south of downtown Ashland. This location was selected as it is near the north end of the narrow four-lane section, a segment recommended for improvement by the ACAT. The majority of trips that travel this section each day begin across the Ohio River from downtown Ashland or west of the network model area on I-64. This suggests that a new corridor could possibly divert some trips from this section of I-64, provide that such a corridor could provide similar or improved travel opportunities.

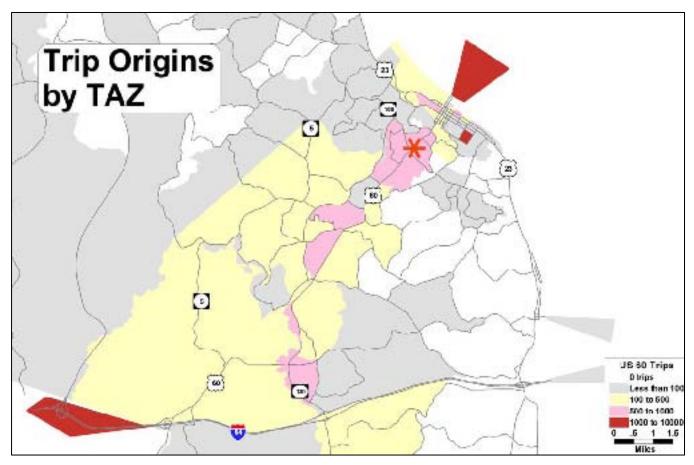


Figure 4-8: 2030 Travel Patterns for Trips Destined for US 60 south of Downtown Ashland



## 5.0 DEVELOPMENT OF ALTERNATIVES

A number of transportation alternatives were developed and evaluated in the I-64 to US 23 Ashland Connector Study. This includes both short-term projects that could potentially be implemented in the near term with minimal cost and long-range corridor alternatives that would require significant resources to implement. This chapter discusses how improvement concepts were conceived and then developed into feasible roadway improvement projects.

# 5.1 Stakeholder Input

One of the primary goals of the public involvement component of the study was to solicit input on the location of existing transportation deficiencies and needed improvements. To that end, the first meeting with local officials was used as an opportunity to ask focused questions concerning locations that could be considered "trouble spots" and areas where new or significantly improved routes are warranted. **Figure 5-1** presents the results from the identification of trouble spots.

Three locations were mentioned as being an issue along US 60. The segment with the traversable median, north of Armco Park and south of Rose Hill Cemetery, was discussed because of significant turning traffic and the presence of signage in the median. The median, while traversable, causes confusion among some drivers who decelerate rapidly to enter the median or even attempt to turn left out of the left travel lane. Two intersections along US 60 were discussed as needing significant improvement, including the KY 168 (Blackburn Avenue) and KY 180 intersections.

Along US 23, three problem spots were mentioned. The first was the area around Town Center Mall. Left turns were prohibited from westbound US 23 some time ago in an effort to improve traffic flow in the area, but the circuitous travel required to access the mall is confusing for those unfamiliar with the area. At the onset of the study, it was noted that the existing signage indicating no left turns are allowed and how to access the mall by turning right was too small to be legible from a distance. The KYTC replaced the signs during the study with larger, more legible versions. The second location was west of the new Wal-Mart on River Hill Drive. This section lies in a long curve and is on a grade approaching the KY 168 intersection. The final location was outside the study area, near the 47<sup>th</sup> Street Park.

The final problem spot mentioned at the first meeting with local officials was the area near the KY 168 intersection with Roberts Drive. The CSX rail line runs parallel to Roberts Drive and crosses KY 168 at-grade just west of the Roberts Drive intersection. The grade crossing is at a much higher elevation than the KY 168 approaches and Roberts Drive, which restricts sight distance.

The ACAT was asked to complete a similar exercise early in the study, the results of which are shown in **Figure 5-2**. Two segments of US 60 were discussed, including the segment between Rose Hill and Ashland Community College and near the KY 5 intersection and Paul Coffey Boulevard. The northern segment through Ashland is a narrow, four-lane section with no shoulders. Some of the issues discussed along this portion of US 60 included a lack of turn lanes, high travel speeds, significant truck volumes, and minimal utility pole setbacks. Issues with the segment near KY 5 and Paul Coffey Boulevard involved the need for turn lanes at Paul Coffey Boulevard to accommodate trucks.



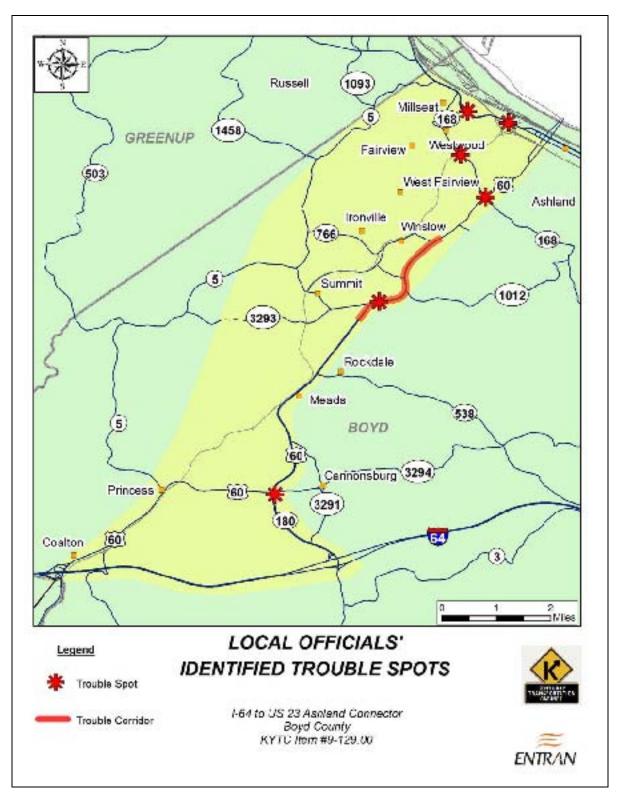


Figure 5-1: Trouble Spots Identified by Ashland Local Officials



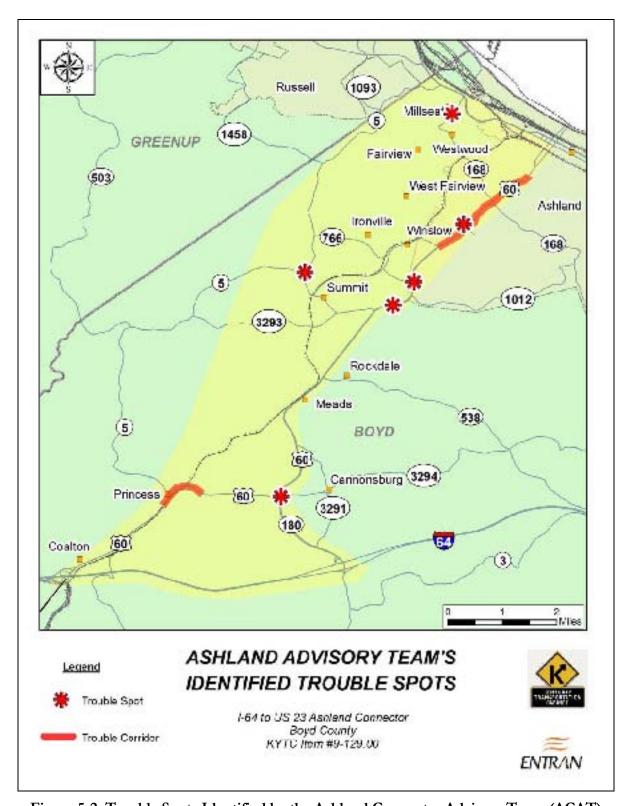


Figure 5-2: Trouble Spots Identified by the Ashland Connector Advisory Team (ACAT)



Several trouble spots were identified by the ACAT, including the US 60 intersections with KY 180, KY 716 (Summit Road), Highland Avenue, and KY 168. Other locations mentioned included the KY 5 intersection with KY 716 and KY 168 near Millseat, south of US 23.

At those early meetings, the local officials and ACAT were also asked to identify potential new routes for consideration in the study. The local officials' suggestions are shown on **Figure 5-3**. Two new routes were recommended. The first begins on US 60 near the community of Princess and near the intersection with KY 5. The route runs northeast and connects to KY 168, tying into US 23 at or near the existing US 23/KY 168 intersection. The second route begins on US 60 north of Armco Park and south of Rose Hill Cemetery and runs northeast, roughly paralleling the existing CSX rail line and Roberts Drive, connecting to US 23 near Town Center Mall. The local officials also suggested intersection improvements at the US 60 intersections with KY 180, KY 716, and KY 168.

At the first ACAT meeting, the attendees worked in groups to identify a number of potential new or improved routes and spot improvements, shown on **Figure 5-4**. A recommendation was made to consider widening US 60 between the I-64 Coalton interchange and KY 180, perhaps adding a center turn lane to create a three-lane section. A similar improvement was also recommended for the section between Rose Hill Cemetery and the Ashland Community College, restriping the exiting narrow four-lane section as a three-lane section with a continuous center left-turn lane. Improvements to the entire KY 168 corridor were suggested. Two new routes were discussed, including a connection from US 60 to Industrial Parkway (outside the study area) and a new route connecting US 60 north of Armco Park to US 23 near the KY 5 intersection. Intersection improvements were recommended at the US 60 intersections at KY 180, KY 716, and US 23.

At the conclusion of the first ACAT meeting, the attendees were asked to put additional thought into needed improvements or potential new routes for discussion at the next meeting. At the second meeting, attendees again worked in groups to refine those concepts and to develop a brief list of projects for further consideration. The results of these discussions are shown on **Figure 5-5**. The ACAT's recommendations included improvements to US 60 between I-64 and KY 180. Three new routes (or route combinations) were recommended for further consideration. Two options that used much of the existing KY 5 corridor were suggested, including one using the KY 716 corridor and another using the KY 766 corridor to connect to an improved KY 5. An additional recommended route connects to US 60 north of Armco Park, roughly paralleling the existing CSX rail line and Roberts Drive, connecting to US 23 near Town Center Mall. This corridor could also connect to US 23 west of River Hill Drive and the Wal-Mart development or use the KY 168 corridor to connect to US 23.

The ACAT's recommended corridors were presented to the public at the first public meeting on April 20, 2008. The purpose of this meeting was to provide information concerning the existing conditions within the study area, discuss study activities to date, and to provide an opportunity for the public to voice their concerns and suggest additional locations for which they felt improvements are needed. **Figure 5-6** presents the public's input. The public recommended two new routes not previously discussed, including an improved connection from US 60 near Princess and KY 5 to US 60 north of the Kyova Mall and a new route from US 60 north of the Kyova Mall to US 23 near the KY 5 intersection.



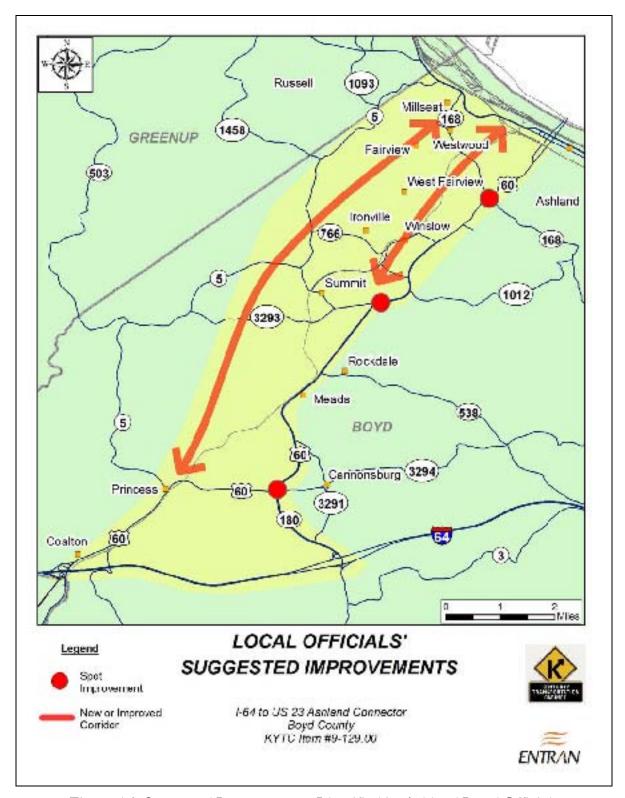


Figure 5-3: Suggested Improvements Identified by Ashland Local Officials



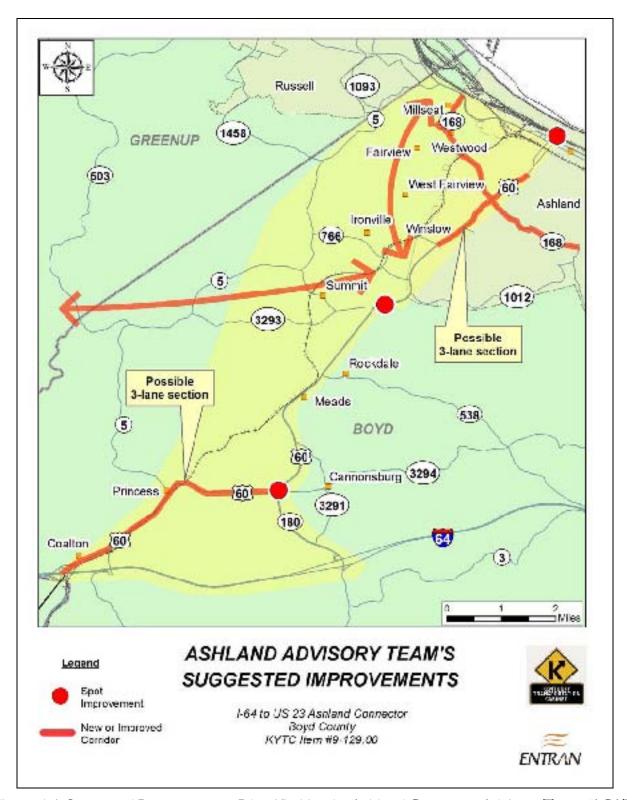


Figure 5-4: Suggested Improvements Identified by the Ashland Connector Advisory Team (ACAT)



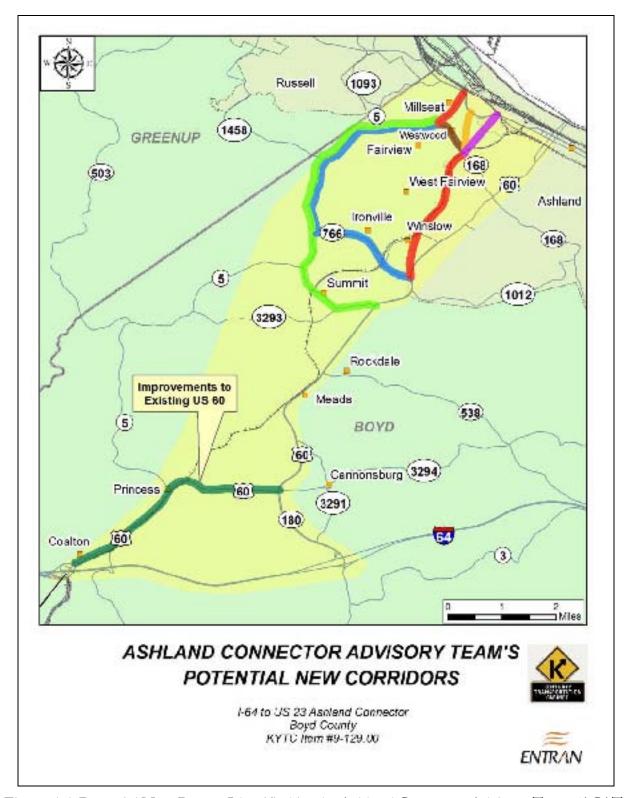


Figure 5-5: Potential New Routes Identified by the Ashland Connector Advisory Team (ACAT)



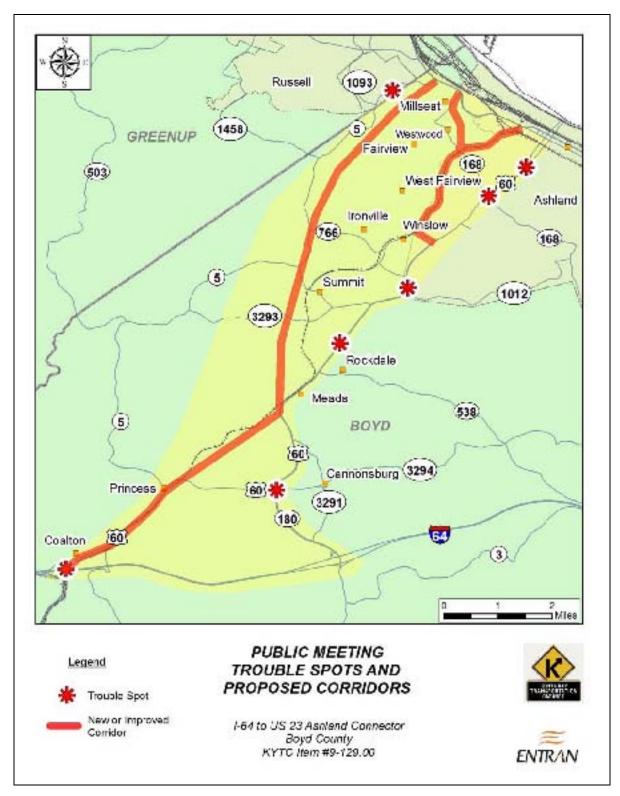


Figure 5-6: Trouble Spots and Potential New Routes Identified at the First Public Meeting



# 5.2 Short-Term Improvement Alternatives

A number of short-term improvements (also referred to as "spot improvements") were developed based on stakeholder input, investigation of crash data, and site reconnaissance. These projects, most of which were developed to improve traffic safety, are shown on **Figure 5-7**. Descriptions of each of these projects follow.

### Intersection Reconstruction

<u>US 60 at KY 180</u>: This intersection lies in a curve along KY 180 and US 60, and the alignment currently has significant superelevation (i.e. banking of the roadway) of approximately 9 percent to accommodate the travel speeds. The improvement is to reconstruct the north-south approaches of KY 180 and US 60 to decrease the amount of necessary superelevation.

KY 168 at Roberts Drive: There is an at-grade crossing of the CSX rail line on KY 168 immediately west of the Roberts Drive intersection. This grade crossing is at a much higher elevation than the street approaches, resulting in poor sight distance. Fifty-six (56) crashes were reported between 2002 and 2006 along KY 168 in this area. Over 41 percent were rear end crashes and approximately 23 percent resulted in one or more injuries. The improvement is to raise the grades on KY 168 and Roberts Drive to better match the elevation of the grade crossing.

<u>US 60 at KY 168 (Blackburn Avenue)</u>: The US 60 approaches to this five-legged intersection are skewed as buildings are located adjacent to the right-of-way at the southwest and northeast corners. The building located in the southwest corner is eligible for inclusion on the National Register of Historic Properties. The improvement is to realign the US 60 approaches by moving the US 60 alignment slightly to the east, resulting in the removal of the building (or portions of the building) on the northeast corner. It was suggested that closing the Algonquin Avenue approach, which forms the fifth leg of the intersection to the southwest, be given consideration.

#### Median Reconstruction

<u>US 60 between KY 716 (Summit Road)</u> and <u>KY 1012 (Boy Scout Road)</u>: This section of US 60 has a raised, traversable median and is fronted by various commercial developments. The "roll" curb forming the raised median causes some drivers to slow significantly before mounting the median. Approximately 25 percent of the crashes that occurred over the five years between 2002 and 2006 were angle crashes (involving one or more turning vehicles) and another 40 percent were rear end crashes. The improvement is to replace the traversable median with a non-traversable median with selective median openings and turn lanes.

## Addition of Turn Lane(s)

<u>US 60 at Paul Coffey Boulevard:</u> There were 13 reported crashes at the US 60 intersection with Paul Coffey Boulevard between 2002 and 2006, and seven (54 percent) of those were rear-end crashes. Significant truck traffic utilizes this intersection to access the industrial park. The improvement is to add a northbound left-turn lane and a southbound right-turn lane to better accommodate truck traffic.

<u>US 60 at KY 716 (Summitt Road):</u> There were 25 reported crashes on the southbound approach to the US 60 intersection with KY 716 between 2002 and 2006, and 19 (76 percent) of those were rear-end crashes. Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a southbound right-turn lane.



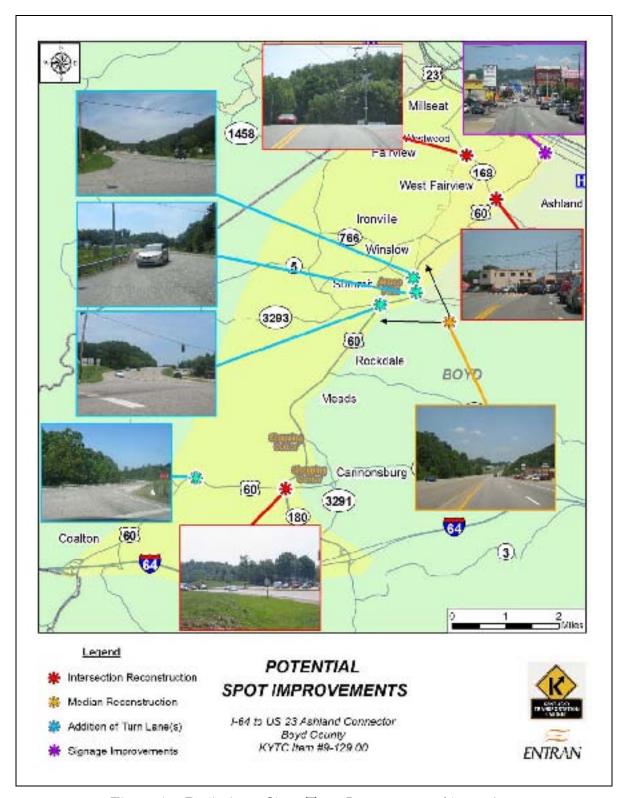


Figure 5-7: Preliminary Short-Term Improvement Alternatives



<u>US 60 at KY 1012 (Boy Scout Road)</u>: There were 14 reported crashes on the northbound approach to the US 60 intersection with KY 1012 between 2002 and 2006, and eight (57 percent) of those were rear-end crashes. Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a northbound right-turn lane.

<u>US 60 at KY 766 (Bob McCullough Drive)</u>: There were 27 reported crashes on the southbound approach to the US 60 intersection with KY 766 between 2002 and 2006, and 14 (52 percent) of those were rear-end or same-direction sideswipe crashes. Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a southbound right-turn lane.

## Signage Improvement

<u>US 60 (13th Street)</u> approaching downtown Ashland: As drivers are approaching the 13th Street intersection with US 23, there is no signage to indicate which lanes lead to the bridge to Coal Grove, OH. However, opportunities for improved signage are limited. The improvement is to provide overhead signage directing bridge traffic to use the middle lanes and traffic destined for northbound US 23 (Winchester Avenue) to use the left lane. Consideration was also given to restriping the northbound US 60 (13<sup>th</sup> Street) approach to US 23 in order to provide a left-turn only and shared through and left-turn lane for traffic turning left onto northbound Winchester Avenue.

A summary of the Short-Term Improvement Alternatives is provided in **Table 5-1**.

Table 5-1: Summary of the Short-Term Improvement Alternatives

Roadway / Intersection	Improvement Type	Description	Estimated Cost
US 60 명 KY 190	Intersection Reconstruction	Reconstruct grade on appreaches	\$1,000,000
DS 80 技 KY 188 (Blackburn Ave.)	Intersection Reconstruction	Realign curved approach log(s)	\$750,000
Roberts Drive (d) KY 168 (Blackburn Ave.)	Intersection Reconstruction	Improve st-grade retiroad crossing on KY 168 wast of Roberts Drive	\$250,000 <b>-</b> \$500,000
US 60 from south of KY 716 to KY 1012 (Boy Scout Rd.)	Median Reconstruction	Construct roll-traversable median w/ selective median openings	\$325,000
US 60 @ Paul Coffey Dhd.	Addition of turn lane	Add NB left turn lane and SB right. Jurn lane	\$275,000
US NO 法 KY /16	Addition of furnitane	Add SB right lum lane	\$125,000
US 60 (#, KY 1012 (Hoy Scout Ed.)	Addition of turn lane	Add NB right turn lane	\$125,000
US 60 10 KY 756	Addition of turn lane	Add 5B right turn lane	5125,000
US 60	Signago Improvement	Provide additional/improved signage for NB US 60 approaching bridge	\$200,000



# 5.3 Long-Range Corridor Alternatives

The long-range corridor alternatives for the I-64 to US 23 Ashland Connector Study were developed based on stakeholder outreach and a comprehensive investigation of existing conditions. These alternatives, shown on **Figure 5-8**, involve both improvements to existing sections of the transportation corridor between I-64 and the city of Ashland as well as new routes. For the purpose of discussion and comparison, the alternatives will be split into two different groups: the South Alternatives (Alternative 1 and 4) located on the I-64 end of the project, and the North Alternatives (Alternatives 2, 3 and 5) located on the US 23 end near Ashland. (These two groups correspond to the two large exhibits shown at the second public meeting held on November 18, 2008.) Specific alignments have not yet been developed, but planning level alignments have been estimated in order to examine the feasibility for constructing a roadway within each corridor and to estimate costs, likely impacts, and potential relocations. For purposes of this study, a four-lane divided typical section was assumed for all projects, with the exception of Alternative 5.

#### South Alternatives

The alternatives at the southern end of the project corridor seek to improve the existing two-lane US 60 between the I-64 Coalton interchange and the four-lane section of US 60. This two-lane road is the preferred route for vehicles traveling between Ashland and I-64 to and from the west. Input from the first public meeting suggests many drivers choose to travel this unimproved section of US 60 to get to I-64, instead of using KY 180, because the US 60 route decreases travel distance by about 2 miles (3.8 miles versus 5.8 miles).

Alternative 1, referred to as the "Princess Connector", was proposed by the public as an improved connection between I-64 and US 60 through the Paul Coffey Industrial Park. As shown on **Figure 5-9**, two potential corridors were developed, and both alternatives begin at an existing sharp curve just south of the Paul Coffey Industrial Park and take off on a new route from that point. Both alternatives end at a tangent on the multilane section of US 60, approximately half a mile to the north of the Kyova Mall.

Alternative 1A runs parallel and to the northwest of the existing CSX railroad line along the first half of its alignment. After crossing the East Fork of the Little Sandy River, it then travels over an existing golf course while running parallel to the Meade/Springer Road. Finally, the alignment bridges over the CSX railroad line before tying into US 60. The first half of the alignment involves some impacts to the Paul Coffey Industrial Park. An overpass bridge would be needed for Lynn Avenue to maintain the existing connection between the west and east sides of this industrial park. Impacts on this area would involve the relocation of one commercial building and significant impacts to three other parcels at the industrial park. Along the second half of the alignment, the proposed road encroaches into the floodplain for the East Fork of the Little Sandy River. The proposed road would have to keep well above the flood plain elevation for the river, which according to FEMA, ranges between 593 and 595 feet for this section of the river. Along this second half of the alignment, Alternative 1A stays clear of two potentially historic houses adjacent to the Meade/Springer Road, but it may impact several trees on the golf course that are considered "bat habitat". Finally, the alignment crosses over the CSX railroad with a twin-bridge structure before tying back into US 60. An estimated two commercial and one residential relocation would be required along the last section of this alternative immediately after bridging over the railroad. The estimated construction cost for this alternative is \$24 million.



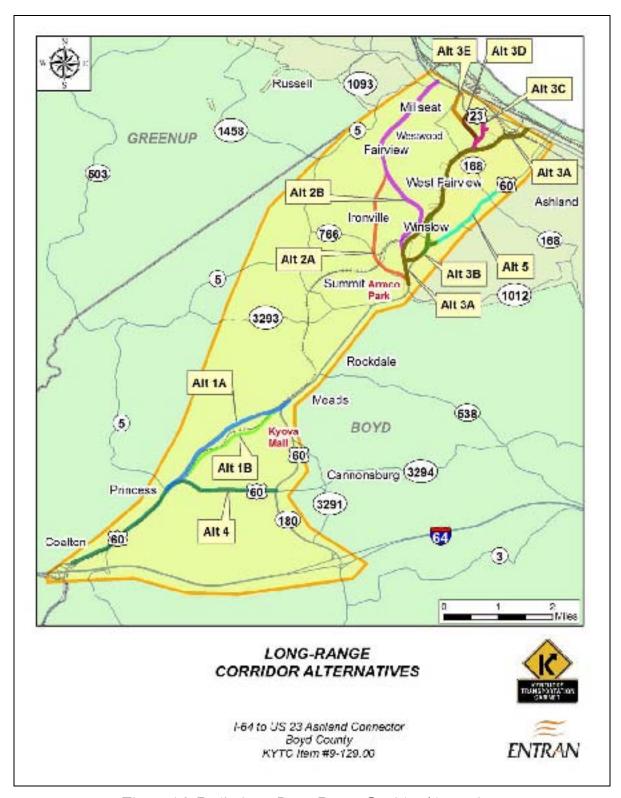


Figure 5-8: Preliminary Long-Range Corridor Alternatives





Figure 5-9: Alternative 1



Alternative 1B begins at the same point as 1A but it soon crosses over the CSX railroad line in the vicinity of Lynn Avenue. After the crossing, it runs parallel and to the southeast of the CSX line for the remainder of the alignment. The crossing over the railroad will need to be studied in much more detail in future phases of design to determine the best way to bridge over the CSX line. This crossing represents a challenge because there is an existing railroad tunnel at the point where Alternative 1B crosses over the railroad. If geotechnical studies determine that excavating material over this tunnel is not a viable option, the existing short tunnel would have to be removed entirely and a set of twin bridges would be needed for the proposed alignment to bridge over the railroad. It was assumed for purposes of this study that this last option would be the case and the existing tunnel would have to be removed and a set of twin bridges would be required to cross over the railroad. As is the case with Alternative 1A, an overpass bridge may also be needed for Lynn Avenue at this location to maintain the existing connection between the two sides of the industrial park. After the railroad line is crossed, Alternative 1B mimics the alignment of the railroad as closely as possible, following the contours along a hillside on the east section of the industrial park to minimize excavation and right of way impacts. This alternative also encroaches into the floodplain for the East Fork of the Little Sandy River, although not as much as Alternative 1A. The profile for this alternative would also need to be well above the floodplain as well. Finally, the alignment ties back into US 60 at the same point as Alternative 1A. However, its right of way impacts along the last section of this alignment would be higher than those of Alternative 1A, requiring an estimated four commercial and one residential relocation along this last section. The estimated construction cost for this alternative is \$25.6 million.

The two Alternative 1 corridors studied have many similarities and further studies would be needed to be able to make a clear choice between the two. Factors unknown at this time would need to be explored in more detail, such as the feasibility of a cut over the railroad tunnel on Alternative 1B or the exact amount of environmental impacts likely to occur with the construction of Alternative 1A. From the presentaly available information, Alternative 1A seems to be preferable over Alternative 1B. It yields a lower construction cost and involves less relocations. It also offers a much straighter alignment without the multiple reverse curves used for Alternative 1B, this last one being much more controlled by the twists and turns of the existing railroad alignment.

Alternative 4, shown on **Figure 5-10**, involves the widening of the existing two-lane portion of US 60, from the I-64 Coalton interchange to the intersection with KY 180 at Cannonsburg. The alignment for Alternative 4 would follow the existing road closely. The existing alignment appears to comply with 55 mph standards for its entire length, even at the sharpest curve on the road located along the south boundary of the Paul Coffey Industrial Park. All widening would have to be done to the northwest of the existing road for about the first half of this alignment to avoid impacts to the existing CSX railroad line running parallel to US 60 along this section. The existing bridge over the CSX line may remain in place if it is found to be structurally and functionally sound. In that case, only a parallel bridge would be needed to accommodate the additional lanes. For this study, it was assumed that the bridge would need to be replaced with a set of twin bridges for the widened road. The existing bridge over East Fork of the Little Sandy River, considered a potentially historic bridge, would have to be replaced with a set of twin structures. Alternative 4 would result in an estimated three commercial and 10 residential relocations. The estimated construction cost for this alternative is \$15.7 million.





Figure 5-10: Alternative 4



#### **North Alternatives**

The alternatives at the northern end of the project corridor provide new connecting routes between US 60 south of Ashland and US 23 west of downtown. The intent of these alternatives is to alleviate congestion along the existing US 60 by diverting a significant amount of traffic to a new connector road (Alternatives 2 and 3). In turn, the reduction of traffic along the existing US 60 may create an opportunity to restripe US 60 from the existing four-lane section to a 3-lane urban typical (Alternative 5).

Alternative 2, referred to as the Bellefonte Connector, begins on US 60 near its intersection with KY 766, located at the north boundary of ARMCO Park, and end at the intersection of US 23 with KY 5. As shown on **Figure 5-11**, two alternatives were developed to study an entirely new corridor for the new connector road that did not use any existing routes. The alignments for these alternatives generally wrap around various hillsides following the outer boundaries of established Ashland neighborhoods (West Fairview, Fairview and Westwood). The main goals behind the planning-level alignments that were developed were to minimize earthwork costs, reduce right of way impacts and avoid splitting existing neighborhoods.

Alternative 2A follows the existing KY 766 for about half a mile, veering off to the north after crossing the CSX railroad line and a blue line stream. A set of twin bridges would be used to cross over both the railroad and the stream. On the west side of the railroad the alignment wraps around a hillside, it then cuts through a second hill and, afterwards, runs roughly parallel and to the west of Hood Creek all the way to the KY 5 intersection. This alternative involves an estimated two commercial and 91 residential relocations. The estimated construction cost for this alternative is \$48 million.

Alternative 2B starts at the KY 766 intersection and then follows to the north cutting through a hill, generating a very large amount of excavation on this first cut (up to three million cubic yards). After the cut, the alignment crosses over the CSX railroad line and the blue line stream with a set of twin bridges. On the other side of the crossing, the alternative wraps around a hillside and joins the Alternative 2A alignment near Hood Creek, sharing a common alignment all the way to the end at US 23. This alternative involves an estimated one commercial and 111 residential relocations. The estimated construction cost for this alternative is \$60 million.

Alternative 2A offers a number of advantages compared to Alternative 2B. It would cost about 20 percent less than Alternative 2B, mainly due to the large cut at the beginning of Alternative 2B. It also potentially follows a better, less curvy alignment than that for Alternative 2B. Finally, it would involve fewer right of way relocations. Its main disadvantage would be the potential impacts it could cause to a historical structure and a vocational school located on opposite sides of KY 766 near US 60. Both these buildings would be spared with Alternative 2A, but the encroachment into these two properties and their future access to the higher new connector road may be problematic. Further studies with more detailed mapping would be needed to determine the extent of these issues.

Alternative 3, referred to as the Westwood Connector, consists of a large number of possible corridors. As shown on **Figure 5-12**, this set of alternatives follows Roberts Drive for a significant portion of their alignments. The differences between the alternatives have to do with their termini. Essentially, they comprise a single corridor alternative along the existing Roberts Drive, with two possible beginning points and four possible ending points.



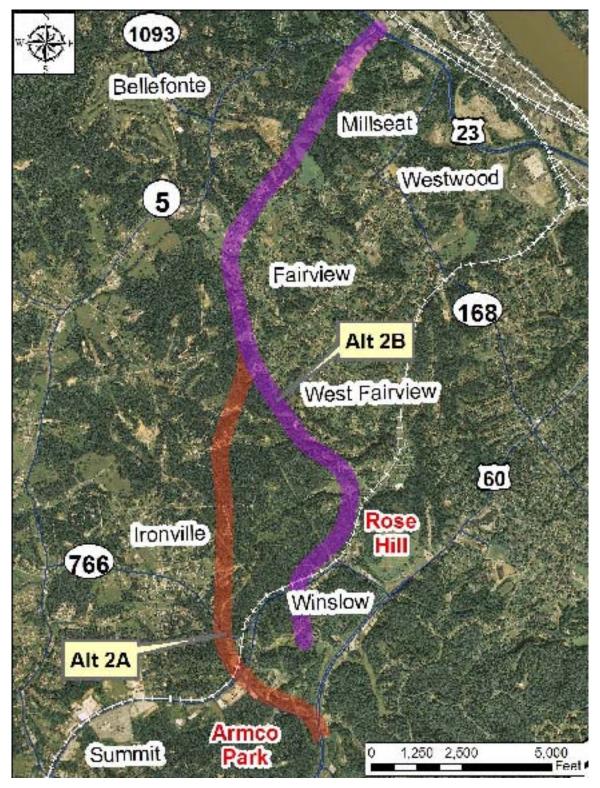


Figure 5-11: Alternative 2



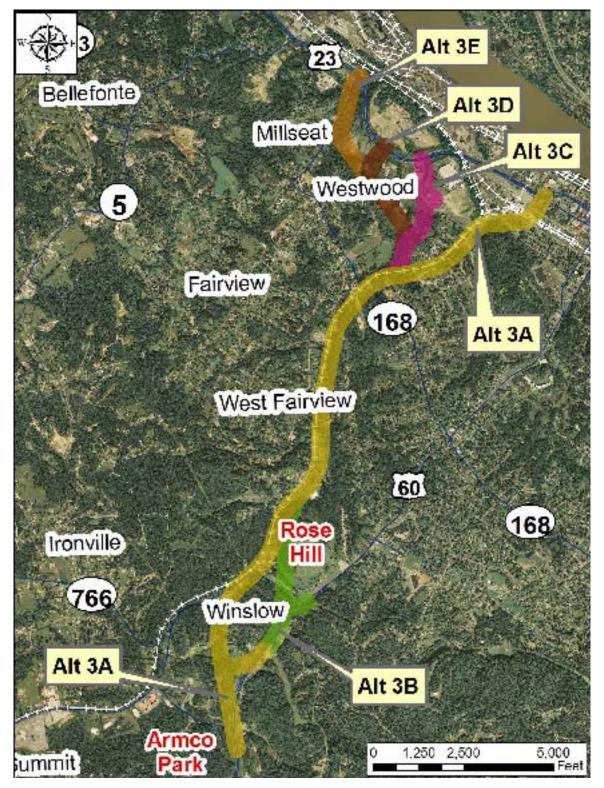


Figure 5-12: Alternative 3



There is a limited number of suitable areas where an alignment can be fit that connects the existing US 60 with Roberts Drive without introducing significant environmental or right of way impacts. The following two alignments have been investigated in this area:

- 1. Alternative 3A avoids significant environmental and right of way impacts at the cost of requiring a significant amount of excavation. It shares its beginning point and its first half mile with the alignment for Alternative 2B, described a few paragraphs above. As was the case with Alternative 2B, Alternative 3A begins at the KY 766 intersection and then heads north, cutting through a hill and generating a very large amount of excavation with this cut (up to three million cubic yards). By making this cut, the alignment completely avoids impacts to Armco Park and the Rose Hill cemetery. However, this alignment causes major impacts to the Rose Hill School located on Roberts Drive.
- 2. Alternative 3B has a different beginning point with the intent of avoiding the large cut at the beginning of Alternative 3A. It starts on US 60 just to the south of the Rose Hill Cemetery and immediately crosses to the west side of the cemetery before heading north. The initial intent was to squeeze this alignment between the Rose Hill cemetery and the Rose Hill school and avoid impacts to both. As it turns out, due to the limited space available, those impacts would be unavoidable. The final alignment for Alternative 3B through this area, if pursued, would have to be moved further to the west over the Rose Hill School, taking the whole school parcel to avoid encroaching into the larger cemetery parcel. Again, more accurate mapping will be needed to determine how far west the alignment would need to be moved.

The middle section is common among all the Alternative 3 alignments, running parallel and to the east of the existing CSX railroad line, following along Roberts Drive until its intersection with KY 168 (Blackburn Avenue). This middle section of the corridor involves the acquisition of many residential and commercial buildings that sit close to Roberts Drive along the east side of the road. Additionally, the final right of way impact could be more significant than current estimates due to the partial control access nature of the proposed connector. The provision of frontage roads to maintain the conventional 1,200-foot access spacing would likely require the relocation of additional buildings along this area.

North of the KY 168 intersection, the Alternative 3 alignment continues on a course parallel to the CSX railroad line until it splits into four different optional directions:

- 1. Alternative 3A continues further parallel to the railroad line until, near the end, it breaks east steering around the Ashland Town Center shopping mall. Alternative 3A ends at the intersection of US 23 with Greenup Avenue.
- 2. Alternative 3C bridges over the CSX railroad line just north of the KY 168 intersection. It then wraps around two hillsides in an attempt to avoid impacts to existing residences. Finally, it ties to River Hill Drive joining this road until its intersection with US 23. This road was recently relocated during the construction of the Wal-Mart development.
- 3. Alternative 3D breaks from Alternative 3A at the same location as Alternative 3C. It bridges over both the railroad and a blue line stream, continuing west through an existing baseball field complex. Finally, it curves to the north to intersect US 23.



4. Alternative 3E follows the same alignment as Alternative 3D for the first 0.6 miles. It then continues west and ends at the intersection of KY 168 (Hoods Creek Pike) with US 23. This switch to the west results in three additional crossings over the mentioned blue line stream, which would require two additional sets of twin bridges as compared to Alt 3D.

Alternative 5, shown on **Figure 5-13**, involves overlaying and restriping US 60 (13th Street) between Rose Hill and downtown Ashland to three lanes (two travel lanes plus a center left-turn lane). This alternative must be combined with Alternative 2 or Alternative 3 because both of those alternatives can potentially divert future traffic from this section of US 60, reducing the traffic volume enough for three lanes to accommodate the demand. The estimated construction cost for this alternative is \$1.1 million and it would not require any additional right of way.

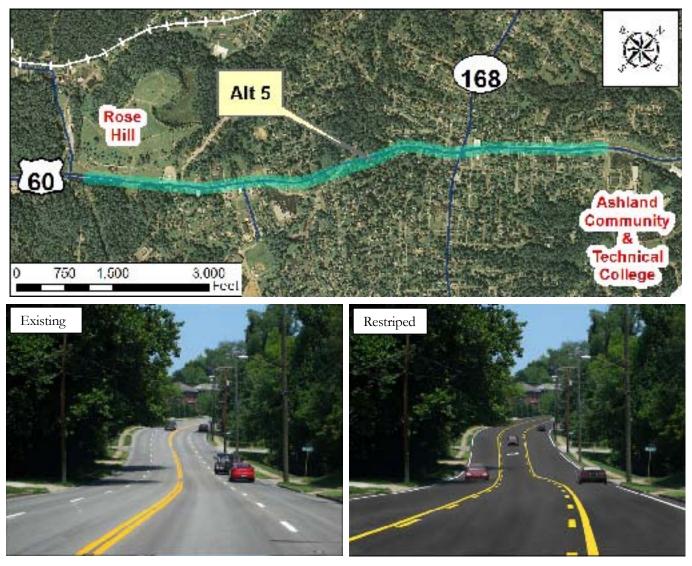


Figure 5-13: Alternative 5



**Table 5-2** presents a summary of all the alternatives as well as combinations of alternatives in the case of Alternative 3.

Table 5-2: Summary of the Long-Range Corridor Alternatives

			POTENTIAL RELOCATIONS REQUIRED						
Alternative	Length (Miles)	Construction Cost	Commercial	Residential - Single Family	Residential - Multi-family	School Buildings			
Alt # 1A	2.50	\$ 23,960,000	3	2	0	0			
Alt#1B	2.49	\$ 25,570,000	7	4	0	0			
Alt # 2A	4.23	\$ 48,360,000	2	91	0	0			
Alt # 2B	4.25	\$ 60,300,000	1	111	0	0			
		A 07 700 000	_			_			
Alt # 3A	3.73	\$ 37,790,000	8	65	17	1			
Alt#3B	3.15	\$ 24,560,000	8	62	17	1			
Alt # 3A-3C	3.44	\$ 35,820,000	5	61	5	1			
Alt # 3A-3D	3.55	\$ 37,900,000	8	69	5	1			
Alt # 3A-3E	3.96	\$ 41,690,000	11	73	5	1			
Alt # 3B-3C	2.86	\$ 20,600,000	5	58	5	1			
Alt # 3B-3D	2.98	\$ 22,680,000	8	66	5	1			
Alt # 3B-3E	3.39	\$ 24,470,000	11	70	5	1			
Alt #4	3.80	\$ 15,700,000	3	10	0	0			
Alt #5		\$ 1,100,000	0	0	0	0			



# 6.0 EVALUATIONS OF THE LONG-RANGE CORRIDOR ALTERNATIVES

The I-64 to US 23 Ashland Connector Study resulted in a number of short-term and long-term alternatives to improve travel opportunities between I-64 and US 23 west of downtown Ashland. This chapter summarizes the evaluation methodology and results for evaluating the long-range corridor alternatives.

## 6.1 Traffic Forecasts

The regional travel demand model, discussed in detail in Chapter 4, was used to estimate the future demand for travel along each of the new routes proposed over the course of the study. A representative corridor was developed for each new route and was modeled as a four-lane roadway. The estimated future traffic volumes were then compared to the 2030 No-Build (No-Action) alternative to determine the impacts each alternative may have on future travel conditions throughout the study area, including the amount of traffic that may be diverted from existing roadways to the new routes.

The 2030 traffic forecasts and estimated volume to capacity (V/C) ratios for Alternative 1 are shown on **Figure 6-1**. Alternative 1, also referred to as the Princess Connector, would be expected to carry approximately 11,300 vehicles per day (VPD) in 2030. Much of US 60 north of the connector will be over capacity in this scenario, but US 60 between KY 180 and the connector will be at or below capacity.

**Figure 6-2** depicts the 2030 forecasts for Alternative 2, the Bellefonte Connector. The connector route is expected to serve 13,100 VPD on its north end near KY 5 and US 23 to 17,100 VPD at the south end near US 60.

The 2030 traffic forecasts for Alternative 3, the Westwood Connector, are shown on **Figure 6-3**. As modeled, this corridor would carry approximately 9,300 VPD at the south end near US 60 and 18,600 VPD approaching US 23.

The 2030 traffic forecasts for Alternative 4, which includes widening US 60 between I-64 and the KY 180 intersection to four lanes, is shown on **Figure 6-4**. A widened US 60 would be expected to serve 17,900 VPD north of the I-64 interchange and 19,000 VPD near KY 180.

**Table 6-1** presents a summary of the 2030 forecasts, by alternative, for the major roadways of interest in the study area, including I-64, KY 180, US 60, KY 5, KY 168, and US 23. These forecasts are compared to the 2030 No-Build traffic volumes in an effort to estimate how much traffic may divert to the new connector routes from existing facilities. With respect to KY 180, Alternative 1 reduces travel demand on the section immediately north of the I-64 interchange by 11 percent, and Alternative 4 reduces traffic along this section by over 20 percent. These alternatives also reduce traffic volumes along I-64 between the US 60 Coalton interchange and the KY 180 interchange, with Alternative 1 reducing demand by about 10 percent and Alternative 4 by 21 percent.



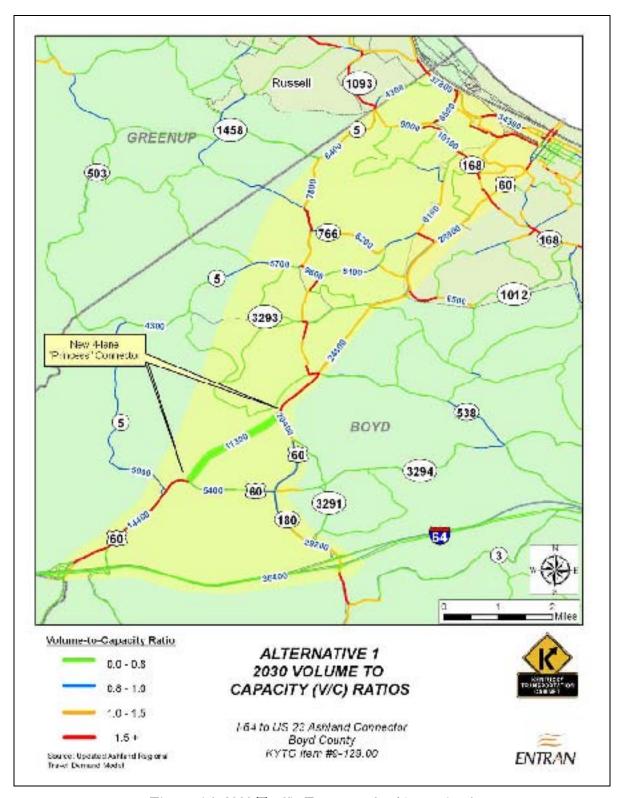


Figure 6-1: 2030 Traffic Forecasts for Alternative 1



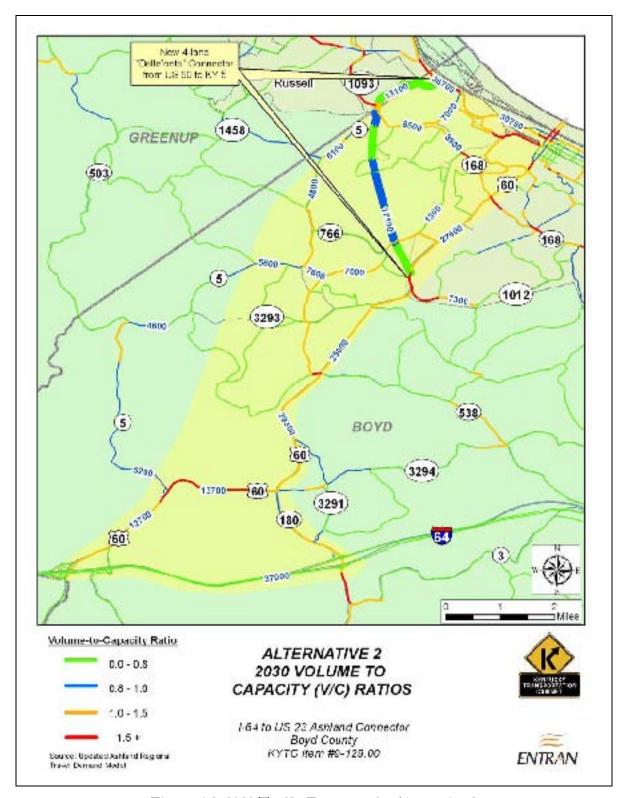


Figure 6-2: 2030 Traffic Forecasts for Alternative 2



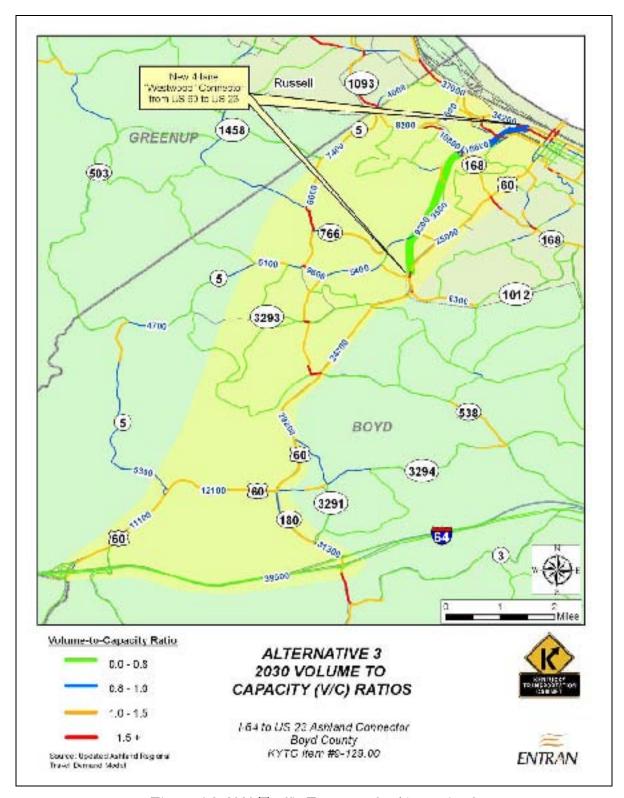


Figure 6-3: 2030 Traffic Forecasts for Alternative 3



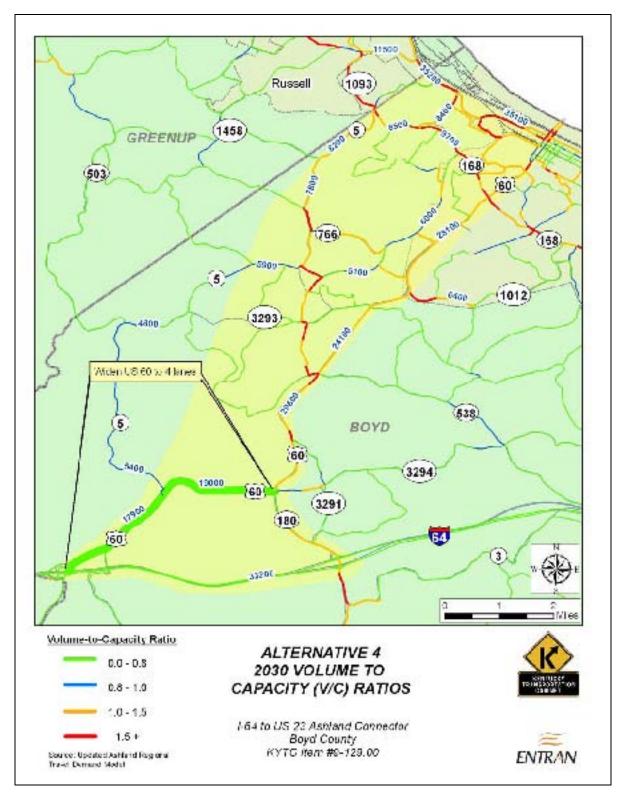


Figure 6-4: 2030 Traffic Forecasts for Alternative 4



Table 6-1: 2030 Traffic Forecasts and Traffic Diversion from Major Roadways in the Study Area

Roadway	Segment	No-Build	Alt 1	Growth	Alt 2	Growth	Alt 3	Growth	Alt 4	Growth
I-64	West of US 60	47,000	47,100	0.2%	45,900	-2.3%	47,000	0.0%	47,200	0.4%
	Between US 60 & KY 180	40,500	36,400	-10.1%	37,000	-8.6%	39,500	-2.5%	32,000	-21.0%
	East of KY 180	41,400	41,200	-0.5%	40,600	-1.9%	39,900	-3.6%	41,300	-0.2%
KY 180	North of I-64	32,800	29,200	-11.0%	29,700	-9.5%	31,300	-4.6%	26,100	-20.4%
US 60	North of I-64	10,100	14,200	40.6%	12,700	25.7%	11,200	10.9%	17,900	77.2%
	West of KY 180	9,200	8,400	-8.7%	12,600	37.0%	11,900	29.3%	21,100	129.3%
	North of KY 180	25,300	17,200	-32.0%	23,700	-6.3%	22,900	-9.5%	25,800	2.0%
	South of KY 766	27,300	27,700	1.5%	31,800	16.5%	29,200	7.0%	27,600	1.1%
	North of KY 168 (Blackburn Ave.)	27,700	28,000	1.1%	27,000	-2.5%	26,200	-5.4%	27,900	0.7%
	South of 12th Street	33,000	32,900	-0.3%	32,000	-3.0%	29,800	-9.7%	33,400	1.2%
KY 5	North of US 60	5,200	4,900	-5.8%	5,100	-1.9%	5,200	0.0%	5,300	1.9%
	South of US 23	3,800	4,200	10.5%	13,100	244.7%	4,000	5.3%	4,000	5.3%
KY 168	South of US 23	6,400	9,900	54.7%	5,300	-17.2%	7,700	20.3%	8,800	37.5%
	West of US 60	10,700	9,900	-7.5%	8,600	-19.6%	6,900	-35.5%	9,900	-7.5%
US 23	West of KY 5	35,100	35,700	1.7%	38,100	8.5%	36,100	2.8%	35,200	0.3%
	East of KY 168 (Hoods Creek Rd.)	30,300	28,300	-6.6%	28,700	-5.3%	29,100	-4.0%	37,100	22.4%
	At Towne Mall	33,400	34,300	2.7%	30,600	-8.4%	34,200	2.4%	35,000	4.8%
	North of I-64	33,200	33,000	-0.6%	33,800	1.8%	33,300	0.3%	33,300	0.3%

All alternatives increase traffic on US 60 north of the I-64 Coalton interchange. Alternative 1 would increase traffic along this section of US 60 (and therefore the use of the interchange) by nearly 40 percent, and Alternative 4 would increase traffic along this section by nearly 77 percent. Only Alternative 3 significantly reduces travel demand along US 60 approaching downtown Ashland, with an expected decrease of nearly 10 percent. This represents traffic that would divert from this section of US 60 to the proposed connector route. Alternative 2 decreases the demand for travel along this section of US 60 as well, but only by three percent.

Two alternatives reduce travel demand along the southern section of KY 5, with Alternative 1 resulting in a reduction of approximately six percent and Alternative 2 a reduction of about two percent. Traffic diversion from KY 168 varies by alternative. Each alternative reduces traffic on the section immediately west of US 60, with Alternative 3 resulting in the greatest reduction of over 35 percent. Only Alternative 2 reduces travel demand along the section immediately south of US 23 (17 percent).



As none of the proposed connector routes provide a true east-west alternative for travel along US 23, the amount of diversion from US 23 is minimal. Alternatives 1, 2, and 3 result in a slight decrease in travel along the section east of KY 168. Alternative 2 also decreases 2030 traffic volumes along the section adjacent to Town Center Mall by approximately eight percent.

Alternative 5 was not modeled as a standalone project as a three-lane section on US 60 north of Rose Hill Cemetery would not be capable of accommodating existing demand, let alone 2030 traffic. Therefore, Alternative 5 was modeled in combination with Alternative 3 to determine a best case scenario for potential diversion of traffic from US 60. Alternative 1 was also included in this scenario based on suggestions received by the ACAT, including widening US 60 between I-64 and the proposed Princess Connector. The results of this scenario are shown on **Figure 6-5**.

This scenario suggests a significant amount of US 60 traffic would divert to a proposed connector paralleling the existing route, particularly if the capacity were reduced on US 60 as would occur if it were restriped as a three-lane section. Traffic volumes along the section of US 60 south of KY 168 would decrease to approximately 14,000 VPD, which could be accommodated reasonably well with a three-lane section. Much of this traffic diverts to the proposed Alternative 3 connector, increasing traffic in that corridor to over 22,000 VPD. Widening US 60 south of the Princess Connector also increases travel demand along that section as well as along the proposed connector.



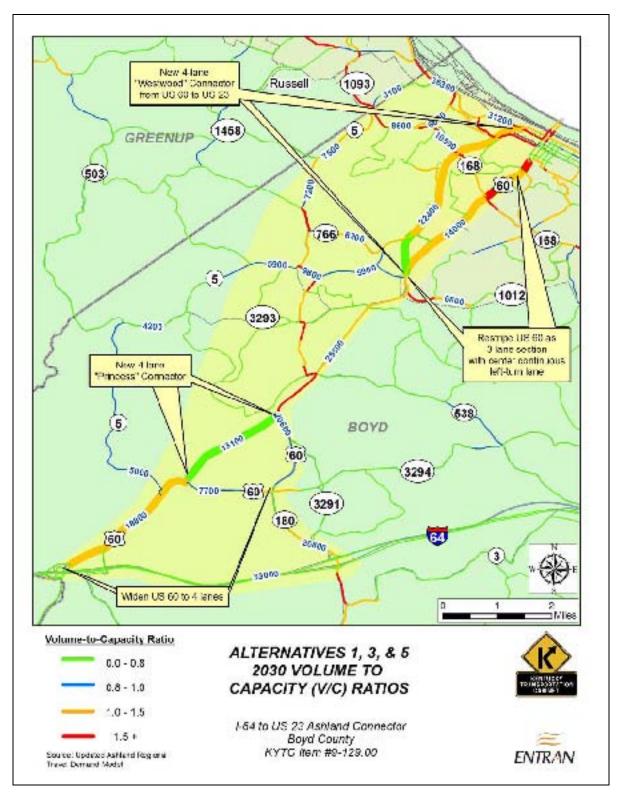


Figure 6-5: 2030 Traffic Forecasts for a Combination of Alternatives 1, 3, and 5



# 6.2 Evaluation Methodology and Results

A comprehensive approach was utilized to provide some insight as to which alternatives perform better than others. This evaluation process was not intended to necessarily determine which corridors should be pursued for further study, but rather provide a relative comparison between all alternatives in terms of traffic relief, adverse impacts, and public sentiment. Each alternative was evaluated based on 10 criteria that were based on the Purpose and Need for the study and input from the ACAT. These criteria and how they were applied are as follows:

- 1. **Connectivity between I-64 and downtown Ashland** Based on the Purpose and Need Statement, this criterion considers how much traffic relief would be likely for existing routes or how much traffic can be diverted from existing routes and how much traffic might be carried by the proposed alternative.
- 2. **Traffic volume on new corridor** Based on the highest traffic volume carried by any segment of a proposed alternative corridor.
- 3. Traffic diversion from US 60 Based on the estimated amount of traffic that could be diverted from US 60 near Rose Hill Cemetery (north of KY 716), the beginning of the narrower four-lane section. Traffic volumes were compared to the No-Build Alternative.
- 4. **Environmental impacts** Includes a number of potential impacts to the natural environment (i.e. impacts to streams, encroachment on wetlands, etc.) and the manmade environment (i.e. proximity to historic sites, parks, etc.)
- 5. Community impacts Considers the adverse effects that a new route may introduce, such as dividing an existing community, impacting community resources (i.e. churches, schools, etc.) or requiring a significant number of residential relocations within a densely populated area. Also considers the potential benefits that could be realized by a community, such as increased mobility from additional travel alternatives.
- 6. **Business relocations** Based on estimates of the total number of businesses that would be taken by each alternative.
- 7. **Residential relocations** Based on estimates of the total number of residences that would be taken by each alternative.
- 8. **Public input** Based on the results of the questionnaire from the second public meeting, where attendees were asked if they were in favor of or opposed each alternative.
- 9. **ACAT input** Based on the results of a group exercise where the ACAT was divided into groups and asked if they were in favor of or opposed each alternative.
- 10. **Construction cost** Based on the total estimated construction cost.

Actual values that could be quantified or estimated for each alternative, such as construction cost or relocations, were used where possible. Average values were used where alternatives have multiple options, such as in the case of Alternative 1, 2, and 3. Where actual measures were not possible to estimate, the potential level of impacts were rated as high (significant adverse impacts), medium (some impacts), or low (little or no impact). With respect to public input, favorable responses were given a score of "10" and negative responses a "0", and the average scores were used in the evaluation. A summary of the values used in this process are summarized in **Table 6-2**.



Table 6-2: Summary of the Application of the Evaluation Criteria

GRITERIA	Connectivity between I-64 and Downtown Ashland		Traffic Diversion from US 60	Environmental Impacts	Community Impacts	Business Relocations	Residendal Relocations	Public Input	ACAT Input	Total Construction Cost
SCALE	H, M, L	Vehicles per Day (VPD)	28,020	H, M, L	H,M,L	Approx. number of businesses	Approx. number of homes	Based on Input from Politic Mig A2	Based on input from ACAT Mig 43	Average cost
No Smid	1	п	0	1	M	0	11	0	=	\$0
Alternative 1	N	11,000	20	М	М	5	ə	0.53	2.5	\$24,000,000
Alternative 2	N	17,100	420	н	#	2	101	4.29	0	\$54,000,000
Alternative 3	н	18,600	8,000	н	М	5	86	0.90	10	\$31,200,000
Alternative 4	N	7,800	-80	М	M	2	10	4./4	10	\$16,700,000
Aller native 5*	Ξ	22 400	14,020	1	ı	0	11	*	5	\$1 100 000

Alternatives that provided significant congestion relief to US 60 south of downtown Ashland, providing a feasible travel alternative, were ranked high in terms of connectivity between I-64 and downtown Ashland. Those that provided some congestion relief to US 60 were rated a medium. Traffic diversion from US 60 was compared to raw model output from the regional travel demand model for the No-Build Alternative, and Alternative 5 resulted in the highest level of diversion. Most other alternatives, with the exception of Alternative 3, resulted in little or no diversion.

In general, the alternatives that require significant new construction result in more adverse effects in terms of environmental and community impacts and were rated high or medium in those categories. Alternative 3 would require the highest number of business relocations, and Alternative 2 and Alternative 3 would result in the most residential relocations. Alternative 5, which requires no new construction, has no impacts in these areas. However, Alternative 5 must be combined with Alternative 2 or Alternative 3 in order to be feasible.

The public indicated overwhelming support for Alternative 3 at the second public meeting (17 respondents were in favor and two in opposition to Alternative 3), giving it an average score of 8.95. Alternative 5 was also given relatively strong support, with an average score of seven. The ACAT gave unanimous support to both Alternative 3 and Alternative 4, but were in complete opposition to Alternative 2 and showed little support for Alternative 1.

The values in **Table 6-2** were normalized on a scale of 0 (zero) to 10 by giving the best performer for each criterion a score of 10, and the worst performer a score of 0. The alternatives that fell between the best and worst performers were given scores based on their relative performance. Those that were near the bottom received scores closer to 0, and those that were near the top received scores closer to 10. The results are shown in **Table 6-3**.



Table 6-3: Alternative Scores Based on Application of the Evaluation Criteria

Ortieria	Connectivity between 1-64 and Downtown Authord	Institut Volume On new Comision	Ineth: Diversion from US 80	Environmental Impacts	Community Impacts	Business Relocations	Residential Relocations	Public Input	ACATIrput	lotal Construction Coat
SCALL	Or to (lose with highest connectivity)	0 = 10 (lead to next halte)	(0-10) (mas: lo mapa (echatica)	6 10 (majorita minimal mpassky	() 10 (majorda minimal mpada)	ir 10 (majordo minimal rebusidos se	0 to (majorio minimal nducations)	(Fe 10 (lead to most (separtie)	() - 10 (exel tomost lawrence)	0 10 (righto lov cest)
Ho-Dulld	0.0	0.0	0.1	10.0	5.0	10.0	10.0	0.0	0.0	10.0
Alternative 1	5.0	8.0	0.1	80	50	3.0	97	20	28	84
Alternative 2	5-0	78	0.4	0.0	0.0	8.1	00	43	60	Do
Alternative 3	100	48	27	0.0	50	0.0	14	90	10.0	43
Alternative 4	5.0	9.5	0.0	5.0	5.0	0.3	9.0	4.7	10.0	7.1
Alternative 5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	7.0	60	9.0

<sup>\*</sup>Note: Alternative 5 must be combined with Alternative 2 or 3.

The scores from **Table 6-3** were summed and the alternatives were ranked based on those scores. The results are summarized in **Table 6-4**.

**Table 6-4: Preliminary Evaluation Results** 

Alternative	Total Score	RANK
No-Build	45.1	3
Alternative 1	39.8	5
Alternative 2	20.4	6
Alternative 3	40.3	4
Alternative 4	50.6	2
Alternative 5*	81.8	1

<sup>\*</sup>Note: Alternative 5 must be combined with Alternative 2 or 3.



Alternative 5 was the strongest performer in the preliminary evaluation of alternatives. Again, it should be noted that Alternative 5 is not a standalone alternative and would require Alternative 2 or Alternative 3 to be constructed before US 60 could be restriped to a three-lane section. Alternative 4 was the second best performer, and the No-Build Alternative was the third best.

The ACAT was asked to prioritize the evaluation criteria prior to the evaluation process. The meeting attendees were divided into groups and asked to indicate how important each criterion was to the community, on a scale of 1 to 5. The results are summarized in **Table 6-6**.

Table 6-5: ACAT's Input on the Importance of the Evaluation Criteria

Evaluation Criterion	Group 1	Group 2	Group 3	Group 4	Average Rating
Divert traffic from existing US 60	5	5	2.5	5	4.4
Minimize the number of residential relocations	4	4	3	3	3.5
Minimize the number of business relocations	4	3	5	4	4.0
Minimize community disruption	4	3	3	4	3.5
Minimize environmental impacts	4	5	15	3	3.4
Public input/support	4	5	4	4	4.3
Minimize Cost	3	3	4	4	3.5

The ACAT indicated that diverting traffic from existing US 60 was the most important criterion to consider, followed by public input/support and minimizing the number of business relocations. This input was considered in the evaluation process by applying the ACAT's priorities to the score in **Table 6-3**. Each raw score was multiplied by the ACAT's average criteria rating divided by the maximum possible score of 5. The results are shown in **Table 6-6**.



Table 6-6: Alternative Scores Based on Application of the Evaluation Criteria with ACAT's Input

Oriteria	Connectivity between 1-64 and Downtown Authord	Irattic Volume On new Comidor	Ineth: Diversion from US 80	Environmental Impacts	Community Impacts	Business Relocations	Residential Relocations	Public Input	ACATIrput	lotal Construction Coat
ACAT Factor	9	6.1	44	3.4	3.5	•	35	0.3	43	35
No-Build	5.0	du .	0.0	8.0	3.5	0.5	70	0.0	0.0	70
Alternative 1	50	47	0.1	34	16	30	86	28	22	36
/Bemaliee 2	5-0	61	0.8	0.0	90	85	00	31	0.0	00
Alternative 1	10.0	7.3	1.0	0.0	3.6	0.0	1.1	7.7	86	3.0
Alternative (	0.3	3.1	0.0	3.1	3.5	60	0.0	1.1	0.5	5.0
Alternative 5"	100	3.6	11.11	8.0	7.0	0.0	70	60	43	89

<sup>\*</sup>Note: Alternative 5 must be combined with Alternative 2 or 3.

The scores from **Table 6-6** were summed and the alternatives were ranked once again based on those scores. The results, representing the final evaluation results, are summarized in **Table 6-7**.

Table 6-7: Final Evaluation Results

Alternative	Total Score	RANK
No-Build	32.3	4
Alternative 1	30.0	5
Alternative 2	17.2	6
Alternative 3	33.1	3
Alternative 4	38.9	2
Alternative 5*	63.6	1

<sup>\*</sup>Note: Alternative 5 must be combined with Alternative 2 or 3.

Alternative 5 remained the best performer among the alternatives, followed again by Alternative 4. However, Alternative 3 scored better than the No-Build Alternative and ranked third once the ACAT's priorities were applied to the evaluation process.



# 7.0 RECOMMENDATIONS

The I-64 to US 23 Ashland Connector Study resulted in a number of short-term and long-term recommendations to improve travel opportunities between I-64 and US 23 west of downtown Ashland. These recommendations include implementing nine short-term projects, widening US 60 to four lanes between the Coalton Interchange at I-64 and the KY 180 intersection, and building a new route between US 60 south of Rose Hill to US 23 west of downtown Ashland. These recommendations are shown on **Figure 7-1**. This chapter summarizes the recommendations from the study and provides some suggestions on direction for future study.

# 7.1 Short-Term Improvement Alternative Recommendations

All of the Short-Term Improvement Alternatives received favorable public support at the second public meeting and are recommended for implementation. These ten projects range in cost from \$125,000 to \$1 million, with a total cost of \$3.2 million to \$3.4 million.

The intersection improvement projects are the most expensive short-term projects. The US 60 intersection with KY 180 is expected to cost approximately \$1 million to reconstruct, and the US 60 intersection with KY 168 approximately \$750,000. There are options to be explored further for the Roberts Drive intersection with KY 168 and the railroad grade crossing west of the intersection. Any increases to the grades along KY 168 will certainly improve the situation and lack of adequate sight distance at the rail grade crossing. An ultimate "fix" for the area will cost as much as \$500,000.

The turn lane projects are expected to cost approximately \$125,000 each, with the Paul Coffey Boulevard project expected to cost \$275,000 as it includes two turn lanes. The projects on US 60 north of KY 180 should be implemented as soon as funding is available. The turn lane project at the US 60 intersection with Paul Coffey Boulevard should not be implemented if the US 60 widening is to occur in the foreseeable future.

The signage improvement on US 60 approaching downtown Ashland may cost up to \$200,000 if overhead signage is provided. Other signage may be added at a lower cost. Opportunities for increased signage are limited on the US 60 approach to Winchester Avenue and the bridge, but this improvement will eliminate some of the confusion for motorists unfamiliar with the area.

Most of the short-term improvement alternatives were recommended to address existing safety issues. As such, they may be eligible for Highway Safety Improvement Program (HSIP) funding. Otherwise, other traditional funding sources will be required.

# 7.2 Long-Range Corridor Alternative Recommendations

One South Alternative, Alternative 4, and one North Alternative, Alternative 3, are recommended for further study. The evaluation process summarized in Chapter 6 indicated that Alternative 4 should be the highest priority long-range project, followed by Alternative 3. The following sections discuss the rationale behind these recommendations, as well as recommendations for the future consideration of Alternative 5.



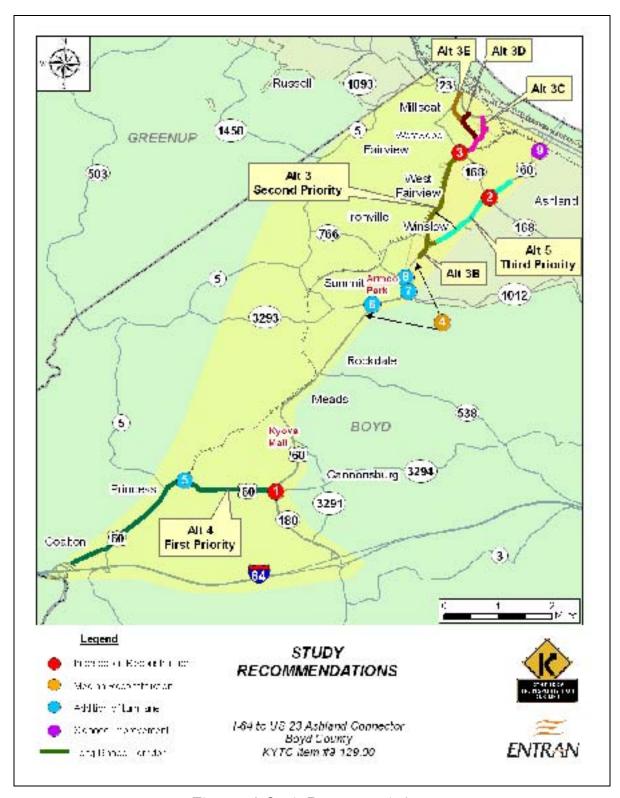


Figure 7-1: Study Recommendations



#### **South Alternatives**

The Alternative 1 options have a significantly higher construction cost than Alternative 4. However, both Alternative 1 corridors provide for a shorter connection between I-64 and the four-lane section of US 60, resulting in 1.1 miles less overall distance between Ashland and the Coalton interchange compared to Alternative 4. With respect to right of way impacts, the Alternative 1 options will likely cause significant disturbance through the Paul Coffey Industrial Park. However, overall impacts are in line with those of Alternative 4. The figures for both Alternative 1A and 1B only reflect the estimated costs and relocations involved with the new corridors. They do not take into account the improvements that would also be needed along the two-lane portion of US 60 between the industrial park and I-64. When those improvements are considered, the overall right of way impacts for the Alternative 1 options end up being in line with those for Alternative 4.

Alternative 1 finished in the bottom half of the evaluation process. Finally, input expressed at public involvement meetings and the opinion of the ACAT both favor keeping improvements to US 60 along the existing route. Therefore, based on all these reasons, Alternative 1 is not recommended for further development and Alternative 4 is recommended for further consideration. Alternative 4 is considered to be the highest priority among the long-range alternatives.

#### **North Alternatives**

The Alternative 2 corridors have a higher construction cost than Alternative 3. Alternative 2 also involves many more single family residential relocations than Alternative 3. However, when the right of way cost is calculated in more detail, Alternative 2 ends up being very similar to Alternative 3. The Alternative 3 options involve more commercial relocations and take more apartment complex buildings than Alternative 2. With respect to cost, each apartment building could be the equivalent of four or more single unit residences and the same applies to commercial relocations. Taking this into account, the overall right of way impact of Alternative 2 is comparable to that of Alternative 3. Therefore, when comparing Alternative 2 and Alternative 3, the main factors that come into play for choosing a preferred alternative are the construction cost and determining which of these two different routes better addresses the traffic issues along US 60 and best meets the overall traffic needs of the area. Based on these two factors, Alternative 3 offers the best solution to Ashland's transportation problems at a lower construction cost.

Alternative 2 finished last in the evaluation process. In addition, Alternative 2 did not receive public support at the second public meeting (only Alternative 1 received less support). The ACAT unanimously voted against Alternative 2. Therefore, Alternative 3 is recommended for further consideration and is considered to be the second highest priority among the long-range corridor alternatives.

There are some issues that must be considered during subsequent phases of study for Alternative 3. With respect to the beginning point, Alternative 3A is much more expensive than Alternative 3B. The large cut at the beginning of Alternative 3A drives up the cost by more than \$13 million compared to Alternative 3B. Any Alternative 3 combination will be much less expensive using Alternative 3B at the beginning. As for the alternative ending points studied, Alternatives 3C, 3D and 3E involve significantly less right of way impacts than Alternative 3A. The Alternative 3A corridor, the closest to downtown Ashland, takes 12 apartment complex buildings that are unaffected by the other alignment options, as well as two large commercial buildings near its intersection with US 23.



From all the options analyzed in this study, the preferable Alternative 3 options with respect to construction cost and right of way impacts are 3B-3C, 3B-3D and 3B-3E. From all these, Alternative 3B-3C seems to offer the best solution because it would end the new connector road at an existing busy intersection closer to downtown than the other alternatives. If option 3B-3D were to be built, it would result in a series of three signals closely spaced along US 23 that would further disrupt through traffic along this route. At any rate, selecting the best of these three options will only be possible after further studies are conducted for each of these routes using more accurate mapping.

Alternative 5 should be considered for implementation once Alternative 3 is constructed and open to traffic. Output from the regional travel demand model suggests restriping the narrower four-lane section of US 60 north of Rose Hill Cemetery would be feasible if significant portions of the traffic along that corridor were diverted elsewhere. However, there are no feasible alternatives currently available that could carry the additional traffic. Once Alternative 3 is available, some of the traffic from existing US 60 will move to that route, likely making the restriping feasible.



# **Appendix A – Meeting Summaries**

# Boyd County Planning Study I-64 to US 23 Ashland Connector Item # 9-129.00

# Advisory Team Meeting #1 Minutes Ashland Central Fire Station March 4, 2008 12:00 pm

An Ashland Connector Advisory Team (ACAT) meeting was held on Tuesday, March 4, 2008 at 12:00 p.m. in the Ashland Central Fire Station in downtown Ashland. The focus of the meeting was to discuss the I-64 to US 23 Ashland Connector Study. The following individuals were in attendance:

Phil Biggs Chairman, Ashland MPO
Richard Cyrus Cannonsburg Fire Chief

Pal Hamman Alliand Alliana

Bob Hammond Ashland Alliance

Paula Hogsten Ashland City Commissioner

Todd Kelley City of Ashland Police Department

Judy McCoy
Bill Musick
Robert Ratliff
Keith Robinette
Boyd County Public Schools
Fairview Independent Schools
City of Ashland Police Department
Boyd County Road Supervisor

Michael Rogers Ashland Bus System Marion Russell Ashland Public Works

Terri Sicking Ashland MPO

David Sloan City of Ashland Fire Chief

Nickie Smith Riverport Authority

Cheryl Spriggs Ashland City Commissioner Bud Stevens Boyd County Fiscal Court

Katrina Bradley KYTC D9 Jason Dean KYTC D9

J.R. Hamm KYTC Central Office

Jack Litton KYTC D9

Deanna Miller KYTC D9 Planning

Karen Mynhier
Robin Ramey
KYTC D9
Daran Razor
KYTC D9
Randy Stull
KYTC D9
Randi Vint
KYTC D9
Brent Wells
KYTC D9

Jim Wilson KYTC Central Office

Brian Aldridge ENTRAN, PLC Brian Cash ENTRAN, PLC

The meeting began at approximately 12:30 p.m. Deanna Miller, KYTC's Project Manager, began the meeting with a brief introduction and then introduced Brian Cash, Project Manager for

ENTRAN, PLC. Brian Cash delivered a brief presentation that provided an overview of the project. The presentation began with some discussion of the purpose for planning studies, which help define the issues within the study area and the ultimate goals for the study by initiating coordination between agencies and communication with the public.

The purpose of the project was explained as follows:

The purpose of the I-64 to US 23 Connector Study is to identify community concerns and evaluate project alternatives to improve access and mobility between I-64 and Ashland. The study is intended to help define the location and purpose of the project and better meet Federal requirements regarding consideration of environmental issues, as defined in the National Environmental Policy Act (NEPA).

With that purpose in mind, the I-64 to US 23 Ashland Connector Study has four underlying goals. These are to discus the project with stakeholders, define project goals and needs, identify environmental issues, and to identify both short and long-term projects for construction. This study may result in a number of different projects to be pursued, such as general recommendations (i.e. access management), more short term projects such as intersection spot improvements, and long term projects such as a new transportation corridor. The ultimate recommendations will likely include a combination of smaller improvement projects and segment(s) of new roadway. The smaller projects could be programmed and constructed in a shorter timeframe while any new construction (which will likely be significantly more costly) could potentially take several years to be implemented.

The study schedule was briefly discussed. The study will follow an 18 month schedule, which began in June of 2007 and will conclude in November of 2008. The purpose of the public involvement plan for the project was discussed and will serve a number of purposes. These include: assisting the study team in gauging public interested in the project; informing and educating the public: and identifying the needs, issues and goals, and potential new corridor locations within the study area.

The approximate study area was discussed. The southern portion of the study area includes I-64 between the US 60 and KY 180 interchanges. To the east, the study area follows KY 180 and then US 60 north to US 23. To the west, the boundary begins following US 60 to Princess, then proceeds northeast to Greenup County line near Bellefonte and follows the county line to US 23. Brian noted the study area does not include any portion of Greenup County.

Brian Cash then discussed a series of photographs and map graphics that depicted the existing conditions within the study area, including existing traffic volumes, the recent crash history along the study area roads, and relevant projects found in the KYTC Six Year Plan. Attendees were provided a booklet containing all the maps discussed in the presentation as well as other graphics depicting the existing conditions in the study area. It was mentioned that the KYTC is currently working on a project to add left turn lanes at 13 locations in the median along US 60 south of Ashland.

A local officials meeting was held in September. At that meeting, a series of questions were asked to obtain input from the attendees. The consensus was that US 60, particularly the section between Rose Hill and downtown Ashland with its narrow lanes, lack of turn lanes, and heavy traffic volumes, is a significant transportation issue. Impacts to communities in general and especially low-income communities could be an issue depending on the scope of improvements

recommended as a result of this study. The attendees at that meeting noted locations that should be avoided should new construction be pursued, such as low-lying areas adjacent to Roberts Drive and the landfill area near Coalton. Finally, some recommendations were given for where a new corridor might connect to US 60 and US 23.

A group exercise was undertaken to provide the ACAT an opportunity to work with each other to identify existing transportation issues and potential improvements. The attendees were divided into small groups and were provided maps depicting some of the environmental resources within the study area. The following discusses some of the items which were brought up during the exercise.

# **Transportation Issues**

- US 60 north of Rose Hill
  - Lack of left turn lanes
  - High travel speeds
  - Trucks (HazMat)
  - o Utility pole setbacks
- Potential impacts to low-income neighborhoods near Millseat

# **Short Term Projects**

- Eliminate left turns from US 23 onto Ohio River Bridges
- New traffic signal on US 60 at Safe Harbor
- Intersection improvements at US 60 @ KY 180
- Delineation of wide medians on portions of US 60

# **Long Range Projects**

- Defined future major corridor
  - o US 60 south of Rose Hill through West Fairview and Millseat
  - o Connector route from Industrial Parkway to US 60 north of Summit
- Improvements to KY 168 corridor
- US 60 I-64 to KY 180 (Possible 3 lane)
- US 60 Rose Hill to Downtown (Possible 3 lane)

Brian Cash discussed the National Environmental Policy Act (NEPA) process and the many different issues that must be investigated. Two maps were discussed that depict the natural and manmade environments (copies were included in the booklets provided to each attendee). It was noted that six individual properties or districts are currently on the National Register of Historic Places (NRHP) within the study area and six additional properties or districts appear to meet NRHP criteria. Final determinations on the eligibility of these properties will take place during subsequent project phases.

The next ACAT meeting will be held in the Ashland Central Fire Station on Thursday, March 20 at 12:00 p.m. The ACAT members were provided a smaller version of the environmental resources map from the group exercise and were asked to sketch some improvement alternatives on the map for discussion at the March 20 meeting.

The meeting adjourned at approximately 2:00 p.m.

# Boyd County Planning Study I-64 to US 23 Ashland Connector Item # 9-129.00 Advisory Team Meeting #2 Minutes Ashland Central Fire Station March 20, 2008 12:00 pm

An Ashland Connector Advisory Team (ACAT) meeting was held on Thursday, March 20, 2008 at 12:00 p.m. in the Ashland Central Fire Station in downtown Ashland. The focus of the meeting was to discuss the I-64 to US 23 Ashland Connector Study. The following individuals were in attendance:

Phil Biggs Chairman, Ashland MPO
Richard Cyrus Cannonsburg Fire Chief
Paula Hogsten Ashland City Commissioner

Todd Kelley City of Ashland Police Department

Jim Purgerson Ashland Alliance

Robert Ratliff City of Ashland Police Department Kyle Robinson Boyd County Extension District

Michael Rogers Ashland Bus System
Marion Russell Ashland Public Works
David Sloan City of Ashland Fire Chief

Nickie Smith Riverport Authority

Cheryl Spriggs Ashland City Commissioner

Allen Blair KYTC D9
Jason Dean KYTC D9
Darrin Eldridge KYTC D9
Vickie Griggs KYTC D9

J.R. Hamm KYTC Central Office Deanna Miller KYTC D9 Planning

Karen Mynhier KYTC D9
Robin Ramey KYTC D9
Randi Vint KYTC D9
Brent Wells KYTC D9

Jim Wilson KYTC Central Office

Brian Aldridge ENTRAN, PLC Brian Cash ENTRAN, PLC

The meeting began at approximately 12:15 p.m. Deanna Miller, KYTC's Project Manager, began the meeting with a brief introduction and asked the attendees to introduce themselves. Deanna added that a change in personnel has taken place in the District 9 office and Bart Bryant is now serving as Executive Director/Chief District Engineer.

Brian Cash, Project Manager for ENTRAN, PLC, delivered a brief presentation that provided a recap of the first ACAT meeting. The presentation began with discussion of the group exercise from the first meeting, which included maps depicting the trouble spots and potential improvements proposed by the group. These maps were provided as handouts.

At the March 4 meeting, the ACAT members were provided a map depicting known environmental resources and were asked to sketch some improvement alternatives on the map for discussion at the March 20 meeting. With this information in hand, the attendees were divided into small groups and were provided larger versions of those maps. They were asked to discuss possible corridor locations and sketch the group's recommendation(s) on the larger map for presentation. While each group had different ideas, all the recommendations had a common theme that a new or improved corridor should be constructed west of the US 60 to relieve congestion on the section of US 60 approaching Ashland. A map depicting the Committees corridors is attached.

Brian Cash reiterated the purpose of the project as follows, emphasizing the core purpose of improving access and mobility:

The purpose of the I-64 to US 23 Connector Study is to identify community concerns and evaluate project alternatives to **improve access and mobility between I-64 and Ashland.** The study is intended to help define the location and purpose of the project and better meet Federal requirements regarding consideration of environmental issues, as defined in the National Environmental Policy Act (NEPA).

All alternatives and recommendations from the study must meet the Purpose and Need. In addition, several other criteria will be considered during the development of alternatives. All alternatives will be evaluated using the following criteria:

- o Purpose and Need
- o Costs
- o Community Impacts
- o Environmental Impacts
- o Traffic and Safety Impacts
- o Public Input
- o Engineering Considerations

Community impacts include residential relocations and impacts to existing businesses, as well as impacts to low income residences (i.e. environmental justice issues). Environmental resources such as landfills, superfund sites, historic properties, and wetlands will also need to be considered.

When considering potential new corridors, issues such as the function of the roadway, number of lanes, median type, travel speed, and roadway edge treatment (i.e. shoulder, curb, etc.) must be taken into consideration. Access management will be an important item to consider as well. It was noted that arterial roadways, such as US 60, tend to provide greater mobility but provide less direct access to adjacent parcels. Local streets provide a higher degree of land access but do not provide the same level of mobility. Collector roadways provide a balance of access and mobility.

A draft questionnaire was passed out to the Committee. The questionnaire will be used as a tool to gather public input at the first public meeting and assist the study team in identifying the critical

elements that should be considered when developing and comparing alternatives. The Committee was asked to review the questionnaire and provide comments as soon as possible.

The time and location for the first public meeting was discussed for the Ashland Connector study. Deanna Miller stated that the meeting should occur within the next month, if possible. It was decided the meeting would be held on Thursday, April 24 at the KYOVA Mall on US 60 south of Ashland. Meeting flyers and study questionnaires will be mailed to the ACAT members for distribution prior to the meeting.

The next ACAT meeting will be scheduled at a later date. The meeting attendees suggested email worked well as a notification tool.

The meeting adjourned at approximately 1:30 p.m.





# **Meeting Summary**

TO: Darrin Eldridge, P.E.

KYTC – District 9

FROM: Brian Aldridge, P.E.

Project Manager ENTRAN, PLC

DATE: October 17, 2008

SUBJECT: I-64 to US 23 Ashland Connector, Boyd County

Item No. 09-129.00

A joint meeting of the Ashland Connector Advisory Team (ACAT) and local officials was held on Monday, October 13, 2008 at 11:30 a.m. in the Ashland Central Fire Station in downtown Ashland. The focus of the meeting was to discuss the I-64 to US 23 Ashland Connector Study. The following individuals were in attendance:

Richard Cyrus Cannonsburg Fire/ Boyd County Schools

Tony Grubb City of Ashland
Kevin Gunderson City of Ashland
Paula Hogsten City of Ashland
Judy McCoy Boyd County Schools
Timothy Moore City of Ashland
Bill Musick Fairview Schools

Scott Penick Ashland Fire Department

Jim Purgerson Ashland Alliance

Robert Ratliff City of Ashland Police Department

Mike Rogers Ashland Bus System

Thomas Saylor EastPark
Nickie Smith Boyd County
Cheryl Spriggs City of Ashland

Carl Tolliver BCFG

Allen Blair KYTC D9
Jay Dean KYTC D9
Robyn Ramey KYTC D9
Darrin Eldridge KYTC D9

J.R. Ham KYTC Central Office

Phil Mauney KYTC D9 Danny Mineer KYTC D9 **Brent Wells** KYTC D9 Brian Aldridge **ENTRAN** Jason Bricker **ENTRAN** Glenn Hardin **ENTRAN** Karim Siahkoohi **ENTRAN** Ashley Williams **ENTRAN** 

The meeting began at approximately 12:00 p.m. Darrin Eldridge, KYTC's Project Manager, began the meeting with a brief introduction, adding that a change in personnel has taken place in the District 9 office. Deanna Miller, who had been serving as Project Manager, has accepted a different position with KYTC and Phil Mauney is now heading up planning in the district.

Brian Aldridge, Project Manager for ENTRAN, delivered a presentation that provided a recap of the first public meeting, discussion of the preliminary long-range alternative concepts, and the proposed short-term improvements. He began by saying that Brian Cash, formerly ENTRAN's Project Manager for the I-64 to US 23 Ashland Connector Study, recently accepted a position with the U.S. Army Corps of Engineers.

#### **Public Meeting #1**

The first public meeting was held on April 24 at the Kyova Mall on US 60 south of Ashland. A total of 45 attendees signed in during the course of the evening. It was noted that the turnout was not uncommonly low for the early stages of a planning study such as this. There was some discussion about changing the location for the second public meeting to increase the turnout.

Public meeting attendees were asked to mark "trouble spots" on maps of the study area. Areas that were identified included the following:

- US 60/KY 180 intersection
- Portions of US 60 lacking turn lanes
- US 60/KY 168 intersection
- US 60 interchange at Coalton (exit 181)
- US 60 near Downtown Ashland
- Portions of KY 5 near Bellefonte

On the same maps, attendees were asked to draw new transportation corridors they believed should be considered or existing corridors in need of significant improvement. The following new corridors were identified:

- Connector between US 60 near Princess to US 60 north of the Kyova Mall (near Meads)
- Connector between US 60 near Meads to US 23 at KY 5
- Connector between US 60 near Winslow (south of Rose Hill cemetery) to US 23 east of Town Mall or at KY 168

Brian discussed the findings from the 30 completed surveys that were returned. The surveys asked a series of questions concerning existing transportation deficiencies, travel routes, and improvement options. The US 60 intersection with KY 168 (Blackburn Street) and US 60 (13<sup>th</sup> Street) in Ashland were the primary trouble spots included in the responses. With respect to improvement options, 10 surveys indicated a new route, 7 indicated improving existing facilities, and 15 indicated a combination of improvements to existing facilities and new corridors were the most desirable options. When asked which I-64 interchange was used most frequently, 18 respondents said they utilized the Coalton interchange most frequently and 13 said they used the KY 180 interchange most frequently. It was noted that the KY 180 interchange was (and is) undergoing reconstruction, possibly skewing the responses.

When asked where a new connector should connect to US 60, 12 respondents indicated a connection near Princess would be desirable, 7 said near Rose Hill, and 5 said near Armco Park. On where a new connection with US 23 should occur, 13 respondents near Town Mall, 7 near Melody Mountain, 7 near KY 5, and 1 near KY 168.

When asked what was most important when considering a new road, 80 percent of the respondents indicated traffic relief was important, followed by impacts to residential properties, 73%, and impacts to businesses, at 50%. With respect to ranking existing transportation issues in the area from 1 to 5, with 5 indicating it is a serious problem, traffic congestion was rated as the most significant issue, with an average

rating of 4.4. Pedestrian safety and a lack of turn lanes were the second highest rated issues, with an average rating of approximately 4.0. Improved truck routes and vehicle safety were also rated high, with an average rating of approximately 3.9.

A map was provided on the survey and respondents were asked what route they would use to travel between two identified locations within the study area. The first two locations were from US 23 near Town Mall to US 60 at the KY 538 (Shopes Creek Road) intersection. Sixteen respondents indicated they would travel through downtown Ashland to US 60 to reach the destination, five said they would use KY 168 to US 60, and two said they would use Roberts Drive. The second set of locations began at US 23 just west of the KY 168 intersection and ended at the same location on US 60, near the KY 538 intersection. Nine respondents said they would use KY 5 for a portion of their trip, six said they would drive through downtown Ashland, three said they would use KY 168 to access US 60, and three said they would use a combination of KY 168 and Roberts Drive. These results indicate that people utilize a variety of routes when traveling to and from US 23 west of Ashland.

#### **Traffic Forecasts**

Brian discussed the preliminary traffic forecasts developed for the study. He noted that the regional travel demand model, covering all of Boyd and Greenup County, has been recently updated. The updated travel demand model was made available for use in the study in late April. The updated model includes revised socioeconomic data forecasts. The revised data include a 0.5 percent decline in population for Boyd County between the 2007 base year and 2030. However, employment growth is higher in the updated model, with an increase of 45.4 percent anticipated by 2030. Negative employment growth is anticipated southwest of Ashland and near Catlettsburg, but significant growth is anticipated elsewhere in the study area and near Russell.

In general, the 2030 traffic volumes forecast by the updated travel demand model tend to be similar to or lower than existing traffic volumes within the study area. However, the model predicts strong growth along I-64, KY 180 and portions of US 60 south of Ashland.

Brian discussed four conceptual alternatives developed to estimate future traffic volumes and impacts to US 60. The current draft of the Six Year Highway Plan includes widening US 60 from the Coalton interchange to KY 180, and it was decided that this should be considered as an alternative for the purposes of this study (as proposed in Alternative 4). These new or improved corridors, developed based on input provided by the Advisory Committee or the public, and their anticipated range of 2030 traffic volumes based on the updated model are as follows:

- Alternative 1 (Princess Connector): connecting US 60 near Princess through the Paul Coffey Industrial Park to US 60 north of the Kyova Mall 11,200 vehicles per day
- Alternative 2 (Bellefonte Connector): connecting US 60 north of Armco Park to KY 5 near Bellefonte -13,000 to 17,000 vehicles per day
- Alternative 3 (Westwood Connector): connecting US 60 north of Armco Park to US 23 east of Town Mall 9,200 to18,500 vehicles per day
- Alternative 4 widening US 60 to four lanes from I-64 to KY 180 17,900 to 19,000 vehicles per day

It was noted that all alternatives are anticipated to increase traffic on US 60 north of the Coalton interchange, with Alternative 4 resulting in the highest increase of nearly 78 percent. Alternative 3 resulted in the highest decrease in traffic along US 60 through downtown Ashland with a 10 percent reduction in traffic. Most alternatives will reduce traffic on the south end of KY 5 near Princess, and the impacts on KY 168 and Roberts Drive vary for each alternative.

Brian indicated that after previous discussions with the Study Team, it was decided that a combination of Alternative 1 and Alternative 3 should be examined for anticipated traffic impacts. In an effort to improve safety and mobility along 13<sup>th</sup> Street, it was decided to include in this alternative a "road diet" option for US 60 north of Rose Hill, restriping the existing four-lane section as a three-lane to provide two travel lanes

(one per direction) and a continuous center left turn lane. This scenario, which assumes US 60 would be widened to four lanes between I-64 and the Princess Connector, increased traffic on the Princess Connector and reduced traffic on US 60/13<sup>th</sup> Street through downtown Ashland. The resulting volumes through the downtown area appear to be low enough that US 60 could be re-striped as a three-lane section.

#### **Long-Range Improvement Options**

Brian presented maps depicting the preliminary long-range corridor alternatives (see attached). It was noted that although potential alignments were shown on the maps, each should be considered as much wider corridors inside which one or more alignments are feasible for implementation. Alternative 1 resembles the Princess Connector, connecting US 60 near Princess to US 60 north of Kyova Mall. Two options were shown for Alternative 1. The first, Alternative 1A, parallels the CSX rail line to the west. The second, Alternative 1B, would roughly follow the existing Paul Coffey Boulevard route as it departs US 60 on the south end.

Two options for Alternative 2 were depicted. Alternative 2A departs US 60 near KY 766 (Bob McCullough Drive), just north of Armco Park. The corridor follows KY 766 to the west, turning northwest towards KY 5. Alternative 2B begins on US 60 at the same location as Alternative 2A, but heads northwest towards KY 5 rather than following KY 766. Both alternatives tie into KY 5 just south of US 23.

Several options were presented for Alternative 3. On the south end, Alternative 3A connected to US 60 at KY 766 (Bob McCullough Drive) and Alternative 3B connected to US 60 about midway between KY 766 and KY 1134 (Winslow Road). Both Alternative 3A and 3B roughly followed existing Roberts Drive corridor to north of KY 168 and then provided four different locations for a terminus at US 23, with one alternative connecting to US 23 east of Town Mall (Alternative 3A), one connecting to US 23 at the existing traffic signal near Melody Mountain (Alternative 3C), one connecting to US 23 midway between the traffic signals at Melody Mountain and KY 168 (Alternative 3D), and one alternative connecting to US 23 at the KY 168 intersection (Alternative 3E).

#### **Evaluation Exercise**

The ACAT members were divided into small groups and asked to evaluate the alternatives that had been previously shown. With the detailed alternative corridor maps at each group's table, they were asked to reach a consensus on which alternatives should be considered as part of the study and if any additional alternatives should be added. They each completed a group evaluation form based on their discussions. The following summarizes the four groups' conclusions for the alternatives evaluation exercise.

<u>Alternative #1:</u> Three of the four groups felt that Alternative 1 should not be considered. One group stated that the negative land impacts were reasons to exclude the alternative. Another stated that it would be less expensive to widen US 60 through the Princess area instead of carrying Alternative 1 forward.

<u>Alternative #2:</u> All groups decided that Alternative 2 should not be considered. Reasons included the relatively high costs anticipated, the distance away from the city, and the limitations to segment the construction phases. One group expressed that the widening of US 60 through the area was unnecessary.

Alternative #3: Every group felt that Alternative 3 should be considered, however, each group had different preferences as to which variation of Alternative 3 was preferred. One group expressed concerns with Alternative 3A because of the possible increase in congestion around the Town Mall. Alternatives 3A, 3B, 3C, 3D, and 3E were mentioned by one or more groups as being the preferred choice for Alternative 3. A comment was given by one of the ACAT members regarding the ability of Alternative 3 to be constructed in multiple phases. The possibility of bike trails along the Alternative 3 corridor was also mentioned.

<u>Alternative #4:</u> Alternative 4 was discussed amongst the groups as already being in the Six-Year Highway Plan and it was decided by all groups that it should remain as a considered Alternative for the study.

<u>Alterative #5:</u> The decision to consider Alternative 5 was split amongst the four groups. The groups that expressed strong opposition to Alternative 1 were also against Alternative 5.

No additional corridor alternatives were discussed as part of the group evaluation exercise.

The second part of the evaluation exercise involved rating specific evaluation criteria to be used in the evaluation of the study alternatives. Each criterion was to be rated from 1 to 5, with 5 being the most important and 1 being the least important. The groups were also asked to add any criteria that they felt should be considered. The following table summarizes the results of the exercise:

Evaluation Criterion	Average Rating
Divert traffic from existing US 60	4.4
Minimize Cost	3.5
Minimize the number of residential relocations	3.5
Minimize the number of business relocations	4.0
Public input/support	4.3
Minimize community disruption	3.5
Provide improved access to the industrial park	2.5
Minimize environmental impacts	3.4

The majority of the criteria listed were given high ratings, with "Divert traffic from existing US 60" and "Public input and support" receiving the highest ratings. Only one group gave the "Provide improved access to the industrial park" criterion a high rating.

# **Short-Term Improvement Projects**

Brian presented a preliminary list of short-term improvement projects, or "spot" improvements, that can be implemented in the nearer term and at a lower cost than the long-range alternatives. These projects, most of which were developed to improve traffic safety, are as follows:

#### Intersection Reconstruction

<u>US 60 at KY 180</u>: This intersection lies in a curve along KY 180 and US 60, and the design resulting in significant superelevation (i.e. banking of the roadway) to accommodate the travel speeds. The improvement is to reconstruct the north-south approaches to decrease the amount of necessary superelevation.

KY 168 at Roberts Drive: There is an at-grade crossing of the CSX rail line on KY 168 immediately west of the Roberts Drive intersection. This grade crossing is at a much higher elevation than the street approaches, resulting in poor sight distance. The improvements it to raise the grades on KY 168 and Roberts Drive to better match the elevation of the grade crossing.

<u>US 60 at KY 168 (Blackburn Avenue):</u> The US 60 approaches to this five-legged intersection are skewed as buildings are located adjacent to the right-of-way at the southwest and northeast corners. The building located in the southwest corner is eligible for inclusion on the National Register of Historic Properties. The improvement is to realign the US 60 approaches by moving the US 60 alignment slightly to the east, resulting in the removal of the building (or portions of the building) on the northeast corner. It was suggested that closing the Algonquin Avenue approach, which forms the fifth leg of the intersection to the southwest, be given consideration.

#### Median Reconstruction

<u>US 60 between KY 716 and KY 1012 (Boy Scout Road)</u>: This section of US 60 has a raised, traversable median and is fronted by various commercial developments. The "roll" curb forming the raised median causes some drivers to slow significantly before mounting the median. Approximately 25 percent of the crashes that occurred over the past five years were angle crashes (involving one or more turning vehicles) and another 40 percent were rear end crashes. The improvement is to replace the traversable median with a non-traversable median with selective median openings and turn lanes.

# Addition of Turn Lane(s)

<u>US 60 at Paul Coffey Boulevard:</u> The improvement is to add a northbound left-turn lane and a southbound right-turn lane to better accommodate truck traffic.

<u>US 60 at KY 716 (Summitt Road):</u> Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a southbound right-turn lane.

<u>US 60 at KY 1012 (Boy Scout Road):</u> Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a northbound right-turn lane.

<u>US 60 at KY 766 (Bob McCullough Drive):</u> Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a northbound right-turn lane.

# Signage Improvement

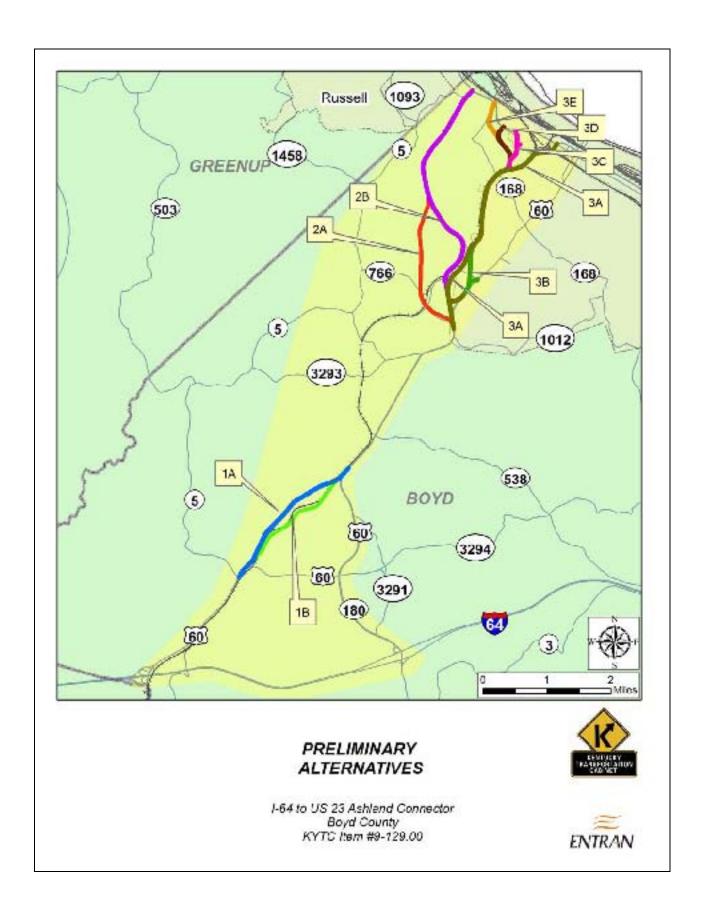
<u>US 60 (13th Street)</u> approaching downtown Ashland: As drivers are approaching the 13th Street intersection with US 23, there is no signage to indicate which lanes lead to the bridge to Coal Grove, OH. However, opportunities for improved signage are limited. The improvement is to provide overhead signage directing bridge traffic to use the middle lanes and traffic destined for northbound US 23 (Winchester Avenue) to use the left lane.

It was noted that consideration had been given to restriping the northbound 13<sup>th</sup> Street approach to provide a left-turn only and shared through and left-turn lane for traffic turning left onto northbound Winchester Avenue. Additional signage improvements were suggested for US 23 to better direct traffic through downtown Ashland.

# **Public Meeting #2**

There was some discussion regarding the time and location for the second public meeting for the Ashland Connector study. Brian stated that the meeting should occur within the next month, if possible. dates and locations were discussed, and it was decided the meeting would be held on Thursday, November 18 at Park Place (formerly known as the American Electric Power building) on Central Avenue in downtown Ashland. Meeting flyers and study questionnaires will be mailed to the ACAT members for distribution prior to the meeting.

The meeting adjourned at approximately 2:00 p.m. The next ACAT meeting will be scheduled at a later date.







# **Meeting Summary**

TO: Darrin Eldridge, P.E.

KYTC - District 9

FROM: Brian Aldridge, P.E.

Project Manager ENTRAN, PLC

DATE: March 13, 2009

SUBJECT: I-64 to US 23 Ashland Connector, Boyd County

Item No. 09-129.00

A joint meeting of the Ashland Connector Advisory Team (ACAT) and local officials was held on Friday, February 20, 2009 at 11:30 a.m. in the Ashland Central Fire Station in downtown Ashland. The focus of the meeting was to discuss the preliminary recommendations resulting from the I-64 to US 23 Ashland Connector Study. The following individuals were in attendance:

Larry Brown City of Ashland Steve Corbitt City of Ashland

Richard Cyrus Cannonsburg Fire/ Boyd County Schools

Todd Kelley Ashland Police Department Tom Kelley Mayor – City of Ashland

Bill Musick Fairview Schools

Scott Penick Ashland Fire Department

Jim Purgerson Ashland Alliance

Robert Ratliff City of Ashland Police Department

Mike Rogers Ashland Bus System

Nickie Smith Boyd County

Bud Stevens Boyd County Fiscal Court

Allen Blair KYTC D9
Bart Bryant KYTC D9
Rachel Catchings KYTC D9
Jason Dean KYTC D9

J.R. Ham KYTC Central Office

KYTC D9 Phil Maunev Deanna Miller KYTC D9 Danny Mineer KYTC D9 Karen Mynhier KYTC D9 Robyn Ramey KYTC D9 Daran Razor KYTC D9 Terri Sicking Ashland MPO Randi Vint KYTC D9 **Brent Wells** KYTC D9 Brian Aldridge **ENTRAN** Jason Bricker **ENTRAN** 

Glenn Hardin ENTRAN Ashley Williams ENTRAN

The meeting began at approximately 12:00 p.m. Brent Wells began the meeting with a brief introduction. Brian Aldridge, Project Manager for ENTRAN, delivered a presentation that provided a recap of the second public meeting, discussion and evaluation of the long-range corridor alternatives, and the preliminary recommendations from the study.

# **Public Meeting #2**

The second public meeting was held on November 18 at the Park Place Building (formerly the AEP Building) in downtown Ashland. A total of 55 attendees signed in during the course of the evening.

Public meeting attendees were asked to mark "trouble spots" on maps of the study area. Areas that were identified included the following:

- US 60/KY 180 intersection
- Portions of US 60 lacking turn lanes
- US 60/KY 168 intersection
- US 60 interchange at Coalton (exit 181)
- US 60 near Downtown Ashland
- Portions of KY 5 near Bellefonte

On the same maps, attendees were asked to draw new transportation corridors they believed should be considered or existing corridors in need of significant improvement. The following new corridors were identified:

- Connector between US 60 near Princess to US 60 north of the Kyova Mall (near Meads)
- Connector between US 60 near Meads to US 23 at KY 5
- Connector between US 60 near Winslow (south of Rose Hill cemetery) to US 23 east of Town Mall or at KY 168

Brian discussed the findings from the 27 completed surveys that were returned. The surveys asked a series of questions concerning existing transportation deficiencies, travel routes, and improvement options. The US 60 intersection with KY 168 (Blackburn Street) and US 60 (13<sup>th</sup> Street) in Ashland were the primary trouble spots included in the responses. With respect to improvement options, 10 surveys indicated a new route, 7 indicated improving existing facilities, and 15 indicated a combination of improvements to existing facilities and new corridors were the most desirable options. When asked which I-64 interchange was used most frequently, 18 respondents said they utilized the Coalton interchange most frequently and 13 said they used the KY 180 interchange most frequently. It was noted that the KY 180 interchange was (and is) undergoing reconstruction, possibly skewing the responses.

When asked where a new connector should connect to US 60, 12 respondents indicated a connection near Princess would be desirable, 7 said near Rose Hill, and 5 said near Armco Park. On where a new connection with US 23 should occur, 13 respondents near Town Mall, 7 near Melody Mountain, 7 near KY 5, and 1 near KY 168.

When asked what was most important when considering a new road, 80 percent of the respondents indicated traffic relief was important, followed by impacts to residential properties, 73%, and impacts to businesses, at 50%. With respect to ranking existing transportation issues in the area from 1 to 5, with 5 indicating it is a serious problem, traffic congestion was rated as the most significant issue, with an average rating of 4.4. Pedestrian safety and a lack of turn lanes were the second highest rated issues, with an average rating of approximately 4.0. Improved truck routes and vehicle safety were also rated high, with an average rating of approximately 3.9.

A map was provided on the survey and respondents were asked what route they would use to travel between two identified locations within the study area. The first two locations were from US 23 near Town Mall to US 60 at the KY 538 (Shopes Creek Road) intersection. Sixteen respondents indicated they would travel through downtown Ashland to US 60 to reach the destination, five said they would use KY 168 to US 60, and two said they would use Roberts Drive. The second set of locations began at US 23 just west of the KY 168 intersection and ended at the same location on US 60, near the KY 538 intersection. Nine respondents said they would use KY 5 for a portion of their trip, six said they would drive through downtown Ashland, three said they would use KY 168 to access US 60, and three said they would use a combination of KY 168 and Roberts Drive. These results indicate that people utilize a variety of routes when traveling to and from US 23 west of Ashland.

#### **Traffic Forecasts**

Brian discussed the preliminary traffic forecasts developed for the study. He noted that the regional travel demand model, covering all of Boyd and Greenup County, has been recently updated. The updated travel demand model was made available for use in the study in late April. The updated model includes revised socioeconomic data forecasts. The revised data include a 0.5 percent decline in population for Boyd County between the 2007 base year and 2030. However, employment growth is higher in the updated model, with an increase of 45.4 percent anticipated by 2030. Negative employment growth is anticipated southwest of Ashland and near Catlettsburg, but significant growth is anticipated elsewhere in the study area and near Russell.

In general, the 2030 traffic volumes forecast by the updated travel demand model tend to be similar to or lower than existing traffic volumes within the study area. However, the model predicts strong growth along I-64, KY 180 and portions of US 60 south of Ashland.

Brian discussed four conceptual alternatives developed to estimate future traffic volumes and impacts to US 60. The current draft of the Six Year Highway Plan includes widening US 60 from the Coalton interchange to KY 180, and it was decided that this should be considered as an alternative for the purposes of this study (as proposed in Alternative 4). These new or improved corridors, developed based on input provided by the Advisory Committee or the public, and their anticipated range of 2030 traffic volumes based on the updated model are as follows:

- Alternative 1 (Princess Connector): connecting US 60 near Princess through the Paul Coffey Industrial Park to US 60 north of the Kyova Mall 11,200 vehicles per day
- Alternative 2 (Bellefonte Connector): connecting US 60 north of Armco Park to KY 5 near Bellefonte -13,000 to 17,000 vehicles per day
- Alternative 3 (Westwood Connector): connecting US 60 north of Armco Park to US 23 east of Town Mall 9,200 to18,500 vehicles per day
- Alternative 4 widening US 60 to four lanes from I-64 to KY 180 17,900 to 19,000 vehicles per day

It was noted that all alternatives are anticipated to increase traffic on US 60 north of the Coalton interchange, with Alternative 4 resulting in the highest increase of nearly 78 percent. Alternative 3 resulted in the highest decrease in traffic along US 60 through downtown Ashland with a 10 percent reduction in traffic. Most alternatives will reduce traffic on the south end of KY 5 near Princess, and the impacts on KY 168 and Roberts Drive vary for each alternative.

Brian indicated that after previous discussions with the Study Team, it was decided that a combination of Alternative 1 and Alternative 3 (referred to as Alternative 5) should be examined for anticipated traffic impacts. In an effort to improve safety and mobility along 13<sup>th</sup> Street, it was decided to include in this alternative a "road diet" option for US 60 north of Rose Hill, restriping the existing four-lane section as a three-lane to provide two travel lanes (one per direction) and a continuous center left turn lane. This scenario, which assumes US 60 would be widened to four lanes between I-64 and the Princess Connector, increased traffic on the Princess Connector and reduced traffic on US 60/13<sup>th</sup> Street through downtown Ashland. The resulting volumes through the downtown area appear to be low enough that US 60 could be

re-striped as a three-lane section.

#### **Long-Range Improvement Options**

Brian presented maps depicting the preliminary long-range corridor alternatives (see attached). It was noted that although potential alignments were shown on the maps, each should be considered as much wider corridors inside which one or more alignments are feasible for implementation. Alternative 1 resembles the Princess Connector, connecting US 60 near Princess to US 60 north of Kyova Mall. Two options were shown for Alternative 1. The first, Alternative 1A, parallels the CSX rail line to the west. The second, Alternative 1B, would roughly follow the existing Paul Coffey Boulevard route as it departs US 60 on the south end.

Two options for Alternative 2 were depicted. Alternative 2A departs US 60 near KY 766 (Bob McCullough Drive), just north of Armco Park. The corridor follows KY 766 to the west, turning northwest towards KY 5. Alternative 2B begins on US 60 at the same location as Alternative 2A, but heads northwest towards KY 5 rather than following KY 766. Both alternatives tie into KY 5 just south of US 23.

Several options were presented for Alternative 3. On the south end, Alternative 3A connected to US 60 at KY 766 (Bob McCullough Drive) and Alternative 3B connected to US 60 about midway between KY 766 and KY 1134 (Winslow Road). Both Alternative 3A and 3B roughly followed existing Roberts Drive corridor to north of KY 168 and then provided four different locations for a terminus at US 23, with one alternative connecting to US 23 east of Town Mall (Alternative 3A), one connecting to US 23 at the existing traffic signal near Melody Mountain (Alternative 3C), one connecting to US 23 midway between the traffic signals at Melody Mountain and KY 168 (Alternative 3D), and one alternative connecting to US 23 at the KY 168 intersection (Alternative 3E).

#### **Evaluation Exercise**

The ACAT members were divided into small groups and asked to evaluate the alternatives that had been previously shown. With the detailed alternative corridor maps at each group's table, they were asked to reach a consensus on which alternatives should be considered as part of the study and if any additional alternatives should be added. They each completed a group evaluation form based on their discussions. The following summarizes the four groups' conclusions for the alternatives evaluation exercise.

<u>Alternative #1:</u> Three of the four groups felt that Alternative 1 should not be considered. One group stated that the negative land impacts were reasons to exclude the alternative. Another stated that it would be less expensive to widen US 60 through the Princess area instead of carrying Alternative 1 forward.

<u>Alternative #2:</u> All groups decided that Alternative 2 should not be considered. Reasons included the relatively high costs anticipated, the distance away from the city, and the limitations to segment the construction phases. One group expressed that the widening of US 60 through the area was unnecessary.

Alternative #3: Every group felt that Alternative 3 should be considered, however, each group had different preferences as to which variation of Alternative 3 was preferred. One group expressed concerns with Alternative 3A because of the possible increase in congestion around the Town Mall. Alternatives 3A, 3B, 3C, 3D, and 3E were mentioned by one or more groups as being the preferred choice for Alternative 3. A comment was given by one of the ACAT members regarding the ability of Alternative 3 to be constructed in multiple phases. The possibility of bike trails along the Alternative 3 corridor was also mentioned.

Alternative #4: Alternative 4 was discussed amongst the groups as already being in the Six-Year Highway Plan and it was decided by all groups that it should remain as a considered Alternative for the study.

<u>Alterative #5:</u> The decision to consider Alternative 5 was split amongst the four groups. The groups that expressed strong opposition to Alternative 1 were also against Alternative 5.

No additional corridor alternatives were discussed as part of the group evaluation exercise.

The second part of the evaluation exercise involved rating specific evaluation criteria to be used in the evaluation of the study alternatives. Each criterion was to be rated from 1 to 5, with 5 being the most important and 1 being the least important. The groups were also asked to add any criteria that they felt should be considered. The following table summarizes the results of the exercise:

Evaluation Criterion	Average Rating
Divert traffic from existing US 60	4.4
Minimize Cost	3.5
Minimize the number of residential relocations	3.5
Minimize the number of business relocations	4.0
Public input/support	4.3
Minimize community disruption	3.5
Provide improved access to the industrial park	2.5
Minimize environmental impacts	3.4

The majority of the criteria listed were given high ratings, with "Divert traffic from existing US 60" and "Public input and support" receiving the highest ratings. Only one group gave the "Provide improved access to the industrial park" criterion a high rating.

#### **Short-Term Improvement Projects**

Brian presented a preliminary list of short-term improvement projects, or "spot" improvements, that can be implemented in the nearer term and at a lower cost than the long-range alternatives. These projects, most of which were developed to improve traffic safety, are as follows:

#### Intersection Reconstruction

<u>US 60 at KY 180</u>: This intersection lies in a curve along KY 180 and US 60, and the design resulting in significant superelevation (i.e. banking of the roadway) to accommodate the travel speeds. The improvement is to reconstruct the north-south approaches to decrease the amount of necessary superelevation.

<u>KY 168 at Roberts Drive:</u> There is an at-grade crossing of the CSX rail line on KY 168 immediately west of the Roberts Drive intersection. This grade crossing is at a much higher elevation than the street approaches, resulting in poor sight distance. The improvements it to raise the grades on KY 168 and Roberts Drive to better match the elevation of the grade crossing.

<u>US 60 at KY 168 (Blackburn Avenue):</u> The US 60 approaches to this five-legged intersection are skewed as buildings are located adjacent to the right-of-way at the southwest and northeast corners. The building located in the southwest corner is eligible for inclusion on the National Register of Historic Properties. The improvement is to realign the US 60 approaches by moving the US 60 alignment slightly to the east, resulting in the removal of the building (or portions of the building) on the northeast corner. It was suggested that closing the Algonquin Avenue approach, which forms the fifth leg of the intersection to the southwest, be given consideration.

## Median Reconstruction

<u>US 60 between KY 716 and KY 1012 (Boy Scout Road):</u> This section of US 60 has a raised, traversable median and is fronted by various commercial developments. The "roll"

curb forming the raised median causes some drivers to slow significantly before mounting the median. Approximately 25 percent of the crashes that occurred over the past five years were angle crashes (involving one or more turning vehicles) and another 40 percent were rear end crashes. The improvement is to replace the traversable median with a non-traversable median with selective median openings and turn lanes.

# Addition of Turn Lane(s)

<u>US 60 at Paul Coffey Boulevard:</u> The improvement is to add a northbound left-turn lane and a southbound right-turn lane to better accommodate truck traffic.

<u>US 60 at KY 716 (Summitt Road):</u> Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a southbound right-turn lane.

<u>US 60 at KY 1012 (Boy Scout Road):</u> Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a northbound right-turn lane.

<u>US 60 at KY 766 (Bob McCullough Drive):</u> Right-turning traffic at this intersection sometimes uses the shoulder to decelerate while moving out of the traffic stream. The improvement is to add a southbound right-turn lane.

## Signage Improvement

<u>US 60 (13th Street)</u> approaching downtown Ashland: As drivers are approaching the 13th Street intersection with US 23, there is no signage to indicate which lanes lead to the bridge to Coal Grove, OH. However, opportunities for improved signage are limited. The improvement is to provide overhead signage directing bridge traffic to use the middle lanes and traffic destined for northbound US 23 (Winchester Avenue) to use the left lane.

It was noted that consideration had been given to restriping the northbound 13<sup>th</sup> Street approach to provide a left-turn only and shared through and left-turn lane for traffic turning left onto northbound Winchester Avenue. Additional signage improvements were suggested for US 23 to better direct traffic through downtown Ashland.

#### **Public Meeting #2**

There was some discussion regarding the time and location for the second public meeting for the Ashland Connector study. Brian stated that the meeting should occur within the next month, if possible. Dates and locations were discussed, and it was decided the meeting would be held on Thursday, November 18 at Park Place (formerly known as the American Electric Power building) on Central Avenue in downtown Ashland. Meeting flyers and study questionnaires will be mailed to the ACAT members for distribution prior to the meeting.

The meeting adjourned at approximately 2:00 p.m. The next ACAT meeting will be scheduled at a later date.

# Elected/Public Officials Meeting #1 I-64 to US 23 Ashland Connector Item # 9-129.00 Ashland Central Fire Station September 25, 2007

10:00 am

A local officials meeting for the I-64 to US 23 Ashland Connector Project (Item No. 9-129.00) was held on Tuesday, September 25, 2007 at 10:00 a.m. in the Ashland Central Fire Station in downtown Ashland. The purpose of the meeting was to discuss the draft project purpose and need, project issues, existing conditions, and upcoming public involvement activities with the local elected officials. Attendees for the meeting are listed below:

Steve Corbitt Ashland City Manager

Bud Stevens Boyd County Judge Executive
David Salisbury Boyd County Commissioner

Kyle Weatherholt FIVCO ADD

John D. Clarke Boyd County Deputy Judge Executive

J.R. Reed Cong. Geoff Davis's Office Paula Hogsten Ashland City Commissioner Cheryl Spriggs Ashland City Commissioner

Marion Russell City of Ashland Public Works Director

Keith A. Robinette Boyd County

Deanna Miller KYTC D9 Planning Sandy Caudill Mattox KYTC D9 Permits

Darrin Eldridge KYTC D9 Pre-Construction

Karen Mynhier KYTC D9 Environmental Coordinator

Robyn Ramey KYTC D9 Right of Way Jack Litton KYTC D9 Right of Way

Vickie Griggs KYTC D9 Traffic

Katrina Bradley KYTC D9 Executive Director JR Ham KYTC Central Office Planning

Brian Aldridge ENTRAN, PLC Brian Cash ENTRAN, PLC

Deanna Miller, KYTC's Project Manager, began the meeting with introductions and then introduced Brian Cash, Project Manager for ENTRAN. Mr. Cash delivered a brief presentation that provided an overview of the project. This project is in the planning study phase with the main objective to identify issues in the study area, establish projects for advancement in the Cabinet's Six Year Highway Plan, and initiate public involvement activities. The various elements of the planning study were explained.

The approximate study area boundary was described. The southern portion of the study area includes I-64 between the US 60 and KY 180 interchanges. To the east, the study area follows KY 180 and then US 60 north to US 23. To the west, the boundary begins following US 60 to Princess, then proceeds northeast to Greenup County line near Bellefonte and follows the county line to US

23. This study does not include any portion of Greenup County. This study is on an approximate 18 month schedule to be completed by December of 2008.

The purpose of the project was explained as follows:

The purpose of the I-64 to US 23 Ashland Connector Study is to identify community concerns and evaluate project alternatives to improve access and mobility between I-64 and Ashland. The study is intended to help define the location and purpose of the project and better meet Federal requirements regarding consideration of environmental issues, as defined in the National Environmental Policy Act (NEPA).

It was discussed that historically, this project has been perceived as a single new corridor connecting I-64 and US 23. However, this study is looking at a more comprehensive approach that may result in a number of projects to be pursued. The ultimate recommendations may include a combination of smaller improvement projects and segment(s) of new roadway. The smaller projects could be programmed and constructed in a shorter timeframe while any new construction (which will likely be significantly more costly) would take many years to be studied and implemented. This study has a clean slate and no preconceived notions as to what improvements (if any) should be pursued. A series of graphics that depicted the existing conditions within the study area, including existing traffic and the recent crash history along the study area roads was presented.

Brian Cash and Brian Aldridge then began a facilitated exercise to gather input from the local officials. A series of questions were asked of the group with a discussion period following each. The section below includes a summary of the discussions.

Question 1: What are the most significant transportation issues that exist within the study area?

- US 60 north of KY 168
  - o Traffic speeds
  - o Truck volumes (hazardous material trucks)
- Maintaining traffic while construction us underway
- Need for turn lanes along US 60
- Town Center Mall traffic
- Need for modal alternatives

Question 2: What are the most significant non-transportation issues that exist within the study area?

- Impacts to low-income communities (Environmental Justice)
- Impacts to communities (particularly relocations) that exhibit a high level of community cohesion
- Potential for diverting traffic away from existing commercial areas

*Question 3: Where are the "trouble spots" within the study area?* 

- US 60
  - o Traversable median south of Ashland (turning traffic and signage in median)
  - o Intersection of US 60 (13<sup>th</sup> Street) and KY 168 (Blackburn Avenue)
  - o Intersection of US 60 and KY 180

- o Near the State Police Barracks and Borders' stores
- US 23
  - o Near the Town Center Mall
  - o West of the new Wal-Mart
  - o 47<sup>th</sup> Street Park
- Roberts Drive
  - o Near the intersection of Roberts Drive and KY 168 (sight distance).
  - During the recent closure of Roberts Drive due to the bridge replacement there were problems with traffic diversion onto US 60 and other surrounding streets.
- Other
  - There are connectivity issues in Westwood and Fairview. The County has discussed improving the streets in the past

Question 4: If a new corridor is pursued or major reconstruction is to occur, are there locations that should be avoided?

- Several areas have been mined; subsidence near the Paul Coffey Industrial Park
- Landfill area near Coalton
- Low-lying areas that flood are present

Question 5: If a new corridor is pursued, where should it connect?

- To US 60
  - o New alignment north of Princess that parallels the CSX railroad line
  - o New alignment beginning south of Rose Hill, west of existing US 60
- To US 23
  - o Near the bridge west of the Town Center Mall
  - o Near the KY 168 intersection

The meeting was concluded by discussing the Public Involvement Plan. There are approximately 20 meetings planned over the course of the study. The public involvement will be led by an Advisory Team consisting of approximately 15 to 20 members representing a cross section of the study areas stakeholders, such as representatives from local government, potentially affected communities, and emergency response agencies. The group was asked to consider who should serve on the Advisory Team and to let Deanna Miller know their recommendations or if they would like to serve on the committee. A few names were mentioned, including Charles Holbrook, local bicycle coordinator, the state police and Boyd County Sheriff, and other emergency management personnel. The meeting adjourned at approximately 11:30 a.m.

Action Items
Local officials to assist in selecting Advisory Committee members

ASAP

# Boyd County Planning Study I-64 to US 23 Ashland Connector Item # 9-129.00

# **Public Information Meeting #1 Minutes**

Kyova Mall April 24, 2008 4:00 – 7:00 pm

A public information meeting for the I-64 to US 23 Connector project was held on Thursday, April 24, 2008 from 4:00 to 7:00 pm at the Kyova Mall in Ashland. The purpose of the meeting was to inform the public of the planning study, discuss various environmental and technical issues concerning the project area, and solicit input from the public. The following individuals from the Kentucky Transportation Cabinet and the consultant staff were in attendance:

VVTC DO

Alleli blair	KIIC D9
Darrin Eldridge	KYTC D9
Lisa Grimes	KYTC D9
Robin Ramey	KYTC D9
Jim Wilson	KYTC Central Office
J.R. Hamm	KYTC Central Office
Mike deVilliers	ENTRAN, PLC

Jason Bricker ENTRAN, PLC
Glenn Hardin ENTRAN, PLC
Tom Creasey ENTRAN, PLC
Brian Cash ENTRAN, PLC

The public information meeting was held in an open house format with display boards. KYTC and consultant staff were available to answer questions and discuss issues. Forty five (45) members of the public attended the meeting. A sign in table was set up where attendees signed in and were given a project brochure, meeting handout, and questionnaire. The following project exhibits were on display:

- Project Study Area

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- Traffic and Safety
- Environmental Resources
- Advisory Committee Trouble Spots
- Advisory Committee Improvements (Potential Corridors)
- KYTC Planning process
- Six year plan projects
- Aerial Map of Study Area with pictures

A table was set up with environmental footprint maps for attendees to draw on. Markers were provided and attendees were asked to draw existing trouble spots and potential new corridor locations. Five attendees drew on the maps. Areas identified include:

#### **Trouble Spots**

- US 60 and KY 180 intersection
- Lack of turn lanes at various locations along US 60
- US 60 and KY 168 intersection
- I-64 Coalton Interchange
- US 60 in Downtown Ashland
- KY 5 in Bellefonte

#### **Potential Corridors**

- New Connector from Princess to US 60 near Meads
- New Connector from US 60 near Meads to US 23 at KY 5
- New Connector from US 60 at Winslow to Town Mall or KY 168

A total of 30 questionnaires were returned from the meeting and the Advisory Team. The results of the questionnaire are summarized below:

- 1. Do You Live\ Work\ Drive through the study area?
  - a. 19 Live
  - b. 13 Work
  - c. 17 Drive
- 2. Top Three Trouble Spots
  - a. US 60 and KY 168 intersection
  - b. 13<sup>th</sup> Street within City Limits (Rose Hill to US 23)
  - c. Various
- 3. Which type of improvement do you think would be most beneficial?
  - a. 10 New Route
  - b. 7 Existing Road Improvements
  - c. 15 Combination of the Two
- 4. Which I-64 Interchange do you most frequently use?
  - a. 13 KY 180 (Exit 185)
  - b. 18 US 60 (Exit 181)
- 5. If a new route is built, would you use it:
  - a. 8 Daily
  - b. 7-3 to 4 per week
  - c. 6-1 to 2 per week
  - d. 7 3 to 4 per month
  - e. 0-1 time per month
  - f. 1 -Rarely or never
- 6. If a new Connector is built where should it begin on:

US 60?

- a. 12 Princess Area
- b. 7 Near Rose Hill
- c. 5 Near Arco Park
- d. 1 Other

#### US 23?

- a. 13 Near Town Mall
- b. 7 Near Melody Mountain
- c. 1 Near KY 168
- d. 7 Near KY 5
- e. 1 Other
- 7. Which of the following are the most important when considering a new route?
  - a. 73% Personal property or homes
  - b. 50% Businesses/Commercial Property
  - c. 17% Natural areas of habitats
  - d. 23% Historic or Cultural sites
  - e. 17% Hazardous or monitored sites
  - f. 80% Traffic Relief
- 8. Please rate the following issues (1 = no problem and 5 = serious problem)
  - a. 4.4 Traffic Congestion
  - b. 3.8 Vehicle Safety
  - c. 4.0 Pedestrian Safety
  - d. 3.1 Lack of Access to Businesses
  - e. 4.0 Lack of Turn Lanes
  - f. 3.1 Too Many Entrances
  - g. 3.4 Lack of Bicycle Facilities
  - h. 2.4 Need for Additional Bus Routes
  - i. 3.9 Need for Improved Truck Route
- 9. How would you get from Point A (**NEAR TOWN MALL**) on US 23 TO Point B at US 60 near Meads?
  - a. 16 Utilize US 23 to US 60 (Downtown Ashland)
  - b. 5 Utilize KY 168 to US 60
  - c. 2 Utilize Roberts Drive to Rose Hill
- 10. How would you get from Point A (**BETWEEN KY 168 and KY 5**) on US 23 TO Point B at US 60 near Meads?
  - a. 9 Utilize KY 5 to Summit Area
  - b. 6 Utilize US 23 to US 60 (Downtown Ashland)
  - c. 4 Utilize KY 168 to US 60
  - d. 3 Utilize KY 168\/Roberts Drive to Rose Hill

Several additional comments were also received as part of the questionnaire. These included concerns about speeding on US 60, access to existing businesses, and lack of bicycle and pedestrian facilities in the corridor. In general, the majority of the comments were positive and supported improvements in the study area.



# Ashland Connector Study I-64 to US 23

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#### Boyd County Planning Study I-64 to US 23 Ashland Connector

Item # 9-129.00

Public Information Meeting #2 Summary Park Place Building November 18, 2008 5:00 – 7:00 pm

A public information meeting for the I-64 to US 23 Connector study was held on Tuesday, November 18, 2008 from 5:00 to 7:00 pm at the Park Place Building, formerly the AEP Building, in Ashland. The purpose of the meeting was to identify community concerns and evaluate study alternatives to improve access and mobility between I-64 and Ashland. The following individuals from the Kentucky Transportation Cabinet and the consultant staff were in attendance:

Allen Blair	KYTC D9
Darrin Eldridge	KYTC D9
· ·	
Lisa Grimes	KYTC D9
J.R. Hamm	KYTC Central Office
Phil Mauney	KYTC D9
Danny Mineer	KYTC D9
Robin Ramey	KYTC D9
Randi Vint	KYTC D9
Brent Wells	KYTC D9
Brian Aldridge	ENTRAN, PLC
Jason Bricker	ENTRAN, PLC
Glenn Hardin	ENTRAN, PLC
Antonio Pousa	ENTRAN, PLC
Ashley Williams	ENTRAN, PLC

The public information meeting was held in an open house format with display boards. KYTC and consultant staff were available to answer questions and discuss issues. A sign in table was set up where attendees signed in and were given a meeting brochure and questionnaire. Based on the sign-in sheets, approximately 55 members of the public attended the meeting. The following project exhibits were on display:

- KYTC Planning Process
- Project Study Area
- Traffic and Safety
- Environmental Resources
- Ashland Connector Advisory Committee Trouble Spots
- Ashland Connector Advisory Committee Improvements (Potential Corridors)
- Six-Year Plan Projects
- Aerial Map of Study Area with pictures
- Public Meeting #1 Identified Trouble Spots and Proposed Corridors
- Potential Short-Term Improvement Options
- Potential Long-Range Corridor Alternatives
- Alternative Corridors with Aerial Background (2)

Nine (9) questionnaires were returned at the meeting and 18 more were submitted after the meeting. The results of these questionnaires are summarized below:

#### **Short-Term Transportation Improvements**

Should the following improvements be considered in the final recommendations?

Intersection Reconstruction:

- 1. US 60 at KY 180?
  - 12 Yes
  - 10 No
- 2. US 60 at KY 168 (Blackburn Ave.)?
  - 22 Yes
  - 3 No
- 3. KY 168 (Blackburn Ave.) at Roberts Drive?
  - 18 Yes
  - 5 No

Median Reconstruction:

- 4. US 60 between KY 716 and KY 1012?
  - 11 Yes
  - 7 No

Addition of Turn Lane(s):

- 5. US 60 at Paul Coffey Boulevard?
  - 20 Yes
  - 4 No
- 6. US 60 at KY 716 (Summitt Rd.)?
  - 20 Yes
  - 3 No
- 7. US 60 at KY 1012 (Boy Scout Rd.)?
  - 17 Yes
  - 8 No
- 8. US 60 at KY 766 (Bob McCullough Dr.)?
  - 17 Yes
  - 7 No

Signage Improvement:

- 9. US 60 (13<sup>th</sup> St.) approaching downtown?
  - 21 Yes
  - 3 No

Additional short-term improvements that were provided include consideration of right-turn lanes at the US 60/KY 180 intersection and turn lanes for Paul Blazer High School.

#### **Long-Range Corridor Alternatives**

Which long-range corridor alternative do you feel should be carried forward for further consideration?

- 1. Alternative 1: Princess Connector
  - 7 Yes
  - 14 No
  - If Yes, which option do you prefer?
    - 5 Alternative 1a
    - 0 Alternative 1b
- 2. Alternative 2: Bellefonte Connector
  - 9 Yes
  - 12 No
  - If Yes, which option do you prefer?
    - 2 Alternative 2a
    - 7 Alternative 2b
- 3. Alternative 3: Westwood Connector
  - 17 Yes
  - 2 No
  - If Yes, which option(s) do you prefer?
    - 9 Alternative 3a
    - 4 Alternative 3b
    - 6 Alternative 3a-3c
    - 5 Alternative 3a-3d
    - 2 Alternative 3a-3e
    - 1 Alternative 3b-3c
    - 1 Alternative 3b-3d
- 4. Alternative 4: Widen US 60 between I-64 and KY 180
  - 9 Yes
  - 10 No
- 5. Alternative 5: Restripe US 60 between Rose Hill and downtown Ashland to a 3-lane section (this alternative will work in combination with Alternative 2 or 3)
  - 14 Yes
  - 6 No

One additional long-range corridor was suggested, but it is located outside the study area. It included a new I-64 interchange east of the KY 180 interchange. An additional comment was received as part of the questionnaire. The comment addressed the desire for bicycle and pedestrian paths to be included along the chosen corridor alignment. In general, the majority of the comments were positive and supported improvements in the study area.



### Boyd County Planning Study 1.6419 US 23 Ashland Connector Item No. 49-128.00 Public Meeting A2 11/18/08



## Sign-in Sheet

No Name	Title, Business, Agency, or Organization (if applicable)	Address	Phone (optional)
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# Boyd County Planning Study 1.64 to US 23 Ashland Connector Item No. 48-128.00 Public Mentiny #2 11/18/08



## Srgn-in Sheet

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### Boyd County Planning Study 164 to US 23 Ashland Counctor 16m No. 1942 900 Public Meeting 42 11/18/08



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### Appendix B – Roadway Inventory

#### I-64 to US 23 Ashland Connector Scoping Study Existing Roadway Characteristics

State Route	Begin MP	Begin Intersection	End MP	End Intersection	Segment Length (mi.)	Functional Class	Terrain Type	Posted Speed Limit	Number of Lanes	Lane Width (ft.)	Divided / Undivided Roadway	Median Type	Shoulder Type	Outside Shoulder Width (ft.)	Truck Weight Class	National Truck Network (NTN)	Current ADT
	0.000	US 60	0.131	Old Princess Road	0.131	Rural Major Collector	Rolling	55	2	11	Undivided	None	Paved w/ Bituminous Material	9	А	No	3,020
	0.131	Old Princess Road	1.455	Straight Creek	1.324	Rural Major Collector	Rolling	55	2	11	Undivided	None	Combination	2	Α	No	3,020
	1.455	Straight Creek	1.537	Straight Creek	0.082	Rural Major Collector	Flat	55	2	11	Undivided	None	Combination	2	Α	No	3,020
	1.537	Straight Creek	3.763	KY 503	2.226	Rural Major Collector	Rolling	55	2	11	Undivided	None	Combination	2	AA	No	3,020
	3.750	KY 503	4.794	KY 3293	1.044	Rural Major Collector	Rolling	55	2	11	Undivided	None	Combination	2	AA	No	2,940
KY 5	4.794	KY 3293	4.861		0.067	Rural Major Collector	Rolling	55	2	11	Undivided	None	Combination	2	AA	No	4,340
l Ki S	4.861		6.450	SWUL Ashland	1.589	Rural Major Collector	Rolling	45	2	11	Undivided	None	Combination	2	AA	No	4,340
	6.450	SWUL Ashland	6.862	KY 716 / Metcalf Road	0.412	Urban Minor Arterial	Rolling	45	2	11	Undivided	None	Combination	2	AA	No	4,340
	6.862	KY 716 / Metcalf Road	9.104	KY 1458	2.242	Urban Minor Arterial	Rolling	45	2	11	Undivided	None	Combination	2	AA	No	8,270
	9.104	KY 1458	10.227	Jane Hill Road	1.123	Urban Minor Arterial	Rolling	45	2	11	Undivided	None	Combination	2	AA	No	8,090
	10.227	Jane Hill Road	10.334	Greenup-Boyd Co. Line	0.107	Urban Minor Arterial	Rolling	35	2	11	Undivided	None	Combination	2	AA	No	8,090
	10.334	Greenup-Boyd Co. Line	10.781	US 23	0.447	Urban Minor Arterial	Rolling	35	2	11	Undivided	None	Combination	2	AA	No	7,400
	0.000	KY 3	0.035		0.035	Rural Major Collector	Rolling	55	2	10	Undivided	None	Combination	6	AAA	No	8,110
	0.035		0.335		0.300	Rural Major Collector	Rolling	55	2	10	Undivided	None	Combination	3	AAA	No	8,110
	0.335		0.350		0.015	Rural Major Collector	Rolling	55	2	10	Undivided	None	Combination	10	AAA	No	8,110
	0.350		0.380		0.030	Rural Major Collector	Rolling	55	2	11	Undivided	None	Combination	10	AAA	No	8,110
	0.380		0.390		0.010	Rural Major Collector	Rolling	55	2	11	Undivided	None	Paved w/ Bituminous Material	7	AAA	No	8,110
	0.390		0.515		0.125	Rural Major Collector	Rolling	55	2	11	Divided	Flush	Paved w/ Bituminous Material	7	AAA	No	8,110
KY 180	0.515		0.627	South on-ramp to I-64	0.112	Rural Major Collector	Rolling	55	2	11	Undivided	None	Paved w/ Bituminous Material	7	AAA	No	8,110
	0.627	South on-ramp to I-64	0.637		0.010	Rural Major Collector	Rolling	55	2	11	Undivided	None	Paved w/ Bituminous Material	7	AAA	Yes	8,110
	0.637		0.800	I-64	0.163	Rural Principal Arterial	Rolling	55	2	11	Undivided	None	Combination	10	AAA	Yes	8,110
	0.800	I-64	1.075		0.275	Rural Principal Arterial	Rolling	55	2	11	Undivided	None	Combination	10	AAA	Yes	13,500
	1.075		1.365	KY 3291	0.290	Rural Principal Arterial	Rolling	55	4	11	Divided	Depressed	Combination	10	AAA	Yes	13,500
	1.365	KY 3291	1.382		0.017	Urban Principal Arterial	Rolling	55	4	11	Divided	Depressed	Combination	10	AAA	Yes	13,500
	1.382		2.518	KY 3294 / US 60	1.136	Urban Principal Arterial	Flat	55	4	11	Divided	Depressed	Combination	10	AAA	Yes	13,500
	0.000	Cartar-Payd Co. Lina	0.195	I-64	0.195	Rural Major Collector	Flat	FF	2	11	Divided	Raised Non-Mountable	Paved w/ Bituminous Material	10	AAA	No	4,650
	0.000	Carter-Boyd Co. Line	0.195	I-04 	0.195	Rural Major Collector	Flat	55 55	2	11	Divided	Raised Non-Mountable	Paved w/ Bituminous Material	10	AAA	No	12,700
	0.195	I-04 	0.400		0.205	Rural Major Collector	Flat	55 55	2	11	Undivided	None	Paved w/ Bituminous Material	10	AAA	No	12,700
	0.465		2.110	Williams Creek Bridge	1.645	Rural Major Collector	Flat	55	2	11	Undivided	None	Combination	10	AAA	No	12,700
US 60	2.110	Williams Creek Bridge	2.110		0.005	Rural Major Collector	Rolling	55	2	11	Undivided	None	Combination	10	AAA	No	12,700
	2.115		2.339	KY 5	0.224	Rural Major Collector	Rolling	55	2	12	Undivided	None	Paved w/ Bituminous Material	10	AAA	No	12,700
	2.339	KY 5	2.440	Virginia Boulevard	0.101	Rural Major Collector	Rolling	55	2	12	Undivided	None	Paved w/ Bituminous Material	10	AAA	No	14,000
	2.440	Virginia Boulevard	3.796		1.356	Rural Major Collector	Rolling	55	2	12	Undivided	None	Combination	12	AAA	No	14,000
1	2. 740	viigiilia Dodiovala	0.700		1.000	. tarai major concolor				1.2	Charvided	110110	Combination	'-	,,,,,,	1.40	. 1,000

6.00 6.55 7.02 7.20 7.62 7.66 8.07	.023 KY 180 .000555 KY 538 .020200620665 Misty Lane .070220617 KY 1012	4.023 6.000 6.555 7.020 7.200 7.620 7.665 8.070 8.220 8.617	KY 180 KY 538 Misty Lane	0.227 1.977 0.555 0.465 0.180 0.420 0.045 0.405	Urban Minor Arterial Urban Principal Arterial	Rolling Rolling Rolling Rolling Rolling Rolling Rolling	55 55 55 55 55 55	2 4 4 4 4	12 12 12 12	Undivided  Divided  Divided  Divided	None Depressed Depressed Depressed	Combination  Paved w/ Bituminous Material  Paved w/ Bituminous Material  Paved w/ Bituminous Material	12 10 10 10	AAA AAA AAA	No Yes Yes Yes	14,000 27,900 27,800 28,700
6.00 6.55 7.02 7.20 7.62 7.66 8.07	.000555 KY 538 .020200620665 Misty Lane .070220617 KY 1012	6.555 7.020 7.200 7.620 7.665 8.070 8.220 8.617	KY 538 Misty Lane	0.555 0.465 0.180 0.420 0.045 0.405	Urban Principal Arterial	Rolling Rolling Rolling Rolling	55 55 55	4	12 12	Divided	Depressed	Paved w/ Bituminous Material	10	AAA	Yes	27,800
7.02 7.20 7.62 7.66 8.07 8.22	.555 KY 538 .020200620665 Misty Lane .070220617 KY 1012	7.020 7.200 7.620 7.665 8.070 8.220 8.617	Misty Lane	0.465 0.180 0.420 0.045 0.405	Urban Principal Arterial Urban Principal Arterial Urban Principal Arterial Urban Principal Arterial	Rolling Rolling Rolling	55 55	4	12							+
7.02 7.20 7.62 7.66 8.07 8.22	.020200620665 Misty Lane .070220617 KY 1012	7.200 7.620 7.665 8.070 8.220 8.617	Misty Lane	0.180 0.420 0.045 0.405	Urban Principal Arterial Urban Principal Arterial Urban Principal Arterial	Rolling Rolling	55			Divided	Depressed	Paved w/ Bituminous Material	10	AAA	Yes	28,700
7.20 7.62 7.66 8.07 8.22	.200620665 Misty Lane .070220617 KY 1012	7.620 7.665 8.070 8.220 8.617	Misty Lane	0.420 0.045 0.405	Urban Principal Arterial Urban Principal Arterial	Rolling		4	10		•					,
7.62 7.66 8.07 8.22	.620665 Misty Lane .070220617 KY 1012	7.665 8.070 8.220 8.617	Misty Lane	0.045 0.405	Urban Principal Arterial		55		12	Divided	Flush	Paved w/ Bituminous Material	10	AAA	Yes	28,700
7.66 8.07 8.22	.665 Misty Lane .070220617 KY 1012	8.070 8.220 8.617		0.405	·	Rolling		4	12	Divided	Depressed	Paved w/ Bituminous Material	10	AAA	Yes	28,700
8.07 8.22	.070 .220 .617 KY 1012	8.220 8.617			Urban Principal Arterial		55	4	12	Divided	Flush	Paved w/ Bituminous Material	10	AAA	Yes	28,700
8.22	.220 .617 KY 1012	8.617		0.150		Rolling	45	4	12	Divided	Flush	Paved w/ Bituminous Material	10	AAA	Yes	28,700
	.617 KY 1012		10/10/0	0.100	Urban Principal Arterial	Rolling	45	4	12	Divided	Raised Mountable	Paved w/ Bituminous Material	10	AAA	Yes	28,700
8.61			KY 1012	0.397	Urban Principal Arterial	Rolling	55	4	12	Divided	Raised Mountable	Paved w/ Bituminous Material	10	AAA	Yes	28,700
	055	9.655		1.038	Urban Principal Arterial	Rolling	55	4	12	Divided	Raised Mountable	Paved w/ Bituminous Material	10	AAA	Yes	21,900
US 60 9.65	.655	9.760		0.105	Urban Principal Arterial	Rolling	45	4	12	Divided	Raised Mountable	Paved w/ Bituminous Material	10	AAA	Yes	21,900
9.76	.760	9.800		0.040	Urban Principal Arterial	Rolling	35	4	12	Divided	Raised Mountable	Paved w/ Bituminous Material	10	AAA	Yes	21,900
9.80	.800	9.880		0.080	Urban Principal Arterial	Rolling	35	4	12	Undivided	None	Paved w/ Bituminous Material	10	AAA	Yes	21,900
9.88	.880	10.818	KY 168	0.938	Urban Principal Arterial	Rolling	35	2	10	Undivided	None	Curbed	0	AAA	Yes	21,900
10.8	).818 KY 168	11.550	Oakview Road / Pollard Road	0.732	Urban Principal Arterial	Rolling	35	2	10	Undivided	None	Curbed	0	AAA	Yes	22,600
11.5	1.550 Oakview Road / Pollard Road	11.739	US 60	0.189	Urban Principal Arterial	Rolling	35	2	10	Divided	Raised Mountable	Curbed	0	AAA	Yes	22,600
11.73	I.739 US 60	12.100	Courtyard	0.361	Urban Principal Arterial	Rolling	35	3	11	Couplet	None	Curbed	0	AAA	Yes	14,200
12.10	2.100 Courtyard	12.198		0.098	Urban Principal Arterial	Rolling	35	4	11	Couplet	None	Curbed	0	AAA	Yes	14,200
12.19	2.198	12.217	US 23S / US 23X	0.019	Urban Principal Arterial	Flat	35	4	11	Couplet	None	Curbed	0	AAA	Yes	14,200
12.2	2.217 US 23S / US 23X	12.285	US 23S / US 60	0.068	Urban Principal Arterial	Flat	35	4	10	Couplet	Flush	Curbed	0	AAA	Yes	20,200
12.2	2.285 US 23S / US 60	12.360	US 23X	0.075	Urban Principal Arterial	Flat	35	4	10	Divided	Flush	Curbed	0	AAA	Yes	24,700
12.30	2.360 US 23X	12.409	US 23	0.049	Urban Principal Arterial	Flat	35	2	15	Couplet	None	Curbed	0	AAA	Yes	3,660
12.4	2.409 US 23	12.433	Railroad Street	0.024	Urban Minor Arterial	Rolling	35	2	12	Undivided	None	Curbed	2	AAA	No	10,200
0.00		0.600	25th Street	0.600	Urban Principal Arterial	Flat	35	4	10	Undivided	None	Curbed	0	AAA	No	10,900
0.60		1.135		0.535	Urban Principal Arterial	Flat	35	4	10	Divided	Flush	Curbed	0	AAA	No	10,900
	.135	1.250	17th Street	0.115	Urban Principal Arterial	Flat	25	4	10	Divided	Flush	Curbed	0	AAA	No	10,900
	.250 17th Street	1.551	US 23S / US 60	0.301	Urban Principal Arterial	Flat	25	4	10	Divided	Flush	Curbed	0	AAA	No	14,100
	.551 US 23S / US 60	1.620	US 60 / 10th Street	0.069	Urban Principal Arterial	Rolling	25	4	10	Divided	Flush	Curbed	0	AAA	Yes	24,700
	.620 US 60 / 10th Street	1.721		0.101	Urban Principal Arterial	Rolling	25	4	10	Divided	Flush	Curbed	0	AAA	No	24,700
1.72	.721	1.796	US 23 (Winchester Avenue)	0.075	Urban Principal Arterial	Flat	25	4	10	Divided	Flush	Curbed	0	AAA	No	24,700
10.4	0.445 KY 3 (Catlettsburg Road)	10.575	I-64 Interchange	0.130	Rural Principal Arterial	Rolling	55	4	12	Divided	Depressed	Paved w/ Bituminous Material	10	AAA	Yes	15,500
10.5		10.808		0.233	Rural Principal Arterial	Rolling	55	4	12	Divided	Depressed	Paved w/ Bituminous Material	10	AAA	Yes	18,200
	0.808	11.007		0.199	Urban Principal Arterial	Rolling	55	4	12	Divided	Depressed	Stablized	10	AAA	Yes	18,200
11.00		11.337		0.330	Urban Principal Arterial	Rolling	55	4	12	Divided	Raised Non-Mountable	Stablized	10	AAA	Yes	18,200
11.3		11.547		0.210	Urban Principal Arterial	Rolling	55	4	12	Divided	Depressed	Stablized	10	AAA	Yes	18,200

State Route	Begin MP	Begin Intersection	End MP	End Intersection	Segment Length (mi.)	Functional Class	Terrain Type	Posted Speed Limit	Number of Lanes	Lane Width (ft.)	Divided / Undivided Roadway	Median Type	Shoulder Type	Outside Shoulder Width (ft.)	Truck Weight Class	National Truck Network (NTN)	Current ADT
	11.547		11.747		0.200	Urban Principal Arterial	Rolling	55	4	12	Divided	Raised Non-Mountable	Stablized	10	AAA	Yes	18,200
	11.747		11.922		0.175	Urban Principal Arterial	Rolling	55	4	12	Undivided	None	Stablized	10	AAA	Yes	18,200
	11.922		12.327	KY 3294	0.405	Urban Principal Arterial	Rolling	35	4	12	Undivided	None	Combination	10	AAA	Yes	18,200
	12.327	KY 3294	12.407	US 60 / 35th Street	0.080	Urban Principal Arterial	Rolling	35	4	12	Undivided	None	Curbed	6	AAA	Yes	22,100
	12.407	US 60 / 35th Street	12.492	KY 1174 / 34th Street	0.085	Urban Principal Arterial	Rolling	35	4	12	Undivided	None	Curbed	6	AAA	Yes	22,100
	12.492	KY 1174 / 34th Street	12.547		0.055	Urban Principal Arterial	Mountainous	35	4	12	Undivided	None	Curbed	2	AAA	Yes	20,600
	12.547		13.587	KY 168	1.040	Urban Principal Arterial	Mountainous	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	20,600
	13.587	KY 168	13.712		0.125	Urban Principal Arterial	Mountainous	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	22,700
	13.712		14.907		1.195	Urban Principal Arterial	Rolling	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	22,700
	14.907		16.063	39th Street	1.156	Urban Principal Arterial	Rolling	45	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	23,400
	16.063	39th Street	16.547		0.484	Urban Principal Arterial	Rolling	45	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	23,400
US 23	16.547		16.667		0.120	Urban Principal Arterial	Rolling	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	23,400
	16.667		16.953	US 23X (Winchester Avenue)	0.286	Urban Principal Arterial	Flat	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	23,400
	16.953	US 23X (Winchester Avenue)	18.037		1.084	Urban Principal Arterial	Flat	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	18,100
	18.037		18.577		0.540	Urban Principal Arterial	Flat	35	4	12	Undivided	None	Curbed	2	AAA	Yes	18,100
	18.577		18.642	12th Street Bridge Overpass	0.065	Urban Principal Arterial	Flat	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	18,100
	18.642	12th Street Bridge Overpass	18.947		0.305	Urban Principal Arterial	Flat	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	16,300
	18.947		18.997	US 23X (Winchester Avenue)	0.050	Urban Principal Arterial	Rolling	35	4	12	Divided	Raised Mountable	Curbed	2	AAA	Yes	16,300
	18.997	US 23X (Winchester Avenue)	19.157	Town Center Drive	0.160	Urban Principal Arterial	Rolling	35	4	12	Divided	Raised Non-Mountable	Curbed	2	AAA	Yes	35,600
	19.157	Town Center Drive	19.507		0.350	Urban Principal Arterial	Mountainous	45	4	12	Divided	Concrete Barrier	Curbed	2	AAA	Yes	32,800
	19.507		20.217		0.710	Urban Principal Arterial	Mountainous	45	4	12	Divided	Concrete Barrier	Paved w/ Bituminous Material	10	AAA	Yes	32,800
	20.217		20.345	Russell Road / KY 168	0.128	Urban Principal Arterial	Mountainous	45	4	12	Divided	Raised Mountable	Paved w/ Bituminous Material	10	AAA	Yes	32,800
	20.345	Russell Road / KY 168	20.419		0.074	Urban Principal Arterial	Rolling	45	4	12	Divided	Raised Mountable	Paved w/ Bituminous Material	10	AAA	Yes	34,400
	20.419		20.507		0.088	Urban Principal Arterial	Rolling	45	4	12	Undivided	None	Curbed	2	AAA	Yes	34,400
	20.507		20.742	KY 5	0.235	Urban Principal Arterial	Rolling	45	4	12	Divided	Raised Non-Mountable	Curbed	2	AAA	Yes	34,400
	20.742	KY 5	20.797		0.055	Urban Principal Arterial	Rolling	45	4	12	Divided	Raised Non-Mountable	Curbed	2	AAA	Yes	34,000
	20.797		20.938	Boyd-Greenup Co. Line	0.141	Urban Principal Arterial	Mountainous	45	4	12	Divided	Raised Non-Mountable	Curbed	0	AAA	Yes	34,000

Source: Kentucky Transportation Cabinet's Highway Information System (HIS) Database, July 2007.



### **Appendix C – Environmental Overview**

#### **ENVIRONMENTAL OVERVIEW**

Interstate 64 to US 23 Connector Boyd County, Kentucky Item No. 9-129.00

Submitted to: Kentucky Transportation Cabinet

Submitted: June 2008

Submitted by: ENTRAN, PLC



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#### **REFERENCES**

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#### LIST OF ATTACHMENTS

#### ATTACHMENT A

#### Project Location and Environmental Footprint Mapping

- A1. Project Location Map
- A2. Environmental Footprint, Aerial, General Land Cover
- A3. Environmental Footprint, Aerial, Natural Environment
- A4. Environmental Footprint, Aerial, Human Environment
- A5. Environmental Footprint, USGS Topo, General Land Cover
- A6. Environmental Footprint, USGS Topo, Natural Environment
- A7. Environmental Footprint, USGS Topo, Human Environment

#### ATTACHMENT B

#### **Agency Information Responses**

- B1. USFWS, Boyd County Threatened and Endangered Species Summary
- B2. KSNPC letter 1/3/2008
- B3. KDFWR, letter 1/8/2008
- B4. KEPPC-DEP Clearing House, letter 1/28/2008
- B5. Kentucky Bicycle and Bikeway Commission, letter 12/4/2007
- B6. KGS, letter 12/18/2007
- B7. CDC Division of Emergency and Environmental Health Services, letter 12/28/2007
- B8. Kentucky Cabinet for Economic Development, letter 12/27/2007
- B9. Kentucky Cabinet for Health and Family Services, letter 12/26/2007
- B10. Ashland Fire Department, letter 12/4/2007
- B11. Boyd County Sheriff, email 12/21/2007
- B12. Kentucky Department of Education Division of Facilities Management, email 12/4/2007
- B13. Department of Military Affairs, email 12/4/2007
- B14. Kentucky Heritage Council, letter 12/20/2007
- B15. KDWM, emails 12/10, 21, 27, 14/2007
- B16. KDWM Landfills, email 12/27/2007
- B17. Kentucky Department of Agriculture, letter 12/3/2007
- B18. KEPPC-DEP Department for Natural Resources Division of Mine Reclamation and Enforcement, letter 12/3/2007
- B19. FAA, letter 12/3/2007
- B20. KEPPC-DEP Division of Air Quality, letter 12/20/2007
- B21. Kentucky NRCS, email 6/16/2008

#### ATTACHMENT C

Photograph Index Map and Study Area Representative Photographs

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#### I. PROJECT DESCRIPTION AND ENVIRONMENTAL SETTING

The proposed I-64 to US 23 Connector project is located in Boyd County, Kentucky near the City of Ashland. The study area is approximately 10 miles long by 3 miles wide and encompasses about 24 square miles extending from I-64 between the US 60 and KY 180 interchanges, north to US 23 between KY 5 and US 60. A scoping study is being prepared for the project to identify study area conditions, community and environmental resources, project purpose and need, and to evaluate alternatives to improve access and mobility between I-64 and the City of Ashland. This *Environmental Overview* is a component of the scoping study that identifies environmental resources and issues of concern and establishes an environmental footprint for consideration in the development of alternatives and avoidance and minimization of impacts.

Information for this overview was obtained from literature review, resource agency coordination, and an on-site reconnaissance survey of the study area conducted in September 2007. Information obtained from secondary sources and the on-site survey was Geographical Information System (GIS)-mapped, and is displayed on aerial photographs and topographic base maps in Attachments A2-A7.

Resources and issues of concern identified in the area include those related to both the natural and human environment. Natural environment resources are presented in Section II, starting on Page 2, and include streams, floodplains, wetlands, ponds, water supplies, threatened, endangered and special concern species and habitat, woodland and terrestrial areas, and parks. Human environment resources are presented in Section III, starting on Page 9, and include social and economic resources, historic and archaeological resources, hazardous materials concerns, agriculture, mining, environmental justice, and additional concerns.

#### A. Land Cover

Land cover in the project area was determined through a combination of review of aerial photographs and on-site survey. General land cover in the project area includes a mix of residential, commercial, industrial, undeveloped woodland, previously disturbed areas, and agricultural land (see Attachments A2 and A5). The northern two-thirds of the study area includes a portion of the City of Ashland, as well as the suburban/rural communities of Millseat, Westwood, West Fairview, Ironville, Winslow, Summit, Rockdale and Meads. Land use is predominantly residential, with industrial and commercial uses concentrated along chief transportation corridors, undeveloped woodlands occurring along steep uplands, and scattered agricultural areas. Land cover in the southern third of the study area, by comparison, largely consists of undeveloped woodland along steep uplands, and disturbed areas from abandoned mines and landfills. Scattered small farming operations and commercial/industrial areas associated with the communities of Coalton, Princess and Cannonsburg occur along I-64, US 60 and KY 180.

#### B. Physiography and Topography

The project is located in the Cumberland Plateau and Mountains/Eastern Kentucky Coalfields physiographic region, and the Monongahela Transition Zone and Ohio-Kentucky Carboniferous Plateau subareas of the Western Allegheny Plateau Ecoregion. The Western Allegheny Plateau Ecoregion is

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described as highly dissected, with steep-walled, narrow, sinuous valleys (McDowell, 2001 and Woods et al, 2002). Areas of steep relief occur in the southern, central and western portions of the study area, and nearly level to gently sloping relief occurs in the eastern and northern portions of the study area. Review of the United States Geologic Survey (USGS) Argillite, Ashland, Boltsfork and Rush 7.5' topographic quadrangles indicates that elevations in the study area range from about 520 feet above mean sea level in the northeast near the Ohio River, to approximately 960 feet above mean sea level in the southern portion of the study area near I-64.

#### C. Geology and Soils

In general, bedrock in the project area belongs to the Breathitt Formation and is composed of interbedded shale and siltstone dating to the Pennsylvanian and Mississippian periods. Ridgetops in the southern portion of the study area are overlain with upper Pennsylvanian materials of the Conemaugh Formation which are composed of clayey shales and sandstones, and low lying valleys along water courses contain alluvial deposits (Hail et. al., 1979).

Soils in the project study area occur either in the Latham-Shelocta soil association, the Cuba-Morehead-Whitley Complex soil association or the Allegheny-Riney-Monongahela soil association. Cuba and Morehead soils found in the East Fork Little Sandy River valley are known to have hydric soil inclusions (Hail et. al., 1979).

#### **D.** Drainage

The project study area occurs in the East Fork Little Sandy River watershed of the Little Sandy River basin (Hydrologic Unit Codes 05090104-140 and 05090104, respectively) and the Ohio River Near Greenup watershed of the Tygarts River basin (Hydrologic Unit Codes 05090103-040 and 05090103, respectively). The East Fork Little Sandy River drains the central and south portions of the study area, generally south of KY 716, and the Ohio River Near Greenup watershed drains the north portion of the study area, generally north of KY 716.

#### II. NATURAL ENVIRONMENT

#### A. Surface Streams

Information from the Kentucky Environmental and Public Protection Cabinet Division of Water (KEPPC-DOW) indicates that no Special Use Waters (cold water aquatic habitat, exceptional waters, reference reach waters, outstanding state resource waters, outstanding national resource waters, state wild rivers or federal wild and scenic rivers) occur in the project study area (KEPPC-KDOW, 2007). No high quality stream corridors were observed in the study area during the on-site survey conducted in September 2007.

Based on review of USGS 7.5' topographic mapping, a total of 55 USGS blue-line streams occur in the project study area (see Attachments A3 and A6). The most prominent feature is the East Fork Little Sandy River, which flows east to west through the project area, and because of its proximity in relation to the study area, will likely be crossed by one or more of the alternatives developed for this project.

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Additionally, numerous ephemeral non-USGS streams were identified in the study area during the September 2007 field reconnaissance. A comprehensive stream survey and impact assessment, including evaluation of avoidance and minimization measures, will need to be conducted as this project further develops. Unavoidable impacts to the Little Sandy River and other USGS and/or ephemeral features will require coordination with the U.S. Army Corps of Engineers and the Kentucky Division of Water during final design to determine Section 404/401 permitting and mitigation requirements. Additional watershed information is provided below.

#### 1. East Fork Little Sandy River Watershed

Thirty-seven USGS blueline streams in the East Fork Little Sandy River watershed (14 perennial and 23 intermittent) occur within the project study area, including the following named features:

- Big Run
- Shope Creek
- Williams Creek
- Big Garner Creek
- Marsh Run
- Music Branch
- Little Garner Creek
- Ellington Run
- East Fork Little Sandy River

Two of these streams have impaired Use designations based on review of KEPPC-DOW 305(b) and 303(d) water quality reports. The East Fork Little Sandy River is listed as "not supporting" its Primary Contact Recreation Use designation due to impairment from pathogens from loss of riparian habitat. This feature is also designated as only "partially supporting" its Aquatic Life Use designation due to impairment from sedimentation and siltation from loss of riparian habitat and surface mining. The East Fork Little Sandy River has been scheduled for Total Maximum Daily Load (TMDL) development for pollutant pathogens (KEPPC-KDOW, 2006).

In addition, Williams Creek is designated as only "partially supporting" its Aquatic Life Use designation due to impairment from unknown pollutants from streambank modification and destabilization (KEPPC-KDOW, 2006).

#### 2. Ohio River Near Greenup Watershed

Eighteen USGS blue-line streams in the Ohio River Near Greenup watershed (14 perennial and 4 intermittent) occur within the project study area, including the following named features:

- Little Hood Creek
- Muddy Branch
- Rockhouse Fork
- Daniels Fork
- Hood Creek

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One of these features, Hood Creek, is listed in the KEPPC-DOW 305(b) and 303(d) water quality reports as "Fully Supporting" its Primary Contact Recreation and Aquatic Life Use designations (KEPPC-KDOW, 2004). Hood Creek has been scheduled for TMDL development for pollutant pathogens (KEPPC-KDOW, 2006).

#### B. Floodplains

Based on review of Federal Emergency Management Agency (FEMA) 100-Year floodplain information from the Kentucky Office of Technology Division of Geographic Information (KOT-DGI, 2007), 100-Year floodplains occur along the following streams within the project study area (see Attachment A3 and A6):

- East Fork Little Sandy River
- Hood Creek
- Williams Creek
- Daniels Fork
- Little Hood Creek
- Shope Creek
- Marsh Run
- Music Branch
- Big Run
- Ellington Run
- Several unnamed USGS and other streams

Avoidance and minimization of floodplain encroachment will need to be evaluated as this project further develops for compliance with Executive Order 11988 and USDOT floodplain policies. KDOW coordination and review of the project by the local floodplain coordinator will need to be conducted to determine permit and mitigation requirements if floodplain encroachment does occur.

#### C. Wetlands

Nineteen National Wetland Inventory (NWI) mapped wetlands occur in the study area, including ten palustrine emergent, seven palustrine forested, and two palustrine scrub-shrub features (KOT-DGI, 2007)(see Attachments A3 and A6). Most of the NWI mapped wetlands occur along the East Fork Little Sandy River and other 100-year floodplain areas. Many of the NWI mapped wetlands were confirmed present during the 2007 on-site survey conducted for this project, however not all features could be field-checked due to limitations on private property access. In addition, a number of non-NWI features were observed during the 2007 field survey. Most of these non-NWI wetlands were low-quality emergent features associated with roadside ditches or drainage swales. Several moderate quality emergent/scrub-shrub features were also observed, primarily scattered along the East Fork Little Sandy River floodplain. No extensive, high quality wetlands were noted to occur in the study area from secondary mapping or field observation.

Based on review of soils information from the United States Department of Agriculture National Resource Conservation Service (USDA-NRCS, 2007), mapped hydric soils in Boyd County are limited

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in extent, with six series listed as being hydric or containing hydric inclusions. Mapped hyric soils in the project study area mostly occur along the East Fork Little Sandy River floodplain near the confluences of Marsh Run and Shope Creek.

A comprehensive wetland survey and impact assessment, including evaluation of avoidance and minimization measures, will need to be conducted as this project further develops. Unavoidable wetland impacts will require coordination with the U.S. Army Corps of Engineers and the Kentucky Division of Water during final design to determine Section 404/401 permitting and mitigation requirements.

#### D. Ponds

Review of 7.5' USGS topographic quadrangles, project aerial photographs and NWI mapping indicated the occurrence of approximately 80 ponds in the project study area. Twenty five of these ponds were visited during the September 2007 on-site survey and were generally noted to be of low quality and of the following types: small farm ponds, residential recreational and retention ponds, former fish-hatchery ponds, fishing ponds, and landscaped retention ponds at corporate facilities.

#### E. Groundwater Resources and Public Water Supplies

Groundwater - Review of groundwater, spring, and water well information from the Kentucky Geologic Survey (KGS) and Kentucky Division of Water (KDOW) indicated that no wellhead protection areas, springs or karst areas occur in the project study area limits, and that wells in the general project vicinity draw water from the non-isolated Pennsylvanian aquifers or alluvium from river valleys (KGS, 2007, and Carey and Stickney, 2004). Information from KGS also indicated that approximately 157 water wells occur in the project study area, of which:

- 118 are monitoring wells,
- 27 are domestic water wells
- 7 are irrigation water wells
- 2 are livestock water wells
- 1 is an industrial water well
- 1 is not used
- 1 is of an unknown type

No springs were observed during the September 2007 on-site field survey. Water wells and groundwater resources in the project vicinity are displayed on Attachments A3 and A6 (NOTE: multiple wells may be represented by a single symbol). Water wells encountered within the construction limits of a selected corridor (as this project progresses) will need to be sealed per KYTC standard specifications.

<u>Public Water Supplies</u> - Based on information available from the Kentucky Geologic Survey (KGS) and Kentucky Division of Water (KDOW), no public water supplies were identified within the project study area limits. One public water supply well is located outside, but adjacent to the study area, northwest of the US 60/KY 5 intersection (see Attachment A3). Other public water supplies (surface water sources) occur outside the project study area, along the Ohio River east of Ashland.

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The north half of the project study area, generally north of the community of Summit, is located within a KDOW Source Water Assessment and Protection Area (SWAPP).

#### F. Threatened, Endangered and Special Concern Species

Information concerning the occurrence of federal and state threatened, endangered and special concern species and unique habitats in the project vicinity obtained from the United States Fish and Wildlife Service (USFWS), the Kentucky State Nature Preserves Commission (KSNPC) and the Kentucky Department of Fish and Wildlife Resources (KDFWR) is summarized below. No unique habitats were identified by resource agencies, however, a total of 20 listed fish, mammals, birds and freshwater mussels were reported to occur or have suitable habitat in the general project vicinity. Five of these listed species, indicated below with an asterisk, have reported occurrences of individuals from within the project study area boundaries, and include two federal species of management concern (salamander mussel and trout perch) and three state special concern species (little spectaclecase mussel, yellow troutlily and gray treefrog). No known occurrences of any federal listed threatened or endangered species were reported from within the study area boundaries. Due to the sensitive nature of the data concerning these species, location information is not provided on the project mapping in Attachments A3 or A6. Copies of information from USFWS, KSNPC and KDFWR are provided in Attachment B.

- **peregrine falcon** (*Falco peregrinus*), federal species of management concern and state endangered species known from along the Ohio River. Found in undisturbed areas with a wide view, near water, and close to plentiful prey, and in man-made areas that include tall buildings, bridges, rock quarries, and raised platforms.
- **gray bat** (*Myotis grisescens*), federal endangered and state threatened species known from along the Ohio River. Found in upland and bottomland forests and riparian corridors in summer, and in sandstone and limestone caves, rockhouses, clifflines, auger holes, and abandoned mines in winter.
- salamander mussel\* (*Simpsonaias ambigua*), federal species of management concern and state threatened species known from the East Fork Little Sandy River in Boyd County. Found buried in substrate such as soft mud or gravel, and under flat stones in shallow water in small streams with swift current.
- **trout perch\*** (*Percopsis omiscomaycus*), federal species of management concern and state special concern species known from the Little Sandy River in Greenup and Carter Counties, and the East Fork Little Sandy River in Boyd County. Found in clear, small to moderate-size streams in pools or raceways over clean sand or mixed sand and gravel bottoms.
- **fanshell mussel** (*Cyprogenia stegaria*), federal and state endangered species with historic range in Boyd County. Found in deep water in sand or gravel in medium to large rivers with moderate current.

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- Indiana bat (*Myotis sodalis*), federal and state endangered species with historic range in Boyd County. In summer, found under exfoliating bark and in cavities of dead and live trees in upland and riparian forests, and wooded fencerows. In winter, found hibernating in caves and old mine portals.
- **pink mucket mussel** (*Lampsilis abrupta*), federal and state endangered species with historic range in Boyd County. Found in mud and sand in shallow riffles and shoals swept free of silt in large rivers and tributaries.
- **ring pink mussel** (*Obovaria retusa*), federal and state endangered species with historic range in Boyd County. Found in gravel bars in shallow waters of large rivers.
- **orangefoot pimpleback mussel** (*Plethobasus cooperianus*), federal and state endangered species with historic range in Boyd County. Found in clean, fast-flowing water in silt-free rubble, gravel or sand, in medium to large rivers with steady currents.
- **sheepnose mussel** (*Plethobasus cyphyus*), federal candidate and state endangered species with historic range in Boyd County. Found in mud, sand or gravel in water 3.3-6.6 feet deep in large rivers with rapid current.
- **clubshell mussel** (*Pleurobema clava*), federal and state endangered species with historic range in Boyd County. Found in sand and fine gravel in riffles and runs in shallow water of small to medium-sized rivers and streams.
- rough pigtoe mussel (Pleurobema plenum), federal and state endangered species with historic range in Boyd County. Found in sand or gravel with feeding siphon exposed in a wide variety of small to large streams.
- **yellow-crowned night heron** (*Nyctanassa violacea*), state threatened species known from along the Ohio River. Found in marshes, swamps, lakes, lagoons, and mangrove areas.
- **black-crowned night heron** (*Nycticorax nycticorax*), state threatened species known from along the Ohio River. Found in marshes, swamps, wooded streams, mangroves, along shores of lakes, ponds, and lagoons in salt water, brackish, and freshwater areas.
- **osprey** (*Pandion haliaetus*), state threatened species known from along the Ohio River. Found in forested areas near lakes, rivers, coastal waters and swamps with nest sites in snags and deadtopped pines along lake and stream shorelines, in recent clear cut areas near water, in swamp conifer stands, and in marshes and bogs.
- **little spectaclecase mussel\*** (*Villosa lienosa*), state special concern species known from the East Fork Little Sandy River in Boyd County. Found in shallow water on sand, mud and detritus, in small to medium-sized rivers.

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- American brook lamprey (*Lampetra appendix*), state threatened species known from the East Fork Little Sandy River in Boyd County. Found in sand and sediment of pools and backwaters in raceways and riffles of permanently flowing streams and rivers.
- **yellow troutlily\*** (*Erythronium rostratum*), state special concern species known from the Coalton area in Boyd County. Found in moderately moist areas in forested ravines.
- **Virginia mallow** (*Sida hermaphrodita*), state special concern species known from along the Ohio River in the City of Ashland in Boyd County. Found in loose, sandy or rocky soil along riverbanks and floodplains.
- **gray treefrog\*** (*Hyla versicolor*), state special concern species known form the East Fork Little Sandy River and Williams Creek in Boyd County. Found in Permanent and temporary ponds in semi-open habitats.

During the September 2007 on-site survey of the project area, potential habitat for the federal endangered Gray and Indiana bats (rock outcrops, clifflines, and trees with exfoliating bark, split trunks, and cavities; see representative photographs in Attachment C), as well as potential habitat for several mussel and fish species, listed above, was observed in the project study area. Due to the occurrence of this potential habitat, more thorough survey for these species should be conducted as the project further develops.

In their letter dated January 3, 2008 (see Attachment B), KSNPC advised against disturbance of bottomland forests and riparian corridors, particularly near caves, to avoid impacts to gray bat. To prevent impacts to aquatic species and aquatic habitats, KSNPC also advised that a written erosion control plan be developed that includes stringent erosion control methods that provide several stages of control, and that all erosion control measures be monitored periodically to ensure proper functioning.

#### G. Woodland Habitats

Review of information from the USFWS and KSNPC indicated that no state or federal managed areas, parks, forests or preserves occur in the project study area.

Large portions of the study area are covered by forested land (see Attachments A2 and A5). These forested areas cover steep valleys and ridgetops and are comprised of predominantly oak, hickory, pine and sycamore. Reclaimed strip mine areas also occur in the study area and are covered in primarily herbaceous or young secondary growth woodland.

#### H. Public Parks – Section 4(f) and Section 6(f) Facilities

Through a combination of review of project aerial photographs, USGS maps, information from the National Park Service and on-site field survey, a total of eight public parks were identified in the project study area (see Attachments A3 and A6), including:

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- Armco Park, US 60 and KY 716, Summit
- John C. May Amphitheater, US 60 and KY 716, Summit (adjacent to Armco Park)
- Fairview Schools Athletic Fields, Wheatley Road (KY 168), Westwood
- Big Sandy Complex National Little League, 263 W. Central Avenue, Ashland
- Dawson Pool Park, Central Avenue (between 6th and 7th Streets), Ashland
- Community Park, KY 168, Ashland
- Fraley Complex Ball Park, 1226 Summit Road, Summit
- Dog Park, 1226 Summit Road, Summit (adjacent to Fraley Ball Park)

If any of these facilities are affected by the proposed project, then evaluation and coordination with the Federal Highway Administration will be necessary under Section 4(f) of the Department of Transportation Act of 1966.

Two of the above-listed facilities, *Armco Park* and *Dawson Pool Park*, were additionally identified as receiving grant assistance from the Land and Water Conservation Fund (LWCF), and, if impacted, will require evaluation and approval by the National Park Service under Section 6(f) of the LWCF Act.

#### I. Geotechnical Issues

A geotechnical overview investigation was conducted by American Engineers, Incorporated in November and December of 2007. This study made the following findings and recommendations for the project:

- The study area was surface and underground mined extensively for coal.
- Mined areas may be encountered near Princess and at several locations west of US 60.
- Available mining records should be reviewed to determine potential settlement areas.
- Terrace deposits should be avoided due to their varied nature and potential for settlement.
- Bedded materials near the surface in the study area are susceptible to landslides. As such, measures to increase safety should include flatter slope design, promotion of surface/ subsurface drainage, re-vegetation, and construction of retaining walls.

#### III. HUMAN ENVIRONMENT

#### A. Social and Economic Resources

Through a combination of review of information from the Environmental Systems Research Institute (ESRI) (ESRI, 2005) and on-site field survey, the following social and economic resources were identified in the project study area: schools, institutions, learning centers, churches, cemeteries, fire departments, shopping centers, golf courses, an industrial park, and a federal correctional institution. Social and economic resources in the project study area are displayed on Attachments A4 and A7 and further described below.

<u>Schools, Institutions and Learning Centers</u> - A total of 18 schools, institutions and learning centers were identified in the project study area, including:

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- Holy Family Elementary, 932 Winchester Avenue
- Ashland Community Technical College, 4818 Roberts Drive
- Ashland Community Technical College; 1400 College Drive
- Heritage Temple Christian Academy, 13109 Copley Road
- Rose Hill Christian School, 1001 Winslow Road
- Hatcher Elementary, 1820 Hickman St
- Boyd County Early Childhood Learning Center North, 1104B Bob McCullough Dr
- Boyd County Early Childhood Learning Center South, 12862 SR 180
- Boyd County High School, 12307 Midland Trail Rd
- Boyd County Middle School, 1226 Summit Road
- Boyd County Regional Juvenile Detention Center, 2420 Roberts Drive
- Summit Elementary School, 830 SR 716
- Fairview Elementary School, 258 McKnight St WW
- Fairview High School, 2123 Main St W
- Fairview Middle School, 2123 Main St W
- Shea's Play Learning Center Pre-School, 1340 Shopes Creek Road
- Happy Hearts Childcare, 1025 SR 716
- Southland Bible Institute, 238 West Southland Drive

#### <u>Churches</u> - A total of 38 churches were identified in the project study area, including:

- church (no visible name), Twin Ridge Court
- El Hasa Temple, 13450 State Route 180
- Heritage Temple Free Will Baptist, 13136 State Route 180
- Princess Church of Christ, US 60 south of SR 5
- Princess Chapel, US 60 south of SR 5
- Crossroads Baptist Church, 12649 US 60
- Meade Station Church of God, 1315 Marsh Hill Drive
- Gospel Light Baptist Church, 1115 Trinity Lane
- Faith Independent Baptist Church, 6900 US 60
- Potter's House of Worship, 6417 US 60
- Summit Missionary Baptist Church, Highway 716
- Coalton First Baptist Church, West Midland Trail Road
- Gehringer Church, SR 5 south of KY 1458
- Hood Creek Regular Baptist Church, SR 5 north of KY 1458
- Little Mary Church, SR 5 north of KY 766
- Rose Hill Baptist Church, 1001 Winslow Road
- New Buckley Road Free Will Baptist Church, 1200 West New Buckley Road
- Summit Church of the Nazarene, 310 Summit Road
- Rose Road Chapel Baptist, 1014 West Rose Road
- Hoods Creek Free Will Baptist, 4018 SR 5
- The Recovery Room Church, Old Buckley Road
- Westwood Church of God, 349 McKnight Street
- Christ United Methodist Church, 2335 Pollard Road
- Life Community Church, 2401 13<sup>th</sup> Street

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- Calvary Baptist Church, 3339 13<sup>th</sup> Street
- 13th Street Free Will Baptist Church, 3430 13th Street
- 13<sup>th</sup> Street Baptist Church, 1812 13<sup>th</sup> Street
- Westwood Christian Baptist, 713 Wheatley Road
- Tri-State Gospel Assembly, corner of Bellefonte Road and Main Street
- Fairview Baptist Church, 2040 Main Street
- Faith Baptist Church, Hoods Creek Pike
- Bethel at Westwood Church, Sarah Road
- The Church of Jesus Christ United Baptist Westwood, Hoods Creek Road
- Westwood Wesleyan, 2400 Main Street
- Little Jewel Church of Jesus Christ, 204 Kentucky Street
- Westwood Christian Church, 424 Wheatley Road
- Holy Family Church, 900 Winchester Avenue
- Saint James AME Methodist Church, 329 12th Street

Cemeteries - A total of 15 cemeteries were identified in the project study area, including:

- Calvary Catholic Cemetery, Pollard Road
- Rose Hill Burial Park, corner of Winslow Road and US 60
- Dixon Cemetery, Main Street, between McClure and Fairview Avenues
- Coalton Community Cemetery, Coalton Cemetery Road
- Winslow Cemetery, KY 766
- McCormick Cemetery, Summit Road
- Howard Cemetery, US 60, just north of Summit Road
- Fultz Cemetery, Summit Road, near Ball Park Fraley Complex
- Calvin Cemetery, US 60 and Old US 60 intersection
- Fields Cemetery, Fields Avenue
- McKnight Cemetery, SR 5 at KY 1581
- Thompson Cemetery, Grandview Lake Road
- Kouns Cemetery, Kouns Road
- Heisley Cemetery, New Buckley Road
- Hackworth Cemetery, Fields Avenue

<u>Fire Departments and Hospitals</u> - Three fire departments were identified in the project study area, including:

- Summit-Ironville Fire Department, Station #95, 252 KY 716
- Westwood Volunteer Fire Department, Station #96, on Main Street at McClure
- Ashland Central Fire Station, 1021 Carter Avenue

No hospitals occur within the boundaries of the project study area. The closest hospital facilities are located in Bellefonte and Ashland, to the west and east of the study area, respectively.

<u>Shopping Centers</u> - Three large shopping centers/urban mall areas were identified in the project study area, including:

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- Ashland Town Center Mall/Walmart/Kroger shopping area, 500 Winchester Avenue/351 River Hill Drive/12<sup>th</sup> Street and Lexington Avenue, respectively. Other stores include: J.C. Penny, Goody's, Belk, a movie theater, and 67 additional businesses.
- Kyova Mall, 10699 US 60, 600,000 square foot indoor mall. Stores include: Sears, Elder-Beerman, and Steve and Barry's University Sportswear, as well as additional retail businesses, restaurants and a movie theatre.
- Walmart Supercenter, 12504 US 60

<u>Industrial Parks</u> - One industrial park, the *Paul Coffey Industrial Park*, occurs in the project study area in the community of Princess (see Attachments A4 and A7). Key tenants include: Woodford Oil Company, DHL, American Electric Power Kentucky, Flagship Services, Inc., TriMac, Advantage Tank Lines, Boyd County Road Department, SunBelt Rentals, Bow Mech Services, Inc., Fleet Maintenance Services, and L. R. Daniels Transportation, Inc.

The Kentucky Cabinet for Economic Development reported four industrial parks in the general Ashland vicinity, but outside the project study area limits, including: East Park B and East Park A (located in northwest Boyd County and southeast Greenup County, about 11 miles southwest of Ashland); the Wurtland Site (located in Greenup County, about 10 miles northwest of Ashland); and the South Shore Site (located in Greenup County, about 30 miles northwest of Ashland).

<u>Federal Facilities</u> - Two federal facilities occur in the project study area, adjacent to each other, in the community of Summit:

- Minimum Security Federal Correctional Institution, located south of the community of Summit with a main entrance on Summit Road, facility has also been identified as eligible for inclusion on the National Register of Historic Places (further discussed in Section III.B.1, on page 12).
- Army National Guard Maintenance Depot, located south of the correctional institution with a main entrance on Summit Road

Golf Courses - Two public golf courses occur in the project study area:

- Sundowner Golf Course, 4135 KY 5, 9-hole course
- Sandy Creek Golf Course, 9701 Meade Springer Road, 18-hole course

# B. Historic and Archaeological Resources – Section 106 and Section 4(f) Resources

Cultural historic and archaeological investigations were conducted for the project in 2007 by Helen Powell and Company, and Cultural Resource Analysts, respectively. A summary of key findings from these investigations is provided below. Section 106 review under the Historic Preservation Act and evaluation and coordination with the Federal Highway Administration under Section 4(f) of the Department of Transportation Act of 1966 will be required if any of these resources are impacted by the project.

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#### 1. Historic Resources

<u>National Register of Historic Places (NRHP) Resources</u> - A total of four NRHP-listed resources (i.e., two districts and two individual properties) occur in the project study area (see Attachments A4 and A7):

- Ashland Historic Commercial District, contains 63 buildings, dating from 1890-1940, NR-listed in 1994.
- Bath Avenue Historic District, contains 28 dwellings, representing a variety of styles from Gothic Revival to Classical Revival unparalleled in other sections of Ashland, occupied by nineteenth-century owners and managers of Ashland's industries, NR-listed in 1979.
- Paramount Theater, 1304 Winchester Avenue, completed in 1931, designed in Art Deco style, provided seating for 1309 people, NR-listed as an individual property in 1975 and included in the Ashland Historic Commercial District in 1994.
- Saint James AME Methodist Church, 329 12<sup>th</sup> Street, established circa 1860, present day building completed in 1912, one-and-one-half-story, front-gabled brick church, hip-roofed corner bell tower entry, stone lintels above the windows, NR-listed in 1979.

NRHP Determined Eligible Resources - A total of four historic resources determined to be eligible for inclusion on the National Register occur in the project study area (see Attachments A4 and A7):

- Quadruple Span Concrete Bridge (BD-361), US 60 over East Fork Little Sandy River, built between 1925 and 1929.
- Williams Creek Bridge (BD-27), Old KY 5 in Princess, built in 1921.
- Summit Missionary Baptist Church (BD-363), KY 716 in Summit, congregation formed in 1898 and present day building completed in 1946-1947.
- Federal Correctional Institution and Prison Camp, KY 716 in Summit, determined eligible under criterion A for association with early development of the federal penitentiary system, and under criterion C as an example of correctional architecture from the late 1930s and early 1940s.

<u>Potential NRHP Resources (pending further research)</u> - A total of six districts and 26 individual properties potentially eligible for inclusion on the National Register were identified in the project study area. A final determination of NRHP eligibility will require additional research, photography, physical examination of the structures, evaluation relative to the integrity standards established by similar properties in Boyd County currently listed on the National Register, and consultation with the State Historic Preservation Officer (SHPO) (see Attachments A4 and A7):

- Prospect Place Historic District, area includes large two-and-one-half story, brick American foursquares and Colonial Revival dwellings built before 1927.
- *Midland Heights Historic District*, two-story, brick and frame Colonial Revival dwellings built in the 1930's and 1940's.
- Graysonia Historic District, two-story, brick American foursquares along 13<sup>th</sup> Street, with frame one-and-one-half-story dwellings dating from the 1930's and 1940's on Algonquin and Iroquois Streets.

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- Grayson Road Historic District, Cumberland Avenue, Kentucky Avenue, and Central Parkway, notable for its curvilinear road pattern which includes areas of common green space, houses are one-and-one-half-story, brick and frame Colonial Revival structures built before 1927.
- Lexington Avenue/14<sup>th</sup> Street Historic District, most houses date from the first three decades of the
  twentieth century and are variations on the Colonial Revival style, dwellings appear to be part of
  a larger historic district.
- 1100 Block Bath Avenue/12<sup>th</sup> Street Historic District, American foursquares and Colonial Revival dwellings built before 1927.
- *Dwelling*, 2105 Midland Trail near Coalton, may date to the mid-nineteenth century, two-story, three-bay, single-gabled, central passage, single-pile, frame dwelling.
- *House,* 8831 Mead-Springer Road, dates to the period from 1875-1899, two-story, three-bay, side passage frame structure, with associated rusticated concrete block structure.
- *Dwelling,* 9223 Mead-Springer Road, dates to the period from 1875-1900, two-story, three-bay, central passage frame house with full-width two-story porch.
- Bungalow and Barns, 8517 Mead-Springer Road, brick bungalow built in 1932, one-and-one-halfstory, side-gabled, associated gambrel-roofed barn and several agricultural outbuildings.
- Tudor Revival Houses, 835/839 KY 716, two one-and-one-half-story, Tudor Revival houses with steeply pitched side-gabled roofs and front facing chimneys.
- *T-Plan Dwelling*, 3293 Little Garner (KY 716), two-story, three-bay frame T-plan dwelling with full-width hip-roofed porch.
- *Thornberry House,* KY 716 in Summit, built during the period from 1875-1900, two-story, three-bay, log, saddlebag dwelling with full-width porch.
- Armo Park, intersection of KY 716 and US 60, opened in 1934, features winding roads through a steep wooded area, some original picnic pavilions remain.
- Gertrude Ramey House, Poor House Road, dates to circa 1900, two-story brick structure with five bays on the first floor and four bays on the second floor.
- Bridge, concrete bridge over Little Hood Creek, on Horn Street in the historic community of Mill Seat dates to the period from 1925-1949.
- Westwood Christian Church, 713 Wheatley Avenue, organized in 1931, two-story, three-bay, front-gabled brick structure with three-story entry tower and Gothic Revival windows.
- *Bill Mayberry House*, 2633 Main Street in Fairview, dates to the period from 1875-1899, two-story, five-bay, central passage, single-pile frame dwelling with full-width, hip-roofed porch.
- Fairview Gym, Fairview High School, 2123 Main Street, built by the Works Progress Administration (WPA) in 1938, one-and-one-half-story, front-gabled stone structure.
- Log House, McKnight Street in West Fairview, dates from the 1930's, one-story, three-bay rounded log house, with centrally located brick chimney.
- Dwelling, Nichols Place, two-story, four-bay frame, side-gabled structure with interior brick chimneys on the gable ends, and full-width, two-story porch supported by square wood columns
- Log House, York Street, dates from the 1930's, one-story, front-gabled rounded log house, with front-gabled porch covering the entry.
- Pollard Baptist Church, Blackburn Avenue, founded in 1892, present day building dates to 1925, three-story, three-bay, brick sanctuary, main façade is two-story with pedimented porch supported by fluted Ionic columns, site includes the two-story, two-bay, hip-roofed brick foursquare Manse east of the church.

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- Christ United Methodist Church, Pollard Road, identified on the 1927 Sanborn Fire Insurance Map, three-story, front-gabled brick church, entry framed by truncated square towers, site includes the two-story, three-bay, side-gabled brick Manse, with a full-width, hip-roofed porch.
- *Dwelling*, 321 Harrison, dates to the period from 1900-1924, two-story dwelling with four bays on the first floor and two bays on the second floor, centrally located brick chimney atop the side-gabled roof.
- Tudor Revival Building, at the corner of US 60, and Blackburn and Algonquin Streets, built prior to 1927, two-and-one-half-story, side-gabled Tudor Revival building, steeply pitched roof, front-facing brick chimneys, and half-timbering in the wall gables.
- Tudor Revival Dwelling, 12<sup>th</sup> Street, two-and-one-half-story, side-gabled brick Tudor Revival dwelling, steeply pitched roof and halt timbering in the gables.
- American Foursquare, 1207 Bath Avenue, two-and-one-half-story, hip-roofed, brick American foursquare with overhanging eves and a full-width, hip-roofed porch.
- White Swan Laundry Building, Central Avenue, brick industrial building, built before 1927, one of the few surviving businesses from the era.
- Commercial Building/Hotel., 336-346 13<sup>th</sup> Street, two-story building with rusticated stone lintels and scrolled brackets and dentils in the cornice.
- Salvation Army Building, 1225 Carter Avenue, two story brick building topped by a crenelated balustrade, features stone accents around the central entry, built after 1927.
- Chesapeake and Ohio Passenger Depot, Carter Avenue, symmetrical Renaissance design completed in 1926 and renovated for use by Third National Bank of Ashland in 1979, associated with the site are three cast iron and wood canopies.

#### 2. Archaeological Resources

Approximately five percent of the project study area has been previously surveyed for archaeological resources. Review of information from the Kentucky Office of State Archaeology indicated that a total of three archaeological sites occur in the project study area. Due to the sensitive nature of these sites, location information is not provided on the project mapping in Attachments A4 or A7:

- 15Bd2, prehistoric open habitation without mounds of an indeterminate age and cultural
  affiliation, location unspecified, appears to be situated on floodplain or terrace of the Ohio River
  in Elk series soils, NRHP eligibility not assessed.
- 15Bd4, prehistoric earthen mound of an indeterminate age and cultural affiliation, location unspecified, appears to be situated on a dissected upland ridge sideslope in Latham-Shelocta silt loams (30–50 percent slopes), NRHP eligibility not assessed.
- 15Bd5, prehistoric earthen mound of an indeterminate age and cultural affiliation, located on Tilsit silt loam on a high stream terrace (upland flat), NRHP eligibility not assessed.

In Boyd County, nearly half of all recorded archaeological sites have been found on floodplains or on stream terraces, suggesting that similar areas within the study area would have the greatest potential for the occurrence of archaeological resources. Additionally, upland flats located in ridge line saddles may also possess archaeological resources in areas that may have been covered over and preserved by colluvial deposition related to deforestation from the iron and logging industries. Although potentially disturbed by human activities, archaeological resources may also be present in the more rural of the

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urban areas in the project study area. A more thorough survey for archaeological resources in the project study area should be conducted as the project further develops.

#### C. Hazardous Materials Concerns

### 1. Underground Storage Tanks

The occurrence of Underground Storage Tanks (UST's) in the project study area was determined through a combination of review of information from the Kentucky Division of Waste Management (KDWM), Underground Storage Tank Branch, the USEPA Envirofacts Data Warehouse for hazardous waste information and on-site survey (KDWM, 2007 and USEPA, 2007). In an email dated December 10, 2007, KDWM reported that 44 facilities with UST's occur in the general project area (see Attachment B15) (KDWM, 2007). Of these 44 facilities, 39 occur within the project study area limits, as shown on Attachments A4 and A7 (NOTE: multiple facilities may be represented by a single symbol). In general, the types of facilities with UST's include: gas stations, transportation, manufacturing, wholesale, service, government, information services, agriculture, and construction facilities. Three of the UST facilities in the study area are reported as Corrective Action Sites (see list below). Properties with UST's in the project study area include:

- Five Points, gas station, 244 W Donta Road (Corrective Action Site: groundwater contamination has spread off-site)
- Speedway #9550, gas station, 6009 US 60
- Speedway SuperAmerica LLC 9603, gas station, 1222 Lexington Avenue
- Speedway SuperAmerica LLC 9924, gas station, 607 Winchester Avenue
- Galleria Exxon Tiger Mart (Cartee), gas station, 10951 US 60
- KJK Petroleum (Exxon Tiger Mart), gas station, 1122 13th Street
- Chaffin Inc. No 4 (Conlin Chevron), gas station, 14525 State Road 180
- P & R Inc., gas station, 2201 Winchester Avenue
- Par Mar # 32, gas station, 101 Jane Hill Road
- Exit 181 Citgo, gas station, 1965 US 60 West
- Borders Summit Market, gas station, 5876 US 60 (Corrective Action Site: soil and groundwater contamination present)
- Super Quik No. 9, facility type not identified, 12655 US 60
- Fleet Purchasing/Ashland Tower, facility type not identified, 1212 Bath Avenue
- Greenhills Quik Stop Inc., facility type not identified, 344 West Summit Road
- Boyd Co School Bus Garage, facility type not identified, 12219 Midland Trail Road
- Clark Pump N Shop No 69 (Ro 3811), facility type not identified, 6353 US 60 West
- Clarks Pump N Shop 1, facility type not identified, 1805 Main Street
- Clarks Pump N Shops 65 (Rich Oil 38), facility type not identified, 640 Wheatley Road
- Dickens Shell, facility type not identified, 3613 13th Street
- 13th St. Food Mart, facility type not identified, 3354 13th Street
- Averitt Express Inc., transportation facility, 12297 Virginia Boulevard
- Boyd Co. State Maintenance Garage, transportation facility, 1168 Halee Lane
- United Parcel Service, transportation facility, 12300 Kevin Avenue
- *IRB Trucking Co.*, transportation facility, Winslow Road
- AK Steel Corp., West Works, manufacturing facility, US 23 North
- KES Acquisition Co. LLC, manufacturing facility, 2704 S Big Run Road

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- Certified Oil Co., manufacturing facility, 8117 US 60
- John Clark Oil Co. Bulk Plant, wholesale facility, 101 Wheatley Road
- Fleet Fuel 1 Bulk Plant, wholesale facility, 12355 Virginia Boulevard
- Whayne Supply Co., wholesale facility, 12251 US 60 West
- Cardinal Cleaners, services facility, 1201 Central Avenue
- Veolia Environmental Services, services facility, 806 Hoods Creek Pike
- 13th St. Service Center, services facility, 501 13th Street (Corrective Action Site: soil contamination present)
- Federal Correctional Institute, government facility, Summit Road
- Boyd Co. Road Dept. Garage, government facility, 1015 Bob McCullough Drive
- The Gallaher Group, information services facility, 101 Armco Boulevard
- Hinton Hatchery Farm, agricultural facility, 7229 Hatchery Road.
- Ruth Contracting Corp., construction facility, 9429 US 60
- B & L Utility & Gas, miscellaneous property, 441 Iowa Street

A Phase I survey for UST's in the project study area will need to be conducted as the project further develops.

### 2. USEPA Regulated Sites

A total of 46 properties were identified in the project study area as hazardous materials concerns through review of information from the USEPA Envirofacts Data Warehouse for hazardous waste information and KDWM (USEPA, 2007 and KDWM, 2007). The concerns identified include facilities reported in the following hazardous materials databases: Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS-Superfund), Resource Conservation and Recovery Information System (RCRIS) the Toxic Release Inventory (TRI) and Brownfields. RCRIS is a database of properties that handle or maintain hazardous waste and are required to provide information about their hazardous materials activities; CERCLIS is a database used by the USEPA to track active and archived Superfund properties; the TRI is a database that contains information about releases of toxic chemicals; and Brownfields are real property where expansion or redevelopment is complicated by the presence or potential presence of hazardous substances, pollutants, or contaminants.

In an email dated December 21, 2007, KDWM reported 62 records of Superfund facilities that occur in Boyd County (see Attachment B15) (KDWM, 2007). Of these 62 records for the county, 13 Superfund properties occur in the project study area limits, as shown on Attachments A4 and A7. Four of the Superfund properties were reported as active, eight as closed, and one as status unknown. The 13 Superfund properties in the project study area include:

- John Clark Property, RCRIS and CERCLIS-Superfund
- Kentucky Electric Steel LLC., CERCLIS-Superfund, RCRIS, TRI and Brownfields
- Armco Credit Union, CERCLIS-Superfund (active)
- Paramount Arts Center Inc., CERCLIS-Superfund
- Paul Coffey Industrial Park, CERCLIS-Superfund
- Ashland Towne Center Mall, CERCLIS-Superfund
- Swift Transportation, CERCLIS-Superfund
- B & L Utility and Gas, CERCLIS-Superfund

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- Corbin Clothing Manufacturing, CERCLIS-Superfund
- Boyd County Dump, CERCLIS-Superfund
- Mobile Pressure Cleaning Landfill, CERCLIS-Superfund (active)
- Cooksey Brothers Disposal Co., CERCLIS-Superfund (active)
- US Federal Corrections Institute Ashland, RCRIS and CERCLIS-Superfund (active)

The USEPA Envirofacts Data Warehouse for hazardous waste information and KDWM reported a total of 33 RCRIS, TRI and Brownfields properties in the project study area (see Attachments A4, A7 and B) (USEPA, 2007 and KDWM, 2007):

- Air Products, RCRIS and TRI
- Ashland Branded Marketing #326-0349988, RCRIS
- Ashland Branded Marketing Inc. 326-0729, RCRIS
- Ashland Petroleum Co BM #326-045, RCRIS
- Ashland Petroleum Co BM #326-284, RCRIS
- Ashland State Vo-Tech School, RCRIS
- Big Sandy Diesel Service Inc., RCRIS
- BW/IP International Inc. Seal Div., RCRIS
- Cardinal Cleaners, RCRIS
- Certified Gas Station #343, RCRIS
- Chaffin Inc #3/KDEP 10 1002-010, RCRIS
- Columbia Natural Resources Inc., RCRIS
- Conlin's Chevron, RCRIS
- Dickerson Union 76 DBA Gas Express, RCRIS
- Downtown Cleaners, Inc., RCRIS
- Firestone Store #3836, RCRIS
- Flagship Services, Inc., RCRIS
- Hanson Brick Ashland Plant, TRI
- Inland Gas/Ashland Warehouse, RCRIS
- Inland Gas/Mavity Station, RCRIS
- *Jims Ironville Market*, RCRIS
- Mining Machinery Incorporated, RCRIS
- Onyx Industrial Services, RCRIS
- Pennco, Inc., RCRIS
- Requip Ruth Equipment (3260380240), RCRIS
- Rich Oil #3804, RCRIS
- Rich Oil #3817, RCRIS
- Safety Kleen Systems Incorporated 407501, RCRIS, TRI and Brownfields
- Sherwin Williams Company, RCRIS
- SuperAmerica #5517, RCRIS
- Superior Collision Center, RCRIS
- US Postal Service KDEP ID 1002-010, RCRIS
- Whayne Supply Company Ashland, RCRIS

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A Phase I survey for hazardous materials concerns in the project study area will need to be conducted as the project further develops.

#### 3. Oil and Gas Wells

Oil and gas well locations in the project study area were identified through a combination of review of information from the Kentucky Office of Technology Division of Geographic Information (KOT-DGI) and on-site field survey of the study area (KOT-DGI, 2007). A total of approximately 111 oil and gas wells were determined to occur within the study area limits (see Attachments A4 and A7).

Due to their occurrence on private property the locations of most of the oil and gas were not confirmed during the on-site survey. A more thorough survey for these wells should be conducted once the project further develops. Oil and gas wells encountered within the construction limits of a selected corridor (as this project progresses) will need to be sealed per KYTC standard specifications.

#### 4. Landfills

Review of information from KDWM Solid Waste Branch indicated that eight known landfills occur in the project study area (see Attachment B16) (KDWM, 2007). KDWM identified two as active, four as inactive, and the conditions at two as unknown (see Attachments A4 and A7):

- Big Run Landfill (active)
- Cooksey Brothers (identified as active, observed to be closed)
- Louisa Land Development/Paul Coffey Industrial Park (inactive)
- Boyd County Dump (inactive)
- R.L. Fosson (inactive)
- *Mobile Pressure Cleaning* (inactive)
- Federal Corrections Institute (status unknown)
- General Concrete Company (status unknown)

During the on-site survey of the project area, activity was confirmed at the Big Run Landfill. The Cooksey Brothers landfill, however, was observed to be closed/inactive at the time of the on-site survey. No other landfills were observed in the study area during the September 2007 on-site survey. A Phase I survey for hazardous materials concerns associated with these landfill sites will need to be conducted as the project further develops.

#### 5. Additional Hazardous Materials Concerns

A number of additional hazardous material concerns in and immediately adjacent to the project study area were noted during the September 2007 on-site survey (see Attachments A4 and A7), including:

- above ground storage tanks (AST's)
- drums
- 3 electrical substations
- Columbia Natural Gas Pump Station

A Phase I survey for hazardous materials concerns in the project study area will need to be conducted once the project further develops.

### D. Agriculture

In response to agency information requests, the Kentucky Department of Agriculture acknowledged the project, but had no specific comments (see Attachment B17). Review of 2002 Agricultural Census data from the United States Department of Agriculture (USDA) indicates that Boyd County is ranked 108<sup>th</sup> out of 120 Kentucky counties in agricultural production, and that the typical agricultural practices occurring in the Boyd County include hay, grass silage and greenchop (3,732 acres), corn (184 acres) and livestock (cattle, horses and ponies) (USDA, April 2008). Review of information from the Kentucky, Natural Resources Conservation Service (NRCS) Office also indicated that prime farmland soil areas occur throughout the project study area (see Attachment B21). Prime farmland is land area that has the best combination of physical and chemical soil characteristics for producing food, forage and other agricultural crops with minimal inputs of fuel, fertilizer, pesticides, and labor, and with minimal soil erosion. Prime farmland soil areas in the project study area generally occur in low-lying, level stream bottomland areas, and in level areas along chief transportation corridors (see Attachment B21).

On-site survey of the project study area revealed that agricultural land was sparse and mostly in hay production. Land dedicated to agriculture was estimated to account for less than ten percent of the total land area encompassed by the project study area (see Attachments A2 and A5).

Impacts to farmland are regulated by the Farmland Protection Policy Act (FPPA). Once the project further develops, coordination with the local NRCS office will be necessary to determine if there will be adverse impacts to farmland associated with the proposed project.

#### E. Mining

Mines and quarries in the project study area were identified through review of information from the Kentucky Department for Natural Resources, Division of Mine Reclamation and Enforcement (KEPPC-DEP-DNR, 2007, and see Attachment B18), the Kentucky Office of Technology Division of Geographic Information (KOT-DGI, 2007) and on-site survey of the study area. No active coal mines occur in the study area, although a total of 18 inactive sites were identified from secondary sources (inactive permits). In addition, two active quarries were identified in the southern portion of project study area in the vicinity of Princess (see Attachments A4 and A7).

# F. Socioeconomic and Environmental Justice Information

Socioeconomic Information - Review of 2000 Census Bureau information indicates that Boyd County had a total population of 49,752 individuals of predominantly white race origin, with a high school graduate or higher education. The 2000 unemployment rate was 5.6 percent in a labor force of more than 21,000 individuals working primarily in the Services and Trade/Transportation/Utilities industries, and median household income in 2000 was greater than \$32,000 (U.S. Census Bureau, 2008). Additional socioeconomic information for Boyd County is summarized in the table, below

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#### BOYD COUNTY SOCIOECONOMIC INFORMATION

Demographic	<b>Boyd County</b>	Kentucky
Total Population	49,752	4,041,769
Race		
White	48,148 (96.8%)	3,640,889 (90.1%)
Black/African American	1,432 (2.9%)	295,994 (7.3%)
Other	644 (0.3%)	104,886 (2.6%)
Hispanic/Latino Origin	558 (1.15%)	59,939 (1.5%)
Gender		
Male	24,363 (49.0%)	1,975,368 (48.9%)
Female	25,389 (51.0%)	2,066,401 (51.1%)
Age	,	, ,
Under 18	10,840 (21.7%)	490,025 (12.1%)
65 and Over	7,758 (15.6%)	504,793 (12.5%)
Education (25 years of age or older)	· · · · · · · · · · · · · · · · · · ·	
High School Graduate or Higher	27,063 (78.0%)	1,961,397 (74.1%)
Bachelor's Degree or Higher	4,892 (14.1%)	453,469 (17.1%)
Labor Force (2000)	21,365	1,926,731
Unemployment Rate (2006)	5.6%	5.7%
Personal Income (2005)	\$27,555	\$28,272
Households		
Number	20,010*	1,590,647 (2000)
Median Income	\$32,749*	\$37,369 (2005)
Employment By Industry		
Trade/Transportation/Utilities	23.9%*	20%**
Services	49.4%*	35%**
Manufacturing/Construction	20.2%*	18%**
Public Administration	4.7%*	17%**
Agriculture/Forestry	1.6%*	2%**

<sup>\* 2000</sup> data obtained from the U.S. Census Bureau (U.S. Census Bureau, 2008).

<u>Environmental Justice</u> - Issues pertaining to minority, elderly, disability and low income (persons living in poverty) populations in the project study area were evaluated by EHI Consultants and documented in a May 2008 report entitled *Environmental Justice and Community Impact Report*. The EHI report concluded that Environmental Justice populations occur in several Census Tracts and Block Groups in the study area generally in proximity to the City of Ashland, and the communities of Summit, Westwood and Fairview.

The EHI report identified minority, elderly, disability and poverty populations in the project study area at percentages *above* the state and county averages in the following Census Tracts and Block Groups:

- Census Tract 310 Block Group 4, minority population = 12.31%
- Census Tract 306, elderly population = 22.54%
- Census Tract 309 Block Group 1, disability population = 17.08%
- Census Tract 308, poverty population = 29.4%

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<sup>\*\* 2006</sup> data obtained from the Workforce Kentucky (Workforce Kentucky, 2008).

The EHI report also noted additional populations of individuals living in poverty, however, these populations were *below* the Boyd County and Kentucky State average poverty levels of 15.5% and 12.4%, respectively, as follows:

- Census Tract 306, poverty population = 9.9%
- Census Tract 307, poverty population = 8.7%
- Census Tract 309, poverty population = 13.7%
- Census Tract 310, poverty population = 12.6%
- Census Tract 311, poverty population = 10.9%

The occurrence of these Environmental Justice populations in the project study area should be taken into consideration as the project further develops.

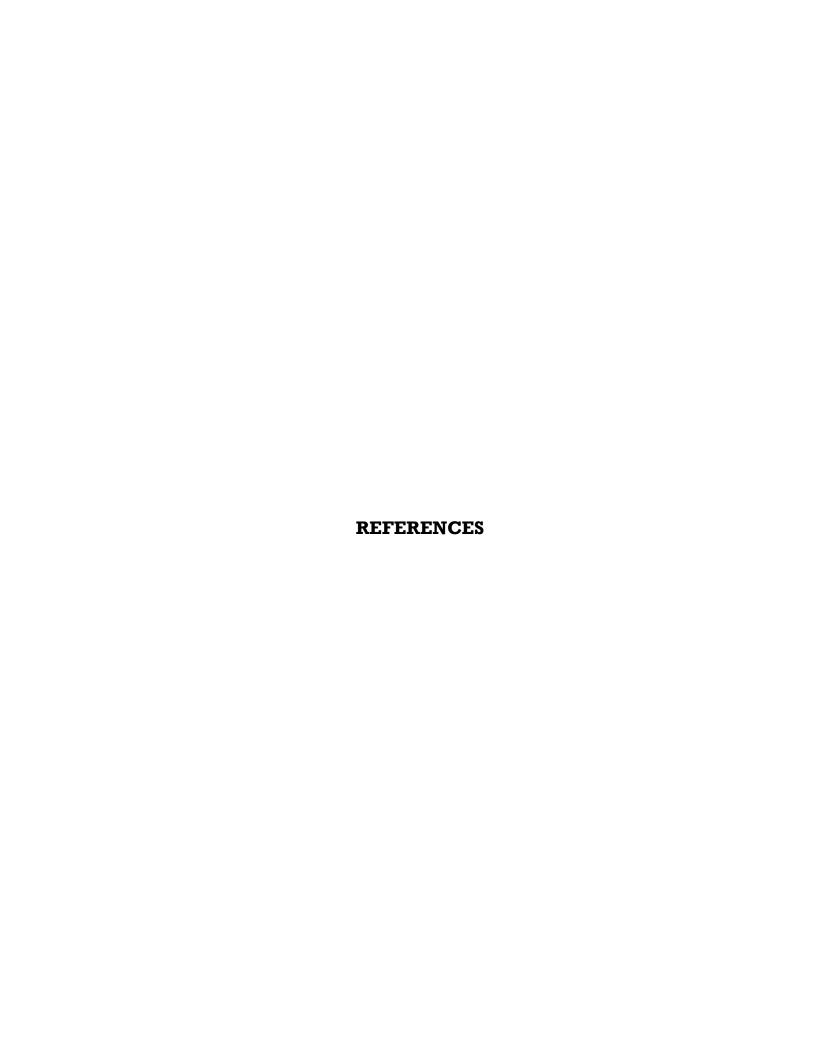
#### G. Additional Items of Concern

<u>Air Quality</u> - Boyd County is currently (June 2008) reported by the USEPA as a non-attainment area for Particulate Matter (size < 2.5 micrometers), and a PM2.5 analysis will need to be conducted as this project further develops.

<u>Noise</u> - The study area includes a number of sensitive noise receptors, including parks, schools, churches, golf courses and residential neighborhoods. A project specific traffic noise impact analysis will need to be conducted to identify and mitigate traffic noise impacts as this project further develops.

<u>Utility Corridors</u> - A number of major utility corridors, as well as the CSX rail road, occur within the project study area. These facilities will require consideration as this project further develops.

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## **ATTACHMENTS**

Attachments A1-A7 Project Location and

**Environmental Footprint** 

**Mapping** 

Attachment B Agency Information

Responses

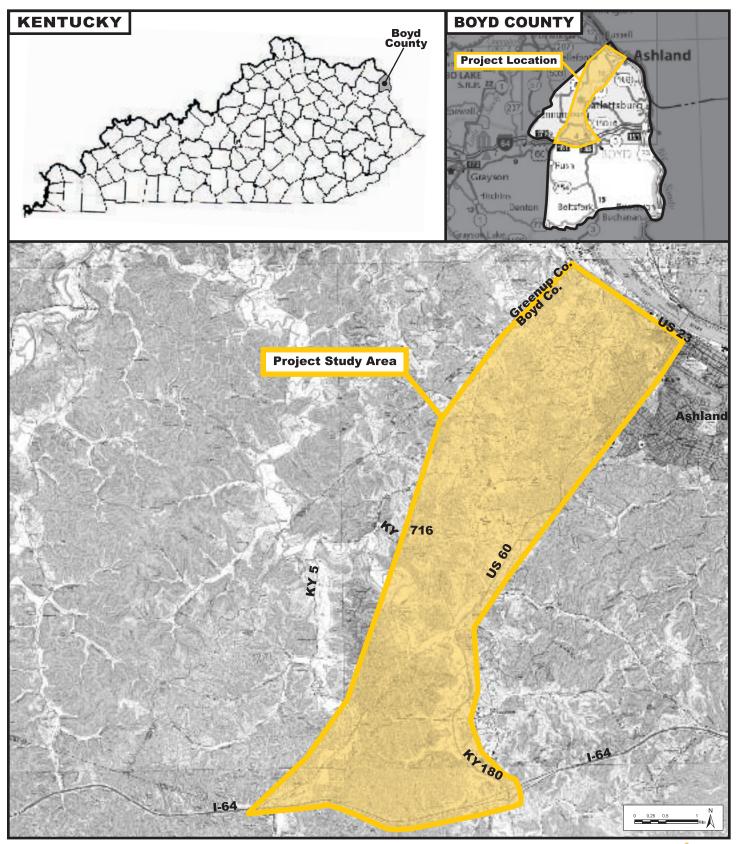
Attachment C Photograph Index Map and

**Study Area Representative** 

**Photographs** 

# Attachment A Mapping

- A1. Project Location Map
- A2. Environmental Footprint, Aerial, General Land Cover
- A3. Environmental Footprint, Aerial, Natural Environment
- A4. Environmental Footprint, Aerial, Human Environment
- A5. Environmental Footprint, USGS Topo, General Land Cover
- A6. Environmental Footprint, USGS Topo, Natural Environment
- A7. Environmental Footprint, USGS Topo, Human Environment

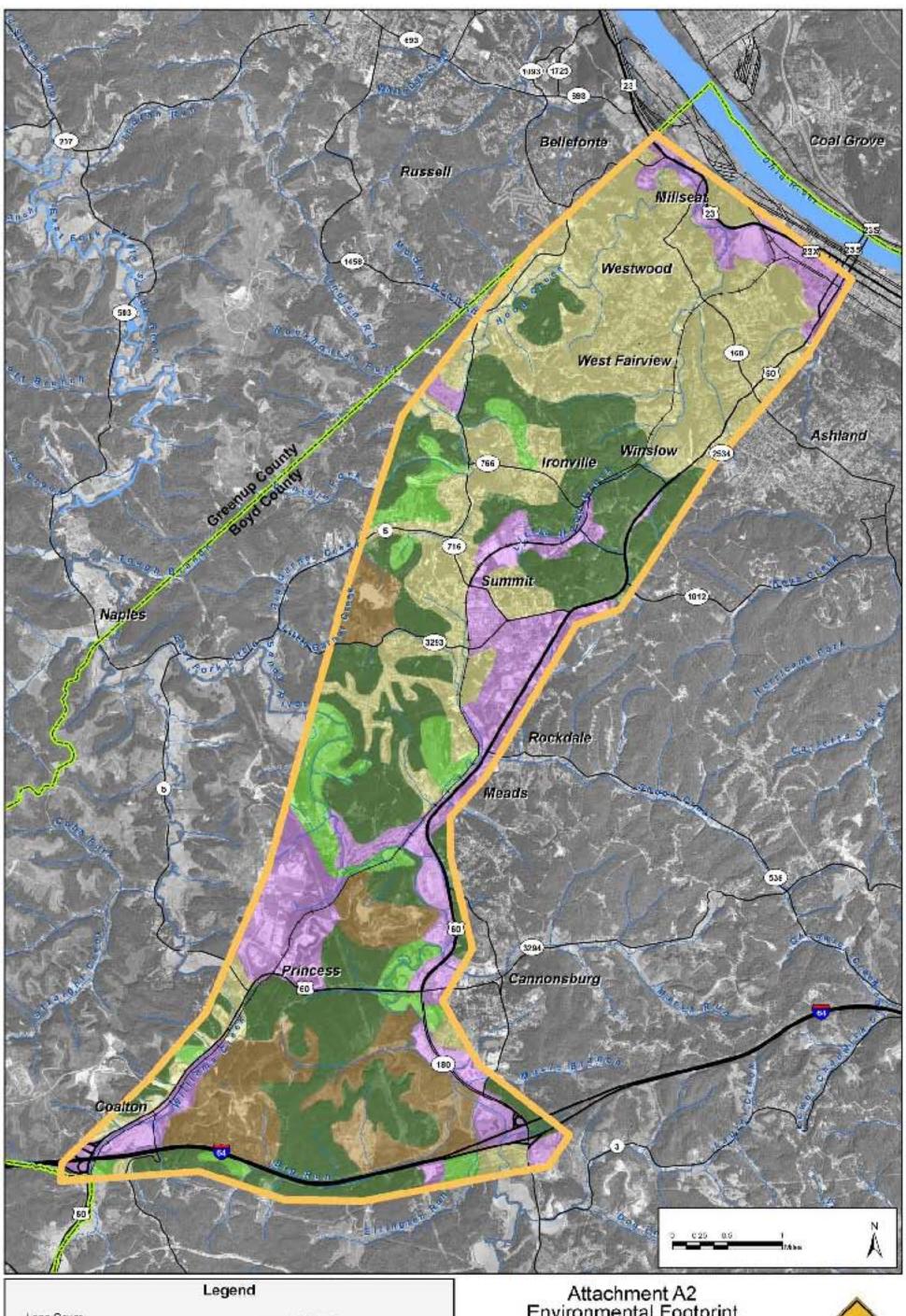


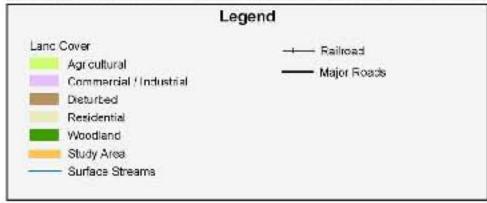
Attachment A1

# **PROJECT LOCATION MAP**









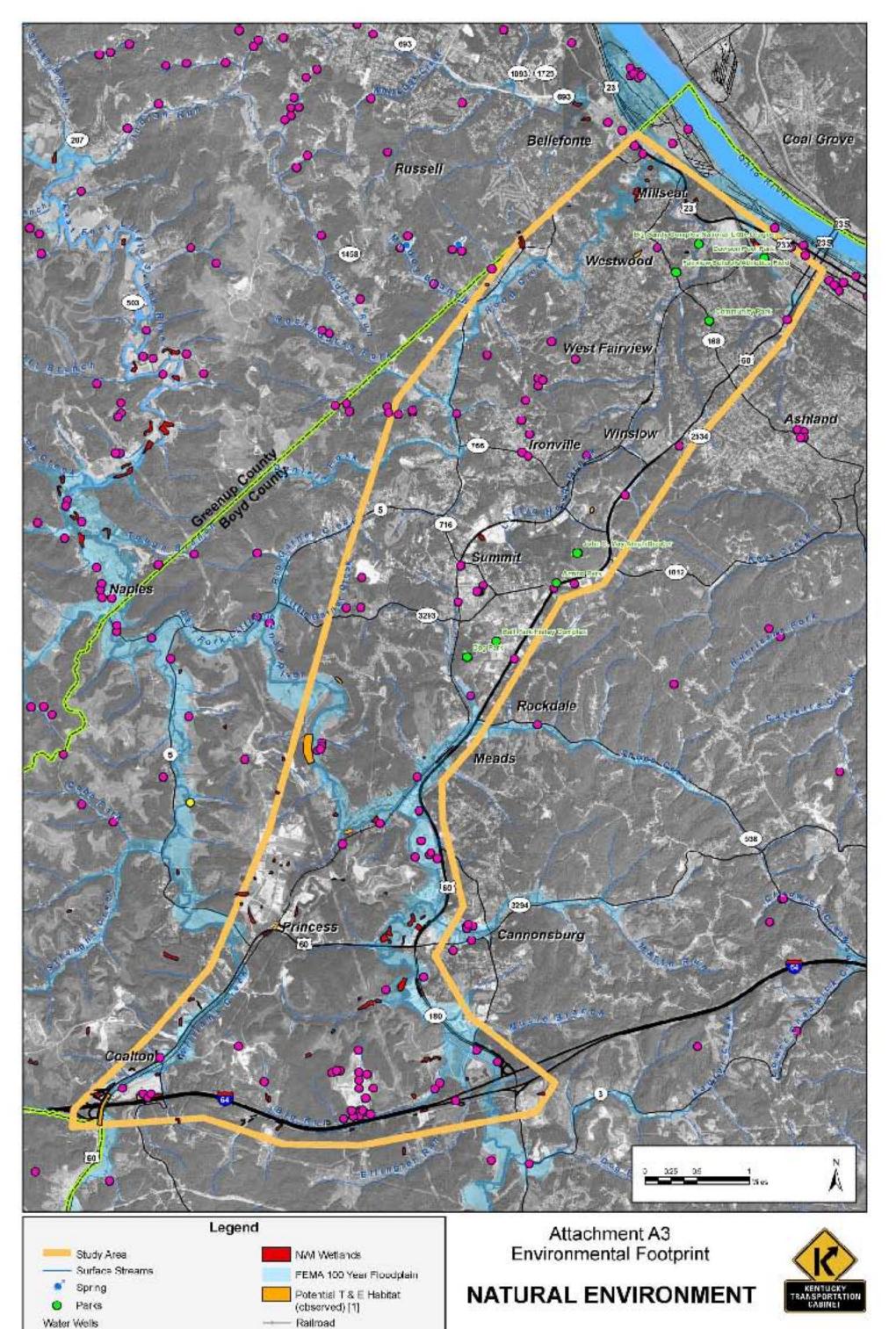
Attachment A2 Environmental Footprint

# **GENERAL LAND COVER**



I-64 to US 23 Connector Boyd County KYTC Item #9-129.00





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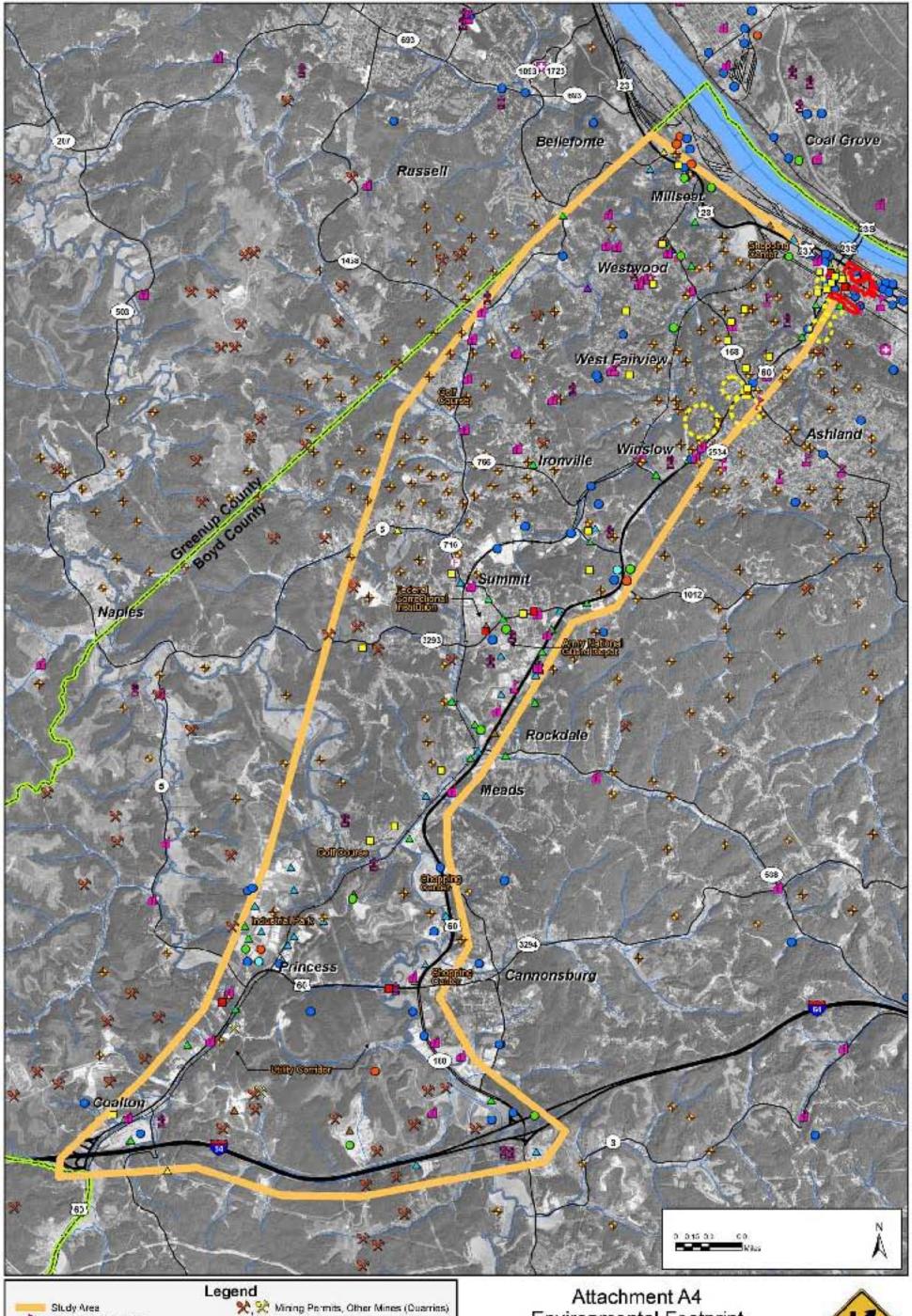
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I-64 to US 23 Connector Boyd County KYTC Item #9-129.00







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Brownfields Property

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# **HUMAN ENVIRONMENT**

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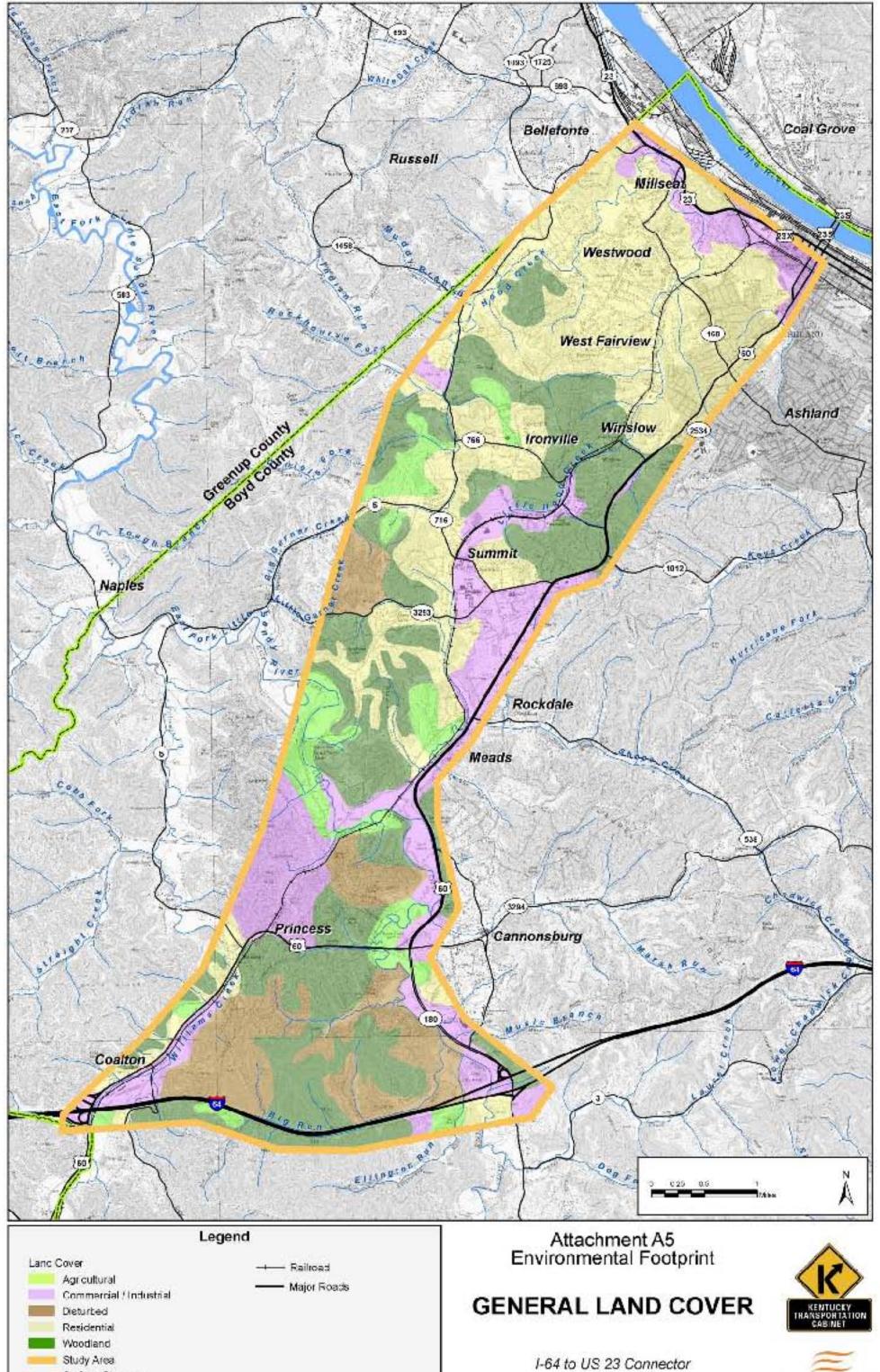
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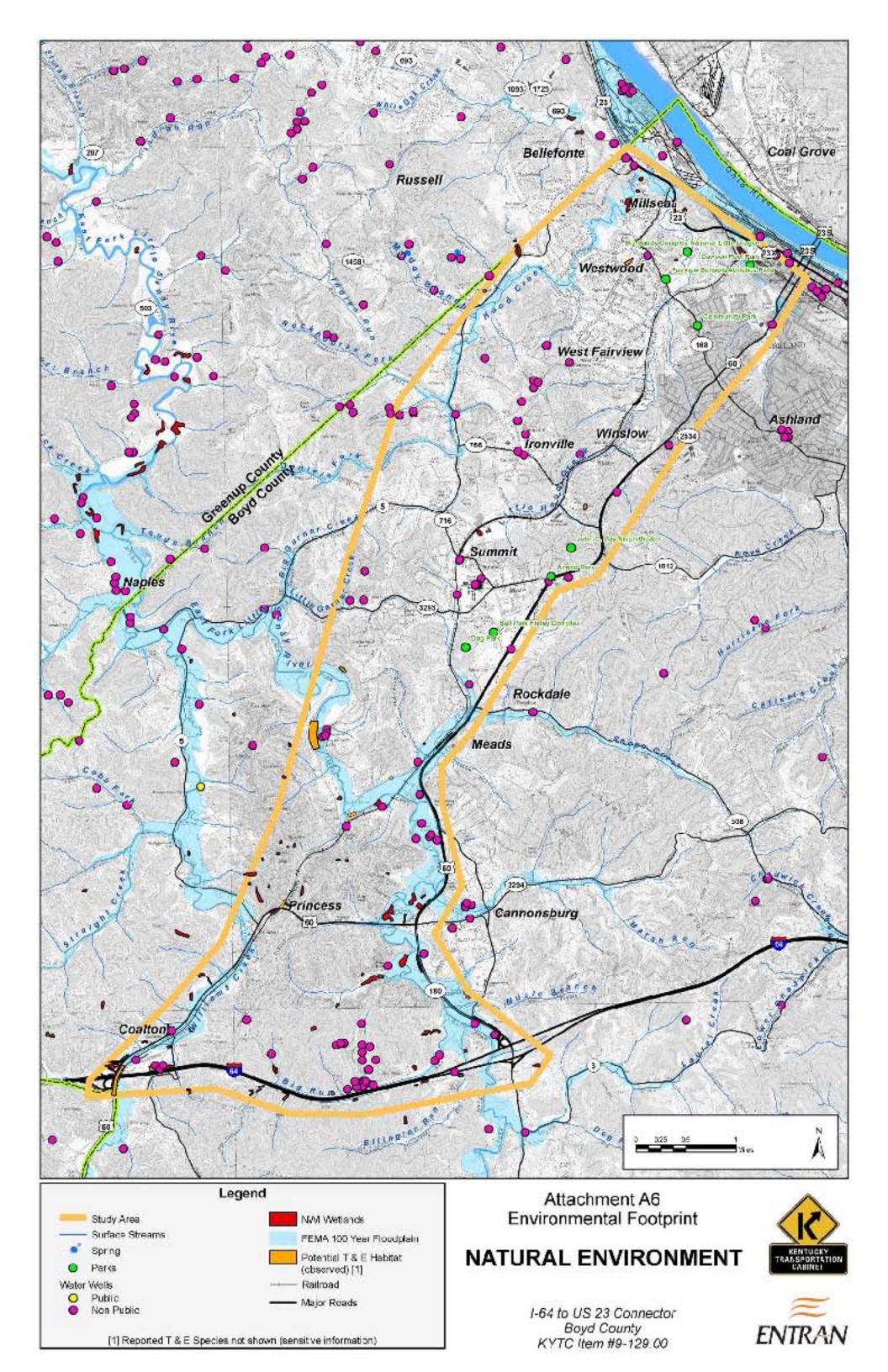


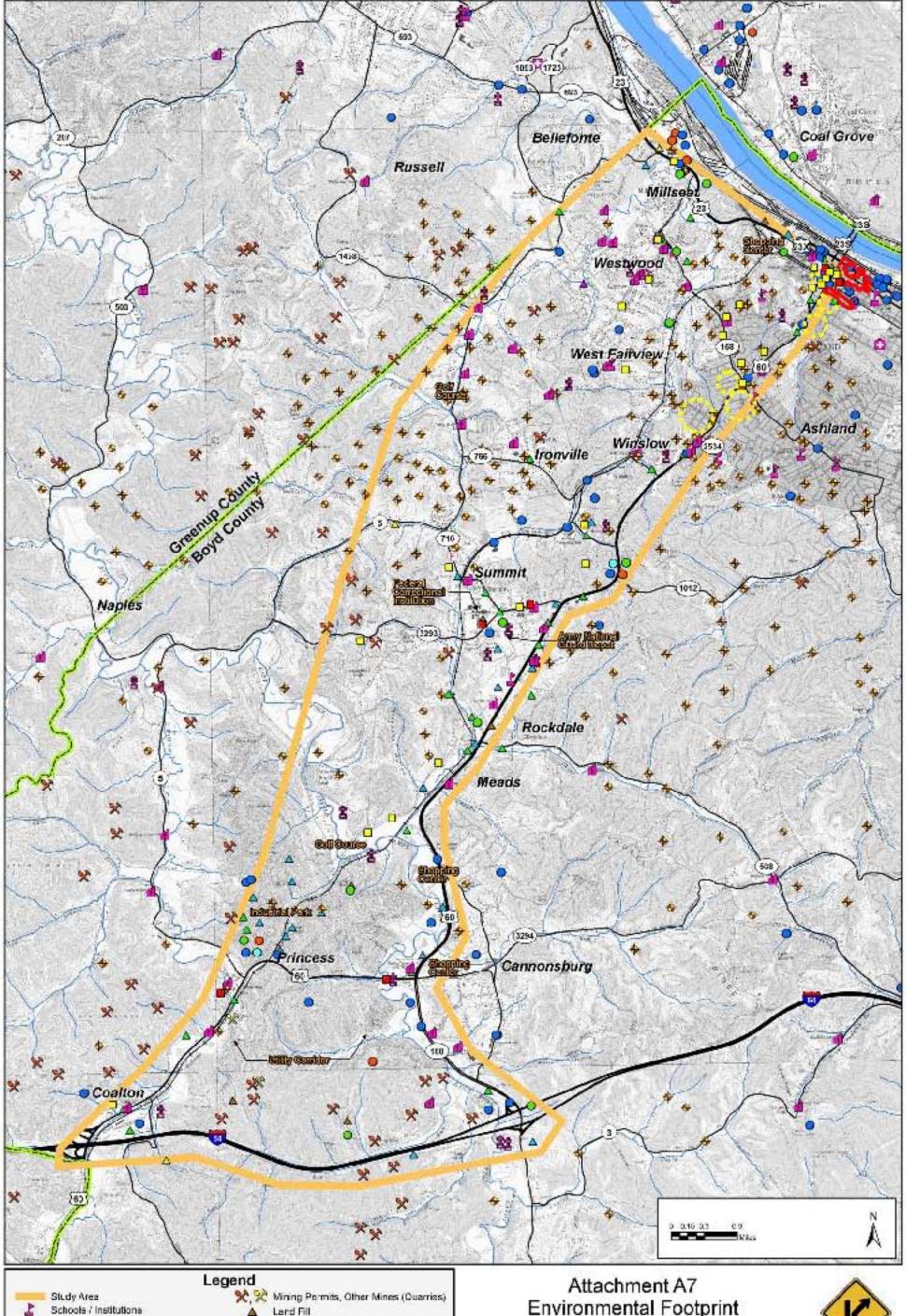


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Other Hazardous Concerns (observed)

Environmental Footprint

# **HUMAN ENVIRONMENT**

I-64 to US 23 Connector Boyd County KYTC Item #9-129.00



# Attachment B Agency Information Responses

- B1. USFWS, Boyd County Threatened and Endangered Species Summary
- **B2.** KSNPC letter 1/3/2008
- **B3.** KDFWR, letter 1/8/2008
- **B4.** KEPPC-DEP Clearing House, letter 1/28/2008
- B5. Kentucky Bicycle and Bikeway Commission, letter 12/4/2007
- **B6.** KGS, letter 12/18/2007
- B7. CDC Division of Emergency and Environmental Health Services, letter 12/28/2007
- B8. Kentucky Cabinet for Economic Development, letter 12/27/2007
- B9. Kentucky Cabinet for Health and Family Services, letter 12/26/2007
- B10. Ashland Fire Department, letter 12/4/2007
- B11. Boyd County Sheriff, email 12/21/2007
- B12. Kentucky Department of Education Division of Facilities Management, email 12/4/2007
- B13. Department of Military Affairs, email 12/4/2007
- **B14.** Kentucky Heritage Council, letter 12/20/2007
- B15. KDWM, emails 12/10, 21, 27, 14/2007
- **B16.** KDWM Landfills, email 12/27/2007
- B17. Kentucky Department of Agriculture, letter 12/3/2007
- B18. KEPPC-DEP Department for Natural Resources Division of Mine Reclamation and Enforcement, letter 12/3/2007
- B19. FAA, letter 12/3/2007
- B20. KEPPC-DEP Division of Air Quality, letter 12/20/2007
- B21. Kentucky NRCS Office, email 6/16/2008

## **Attachment B1**

USFWS, Boyd County Threatened and Endangered Species Summary **Attachment B2** 

**KSNPC** letter 1/3/2008

Steven L. Beslico Governor



Robert Di Mande Secretary Instrumentational Fabric Protection Course:

Commonwealth of Kentneky Kentneky State Nature Preserves Commission

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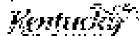
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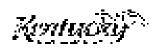
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Sara Hone-Dara Manageri

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Enclasures: Data Report and Interpretarion Key.



**Attachment B3** 

**KDFWR**, letter 1/8/2008



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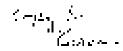
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## **Attachment B4**

KEPPC-DEP Clearing House, letter 1/28/2008





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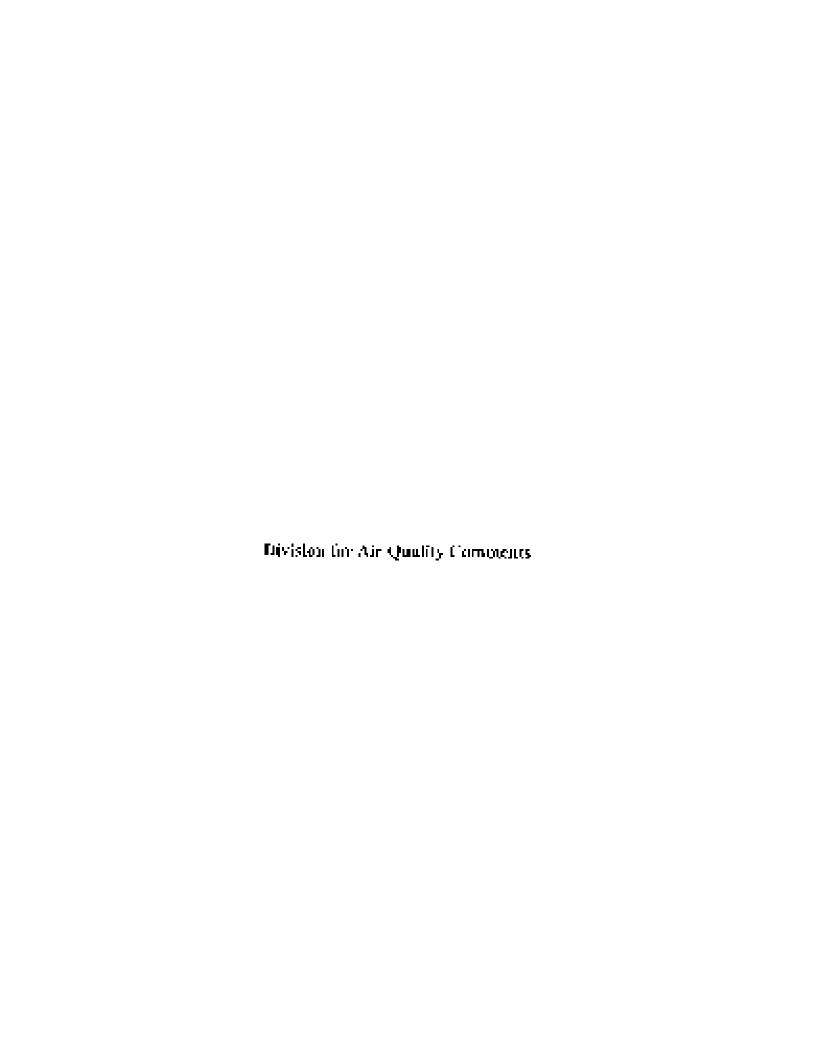
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# ENVIRONMENTAL AND PUBLIC PROTECTION CABINET.

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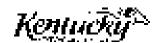
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Kentucky Bicycle and Bikeway Commission, letter 12/4/2007 lecember 04, 0000

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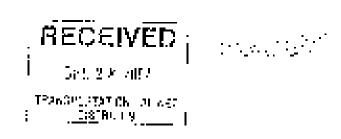
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Lean Mar. Brook by:

Therk yet for the opportunity for input on this project. I have taken the liberty of aboving the information you sent he will key peakers of extramit Cycling Pathosiants, Inc. Excises of the plub opter bicycle within the wiew of attent, and possibly know the modes as well as anyone.

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Katolina C. Bradling, D. K. Child District Dig See: Datable: 04. 2007 Dage: 2

We also would like to make a man on strong concern that any processed route will the new bidgeth lanes in both directions. Fast expendence will olds shoulders, separated by remain atmosphase accountings.

The action of olives, gravel and stack decree control of all the standards of Economics of the standards of the transfer that the standards of the trains that the standards of the trains of the trai

We findly believe construction of this project, with adequate lengthies for biovold upage, will be of great benefit to the residents or this zone, as well as the traveling public, any spectra receive KYIC's sighted policy of

Agazo, thank you for allowing this impati

Property and

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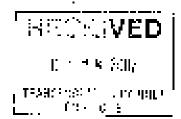
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TKH/a\_n

do: Wittom: Jackness

KGS, letter 12/18/2007





Kennacky Goddanical Survey.

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Date Index 1 - 19607

Decree Brotes M. Rec. P.Y. TESV. Description of Planning Expertment of Highways, District A Office. 622 Eleparitie Re-Plemingshurg, KM, 41041.

Dian Mar Miritary

This is the list of a companies to by the degree constants for the people, identified as:

KMTC Highway District #1

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Ashland, Kermaliy

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han Ne. 9-129-00.

#### Physics achie Region.

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#### <u>Land-Cim Planguing Maga</u>

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On the home pages blick on till and Mays.

On this page, click on Colony Land-Use Planning Mark.

On the page, click on the vocate of enterest on the index may. A weighble and ocwinteredule PDF of the map with be displayed.

#### Karo Povetici

The sincle case of could not constant to be exact that the englars sinklights on cover-

#### Landslide Proceedal

Tailed, dy area probably will economic project post landslide hazards. The potential for landshides in the underclays and shales could be instituted or acceptuated by Jamaya, of materia, at the base of lite stope. The slopes of these least to inperext mest and the leads places rather them show at he evaluated. Also, shims soudstrong and so the life-level crumble where they are randomenled.



#### Forementidated Verlingence

The study they will ence in the two controlleton sediments at or non-street of twicenge, such as send tall, and growel. Also seems unconsolicated sediments such as cobbles, gravid, sand, and salt can be found on some of the hallogs to and are not to the Ashland area.

#### Resource Conflicts

The study stee might encounter resource as ntitles such as poor ownership of oil and gest well as a coal page by lineader of the least one of all sud gas well-set. In odd by gring to the Kantucky Geological Survey's Web sets.

http://keswifo.cog.edu/DataScarcainerOilGas/OO6carca.evg. and inputting starch productions. Coal mining information can be found to the Department of Mines and Minesuls Web title, http://ocinemaps.ky.com.

### Sydnistense

The study area in get most order that agos, relicible that were left from previous skiep mining activity, which could be a nessable subsidence hazard. The Department of Moots and Minorals Web sate would be good to find deep mines in the great.

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## Lant Proceedal

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#### Karahawake Zenic

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Minderel A

Richard A. Sansin

Crephneise.

CDC Division of Emergency and Environmental Health Services, letter 12/28/2007

Discourse 16, 1007.

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#### Dear Ms. Rok. ov.

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And only we have not stone spin. To be smooth to offer access note, we do see a ment on the top as like at becomb because our ingritions by propose and orbitosed of appropriate. Many that provides the different and but we require at all prior so within now they be described in the Shirls for so what two vertex rated.

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Kentucky Cabinet for Economic Development, letter 12/27/2007

### Dune 1st 27, 2007.

MIA TAMail.

Mai Demoi Barris Miller, P.E., Tenso protect Cabract Devision of Planning \*22 to smalle Rend P. O. Box 44 Stormingshotz, EV 410-1

S. Nicota Ashland Connector Plants, Q. Sludy.

Dour Mk. Miller:

По быр инструм — Alabland Connection Planning Study. Га польтовый дальный развитиль в Волиции одновной development perspectives

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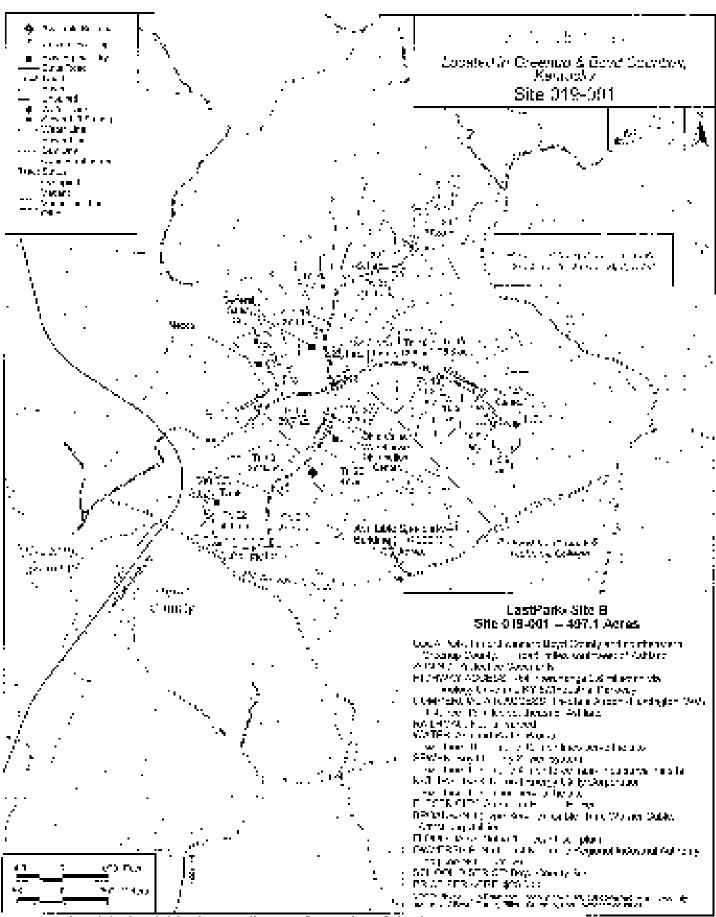
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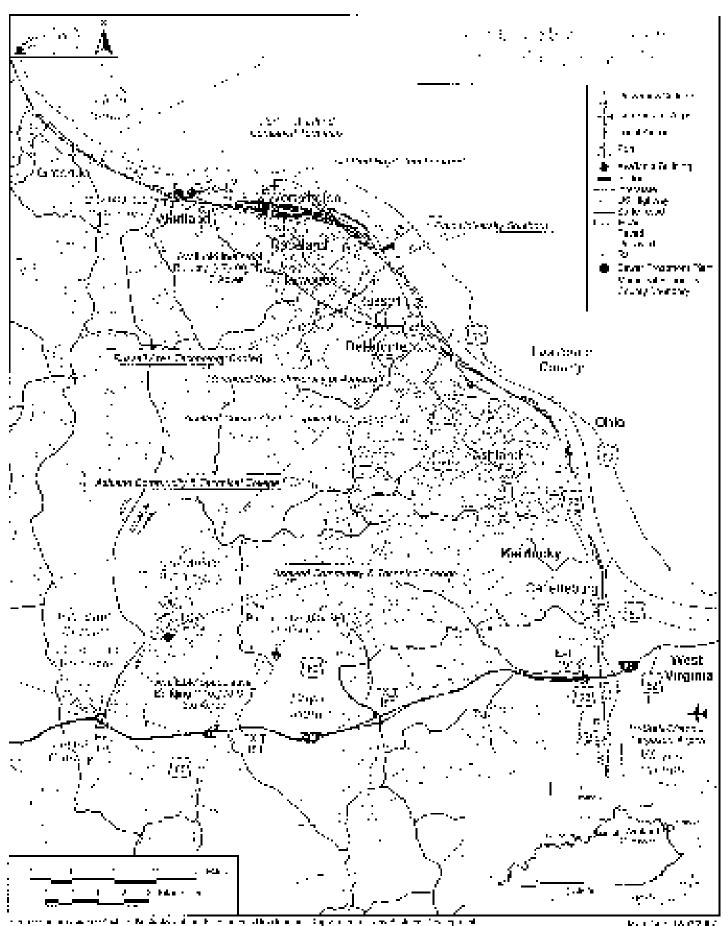
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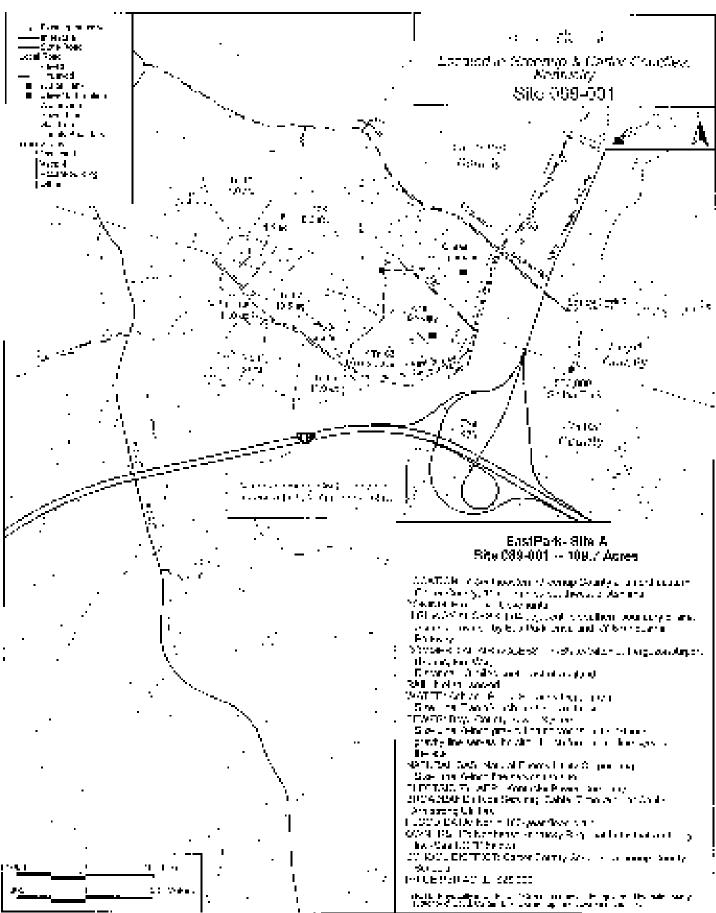
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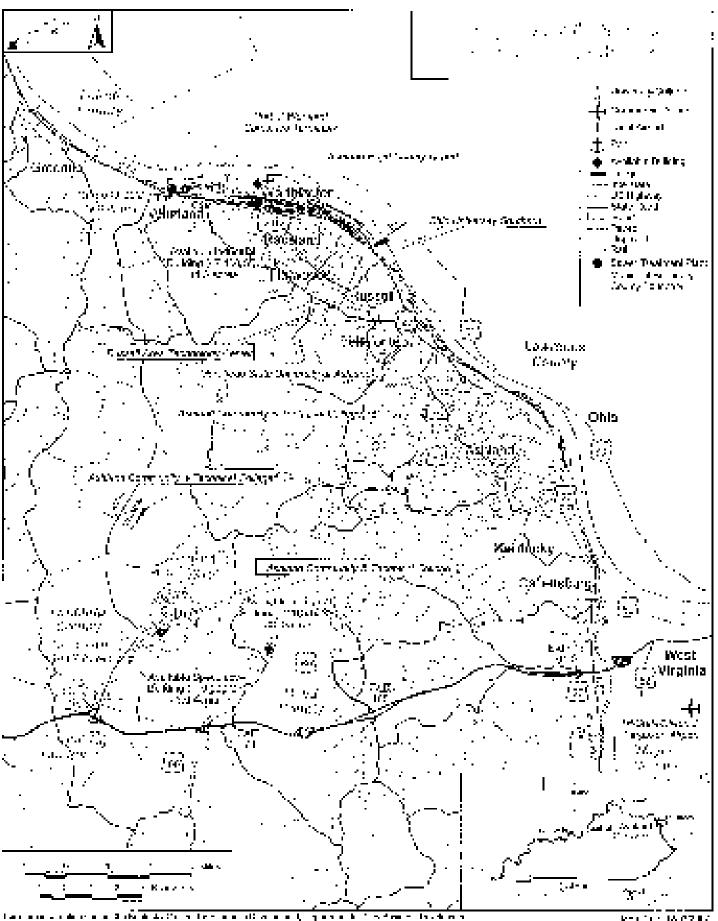
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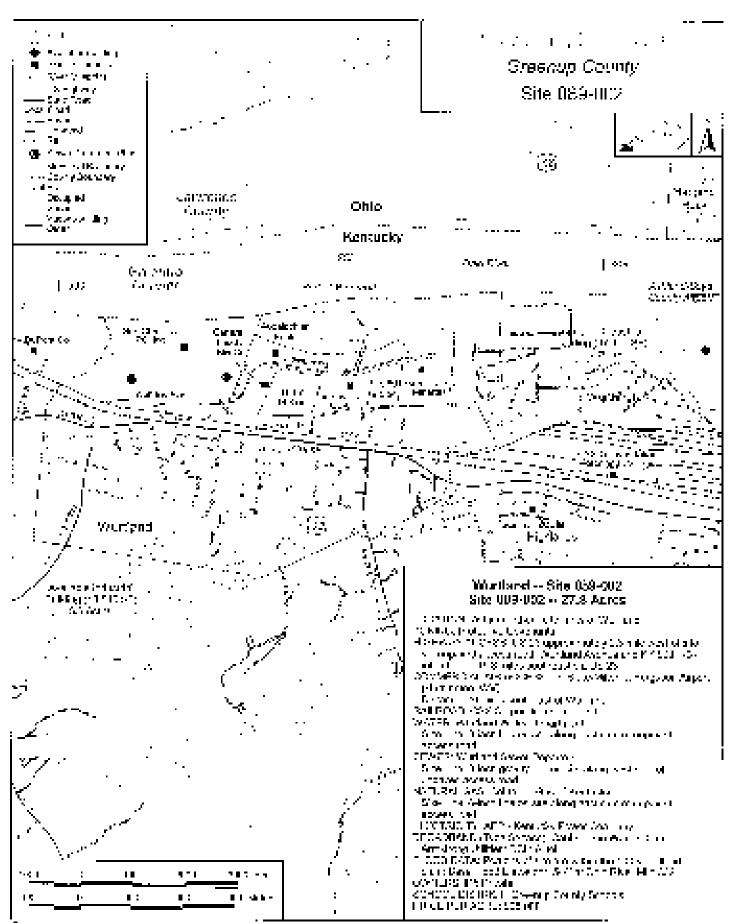


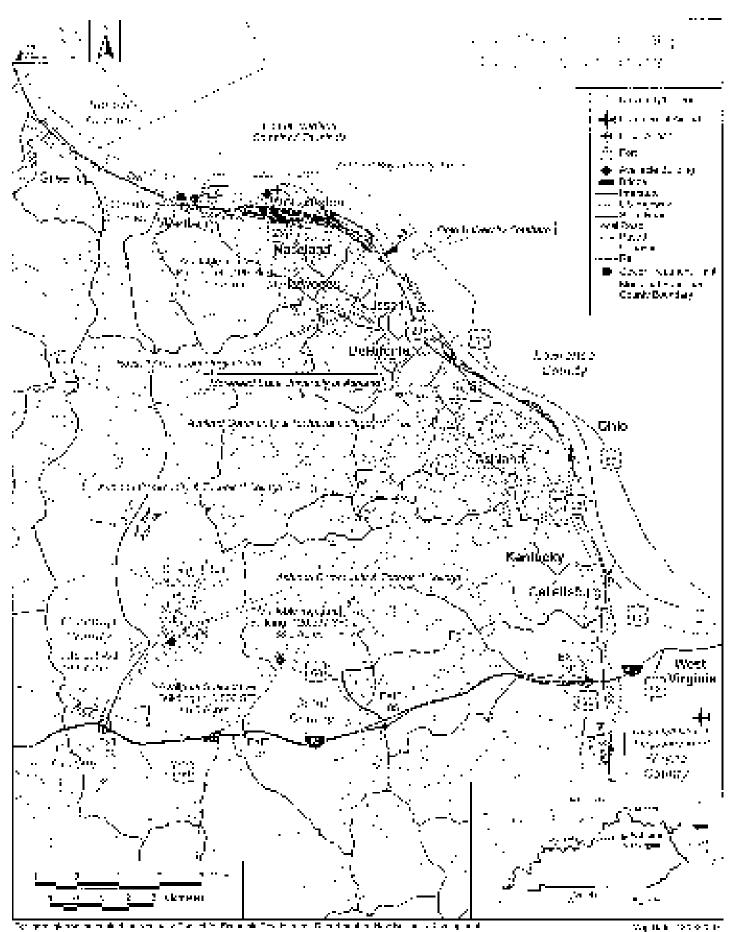
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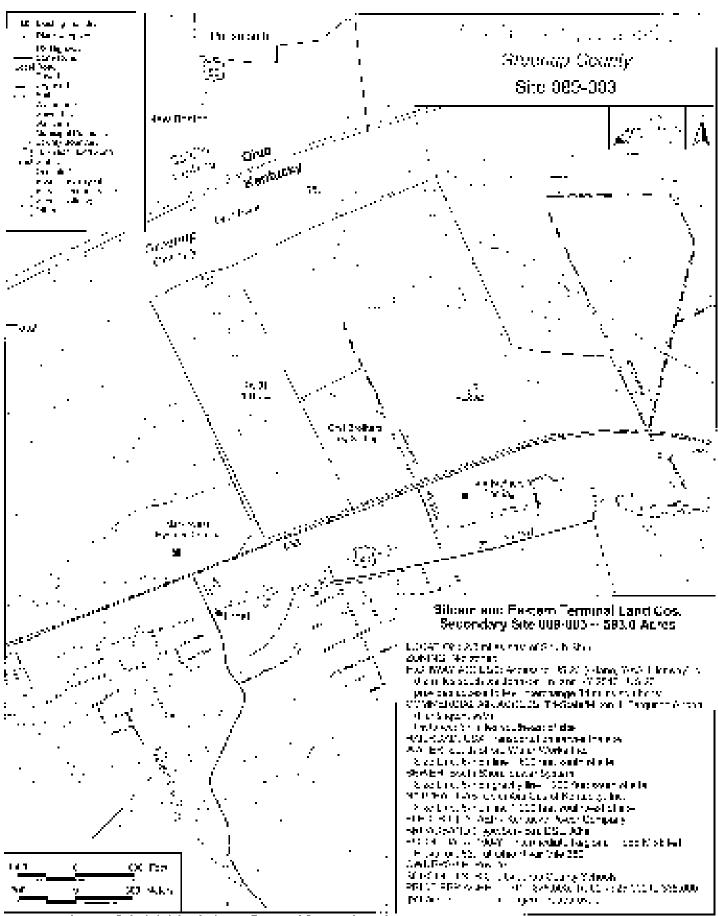


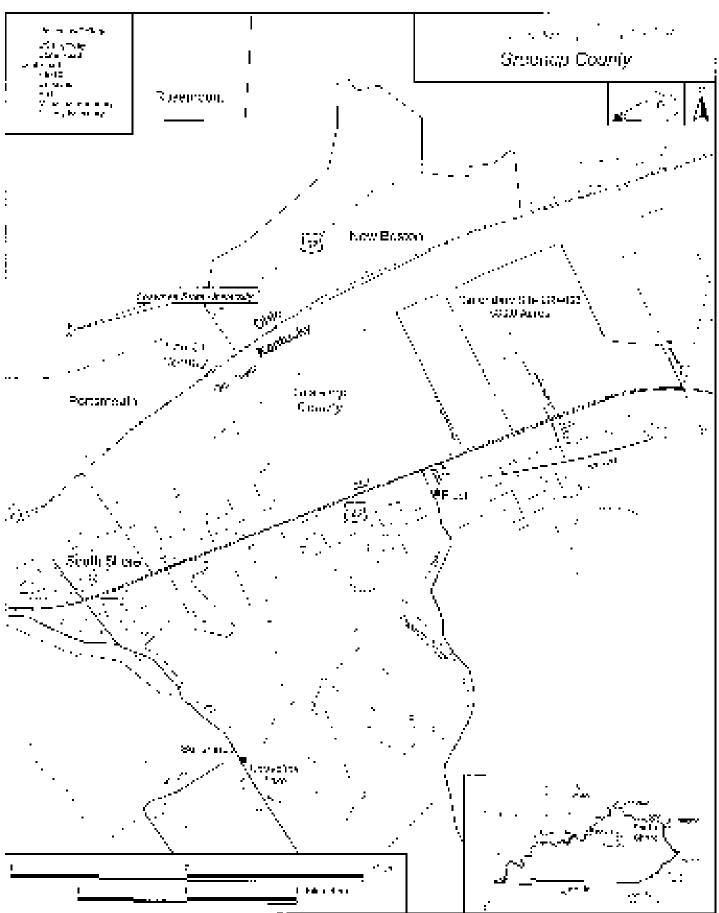
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Kentucky Cabinet for Health and Family Services, letter 12/26/2007



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Ellen M. Hasen Adling Secretary

December 26, 2007.

Kentucky Transportation Capinel Dapt, of Highways District 9 Office Ms. Daecha Hamis Miller, P.E., Project Managon 922 Hizayille Road P.O. Box 547 Flewingsburg, Ky., 41041

Subject: Flanning Study.

US 28 to interestate 84 Fixts 181 and 195.

Ms. Miles.

The Kentucky Transcortation Cabinet has asked that we identify specific issues or concerns which may affect the development of a road improvement project in Boyd County, the project would involve improvements in the US 23 to Interstate 64 Exits 191 and 185. We have reviewed the project study area map crash information, and existing traffic volumes provided by your office.

The Cabinet for Health and Family Services has two offices located within the US 25 to Interstate 64 bots 181 and 185 study areas. One office is located on US 80 which serves the community and has 5 staff which sees 55 clients per weak. The office is located on Greenup Avanue which serves the community and has 40 staff which sees 2000 clients per month.

 $\mathsf{Thank}$  you for  $\mathsf{gaing}$  consideration to our factifies, staff, and clients.

Rubert W. Wright

Loason Properlies Brendt

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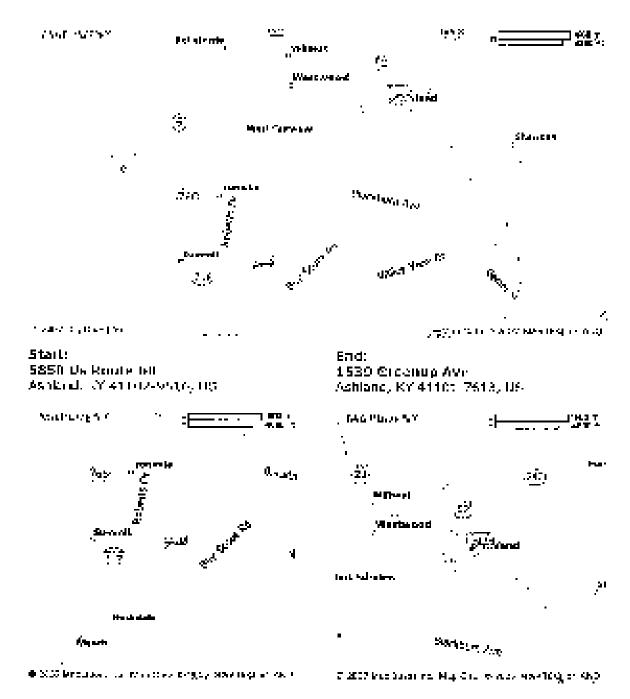
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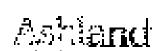
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Ashland Fire Department, letter 12/4/2007



December 4, 2007.

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Oragua Harris Miller, P.R. TBEM Department of Dighways Division of Planning \$22 Elizave le Roze P.O. Hers (47) Heminggy, eg. S.Y. (1941)

provided the North Control of the Control

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Axial axia Connector Study.

Dec. Ms. Maller.

Trank you for the opportunity to obtain put on this important project.

The Fire Departments of Askland, Calleteining, and Bryo County what to voice their support for a new contempt 1980 for a 1980 for the Royal County and connecting to US 25 at concarthe western eithyl mits. A A-thora

The proposed read would have a positive affine on the emergency services of this region. As you pointed not in the execuperying data, crashes are increasing throughout this area and as to the fire servages these numbers will undoubted vicencing methods.

Moseures such as the US-80 Highway Safety Cornect, statety Committee, of which I consument the market, have made significant improvements in the solely officer. I is not now by this wital readway, thus there is only so much esseed to eath originating, our after and significant encoupling the there is not a much most by pulls.

During the 2005 Kentucky Hemeland Security assessment of Asidand, access to analytical area was noted as a major concern

And might second printedly contour little consequences repeation on US-ett, and reing the potential little sizes. A Militerally it will be provide easies should be used consing socident became by giving also a safe means to by take traffic around the score. This will reduce the chance of a secondary collection and save the citizens time and money.



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Sincerely

David K. Slove, Chief

Ashbad Fire Department

Boyd County Sheriff, email 12/21/2007 - Buch

**France can be Described (Y\_i \in \{\{1\}, Y\_i\})** 

Sent: Friend, Colomber 21, 2007 1:14 PM.

To: Wells, Dreitt (Kritic-Dos).

Subject: F&t0 179400 Highway in a wementy — 30yd Councy.

From: Terry keels (mall:syshenii/Kooomintornot.not)

Sent: Inday, December 21, 2007 (2:46 PF)

To: Htt 45, Dearing (KITE 000).

Subject: Eighway improvements in boyd County.

I WOULD LIKE TO BECIN BY THANKING YOU FOR THE OPPORTUNITY TO EXPRESS MY SONCERNS. AS YOU ARE AWARE WE HAVE FAVERAL TRAINED TO DUE ON IN DOYO COUNTY AND WITCHE INSPEASE IN TRAFFIC FLOW THE SITTIAL BONG DECOME WORSE.

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ASA NI THANK YOU FOR THIS OFFICER MITY

Mary Sealer

Kentucky Department of Education Division of Facilities Management, email 12/4/2007



Harris, Deanna (KYTC-D09)

From: Hugg, Louis - Facilities Managarton (Linuis, Hugg Windus-right, kapper).

Sent: Tuesray, December 04, 2007 TitleBWM.

To: Oskovie, Ken Gucenmendert of Schools; Eason, Prill Suporincondent; Vusio-, St.

-√Feirvew Superintendenti

CCS = +cn s. Design (KYTC-D/S) (Science, Camer of Acceptance) at major (Johnson MyTC-D/S)

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Importance trick

#### Cardamen:

On 1130007. Education Catinet Secretary Laura Owens received a letter from Katima Bradley, Chief District Engineer, Department of Highways District 3 Office, requeeting input and comments on the Ashland Commetter Study, I 64 to LS 23. The proposed project will not affect the Kentucky Department of Education because we do not own real property. However, the project may concern you, if you are aware of the connector study and have provided input to KYTC regarding the study, please disregare this ome today of one-study about the study, please request information from Ms. Harris re: the connector confeor if you know of the study, but have not given your comments to Ws. Harris, I may have your interest to do so. We. Bracley requested comments ce sent to Ms. Harris by Department 28, 2007.

# Regards

Lottle Hugg, At/Lementus Construction Dranch Manager Withking i Facilities Menagement Kertucky Department of Editorion 500 Merc St., Boom 1530 Hankfort, KY, 40601 11 (502) 564 4223 Ft. (502) 564-7574 Lottle Hittle Multin Josepheria

Department of Military Affairs, email 12/4/2007

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# Harris, Deanna (KV (C-009)

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Sent: Tuesday, Terrander (7.,2007 f) (1.0%)

Ta: Lams, Decine (RYTC 509) (22 Be 1544, 1546 - BG(R) NOKY

Subject: Abuning Study, inC4 to IUS 23 Connected, Loye County Herr Not 9:129 Co.

Ma. Miller.

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Director, Passinties Division
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Frankhand, RV 40801 6188
502-607-1106
508 (67-1535
502 382 7270 (2611)
501-607-127) (Fax)
Analy (Lips@Gyumes.appy.pd)

Kentucky Heritage Council, letter 12/20/2007



的证据。

# COMMERCE CABINET. KENTUSKY HERITAGE COUNCIL.

Steve Beshear XHADRIM MARKEY Зэчения

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Ammia O Brader Chi. Dia sig Engine o Konnoky Transportzaka Cubiner Disserted by 80.2 b. waville Steen U.O. Ubs. 300 Heningslamp, KM 41041

But Planning Study, I-rit to €S 23 Ashland Connector, Boyo County, Kentucky (Item No. 9-1250H).

Don: Ma. Bradley.

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We was forward to reviewing the archaeological and enfancing course reports. If you have constitute any extrag 

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KDWM, emails 12/10, 21, 27, 14/2007

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Subject: 70: Painting Study Probj Chi (\$4124.00).

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Rob Deniell, Manager Juderground Georage Lank Branch An O. Mic val Deval politiket Frankfurt, KM 40857 (000) 504-608

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From: Daniell, Rollen (FW (151) (2001) Sent: Monday, Pedember 10, 2007 (1:10 AM Too Brase, Dawn (ERPE DCP EVAN) Subject: FW: Manning Study Body Collect

Architecture, w....

Rob Daniel, Manager Underground Storage Tank Branch 81 C. Wolfwell (assented fish) Frencks - KY 40601 (502) 664-3681

Fram: Albert, Seringe (1987, PUR, CVM) Sent: Wordey, Owentier 10, 2007, 10, 10, 681

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From: Posity, John Je (EPPC DEP DWH) Sente Monday, Department 10, 2007 (058 Avr

To: Glivin, Brusja (SCPC SEP Code) Subject: Ptology Andy Soly Copyli

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From: Silvelicit, Faz. (TIRC), div. (1944) [1950 Sherkel@ky.gro].

Sent. Fúlte Benerate 21 2007 420 Akt To: Citte : Oringe (FPGC DFP) (2004) Subject: FW Plancing Sindy Budy Corpet

Attachments: Planning Study Borly Cylon 1 (in per) and testin Loyo Co. as at Doc2, 07,pp1

From: Gibert, George (E-PC DEF DWW)

**Sent:** Monday, December 10, 2007-10:10 AM.

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(LEPK, DEPICTORY): Webb, April (DAFO DEFIDIVIN).

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Subject: "Will demind study Body Co. och

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# Superfund Site List Report

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# Osborne, Debarahii

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Co. Anderson, Dance (EDPC CER DAM), Closes, Tary (1991), DEP BOOKS 9; finelder 19; Rem (EPRC DEP).

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Subject: Roy Daming Study Joyd Co.,oct.

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From: Gibert, Seprec (EPPE DEP DAM):

Sent: huisday, December 27, 2007 8,87 AM.

To: Gruzesky, Ran (EPPC DEP DWR): With, An I (PPP) (bell town).

Con Anderson, Control (EPPC DEPIDWHY). Could by Turky (Historia in Proceeding Andre, Derey LIPPC DDF EWPA);

Schickfor, William - Kernon Churty.

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Subject: FW: Flam Noti Shudy Entry Collecti

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Promit Glourt, George (EFPC 1EP 0/VP) Sent: Monday, Dozember 10, 2007 10 (ii) AH

To: Don all Paint f (EPPC GEP (00%):  $(a_1 a_2 + a_3) = a_1 (a_2 a_3)$  p. P. (20%), Maybrian Bon (EPPC GEP 20%);

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Cost all, Karen (LPPC CLP DAM):

Subject: I'W: Manning Souty Book Countri

Provides what for explain the study and conventions in the study area by COB FALLY Each Of The deal

Frank: Porty, Jennio (EPPC DEP CANY)

Servic Hondov, Deventher, IC, 2007 0-58 AP

To: Othert, Grange (FPCC DECDAM). Subject: Manning Study Rock CountY

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## Osborne, Beberahi

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Lirom — Hall Karen 1 PAC D. PHRAM([KarenS,HgH資格) gok].

Sento Fri Sy December 14, 100 / 1110 AM Too Buber Ceorge ( - PC 10 / 7027) Subject: Roll Herring Strey Pacy (or put

#### George

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From: Gilbert, George (ERPE DEPICIAN) Sent: Monday, Decomport, 9, 2007-10, IC AM

To: Carlet, Robert : STPC DEP CWFO: Glustsky, Bor (FPC) DF. Howar, May also, 1994 (LARS, DUP (MYM), Sharkat, Pag.

(EPPC DEPICIONE): With, As a CEPPC DEPICION);

Ca: Hall, Krimin (EPPC DEN DW 4).

Subject: PW: Planning Shudy Body Grupd?

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Prom: Perny, Jonale (EPPC DEP DWM) Sent: Monday, Deptimber 10, 2007-0:58 AM To: Glood, Deptic (EPPC DEP GWM) Subject: Flooring Study Fig. 9, 69, pdf

KDWM Landfills, email 12/27/2007

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#### and a state of the state of

# Osborne, Deborahi

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Caret, George (1994), DUP BAMI) 9r.Lyens: Planning Stricks Ports Co. PCI.

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Tony L. Cooley P.E., P.G.

Environmental Endings III.

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from: 6, berg Seame (LePC DEP DAM).

Sento Tungday, December 27, 2007 a 32 AM.

To: Groversky, RomitLEPC CLP CVMI: Gebb. Advis EFF.0 (EPF (World))

Co: Anderson, Part v (LPPC CER DWM): Cookly, Tony (EPPC DRI, MWM), Tankin, Tigle (LPPC DIP DWM); Sathology.

Official Alternation County,

Subject: W: Plancing Stucy Bedy Co. PDF.

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Brown: Glood, Coorde (EFPC CEP CWP).

Sent: Marcay, December 10, 2007 1900 68.

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(PAHU DOHIDWAY), Webby Abril CEPC SEP BANKI).

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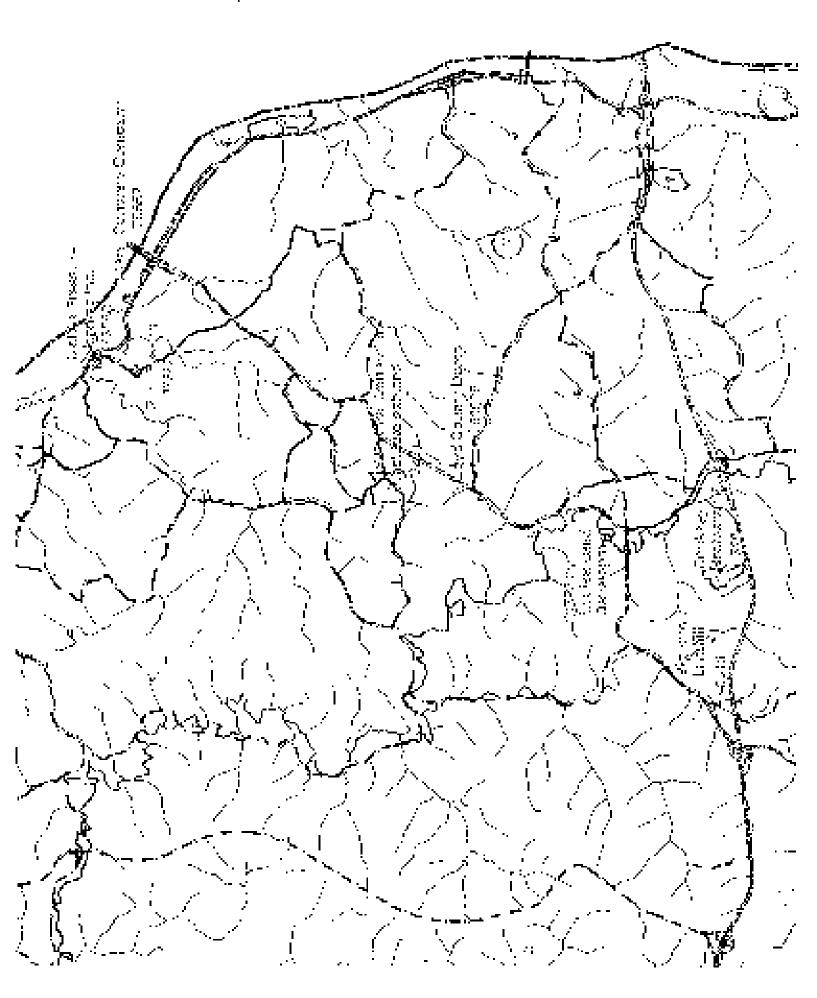
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Kentucky Department of Agriculture, letter 12/3/2007 Jücke Fanger, Church Schuler. 32 Schwin Press
Romingt, NY 1087



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# Kentucky Department of Agriculture

A Chanamer Protection and Service Agency

Diana: lon 3, 2007.

Ms. Decand Harris Mulea, P.E., TEBM Devision of Planning Department of Lighterys 12 prior 9 (0°) oc 523 Elemville Read P.O. Ros 547 Horning-harry, Kentycky 41043

4B. Boyd Councy had No. 9 (2900).

Dear Ms. Miller:

The Kirchookk Doper(most of Arelia, burshese<sub>s</sub>prines receipt of inforcation relating to the above noted from No. Arithis rime, the Dopart near has no common on the propose, project

We appreciate the opportunity to provide input.

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Kalle Farmer, Commissioner



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KEPPC-DEP Department for Natural Resources Division of Mine Reclamation and Enforcement, letter 12/3/2007



ARANGA HISTORY (ABOVE)

# FNVIRONMENTAL AND PUBLIC PROTECTION (ARINETEE ...

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Description 2, 2007.

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Depota Storis Miller, P. D., TEBM.

Bension of Planning.

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Flymingsb,  $p_0 \times Y = 10-1$ 

Subject: Planning Study 1.44 to US 23 Ashland Connector Study

Hem. No. 9-129-00.

Doz Ms. Millen

Thronk you for the opportunity to comment on the planning such product be and in Bay Country of Service in the Communication of Neverther 37, 2007.

Rule as on the strong Area Incomon indicates the prescribe of several released purmise listed below—our office to Jungor has jurisdicted over those morning paint is. There does not appear to be any active code mining activities in the velocity. We also have one observed that the starty mean Please see the attached map for parmit locations.

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Find Cutling the same of \$400008 (cot) = cleased?



Million – 1-64 and US 23. Page 2

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Superrely,

Paul Bothman, Jinzeler

Division of Mice lively negliger and Turberta and

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Afficielment.

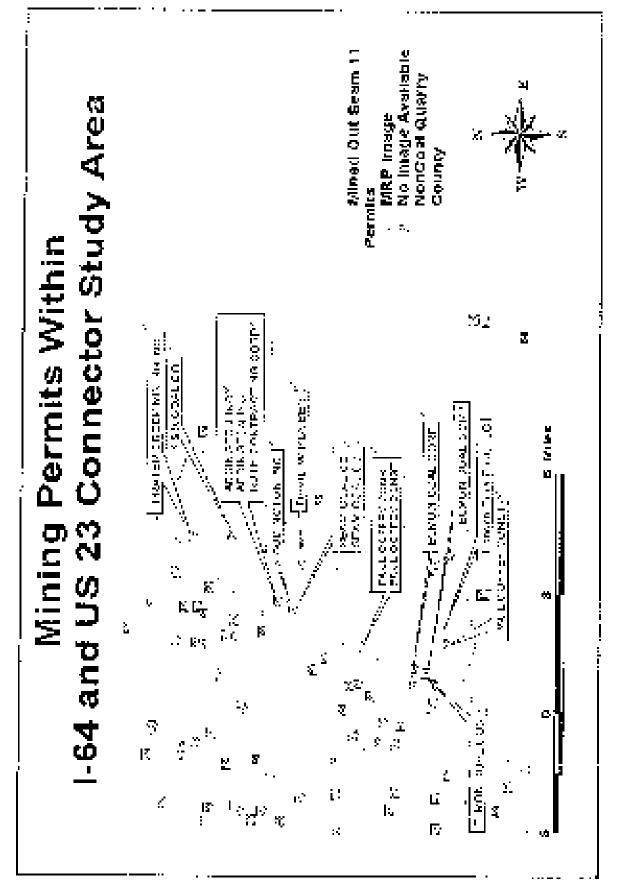


Figure 1. Laradian of Cost and Quarry Mining Permits within the Study Ans.

FAA, letter 12/3/2007



... S. Jovernier I Official and Clar Peperal Aviglien Administration Margarette in the more of the 2002 Turk service Point III (in a constitution of the point III) and the 2002 Theorem 2004 2005 M2

Gebernber 3, 2007.

Katrina O. Dradley IP.F. Kentucky Transportation Cahings Department of Highways, Dector 8: P. O. Box 347 Fleid nosburg, KM (4)744

Cost My, Evadley,

This is in response to your letter to Mr. Phillip Braden, bated November 27, 2007 requesting information on any impacts boach might proposed highway in provements in Boyd Caunty. These approximated the immaga your proposed construction as tollows.

Point 1: Intersection of  $\pm$  ghwey 5 and alighway 22  $\pm$  lecture 38, 29.45,23, to igitate 32.22,06.53

Point 21 Intersection of Highway 50 and JiS 54 - Whitpe 38 21 52,18, langitude 82, 46,35 90

Point 3: Intersection of Highway 180 and US 64 – Islande 38:22 06.56, longitude 94:41 53.41

Puint 4: intersection is Highway 60 and Greenup Ava. —tattiude 38 28 57,33, ongqude 82 38 32,21

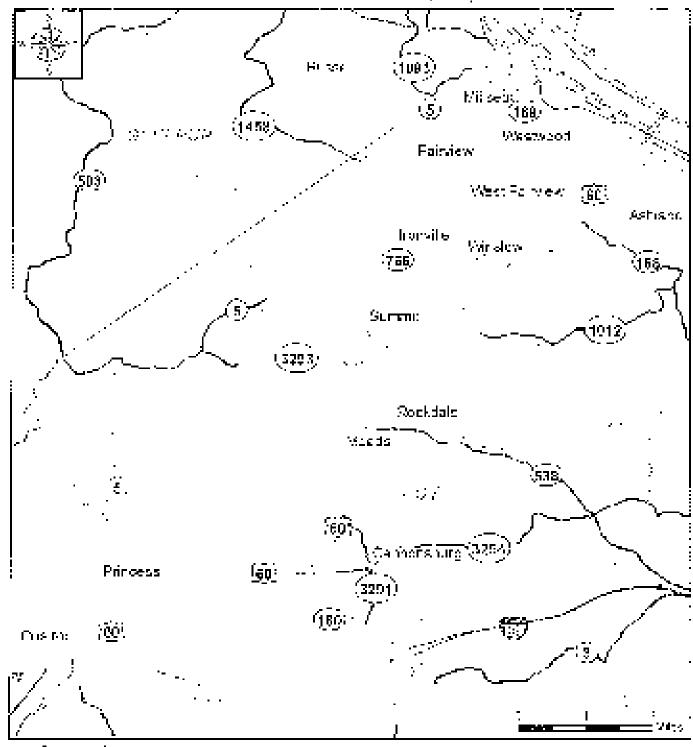
Hispsa balasvised that the Ashland Roginnal Almost Loost up teemilisation DiVid Is located 4.85 miles from Print 1. It is my responsibility to inform you many public use airports within a six mite radius of proposed construction and ask that you review the instructions to FAA Form 7430 1 to determine if you need to submit the form for further my dw or the proposed construction. If have attached the form and instructions to your use. Please review my construction finite approximation for accuracy to your use.

Sancere v.

Michael III Indepedia Propositi Manager

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DEC - \$ 2007



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# STUDYAREA

H84 to 5 o 1 7 Acres of Connector Boya County KYTO New V9-129 60

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ENTRAN

KEPPC-DEP Division of Air Quality, letter 12/20/2007 Sizveniu. Bushou-Covernor



#### Continuouslib of Kontorty Environmental and Public Protection Cabinot Department for Environmental Protection

Division for An Chiefey 1938 Schenkel Lane French I, Kin Bucky (CH01-161) www.ajn.ko.gby Devember 2019 (Ch03 Record 3 Vanco Seigneere

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564 - 3, 703

TRAKSFORTATION UNITARY ISTRICTS

Mr. Denna Miner, P.E. TEBM: Blocking (TPhoning) Rentucky Transportation Cabina – Bisma 9 Olfica 822 Edzaville Jorad 190, Dox 347 , Jeoinesburg, Kentucky 41041

Den Ms. Müler:

he Division like reviewed the pointing stray like evaluating proposed highway in provinces, for the i-64 to US 25 Ashhard Connected in Boyd Couzer, from Number 9-129.55. The following Nemucky Administrative Regulations mody to one proposed project:

Knot take Preision for Air Quality Regulation 401 KAR 60:010 Engitive Emissions somes that no present shall crosses suffer or a law may minimize to be function, processed, temperated, or at male a found taking mass robbin process, inpute previous profession rather from becoming surface. Additional requirements facilities the severage of open bodied tracks, operating outside the work area transporting materials likely to become authorise and that no end shall allow earth or other material heing transported by track or earth moving equipment to be deposited onto a protest street or total endy. Please note the Highline Emissions ricel Sheet, occated in hit or have well by good propagation assistance (Beningdong Long.)

Westurky Division for Air Quality Reg. Intion 408 NAR 65:005 states that open borning is prohibited. Open Durning is defined as the burning of any matter in such a manner that the products of combustion resulting form the purning are emitted directly into the outdoor armosphere without passing mengh a smooth charge. Open burning may be utilized for the expression purposes listed as the Open Burning From Steel located at him. However, in productions are purposed payment as a permissible method of disposal, the Division costs, against charge at most of charges as a permissible method of disposal, the Division costs, against a most of charge at a most of charge at the method of his posal. The Division costs, against a most of charge at the project.

Protein Regulations



An Equal Export saits Edge (see Merch)

Mr. Deanna Million Page 2 December 20, 2007

Finally, distroperts listed withis document must be obtained by explanately exquirements of the Clean Air Act as accorded out the transportation planning provisions of Table 25 and three 47 or United Street Clean.

The 1279566 also suggests on investigation into compliance with applicable from government regulations

Fig. 5 about Should be trade to criminally compliance with the remarking a galations seal evaluation. The Division 2 so \$355 yis an investigation into complicate with applicable regulations of the local process and s. If there are any questions relating to this matter, please contact the barger of (\$32) \$33-5362 extension \$38.

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 $181.7\,\mathrm{mf}$ 

Kentucky NRCS, email 6/16/2008

# Young, Chris

From: Adams, Jerry - Lexington, KY [jerry.adams@ky.usda.gov]

**Sent:** Monday, June 16, 2008 3:59 PM

To: Young, Chris

**Subject:** Boyd Co Prime Farmland **Attachments:** BoydCo\_primefarmland.pdf

#### Chris

Attached is report you requested.

Here's a link to the Soil Data Mart: <a href="http://soildatamart.nrcs.usda.gov/Default.aspx">http://soildatamart.nrcs.usda.gov/Default.aspx</a>
And Soil Data Viewer that utilizes info from SDM to create maps. <a href="http://soildataviewer.nrcs.usda.gov/">http://soildataviewer.nrcs.usda.gov/</a>
I dont believe there's any restrictions on either's access.

The District Conservationist for Greenup and Boyd Co is Earl Johnson. His father passed away this weekend, but if you need future info you should be able to contact him at 606-833-0180. Let me know if you need additional info.

Jerry L Adams Area Resource Conservationist 771 Corporate Drive Suite 210 Lexington, KY 40503-5479

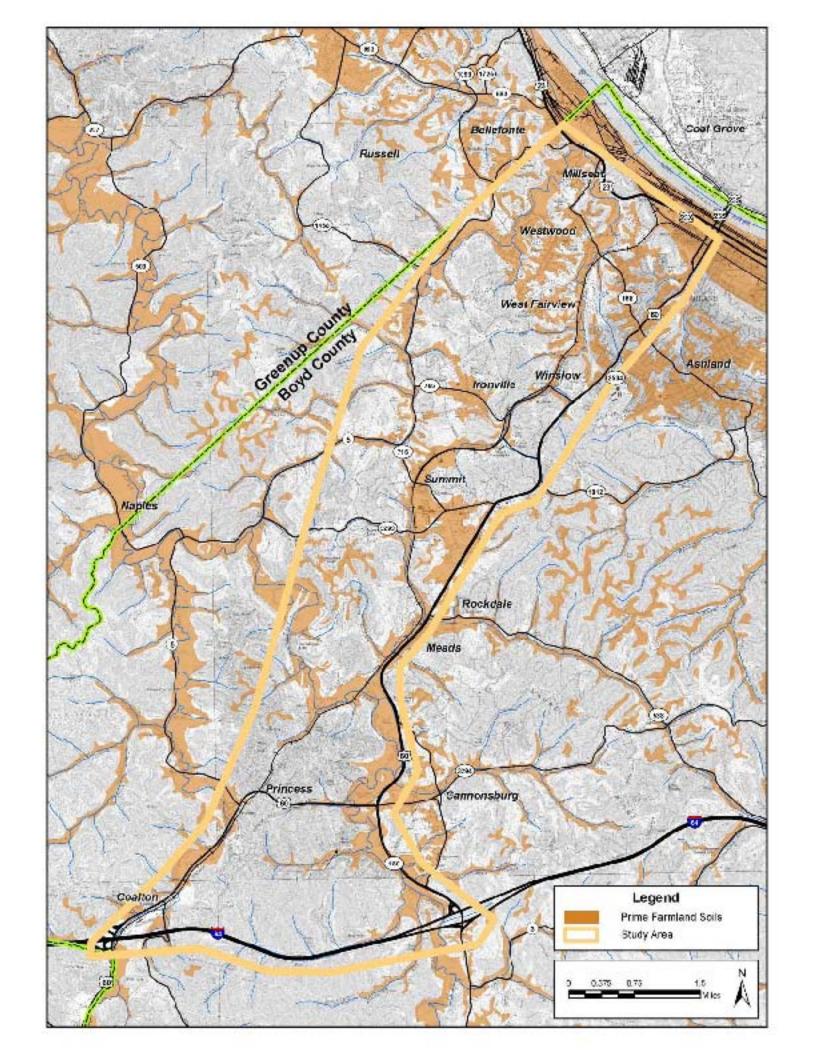
Ofc: 859-224-7381 Cell: 859-585-8090 Fax: 859-224-7602

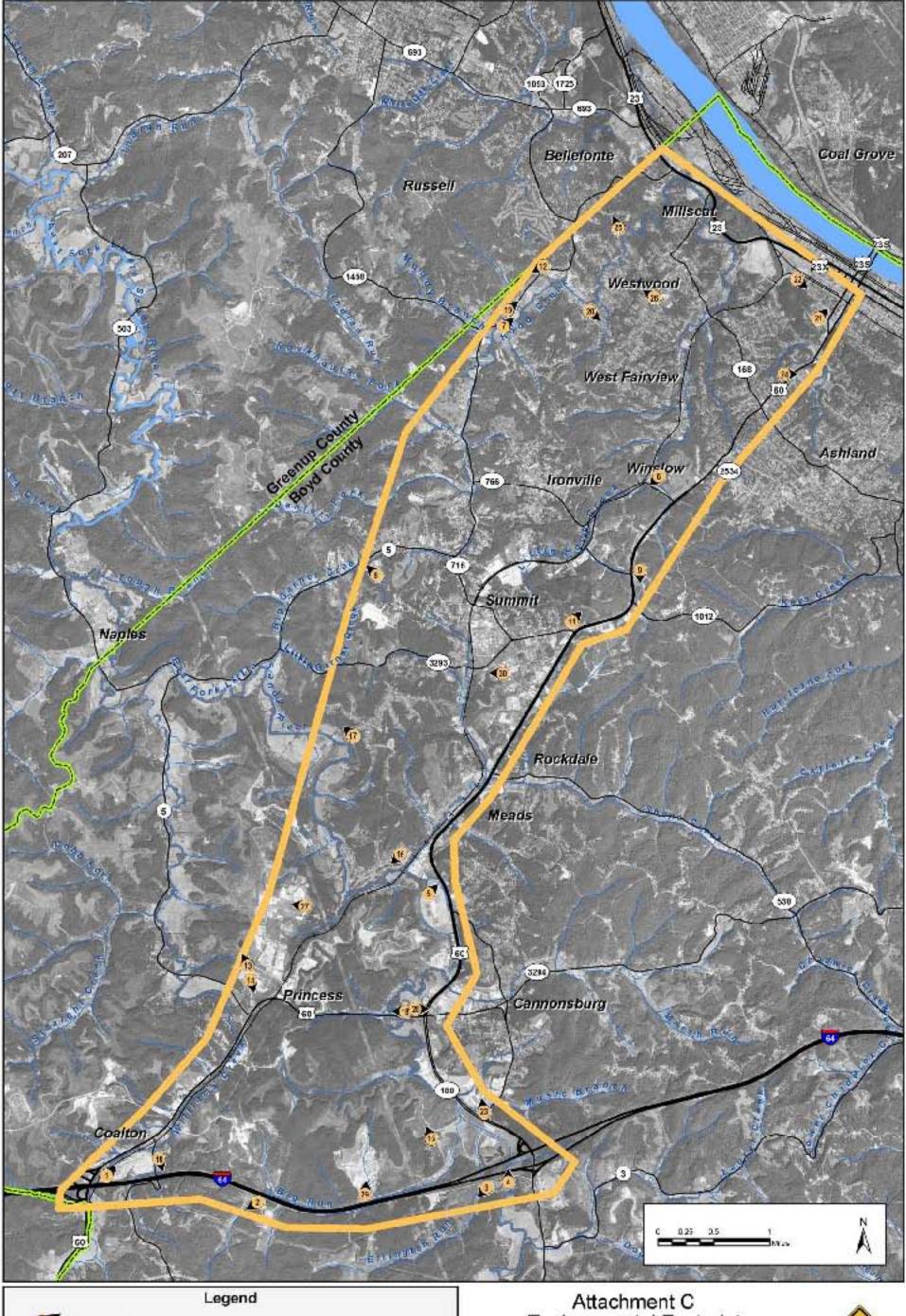
#### Prime and other Important Farmlands

Boyd and Greenup Counties, Kentucky

Map symbol	Map unit name	Farmland classification
AIB	Allegheny loam, 2 to 6 percent slopes	All areas are prime farmland
ChA	Chavies fine sandy loam, 0 to 6 percent slopes	All areas are prime farmland
Co	Cotaco Ioam	All areas are prime farmland
kA	Elk silt loam, 0 to 2 percent slopes	All areas are prime farmland
HsB	Hayter silt loam, 2 to 6 percent slopes	All areas are prime farmland
₋tA	Licking silt loam, 0 to 2 percent slopes	All areas are prime farmland
ИkВ	Markland silt loam, 2 to 6 percent slopes	All areas are prime farmland
√lnB	Monongahela silt loam, 2 to 6 percent slopes	All areas are prime farmland
<b>DtA</b>	Otwell silt loam, 0 to 2 percent slopes	All areas are prime farmland
ScB	Shelocta gravelly silt loam, 2 to 6 percent slopes	All areas are prime farmland
ΊΒ	Tilsit silt loam, 2 to 6 percent slopes	All areas are prime farmland
VcB	Wernock silt loam, 2 to 6 percent slopes	All areas are prime farmland
VhA	Whitley silt loam, 0 to 2 percent slopes	All areas are prime farmland
VhB	Whitley silt loam, 2 to 6 percent slopes	All areas are prime farmland
AIC .	Allegheny loam, 6 to 12 percent slopes	Farmland of statewide importance
SIC	Gilpin silt loam, 6 to 12 percent slopes	Farmland of statewide importance
lsC	Hayter silt loam, 6 to 12 percent slopes	Farmland of statewide importance
.mC	Latham silt loam, 6 to 12 percent slopes	Farmland of statewide importance
ЛС	Markland soils, 6 to 12 percent slopes	Farmland of statewide importance
/InC	Monongahela silt loam, 6 to 12 percent slopes	Farmland of statewide importance
RnC	Riney loam, 6 to 12 percent slopes	Farmland of statewide importance
ScC	Shelocta gravelly silt loam, 6 to 12 percent slopes	Farmland of statewide importance
TC .	Tilsit silt loam, 6 to 12 percent slopes	Farmland of statewide importance
VcC	Wernock silt loam, 6 to 12 percent slopes	Farmland of statewide importance
VhC	Whitley silt loam, 6 to 12 percent slopes	Farmland of statewide importance
/lm	McGary silt loam	Prime farmland if drained
Ло	Morehead silt loam	Prime farmland if drained
Vb	Weinbach silt loam	Prime farmland if drained
Во	Bonnie silt loam	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Nk	Newark silt loam	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Sm	Stendal silt loam	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Sn	Stokly fine sandy loam	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
As	Ashton silt loam	Prime farmland if protected from flooding or not frequently flooded during the growing season
Cu	Cuba silt loam	Prime farmland if protected from flooding or not frequently flooded during the growing season
···	Huntington silt loam	Prime farmland if protected from flooding or not frequently flooded during the growing season
-u	Lindside silt loam  Nolin silt loam	Prime farmland if protected from flooding or not frequently flooded during the growing season  Prime farmland if protected from flooding or not
No Pf	Pope fine sandy loam	frequently flooded during the growing season  Prime farmland if protected from flooding or not
Pg	Pope gravelly silt loam	frequently flooded during the growing season  Prime farmland if protected from flooding or not
Э	. Spo gravery difficulti	frequently flooded during the growing season









**Environmental Footprint** 

### PHOTOGRAPH INDEX MAP



I-64 to US 23 Connector Boyd County KYTC Item #9-129.00





Photo 1: Representative Photograph of Williams Creek in the Study Area, a USGS Perennial Stream.



Photo 2: Representative Photograph of Big Run in the Study Area, a USGS Perennial Stream.



Photo 3: Representative Photograph of Ellington Run in the Study Area, a USGS Perennial Stream.



Photo 4: Representative Photograph of East Fork Little Sandy River in the Study Area, a USGS Perennial Stream.



Photo 5: Representative Photograph of Shope Creek in the Study Area, a USGS Perennial Stream.



Photo 6: Representative Photograph of Little Hood Creek in the Study Area, a USGS Perennial Stream.



Photo7: Representative Photograph of Hood Creek in the Study Area, a USGS Perennial Stream.



Photo 8: Representative Photograph of Big Garner Creek in the Study Area, a USGS Intermittent stream.



Photo 9: Representative Photograph of an Unnamed Tributary to Little Hood Creek in the Study Area, a USGS Perennial Stream.



Photo 10: Representative Photograph of an Unnamed Tributary to Williams Creek in the Study Area , a USGS Intermittent Stream.



Photo 11: Representative Photograph of a Non-USGS Ephemeral Unnamed Tributary to Shope Creek in the Study Area.



Photo 12: Representative Photograph of an NWI-Mapped Palustrine Emergent Wetland in the Study Area.



Photo 13: Representative Photograph of a Non-NWI-Mapped Palustrine Emergent Scrub-ShrubWetland in the Study Area.

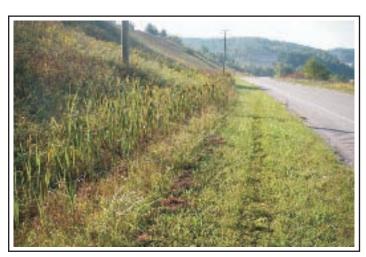


Photo 14: Representative Photograph of a Non-NWI-Mapped Palustrine Emergent Wetland in a Roadside Ditch in the Study Area.



Photo 15: Representative Photograph of a Pond in the Study Area.



Photo 16: Representative Photograph of Sandy Creek Golf Course, and a Gray Bat or Indiana Bat Potential Habitat Tree in the Study Area.



Photo 17: Representative Photograph of Gray Bat or Indiana Bat Potential Habitat in a Rock Face with Cavities in the Study Area.



Photo 18: Representative Photograph of Forested Land Cover and Right-of-way Land Use along Westbound US 60 in the Study Area.



Photo 19: Representative Photograph of Suburban and Rural Land Cover in the Study Area; Agricultural, Residential and Commercial Land Uses.



Photo 20: Representative Photograph of Suburban Land Cover in the Study Area; Residential Land Use.

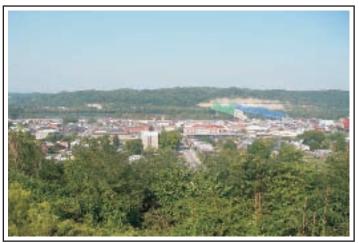


Photo 21: Representative Photograph of Urban Land Cover in the Study Area; Downtown Ashland - Residential, Commercial and Industrial Land Uses.



Photo 22: Representative Photograph of a Public Park in the Study Area; Dawson Pool Park, North of US 23.



Photo 23: Representative Photograph of a School and Athletic Complex in the Study Area; Boyd County High School and Athletic Fields on Midland Trail Road.



Photo 24: Representative Photograph of a Learning Center in the Study Area; Ashland Community and Technical College on College Drive.



Photo 25: Representative Photograph of a Church in the Study Area; Bethel at Westwood Church on Sarah Road.



Photo 26: Representative Photograph of a Cemetery in the Study Area; Dixon Cemetery in the City of Ashland on Main Street Between McClure and Fairview Avenues.



Photo 27: Representative Photograph of an Industrial Area in the Study Area at US  $60\,\mathrm{and}\,\mathrm{KY}\,5.$ 



Photo 28: Representative Photograph of a UST Facility in the Study Area; Super Quik Gas Station and Car Wash on US 60.



Photo 29: Representative Photograph of a Landfill in the Study Area; Cooksey Brothers Landfill, Closed, CERCLIS-Superfund Property.



Photo 30: Representative Photograph of AST's in the Study Area; Oil Tanks and Wells South of KY 3293.



## **Appendix D – Historic Resources Overview**

# A CULTUR<u>AL HISTORICAL RESOURCE OVER</u>VIEW FOR INTERSTATE 6<u>4 TO ASHLAND PL</u>ANNING STUDY BOYD COUNTY, KENTUCKY

KTYC Item No. 9-129.00

hγ

Holon C. Powell

H. Fowell and Co., Inc. 838 East High Succe Box 253 Lexington, Kentucky 40602 (858) 233-8418

for

Entran 400 East Vine Street Suite 300 Lexington, Kentucky 40507

(859) 233-2100

Helen Powell - Principal Investigator December 2007

Lead Agency Department of Transportation

## Abstract: Overview of Interstate 64 to Ashland, Kyl Connector Planning Study. Doyd County, KYTC Item No. 9-129.00 page 1 of 2

William the proposed planning study area for the Interctate 64 to Ashland.

Kentucky Planning Study are the following two historic districts and two individual proporties which are listed on the Mahonal Register.

Akhland Hieland Commercial District Which contains 63 ballologs, listed in 1594. (Site: PP)

Nath Avenne Historic District which contains 28 dwellings, fisted in 1979. (Site EE)

Personal Theater, 1304 Windhostor Avel, listed as individual property in 1975 and included in the Ashkand Flistona Commercial Listoit (See 197) in 1994

St. James African Methodist Episcopal Church Tisted in 1979. Once NN;

As the result of coordination with the SHPO on compliance reports the following situs were Determined : ligible by Agreement by SHPO

Ottedropte Spain Concrete Bridge, US 60 over Little Sandy River (Site C). Williams Creek Bridge, Lumreak (Site D). Summit Missionary Baptist Church, KY 716 (Site I).

The following site was Determined Highlie by the Keeper of the National Register.

Legieral Correctional Institution and Poson Carno (ECDECP) (Site 3):

After a windshield survey, the following six historic districts appear to meet. National Register criteria.

Prospect Pleas: Historic District (Site Z)
Midland Heights District (Site AA)
Graysonia Historic District (Site 8B)
Grayson Road Historic District (Site 66)
Lexington Ave / 14" Street Historic District (Site 67)
1100 Block Bath Ave / 12" Street Historic District (Site 9)

The following 26 individual properties appear to meet National Register orders:

Dwolling, 2105 Midfand Trail (3/te A)

House, 8831 Meade-Springer Road (Site E)

#### Abstract: Overview of Interstate 64 to Astrand, Ky. Connector Planning Study. Boyd County, KYTC Item No. 9-129.00 page 2 of 2

Dwotting, 9223 Meart Springer Road (Site F). Bundalow and Barns, 6517 Mead Springer Road (Site G). Turkar Regioni Historica, 835/839 KY 715 (Site H). 1 Plan Dwelling 3283 KY Z18 ISite U. Thornberry House, KY 716 (Site M). ARMOO Park, US 80 (Site N). 移動性の対象 [Symey House (Site f)] Bridge over Little Hoad Creek (Site 11). www.twa.ad-Christian Church, 713 Wheatley Avenue 464e Q: Bijl Mgyherry Honse, 2633 Mem St., Fairview (Site Ro. Fullyiew Cym. Fairylew High School 2 120 Main St. (Site 5). Lag House, McKinght St., Wast Facilities (Site T). Dwelling, Nichols Place (Site U). Lea House, York St. (Site V). Pollant Haphat Church, Blackburn Ave. (8ite W). Christ United Methodist Church (Site X): Dwelling, 321 Harrison (Site Y). Fortar Region Building, US 60 (Sile OD). Tudor Revival (Swelling, 19<sup>9</sup> St. (Site (4G)) American Foursquare, Barn Ave. (Site HH): White Swan Leanthy Building, Central Ave. (Site KK). Commercial Building/ Hotel, 336 346 131 St. (Site U.) Salvation Army Building, 1225 Carter Ave (Site MM). Chasapeake and Ohio Passenger Deport Certer Ave. (Site OO).

I to the location of those sites with National Register potential, see the project map (Figure III-1). A final determination of National Register eligibility will require administrate until photography, physical examination of the attrictures, an evaluation of these effect relative to the integrity standards established by similar proporties in Boyd County. Kentucky which are numerity listed on the National Repister, and consultation with the State Historic Preservation Officer (SHPO) at the Kentucky Hentage Council in Lightford.

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gun <del>g</del> 10-12	Downtown Commercial Historic District (Sto PP)	III <b>3</b> 4

#### INTRODUCTION

#### Records Search

To determine it there were untwitheliaites or districts on the National Register within the study area for the interstate 64 to Ashland Connector in Boyd County.

Kentucky, the concultant reviewed the survey stee for the counting of the Kentucky.

Heritage Council in Liankford - Liquie 1-1 allows the lucetion of the countor relative to highways and assument ties in Boyd County, Kentucky.

#### National Register Sites in Project Corridor

Astriand Commercial Historic District, listed in 1984.

The Ashland Commence! District consists of 84 properties in a 21-acre area bound by the LSSX (monerly LSG) Redroad tracks and the Ohio River on the morth 186 Street on the Heat, Carlos Avenue on the south, and 13° Street on the west. The brick commercial buildings included in the district date from 1990 to 1940, but over half or 43 of the buildings date from the period from 1900 to 1925, a period of expansion for Ashland.

#### Bain Avenue Historic District, listed in 1979.

The Both Avenue Historic District includes four blocks on the north and south sides of West traffic Avenue between 13th Street and 17th Street Mostoric Bath Avenue was a resignificational occup od by the inhoteenth century owners and managers of Ashland's Industries. Large scale houses continued to be built there into the twentieth century. The street contains an impuritant group of dwellings built in a Variety of styces unparalleled elsewhere in Ashland. Commercial development of the 1300 block has severed the west ond of the block from the neighborhood, built he remaining four blocks.

(1999-1600) are well maintained and unspoiled by intrusions.

#### <u>Paramount Theater, 1304 Winshester Ave. listed in J.975.</u>

The Paramount Theater was also included within the boundaries of the Ashland Commercial Historic District in 1994. Completed in 1991, the Paramount designed in the An Deco style and provided seating for 1998 people. For many years, the Paramount was the region's only movie house which allowed Telking pictures.

#### 331 James Atricen Methodra: Ediscoput Church, bated in 1970.

Fatablished by the Reverend Christopher Seals circa 1860, the present day St. James African Methodist Lauscopal Church was rempleted in 1812. The entry to the one and one half-clory front-gabled back church is through a hip-roofed corner bell hower. Above the wandows are stone lintels, it was fisted as the National Register in: 1970.

#### Properties Determined Flights by Keeper in Project Corridor.

Tederal Corrections Institution and Poson Camp (30-63), KY 716, Summit The original FCI/FCP on oplex has been Determined Eligible for the National Register under criterion A for its association with the early development of the Federal penitentiary system and under cuterion C as an example of correctional architecture. Itsm the tale 1930s and early 1940s.

#### Properties Determined Ellaible by Agroement in Project Corridor

Quadrupte Span Concrete Bridge (BD 961), US 60 over East Fork of the Little. Sandy River, 2002

Withorns Creek Bridge (BD 27), Old KY 5, Phincess

Surproit Missionary Repliet Church (III) 583), KY 716, Summit.

#### Literature Search

The literature search on the project study area was conducted in the survey and Mahonal Register Stea, compliance report library of the Rentincky Mantage Council and the University of Kentucky Map Collection

National Register nomination about commercial buildings.

The survey forms and survey report. In: Poyd County completed by Helen Powell and James Powers in 1997 had information on ordidings in the rounty which were documented in an update of the Boyd County survey in 1992. In Boyd County, outside of Astriand and Catlettahurg. 338 sites were documented. A shape tile for the GIS Incations of all surveyed sites within the study area was requested and received from the Kentucky Heritage Council. When the results of the GIS mapping were compared to the maps from the 1992 survey and sites in the field, the GIS map proved to have many misks sites after and was not used in the preparation of the overview.

#### Books and <u>Reports on Boyd County</u>

For the history of the Ashland, "A History of Ashland, Kentucky from 1788 to

1654" prepared by the Ashland Centennial Committee in 1954 provides the most comprehensive history of the community.

"The New Deal Builds: A Historic Context of the New Deal in Last Kentucky, 1933-1943" by Rachel Kennedy and Cynthia Johnson provided a matery of this WPA in Bright County and information on the fate of specific buildings from the era. All of the references consulted are listed in the biblingraphy.

#### Field Work

In the fall of 2007, the consultant rich a weeksheld survey of the Interstate 64 to Ashtand, Kentucky Connector Study Area, Included in the windshield survey vector buildings vielble from public roads. Bulldings on the interfers of farms or structures which were not accessible, were not included. Wuldings which appeared to have potential to meet National Register orders were voted up the project map (Eigure III-1) and were given a preliminary National Register evaluation, based primarily on Criterion C, architecture.

For the overview, no buildings were inspected in detail. A final determination of National Register eligibility science to criteria A. B. and C will require additional research, photography, physical examination of the structures, evaluation of each site relative to the integrity standards established by similar property types in Boyd Churdy which are correctly listed on the National Register, and consultation with the State Historic Preservation Officer at the Kentucky Heritago Council in Frankfort

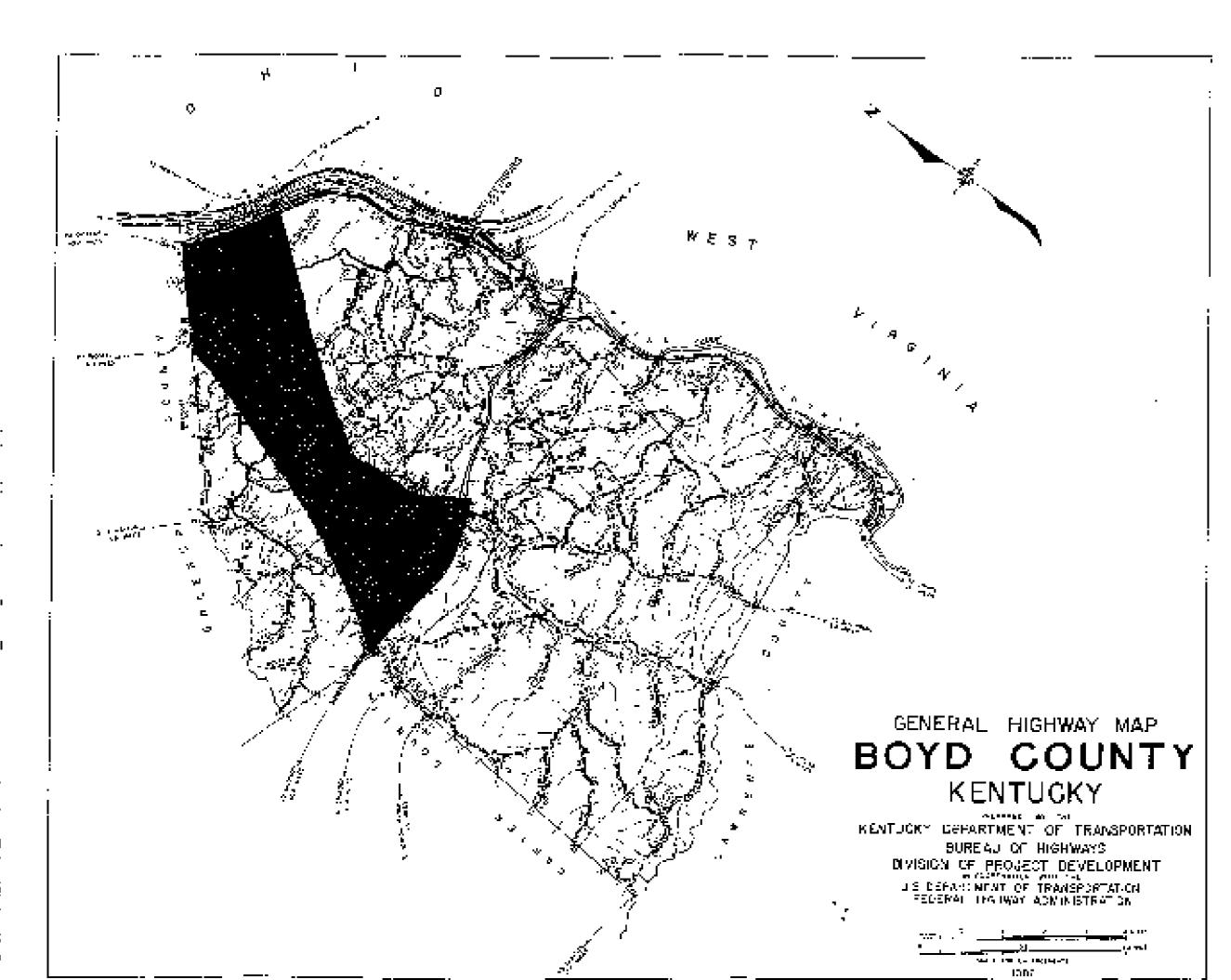


Figure I-1 Project Study Area Boyd County Overview, 2007

#### II. OVERVIEW OF THE PROJECT AREA

#### Boyd County

Boyd County is located on the Obio and tilg Sandy rivers in the extremo northweatern part of Kentinsky, an arce classified as the Mountains and Eastern Coa. Fickly, Ashrand is the major urban center in the county. Nearby major cities in adjoining states include Portsmouth and Ironion in Obio and Hunlington in West Virginia.

Approximately 80 per cent of Boyd County consists of sheep to very steep hillsman with small 15 per cent of the county being level to gently sloping flood plants and remaces. The remaining 5 percent of the county consists of gently sloping to moderately sloping steep ridges and high sheem tensors. Hevelouss range from 500 feet above see level along the Onio Rivot to more than 1.100 foot above see level on the higher ridges.

Boyd County is dissected by streams which flow north two the Ohio River or east into the Isig Sandy River. Introduces of the Ohio River inclode the Feat book of the Little Sandy River. Head Creek, and Williams Creek. The Big Sandy River originates in southwestern Virginia as two separate waterways called the Levisa and Tug Lorks. The two tarks join 25 miles south of the Ohio River. In Boyd County, Celletta Creek. Chartoick Creek. Whites Creek, Durbin Creek, and Bear Creek flow into the Big Sandy River.

Iron Industry, Hoyd County.

Boyd: Creenup, and Certor Countles in Kontucky were part of the 186-mile area known as the Hanging Rock region

мфър. DARFER. HANGING SIGHT DEG ON  $\in \mathcal{A}(S_{k}(X))$  in (i.e., . Postano diadang Distr. Ringwick Military where ⊈ bereitetenn berta.

Figure (I.4) Hanging Book Region of Kentucky (10<sup>th</sup> U. S. Consus, V. 15).

This area attracted German and Irish immigrant laborers, iron masters from Pennsylvania and wealthy investors from the dast. A total of 29 chardoal-fueled iron furnaces operated on the Kentucky side of the Ohio River. Nine of these furnaces were in or near present-day Boyd County including the Bellefonte Furnace, 1828; Clinton Furnace, 1833; Oakland Furnace 1834; Princess Furnace, 1837; Buena Vista Furnace, 1847; Sandy Steam Furnace, 1853; Boone Furnace, 1857; Norton Furnace in 1873; and the Ashland Furnace in 1869.

The photograph below shows the wail of the Princess Furnace on KY 5 behind a modern house, west of the project corridor in Boyd County.



Kentucky's highest national ranking as a producer of iron ore occurred in 1850 when the state ranked fifth. In 1860 and 1870, Kentucky's ranking dropped to sixth. By 1880, Kentucky had dropped to twelfth. In the late nineteenth century, the Lake Superior

District composed of Wisconsin, Michigan, and Minnesote became dominant in the numinativity. By 1909, the combined production of the Luke Superior District and the Scotthern District (Alabama, Georgia, and Tennessee) accounted for approximately 90 percent of the total ron pre-formage produced in the United Stelles.

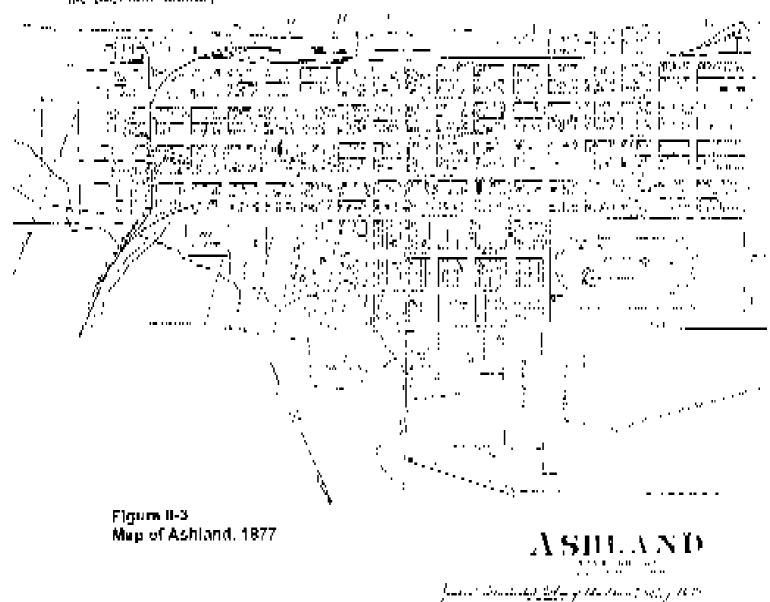
#### Development of <u>Astriand</u>

Ashland, first known as Poago Settlament, was settled by Robert Poage and his sons. Robert, it and George, as well as George Poage and his son John. The Poages, who were from Virginia, held life to thousands of sons of land outsined through the William Sell patent and reasony land warrants.

The area in the vicinity of present day Ashland was not in timber roal, and mostone inocensory for the production of piguron and accordant activated industrialists from the exist. The community of Ashland was developed as an iron export center by the Kentucky Iron and Coal Manufacturing Company in 1854. It was named Ashland after Henry Clay's estate in Lexington. Mailtin Lobey Billion, chief engineer to the Lexington and the Sandy Reithoad, laid out the original plot for the community which consisted of a god. The original layout consisted of a god pattern of stroots, twenty three blocks long and seven blocks deep which covered the expense of that ground between the Ohio River in the morth and is sense of hits to the south. The streets which were parallel to the Ohio River such as present day Winchester. Greenup, and Carter, were one hundred feet wide. Street which were perpendicular to the river were eightly feet vide.

A titteen-square black park in the southwest corner of the grid, cresent-day then the liver became the city's primary open space. The strip of land between the river

and the northmost smeat wax texes and a an industrial zone, a function it served with the  $m_{\rm C}$  (we that) century



Frant Street, which taked the noer was to be the primary commercial street. In 1854-1866, the Kentucky Iron. Chair and Manufacturing Company built a four story botel known as the Aldine et the comercial present day Front and Fitteenth streets. In the late.

cincleenth century. Ashiand's commercial activity moved away from the river and Front.
Street to Winchester and Greenop Avenues

Since the early twentieth rentury. Whichester and Greenup Avenues have been the center of the downtown business district. Two- and thece-study, transof-the-century, commercial buildings line these streets. Many are brick structures with cast iron first-floor shop transs with simple stone from an the upper tenades.

By the fate mineteenth cantury, industrial workers were living at both the east and west unds of Greenup Avenue and adjoining streets. The frame shotgun houses they accupied on property owned by the Ashland Coal and Iron Mailroad were removed during urban renewal in the 1960s.

Sv the fate inneteenth century. Whichester, Carter, and Railway (present-day Central) avenues had become substantial middle class residential districts. Of the three streets. Whichester Avenue appears to have had the most distinctive arontesture.

Western Beth Average was a heighbolhood occopied by the nurehearth century owners and managers of prominent Ashland Industries. Many houses were architect designed as in the case of the WTF Seaton House, 1401 Bath Avenue which was designed in 1803 by S. Floyd Hoard from Corodo. What Virginia. WTF Seaton was the manager of the Bellefonte Furnace. Abraham C. Campbell, whose home at 1304 Bath Avenue was completed in 1870, was a successful financial who built the Ventura Hotel and was involved in the catablianment of several local banks. The Rufus Van Sant-Ritcham House, builder of the house 1001 Bath Avenue, was the owner of the Van Sant-Ritcham Lymber (Company).

Although Lexington Avenue was included as the southern boundary in Martin Hilton's plan for Ashland in 1854, the street was occupied by only one or two houses until the late nineteenth century. In 1855, Hilton built his own home on the hillside above texington Avenue, from industrialist Thomas Means built a large brick Italianate house further east on the hillside in 1876 as a wedding present for his daughter. The only midnineteenth century house built directly on Lexington Avenue was the brick Greek Revival Hagby Himsel constructed in the prosent day 1500 block of the street. Most of the recentern century and are variations upon the Colonial Revival style. The dwellings along Lexington Avenue and 14<sup>th</sup> Street (Site LE) appear to be pact of a larger potential historic distinct

As ITS 80/ Mayo Trail travels south from Lexington Avenue it passes through numerous subdivisions, most of which date from the 1920s when Ashland experienced significant population growth with the arrival of American Roller Milling Company and the experience of the Chesapeake and Ohio Railway.

Immediately south of the original Ashland plat are the Long Run subdivision on the west which dates to 1998. On the east along the blutts overlooking the city is the Phisoneci subdivision which dates from the 1920s followed by the Avendale subdivision which was platted in 1914.

On the cost side up to Beech Street are, Beverley Hills, 1924. Worts Subdivision, 1928. Highlawn, 1923. Grayson Road, 1920-23. Adkins Brothers Addition, 1949. Western Hills, 1949. Luberculosis Sanatarium Property, 1947. Skyrne Acres, 1964;

Heist Admition, 1960. On the west side are Stephens Addition, 1924, Graysonia, 1924.

Midland Heights, 1919; Rose Hill Bunal Park, 1927; and Mongling Heights, 1951.

See the Map of Ashland, 1937 (Ligure II-4) which shows the locations of subdivisions.

Of these subdivisions, four neighborhoods appear have potential to be historic districts because they retain significant amounts of their architectural integrity and have few modern introsions. Prinspect (Site Z) is correctly large two-auxi-mon-hath-stricy, circle American formations and Cultimat Revival dwellings built before 1927. Micland Heights (Site A/L) contains two story, brick and frame Colonial Revival dwellings.

Graysonia (Site BB) has two story, brick American Ironsonares string 13th Street, with frame one and one-half-story dwellings dating from the 1930s and 1940s on the infence streets of Algoriguin and Troquois. Grayson Road (Site CC), which includes Cumberland Avenue, Kentucky Avenue, and Central Parkway is notable its curvilinear road pattern which includes areas of common green apage. The Ironsee are one-encisone-half-story times and frame Colomal Revival structures built before 1927.



#### Мейсед<u>я із Ви**ла Со**фти</u>

 $A_{\mathbf{x}}[\eta]$  and  $\mathbf{x}$  [logarity] on the Ohio River was influential in the iron menufacturing. company's choice of the site for a community, but set in as tree to be developed to transport the rew meterials, iron ore and coal, from the interior of Boyd County to the turneous on the Ohio River In 1851, the Benfucky Legislature passed an actincorporating the Levington and Big Samily Railroad. The original plan was to lay a railway line from MI. Steiling to Callettsburg and connect with the Ohio and Rig Sandy. Rivers. The furnise men living in the vicinity of Prage's Settlement, present-day. Ashland, knowing of the incorporation of the Lexington end Big Sandy Reitroud, desired. to have the male come closer to their formaces. They formed a company, took options. an tarida, erai leia usa a towa at Poage's Sottlement. The Legislature was petitioned in ража ыл Арт оf Incorporation for the newly formed company, the Kemucky Iron. Coar, and Manufactures Company. A committee met with the directors of the fallroad. company to print but to them the advantages of changing the proposed route of the renway to include the new town, present day Ashland. The furnecement bought skick in the ratinger which helped in the finencial difficulties. In 1854, 1500 scres of land was purchased by the Kentucky Coel, Iron, and Manufacturing Company. In 1957, the transignor and Big Sandy Rallmad (LØDS) connected Ashlend to Youkeas, a coal end [rop community in xouthwestern Boyd County. Track was laid to Coalton in 1888 and to Rush in 1877.

Another railroad serving Ashland was the Chattern, incorporated in 1873. Its joing happy goings line commented Ashland to the cost mines which had recently

opened at Peach Orchard in Lawrence County. The rail line was changed to standard gauge and in 1991 resched Unitial The example sounty seaf of Lawrence County. The line was exended an additional to Richardson in 1883, creating a 49-bitle line.

In 1873, the Chesapeake and Ohio Railroad (CKO) was extended from Rightmond. Virginia to the Ohio Rever et Buruington. West Virginia. The C&O Railroad wee completed to Architand in 1881. The owner, Cellis P. Huntington, had plans for a coast-re-coast rail empire. In 1880, the C&O Railroad gained control of the Lexington and Big Sandy Railroad. An arrangement with the Louisville and Nashville Railroad gave C&O trains access from a exington to Louisville white railroad cars bound for Cincinnat waste sent up the Kentucky Central to Covington. By 1834. Huntington centrolled railroads from C&O's coastern terminus in Newport News, Virginia, through Kentucky to the Pacific. Two leasest lines in Termessee and Mississippi gave the C&O access to New Orldeans.

To reach Cincinnatiand the mid western markets. Huntington built the 143 mile Maysville and Dig Sandy Rapicael along the Ohio River from Ashland to Covington. The radicael was finished in 1888 when the bridge ever the Ohio River to Covington was opened. These operations became the C&O's Cincinnati Division. The C&O's Big Sandy Division acquired the Chattera Radioad which unkert Ashland to Lawrence County in 1888. The purpose of the expension was the collection of coal from the sportings which pranched out into the large coal producing areas, primarily in West Virginia and castern Centures.

Huntington's reitized empire cid not lest. Revenues did not equal the costs of

assembling and running the rail network. The CSO Railroad was reorganized in 1880 and sections of the system dismembered. The Lexington and Dig Sandy Railroad was acquired by the CAO in 1982. The hig Sandy Division was apprached as part of the CSO is men to serve the equilificids in the Big Sandy region. By 1990, the CSO had built additional branches to serve Cloyd. Johnson, Knoth Magottin, and Pike Councy mines. Massive volumes of road were sent morth to Russell in Coorday County. From those, this reset was shipped entire morth to the industries in the Great Lakes region or east to the wast coast. The 1.950-foot long railroad ontige at the Onio River near timeville was opened in 1917 to provide a route for the CSO to the north.

Hy 1924. The C&O Ratioso had acquired the rights and the properties of the two earlier reduceds and was the reajor railroad through Ash and. In the Ashland vicinity, the railroad branched in three directions, with one line going to Louisville, another to Chicago, and a third to Ohio, Michigan, and to New York via Canada. The C&O built a redroed repair facility near the Boyd Greenup County line. Approximately 4,000 people were employed by the railroad in Ashland in various capacities in the 1920s. The present day C&O Passenger Station (SCe OO) was completed in 1926, represent an earlier depot.

After 1889, the C&O concentrated its Asbland area operations at Russoll. The Russell yard was expanded in the 1920s. If because the radioed's major coal facility in the eastern U.S. A freight car repair shop was completed in hearby Raceland in 1929.

The C&O was the dominant partner in a merger with the neighboring Baltimore and Obio in 1963. From that consolidation came the Chessie System in 1972. In 1986,

the operations of the Cheesie System and the Seebbaro Chast Line family of a troads were joined as a single system, CSX Transportation which scows two by states, the District of Colombia, and Ontano, Canada

The open hearth steel plant of the Asplend Iron and Mining Company, successor, to the Astaland Coal and from Company was built in 1916-1917, in the 1920s, the nonfurnaces along the Boyd Greenup County line were absorbed by the American Rolling. MII Company which produced steel sheets through a continuous rolling method. Tty 1922, Armon had arguired the properties of the old Ashtero Steef Company and the Norters from Works. When the American Rolling Company cheek Ashland as the site for its new steel processing plant, the resulting commercial expansion to service the new work force of 3,600 people violesser. Ashland's population from 15,000 in 1970 of 29 (III) to 1925. Suburba were ennexed to the city. In 1924, the Aaldend Oil and I Refining Company, which would become Ashland's second largest employer, was tormed. It guidhased a small retinery near Catlettahuro which had a 1,300 barret a day. capacity. Through the dispelopment of new properties, acquisition and/or marger with other companies. Ashlana Oil grew rapidly. By the 1950s, its capacity was more than 50,000 barrels a day. Disting the same time period, Ashland was known as the "Comparised to the C&O Redroud" accesses of the high volume of peasingers and freight which passed through the city on a daily basis. The growth of the railraad and steel industry in Ashland during the 1920s createst allowed a 100 percent population growth. rom: 14,729 residents in 1920 to 29,074 residents in 1930. In 1922, ARMCO accorded the properties of the old Ashland Steel Company as well as the Norton Iron Werks and

the Ironton, Ohio furnaces. This acquisition marked the beginning of the boom era in Ashland.

#### Bollefonte

Bellefonto is a residential suburb on the Boyd-Greenup County line. Bellefonte is bordered by the cities of Russell on the north and Flatwoods on the northeast. The community was laid out in 1918 and named for the charcoal fueled Bellefonte Furnace, an iron furnace which was built in 1826 by Archibald Paull, George Poage, and others. The stone stack of the furnace was 34 feet high with a maximum inner diameter of 10.5 feet. In 1874, a typical year, it produced 3,600 tons of iron. It was in operation until 1893 and left a slag heap of 300,000 tons.

The photograph below shows the stone wall of the Bellefonte Furnace which is west of the project study corridor on Oxcart Road in Greenup County.



#### Coalton

The Ashland Coal Company was incorporated in 1864 and purchased 9,000

acres of coal lands in Boyd County, known as the Coalton and Rosh tracts. These lands were decided to the Lexington and Big Sandy Railroad, Eastern Division, in 1866. Coal most were opened at Coalton in early 1967. The coal was shipped to Ashburd we the divington and Big Sarviy Railroad. The Coalton past other was established in 1866, but was moved here from Metcalfe Furnace established in 1846 which was also known as 28ar Lumace. The Coalton post office closed in 1929.

#### Carmonaturo

In 1838, determining H. Carmon bought a 100-acre traction the March Run project of the East Fork of the Little Goody River from Jacob Vanbribber. The local post office was established as hazilitorism. 1809 with John Colymas the postmaster. The harner of the post office was changed to Carmonstrong in 1850. The post office was discontinued in 1632.

#### Pollard/ Pollards Mill.

Polierds Mill was named for the quatroill owners by Henry B. Pollard in the present day western part of the city of Ashtland. The push office at Collards Mill established in 1847 precented the post office at Ashtand

#### Rush

The community extends for over two miles along KY 854 along Ringh Creek and its main fributary Williams Creek. Earlier known as Gelgervlite for the its early proper femily. The community grew rapidly around a roal seam known as Rijsh No. 5 which was developed by the Ashland Goal and her: Railway Company in the 1870s. The post office was established in 1990.

The extension of the railroad from Coalton to Rush in 1870 spurred further growth in Ashland. The company's name was changed to Ashland Coal and Iron Railroad in 1850. In 1924, the C&O Railroad purchased the Ashland Coal and Iron Railroad from the American Rolling Mil Company.

#### Suittint

Summit was named for its addition on an elevation traversed by the Chesaceake and Ohio Railroed

#### Westwood.

Westwood lies adjacent to Ashland and less than one mile from the Greenuc County tine. If may have been named by John Scaton, possibly for its location. The first Ashland bleat turneds was completed in 1669. It used the Coalton coal as fivel. The process also utilized local iron ore and timestone. The milial couput of 25 tons a day was later increased to 40 tons a day with the use of richer iron ore from Dath County. The company supplied coal to local businesses, fuel for steamboats, and shipping if by darge to Portamouth. Once, Mayeville, Kerducky, and Cindingali, Ohlo.

#### Boyd County New Deal Resources.

Property types identified in the Boye County as part of context for "The New Deal Builds: A Historic Context of the New Ceal in East Kentucky, 1933-1943" by Rachel Kennedy and Cyrithia Johnson include achools, gymnasiuma, a courtnouse, a public park, a prison incade and streets, bridges and culverts, sanitary sewers, a waterworks, earliery privies, a her haldhery, a retaining wall, and a WPA relief office. A field survey was conducted to verify the existence of resources described in the archival research for

the project.

Offen schools were constructed by the WPA, PWA, DWA, nr Kt RA as replacements for intepstated acrosts in order to modernize educations, facilities in a county. The WPA built three schools in Unyd County. Gymnasiums and other regregg opal tapild as like adhleho helds and playgrounds were also constructed during the New Deathers. These facilities allowed monitors of the community and achievelyidren to have a dedicated place to engage in physical activity. They also served 192415 from surrounding communities to play against the home team, providing local, entertainment. One gym end one playground word constructed by the WIPA in Boyd. County. The WPA schools in Boyd County agentified by Kennedy and Johnson were the Cannonsburg High School, the New Normal School, and the Summit School, None of those schools are still stanning. The Lauview Cym (5ide 5), built by the WMA in 1908, is, will used by the Families High School as a practice facility. The Patham Stediam in Ashland is located at the George M. Verty Middle School on 29th Street, Originally the school was known as Pulmani High School. The bound concrete startion has benbleachers that could be length of the feetball field and is still issing used. The Cettettscang Elementary School playground and bleachers built by the WPA is no longer extant.

The Ashland Inhrary was constructed by the WMA in 1998 on the edge of Central Park in the 1790 block of Contral Avidous. The uncestory functions bricking field Colonial Revival detailing including a columned posch and a cupola. The WPA library building was demailished in the late 1970s to meate space for a new Larary.

the Central Park Pool in Ashland, locally known as the Lity Pond, and sile.

sulpount path house were constructed by the WPA in 1935. Sentral Park is a 47 agree facility that dates to 1908. The unu-agre Lity Pond was originally designed to be in the shape of Kentucky, but was altered to avoid free roots. The proof was filled in during the 1950s, but was restored approximately fen years ego. Both the edge of the Lity Pond and the Bath Highes are built of native schoolers.

prison intrestructure. The buildings at treateral Corrections triatible (FCI) Ashrand (Site J) were built by the PVVA in 1908 with mad and sewer connections constructed by the IVPA. The prison is toosted in the town of Summit which is approximately five miles south at Ashrand. The prison's purpose was to house 600 about-term male inmates from the region it was one of the mile expressional matheticians built during the period from 1936 to 1939 purpose that decade of the Federal Bureau of Prisons.

The LCL Ashland facility was one of two facilities which used the fletephonic policities are consecut in which the long connecting condor pieces the housing doits at right angles. The original arte consisted of 22 buildings and support buildings all within the LC security compound. Within the complex were the Inflowing structures. Administration thicking. Hospital and Detention Building, from Cell Houses & Impugn F), four Dermitory Units (JA, JB, KA, KR), things and Recreation Building, Mechanical Services Fullding. Steam Transel, Commissary, Loundry, Power House, three Guard Towers (#1 through 3), Cerego Rout Cellar, and Sally Port Others a Station. The latter is the main and only entrance into the prison famility. Fix a exattrolled entrance through which employees, prisoners, and applies come onto the prison grounds.

Most of the holdings in the original complex are one- or two-stories with a red brick denient soer a remicrosed concrete superstructure. Elements from the Art Decol Moderne style are used in the book detailing. On the Administration Ruilding are some Colonial Revival elements aren as a hipperit roof and cupate. Northeast of the 40-acre pagns hard are element swedlings for staff on Federal Circle. East of the prison complex are dwallings built for the prison warden and other officers. Due to secondy measures, no photographs were taken

Sowers were constructed by the WPA menual labor in Ashland through the laying of pipe in tremstics which were three feet deep and six feet wide. A sewage pump station was also built by the WPA for the City of Ashland. The pump station has been demolished a replaced. A water hitration plant, sediment beaut (its cryoir), and water tank were built by the PWA for the Ashland water works. Only the original sediment beauties and water tunic built in 1937 and 1938 respectively, are shiften use. The poured concrete, 20 million gallon, sediment beautis located on 41° Street on the sale of the former Critistic Park Leice.

The Fish Hatchery on KY 5 was built by the WPA to supply local pends and lakes with hatchery raised tish. Six of the eleven rectangular concrete possits remain. A WA'A country retief office, which housed administrative services and served as a warehouse for materials, was located in Aspland. Its location was unknown.

#### III. WINDSHIELD SURVEY

The windshield survey of the project corridor was conducted in the fatt of 2007. Sites were viewed from the public reads within the comider. No sites were examined in derail. Individual structures or districts within the recorder which appear to most National Register entered are briefly described in the paragraphs which follow. With each description is a preliminary evaluation. A final evaluation relative to National Register eligibility can not be made until more in depth research is done for the formal cultural-bistorical baseline skirtly for submission to the Septicity Uertrage Council (SHPIO).

- NR National Register Holdings or distorts which are either listed on the National Register or have been determined eligible for the National Register by Agricument or by the Kooper in previous composince projects or required one
- NRP National Register Potential Huldings, which compared to others listed on the National Register, appear to meet enteria A, B, or C as author an individual property or contributing property which a potential district. These structures may also be a property type which the SHPO has determined chable in other recent compilance projects.
- Surroy: Buildings which would be documented in a beselve study, but Appoint to have no approbable exhibited traditional Register or respection with historic events or persons to meet National Register or teria.
- X Destroyer: Site which was previously documented in the Laure County files, but has either been torn down or removed from that knowben some the completion of the survey.
- 9 Unknown. Site which was not viewed during the windshield shows one to lack of access (higher gates or posted for no trespossing).

Pre-Emirary National Register bizondaries for eligible and videals testand districts were proposed, using the property maps from the effice of the PVA in Hoyd Calimy The surveyed sites are keyed to the map of the Study Area (Figure III.1).

#### Description

#### Site A/ NRP

## Dwelling, 2105 Midland Trail, near Coalton

Site A is a two-story, three-bay, side-gabled, central passage, single pile, frame dwelling. The central doorway is flanked by sidelights and a transom. A two-tiered porch covers the central bays of the first and second stories. Aluminum siding covers the original exterior fabric, but its scale, plan, and location indicate that the structure may date to the mid-nineteenth century and could be a rare survivor from that period.



Site B/S

Central Passage Dwelling, (BD-256), South Big Run Rd. Site B is a two-story, three-bay frame dwelling with a centrally located brick chimney.



Note: an agricultural complex consisting of several barns for BD-148-151 is no longer standing in the southeast quadrant of the intersection of I-64 and KY 180.

#### Site/ Evaluation

#### Description

#### Site C/ NR

# Quadruple Span Concrete Bridge (BD-361), US 60 over East Fork of Little Sandy River

The quadruple span concrete bridge has concrete railings on both sides and is estimated to have been built between 1925 and 1929. The bridge was Determined Eligible by Agreement in 2002.



#### Site D/ NR

## Williams Creek Bridge (BD-27), Old KY 5, Princess

The Williams Creek Bridge is a single span Pratt Pony Truss built by the Commonwealth of Kentucky Department of State Roads and Highways in 1921. The Vincente Bridge Company of Vincente, Indiana built the bridge's concrete floor. It has riveted metal trusses. According to Historic Highway Bridges in Kentucky, 1792-1950, there were only 63 Pratt Pony trusses remaining in Kentucky in 1982. The Williams Creek Bridge is approximately 40 feet long. The bridge was Determined Eligible by Agreement in 2002.



Description

Site E/ NRP

House and Outbuilding, 8831 Meade-Springer Rd. (BD-54/ 55)
The dwelling is a two-story, three bay, side passage frame structure which dates to the period from 1875-1899. Associated with the dwelling is the rusticated concrete block structure.





## Description

## Site F/ NRP

## Dwelling (BD-56), 9223 Mead-Springer Road

The dwelling is a two-story, three bay, central passage frame house with a full-width two-story porch. It dates to the period from 1875-1900.



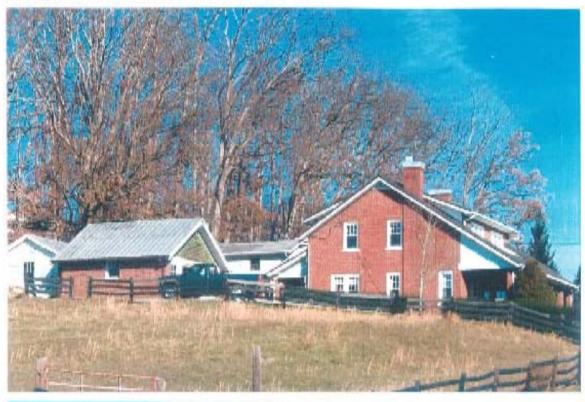
Site G/ NRP

# Bungalow and Barns (BD-53), 8617 Mead-Springer Rd.

The one-and-one-half-story, side-gabled, brick bungalow was built in 1932. Associated with the dwelling is a gambrel-roofed barn and several agricultural outbuildings.



Bungalow and Barns, Mead-Springer Rd.





## Description

## Site H/NRP

## Tudor Revival Houses, 835 and 839 KY 716, Summit

The two one-and-one-half-story, Tudor Revival houses with steeply pitched side gabled roofs and front facing chimneys are adjacent to one another on the north side of KY 716. The brick dwelling (BD-73) has an arched doorway in a front-gabled vestibule. The frame dwelling (BD-72) has arched windows on the main facade.





#### Site/ Evaluation Site I/ NR

## Description

Summit Missionary Baptist Church (BD-363), KY 716, Summit The congregation was formed in 1898 and the present-day church building was completed in 1946-1947. The main facade has two crenellated towers. The front entrance is in a pointed arch doorway which has stained glass. The windows have multiple panes with metal sashes. The church was Determined Eligible by Agreement in 2002.



Site J/ NR

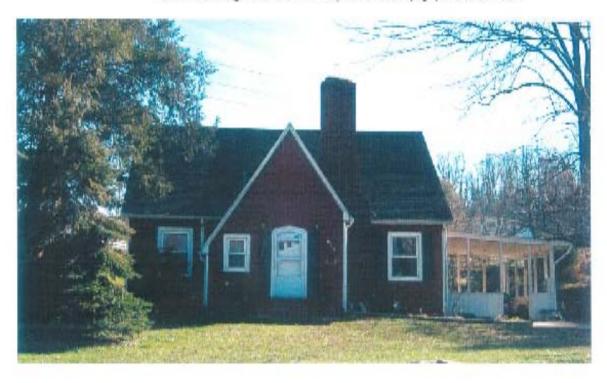
# Federal Corrections Institution and Prison Camp (FCI/FCP), (BD-63), KY 716, Summit

The original FCI/FCP complex has been Determined Eligible for the National Register under criterion A for its association with the early development of the federal penitentiary system and under criterion C as an example of correctional architecture from the late 1930s. and early 1940s. Contributing resources to the district include the following: Old Administration Building (B-2 A-2); Detention and Hospital Building (B-3B); 4 Cell Houses (B-4 C-C, B-5 D, B-6 E, and B-7 F; Main Corridor (B-11); JA Unit (B-13); JB Unit (B-14); KA Unit (B-15); KB Unit (B-16); Inmale Services (B-17); Mechanical Services (B-18 O); Steam Tunnel (B-20); Commissary (B-20 P); Laundry (B-20 Q); Recreation Yard (B-22); Old Powerhouse (B-23 R (b)); Vehicle Sallyport (B 28); 3 Guard Towers (B-29, C-6, and C-9); Garage (C-1) and Landscape Storage (C-2). The boundaries of the district encompass all of these resources and roughly approximate the security fence along the perimeter of the facility on the north, east, south, and the CSX railroad line on the west.

Site/ Evaluation Site K/ S Description

Tudor Revival House, KY 716

The one and one-half-story, frame, Tudor Revival house has a front-facing brick chimney and steeply pitched root



Site L/ NRP

T-Plan Dwelling (BD-61), 3293 Little Garner (KY 716)
Site L is a two-story, three-bay frame T-plan dwelling with a full-width hip-roofed porch.



Site/ Evaluation Site M/ NRP Description

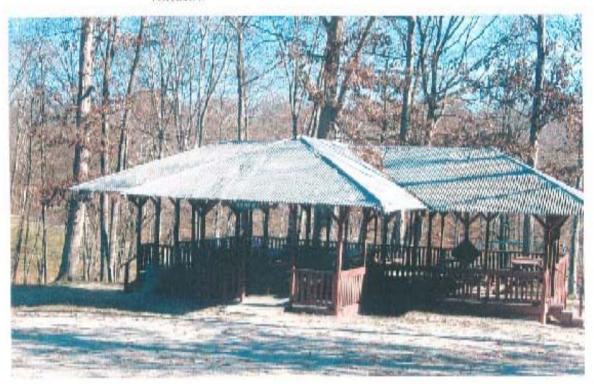
Thornberry House (BD-66), KY 716, Summit

Site M is a log, saddlebag dwelling built during the period from 1875 to 1900. It appears to be a two-story, three bay dwelling with a full width perch.



Site N/ NRP

ARMCO Park (BD-92), Intersection of KY 716 and US 60 ARMCO Park, which was opened in 1934, features winding roads through a steep wooded area. Some original picnic pavilions remain.

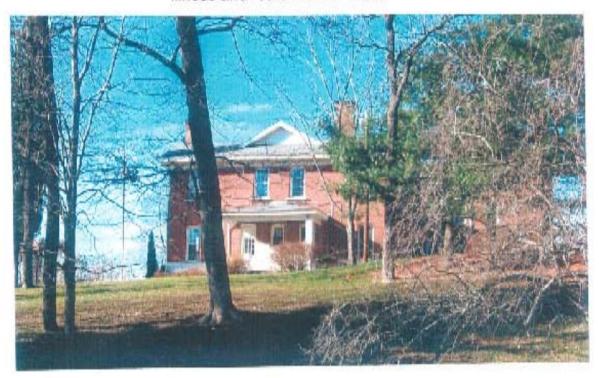


Site/ Evaluation Site O/ NRP

Description

Gertrude Ramey Home (BD-22), Poor House Road

The two-story brick structure with five bays on the first floor and four bays on the second dates to circa 1900. It was known as Ramey's Children's Home for 45 years until Gertrude Ramey's illness and retirement in 1988.



Site P/ NRP

Horn Street Bridge, Little Hood Creek (BD-91), Mill Seat The concrete bridge dates to the period from 1925 to 1949. The community of Mill Seat is shown on the 1937 map of Ashland, but has lost physical integrity due to multiple modern intrusions and changes.



## Site/ Evaluation Site Q/ NRP

# Description

Westwood Christian Church, 713 Wheatley Ave.



The Westwood Christian Church, organized in 1931, is housed in a two story, three-bay, front-gabled brick structure. The entry is located in a three-story tower which has a crenellated roof. Windows are Gothic Revival.

#### Site R/ NRP

# Bill Mayberry House (BD-79) 2633 Main St. Fairview

The two-story, five-bay, central passage, single-pile frame dwelling dates to the period from 1875 to 1899. It has a full-width, hip-roofed porch which is supported by brick columns.



Description

Site S/ NRP

Fairview Gym, Fairview High School

The one and one-half-story, front-gabled stone structure was built in 1938 by the WPA, a program of the New Deal during the Great Depression. It is still used as a practice facility by the high school.





## Description

#### Site T/ NRP

## Log House, McKnight St., West Fairview

The one story, three-bay rounded log house dates from the 1930s. It has a centrally-located brick chimney.



#### Site U/ NRP

## Dwelling, South end of Nichols Place

The dwelling is a two-story, four-bay (w,d,w,w) frame, side-gabled structure with interior brick chimneys on the gable ends. The full-width, two-story porch is supported by squared wood columns. Sidelights and transom frame the entrance.



Site/ Evaluation Site V/ NRP

## Description

# Log House, west end of York Street

The one-story, front-gabled rounded log house dates from the 1930s. There is a front-gabled porch which covers the entry.

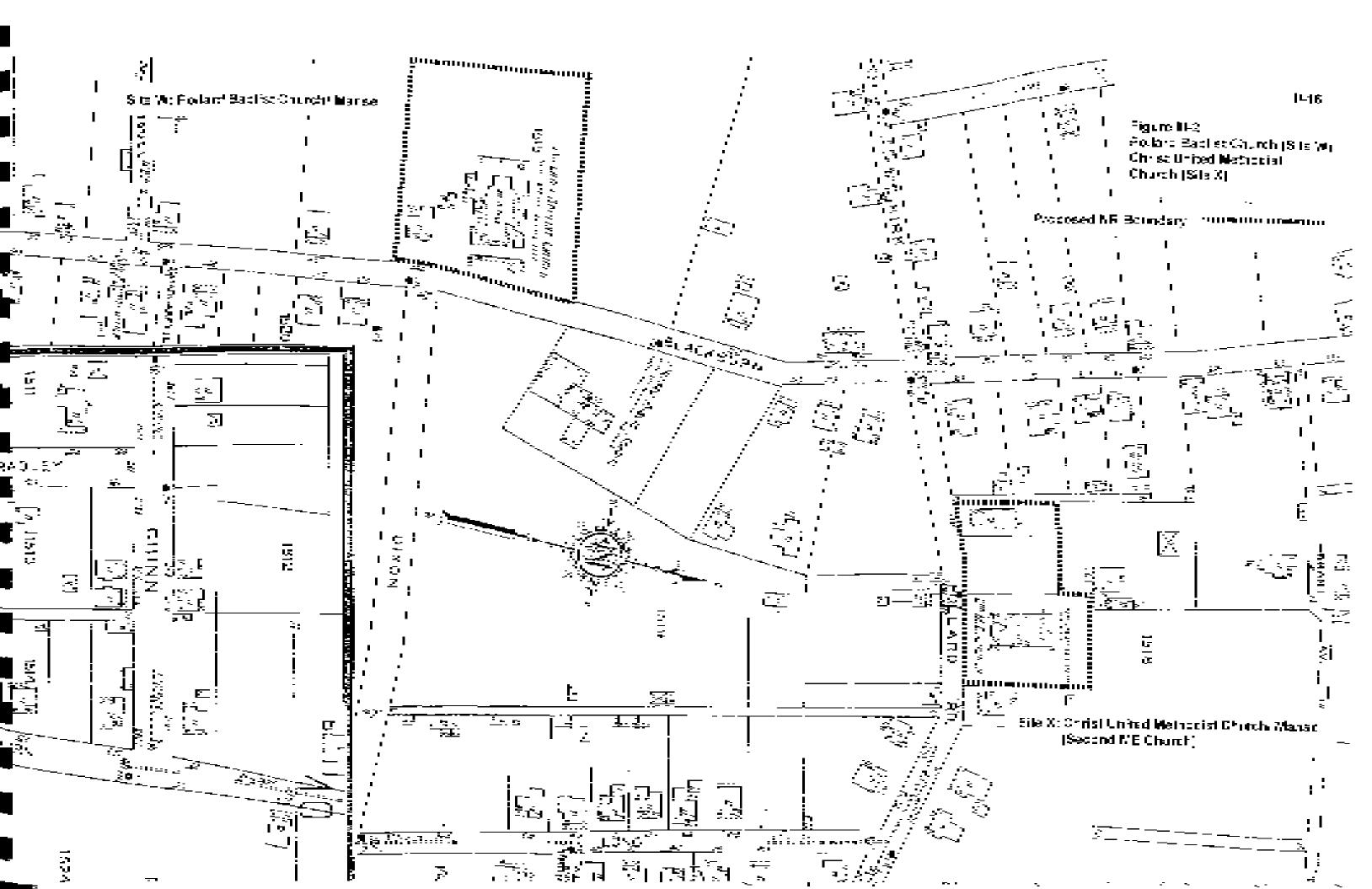


Site W/ NRP

## Pollard Baptist Church, west side of Blackburn Ave.

According to a cornerstone, the congregation was founded in 1892. The present day three-story, brick sanctuary dates to 1925. On the three-bay, main facade is a two-story, pedimented perch which is supported by fluted lonic columns.





Description

Site W/ NRP

Manse for Pollard Baptist Church, Blackburn Ave.

The two-story, two-bay, hip-roofed, brick foursquare is located to the east of the church



Site X/ NRP

## Christ United Methodist Church, Pollard Road

The entry to the three-story, front-gabled brick church is framed by two truncated square towers. The church is identified as the Second Methodist Episcopal Church on the 1927 Sanborn Insurance Map.



Description

Site X/ NRP

Manse, Christ United Methodist Church, Pollard Rd.

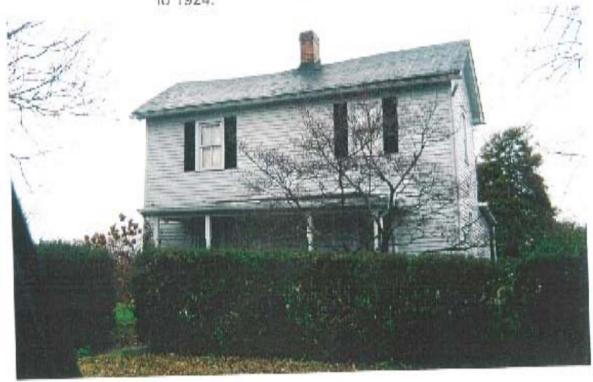
The manse is a two-story, three-bay, side-gabled brick dwelling with a full-width, hip-roofed porch. It is located south of the church on Pollard Road.



Site Y/ NRP

## Dwelling, 321 Harrison

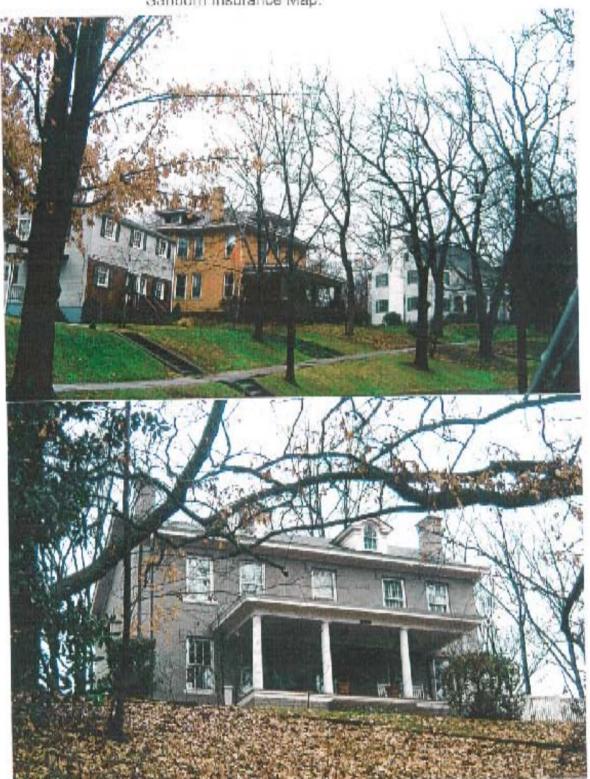
The two-story dwelling has four bays (w,d,d,w) on the first floor and two bays on the second. Atop the side-gabled roof is a centrally located brick chimney. The structure dates to the period from 1900 to 1924.

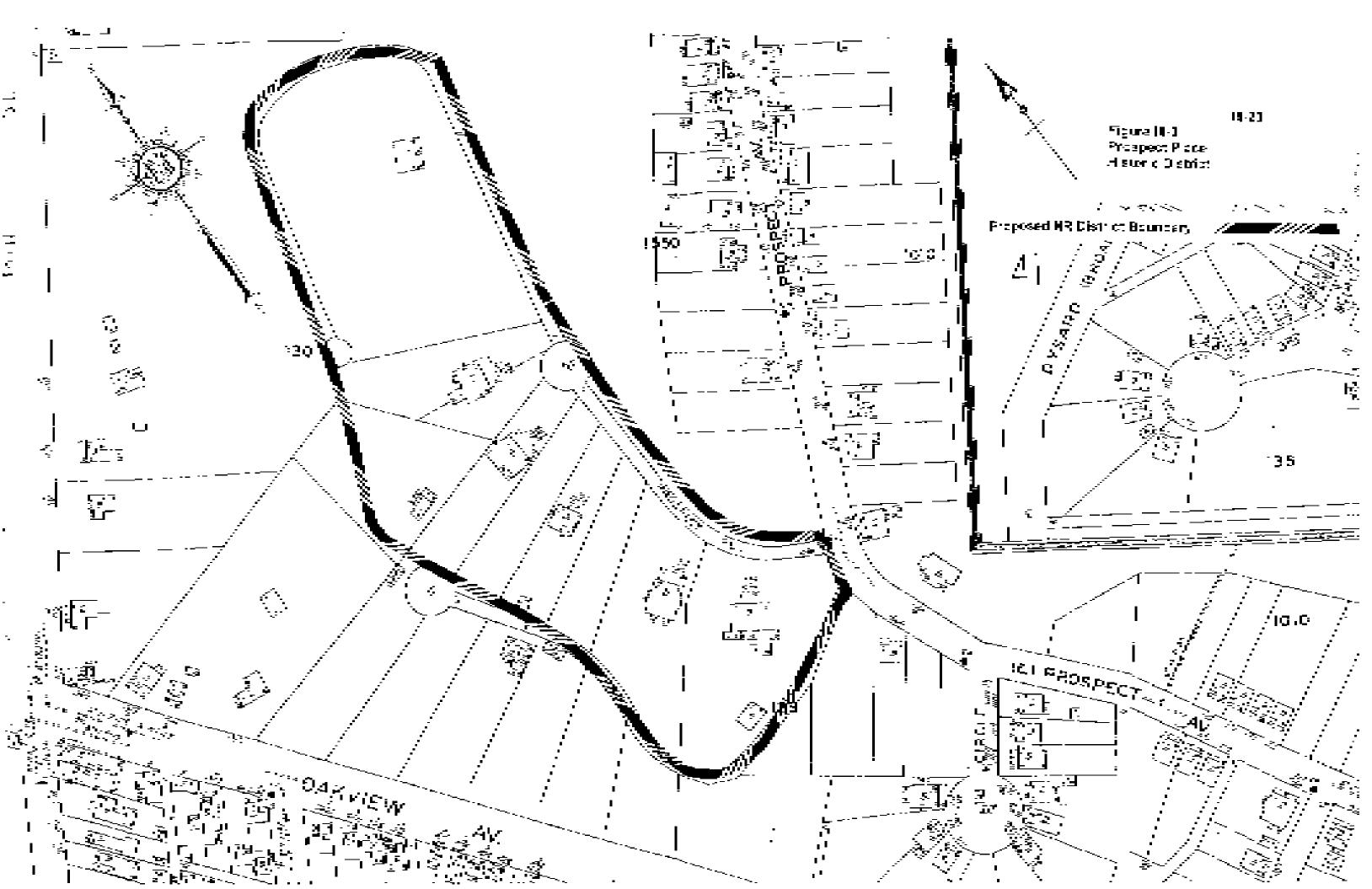


Site/ Evaluation Description

Site Z/ NRP Prospect Place Historic District

The historic district consists of the early twentieth century dwellings on a promontory cast of Mayo Trail (US 60) which overlooks the city of Ashland. Most of the dwellings are shown on the 1927 Sanborn Insurance Map.





Site/ Evaluation Description

Site AA/ NRP Midland Heights Historic District

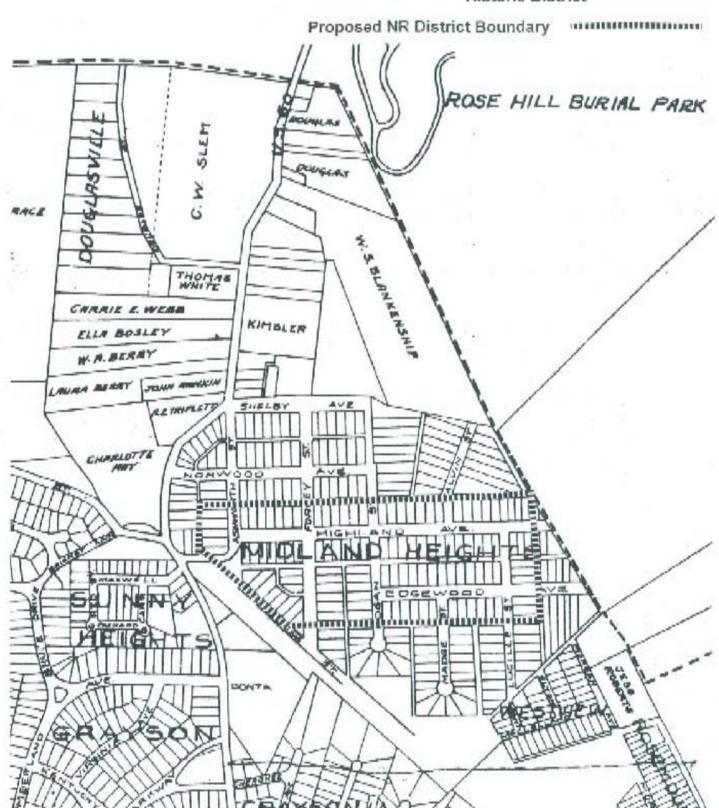
The Midland Heights subdivision includes highland Avenue, Norwood, and Edgewood. The houses which are examples of the Colonial Revival style were built in the 1930s and 1940s.







Figure III-4 Midland Heights Historic District



Description

Site BB/ NRP

Graysonia Historic District

The Graysonia Historic District includes dwellings on Algoriquin, Seminole, Cherokee and associated stroots as well as the west side of 13<sup>th</sup> Stroot/ Midland Trail (US 60).





Description Site/ Evaluation

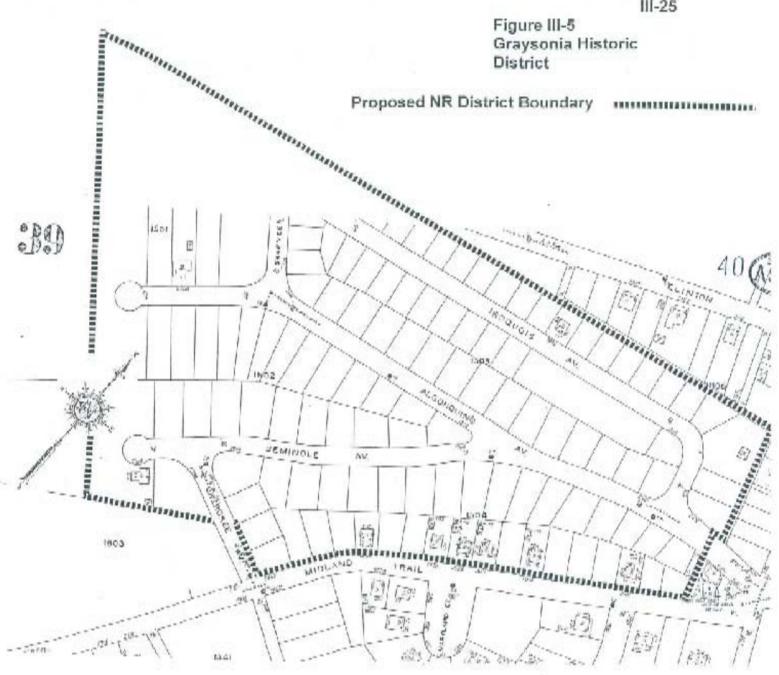
Site BB/ NRP Graysonia Historic District

These two-story, American foursquares are located along the west side of 13th Street / Midland Trail (US 60).









Site/ Evaluation Description

Site CC/ NRP

Grayson Road Historic District Grayson Road Historic District includes Colonial Revival dwellings along Cumberland, Virginia, and Central Parkway





Site/ Evaluation Description

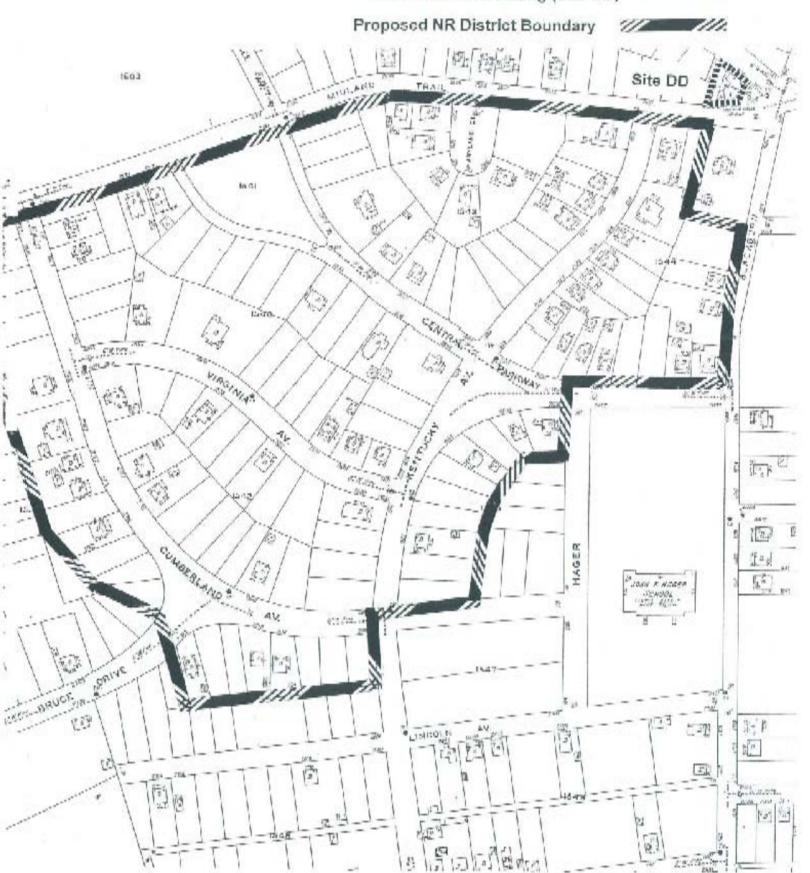
Site CC/ NRP

Grayson Road Historic District





Figure III-8 Grayson Road Historic District (Site CC) Tudor Revival Building (Site DD)



Description

Site DD/ NRP

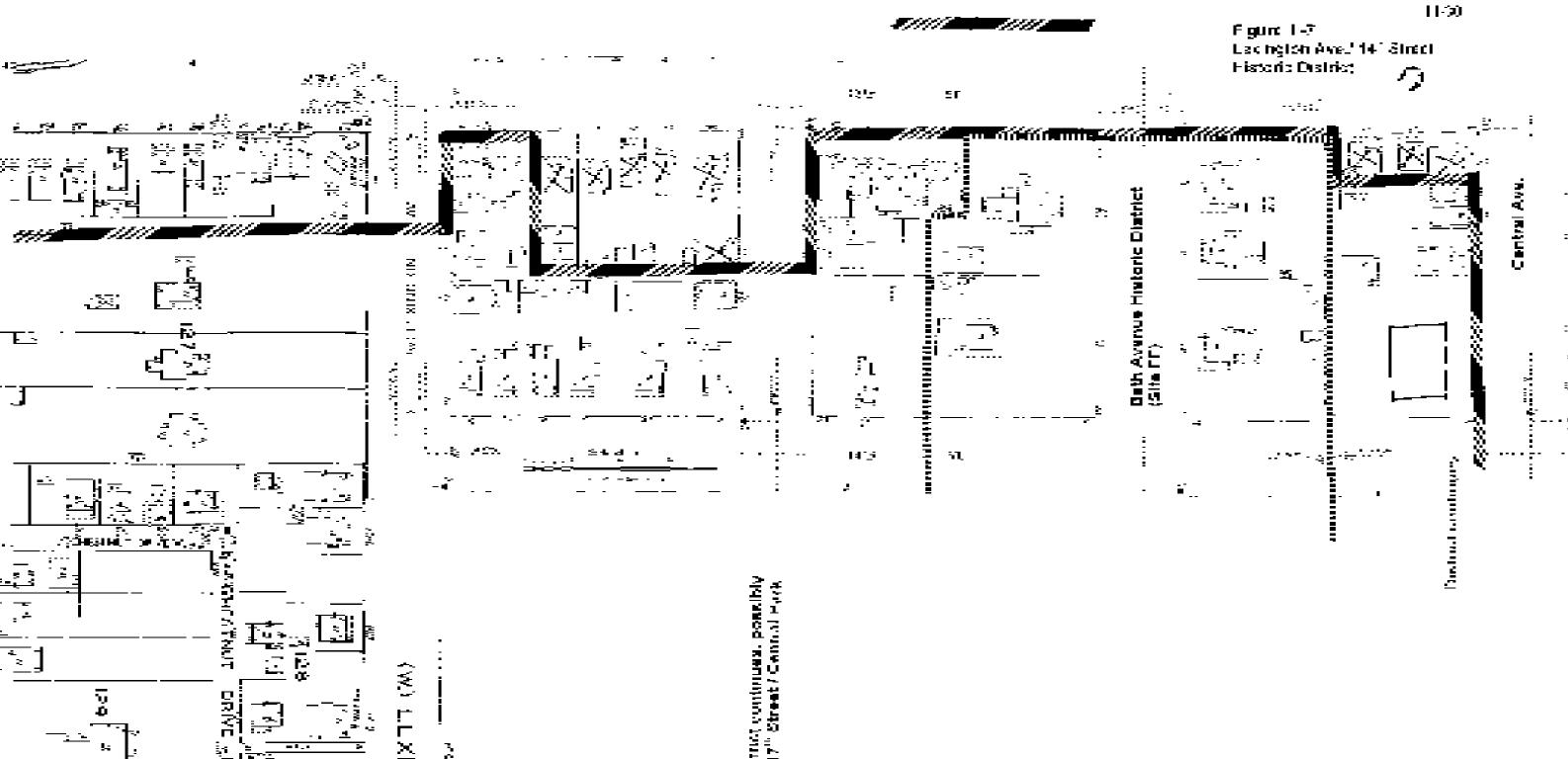
Tudor Building, corner of Midland Trail/ Blackburn/ Algonquin Built prior to 1927, the two-and-one-half-story, side-gabled Tudor Revival building features a steeply pitched rood, front-facing brick chimneys, and half-timbering in the wall gables. It has retail spaces on the first floor and offices on the second. See Figure III-28.



Site EE/ NRP

Lexington Ave./ Fourteenth Street Historic District
The district includes the early twentieth century buildings along
Lexington Avenue north to Bath Avenue.





<u>:</u>=

 $A^{(i,j)} \stackrel{\mathrm{def}}{=} 2$ 

## Site/ Evaluation Description

#### Site FF/ NR Bath Avenue Historic District

The Bath Avenue Historic District includes the 1300 through 1600 blocks of West Bath Avenue and was listed on the National Register in 1979. The neighborhood was occupied by the nineteenth-century owners and managers of Ashland's industries. The houses represent a variety of styles from Gothic Revival to Classical Revival which is unparalleled in other sections of Ashland. Commercial development in the 1200 block of West Bath Avenue has severed the west end of the street from the blocks to the east.

#### Site FF/ NR Robert Peeples House, 1317 Bath Avenue

This board and batten. Gothic Revival house was built circa 1874 to 1875 and enlarged in 1891. It is reputed to be the only surviving Gothic Revival house in Ashland.



## Figure III-8 Bath Avenue Historic District

## BATH AVENUE. HISTORIC DISTRICT, ASHLAND, Kya

ESSENTIAL CONTRIBUTORS

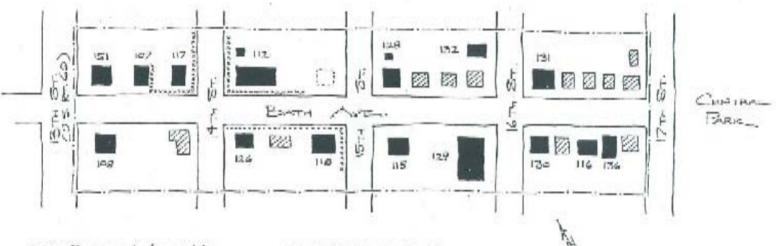
TO DISTRICT

BUILDINGS WITH COMPATIBLE.

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116 - GOV. Swapp Warm Ho.

117- ROBERT PRESIDE HO.

11th - John Menne He.

124 - HILDA PERFEC. Ho.

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129 - Mayor Massiery

130 BAGE RUSSELL Ito.

121-11. L. Romer L. Ho.

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Neve: No EULLDINGS IN THE DISTRICT ARE CONSIDERED

THITEUSICHIS.

## Description

#### Site FF/ NR

# Abraham Campbell House, 1304 Bath Avenue

This two-and-one-half-story, brick house was built about 1870 by Abraham Campbell, a successful financier who was involved in the Ventura Hotel and several local banks. The Classical Revival porch was added by the Hagers in 1920.



Site GG/ NRP

Tudor Revival Dwelling, west side of 12th St.

The two-and-one-half-story, side-gabled brick Tudor Revival dwelling has a sleeply pitched roof and halt timbering in the gables.



Description

Site HH/ NRP

Dwelling, 1207 Bath Avc.

The two-and-one-half-story, hip-roofed, brick American foursquare has overhanging eaves and a full-width hip-roofed porch

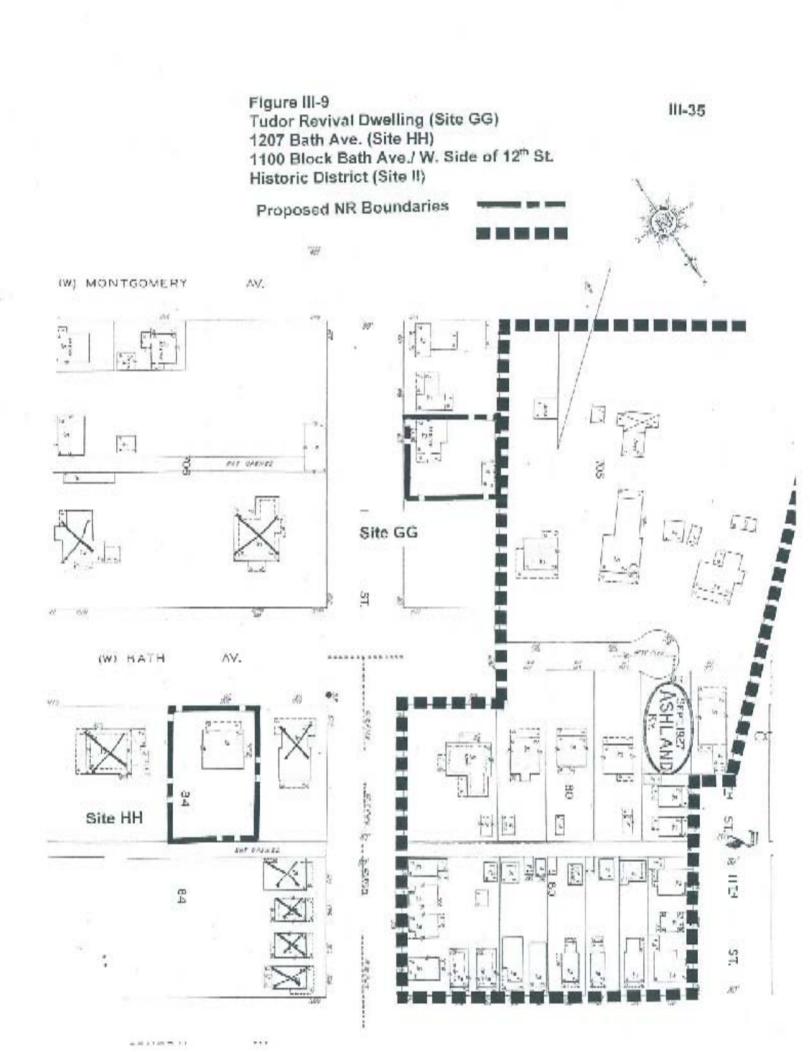


Site II/ NRP

1100 Block Bath Ave./ West side of Twelfth Street Historic District

The historic district includes a group of brick foursquares and Colonial Revival dwellings which were built before 1927





Site/ Evaluation

Description

Site II/ NRP

1100 Block Bath Ave./ West side of Twolfth Street Historic

District

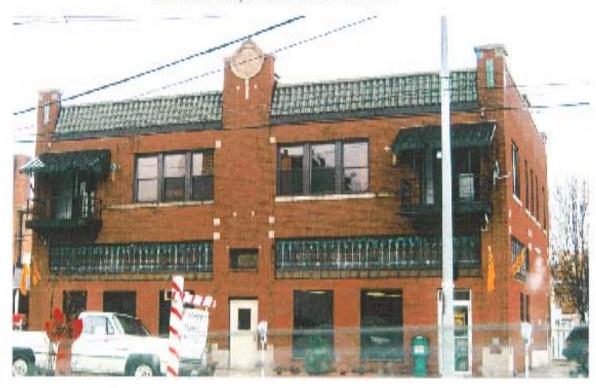
The dwellings which contribute to the proposed historic district are in the 500 block of 12<sup>th</sup> Street.



Site JJ/S

Commercial Building (BDA-245), 324 14th Street

The two-story, brick commercial building has inlaid stone accents and clerestory windows from the Art Nouveau period. The windows and doorways have been altered.



Site/ Evaluation

Description

Site KK/ NRP

White Swan Laundry Building, NW Corner Central/ 13th St.
The brick industrial building, shown on the 1927 Sanborn Insurance Map, is one of the few surviving businesses from the era.



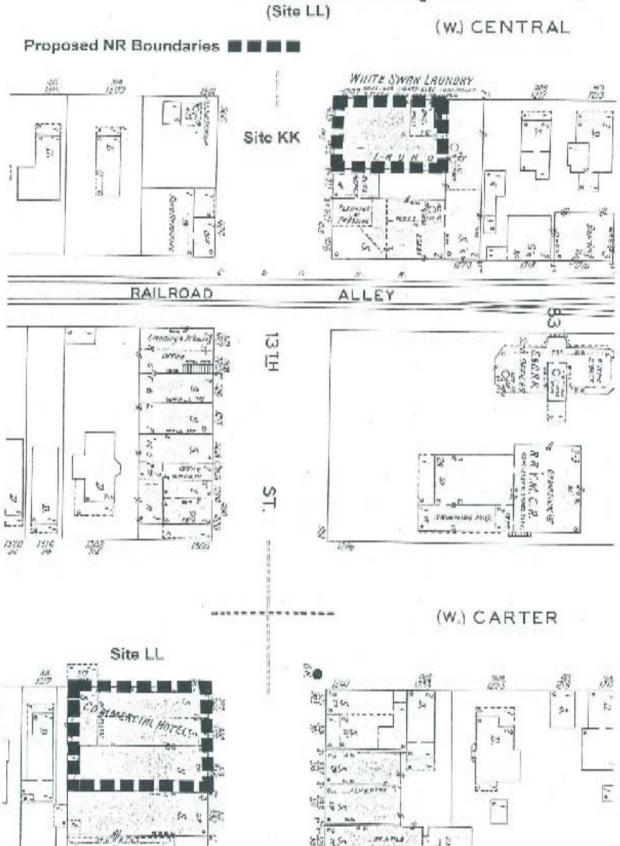
Site LL/ NRP

Commercial Hotel (BDA-55), 336-346 13<sup>th</sup> Street
The two-story hotel building has rusticated stone lintels as well as scrolled brackets, and dentils in the cornice.



Figure III-10
White Swan Laundry (Site KK)
Commercial Building/ Hotel
(Site LL)

0



Site/ Evaluation

Description

Site MM/ NRP

Salvation Army Building, 1225 West Carter St.

The two-story brick building which is topped by a crenelated balustrade and features stone accents around the central entry was built after 1927.

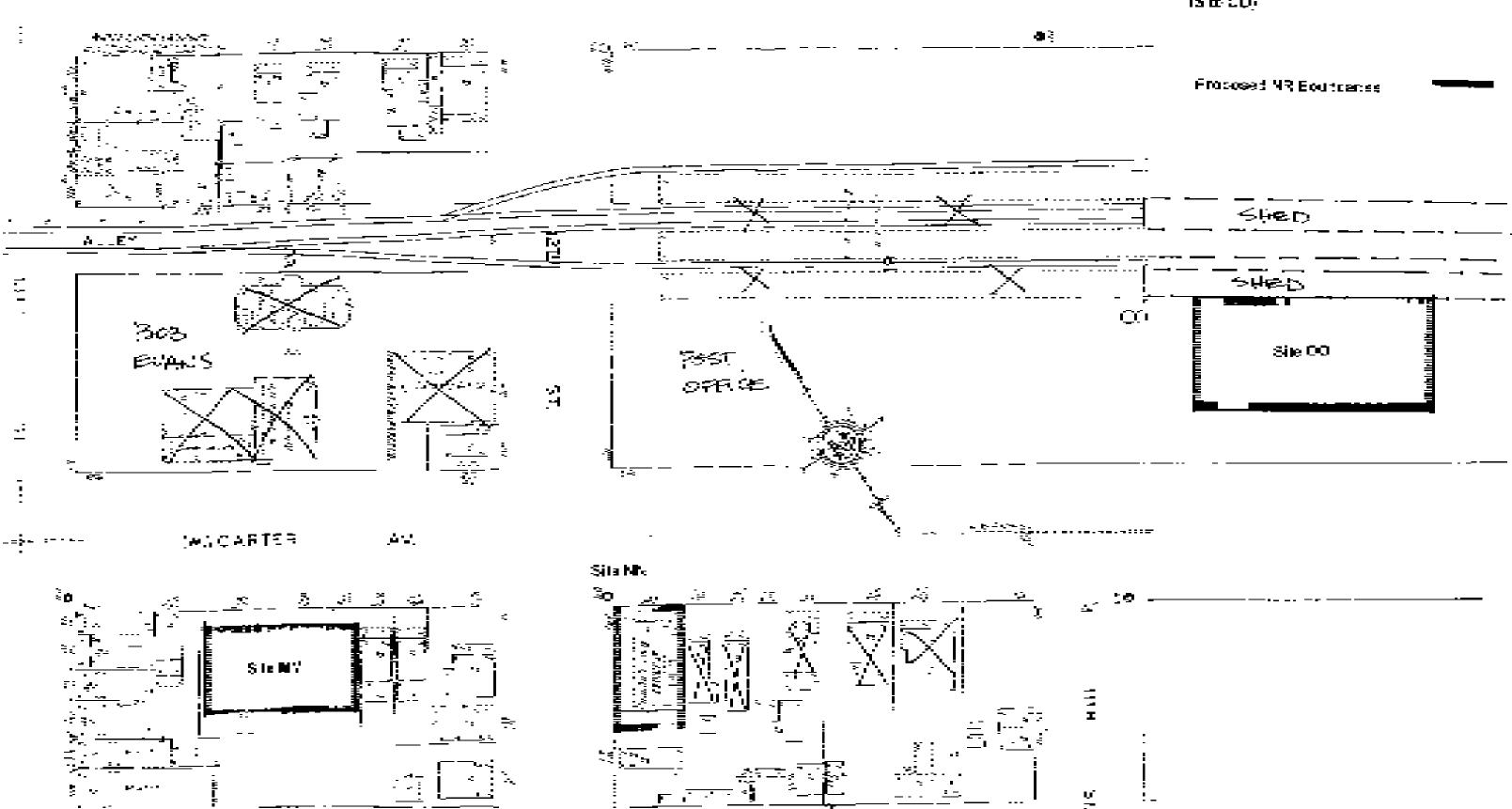


Site NN/ NR

St. James African Methodist Church, NW Corner Carter/ 12th Established by the Reverend Christopher Seals circa 1860, the present day St. James African Methodist Episcopal Church was completed in 1912. The entry to the one-and-one-half-story, front-gabled brick church is through a hip-rooted corner boll tower. Above the windows are stone lintels. It was listed on the National Register in 1979.



Figure 14.11 Salvation Army (Site VIII) St. James African Methodist Episcopal Church (Site IIII) Chesapeake and Ohio Rulboad Station (Site CO)



Site/ Evaluation

Description

Site OO/ NRP

Chesapeake and Ohio Railway Station (BDA-54), Carter Ave. In 1926, this building replaced the railroad's original large frame nineteenth century frame passenger station. The large waiting room is located in the central block of the symmetrical Renaissance design. Associated with the railroad station are three cast Iron and wood canopies. The building was renovated for use as an office building by the Third National Bank of Ashland in 1979.





#### Site PP/ NR

#### Downtown Commercial Historic District

The Downtown Commercial Historic District was listed on the National Register in 1994 under Criteria A and C. The district is significant in the context "Commercial Districts of Kentucky Obio River Communities, 1850 to 1940". Along with the cities of Ironton and Portsmouth, Ashland serves as one of the major urban centers in the tri-state area of Kentucky, Ohio, and West Virginia. The historic district consists of 84 properties located in a 21-acre area bound by the CSX (formerly C&O) Railroad tracks and the Ohio River on the north, 18" Street on the east, Carter Avenue on the south, and 13" Street on the west.

The historic district is located in the area originally platted for an iron export center by the Kentucky Iron and Manufacturing Company in 1854. The original plat ran from present-day Front Street to Lexington Avenue and from present-day 1<sup>st</sup> Street to 23<sup>rd</sup> Street. Originally called Broadway, 16<sup>th</sup> Street served as the major north-south connector from the commercial area near the Ohio River to Hilton Avenue at the edge of the hills. Broadway or 16<sup>th</sup> Street was also designated as the dividing line for the east and west addresses on the avenues.

The land between the Ohio River and Front Street was planned for use by river-related businesses, the railroads, and industries. During Ashland's early commercial history, merchants were located along Front Street. By the 1920s, Ashland's major businesses had relocated from Front Street south to Winchester Avenue between 13th and 17th Streets to escape the frequent flooding on Front Street, Today most of Ashland's most significant commercial buildings are found on Winchester Avenue. The intersection of present-day 16th Street and Winchester Avenue became the focus of the commercial district and is marked today by the eleven-story Second National Bank Building which was completed in 1924. Ashland's Ohio River frontage is occupied by the CSX Railroad tracks and is separated from the commercial district by a flood wall which was built during the 1940s.

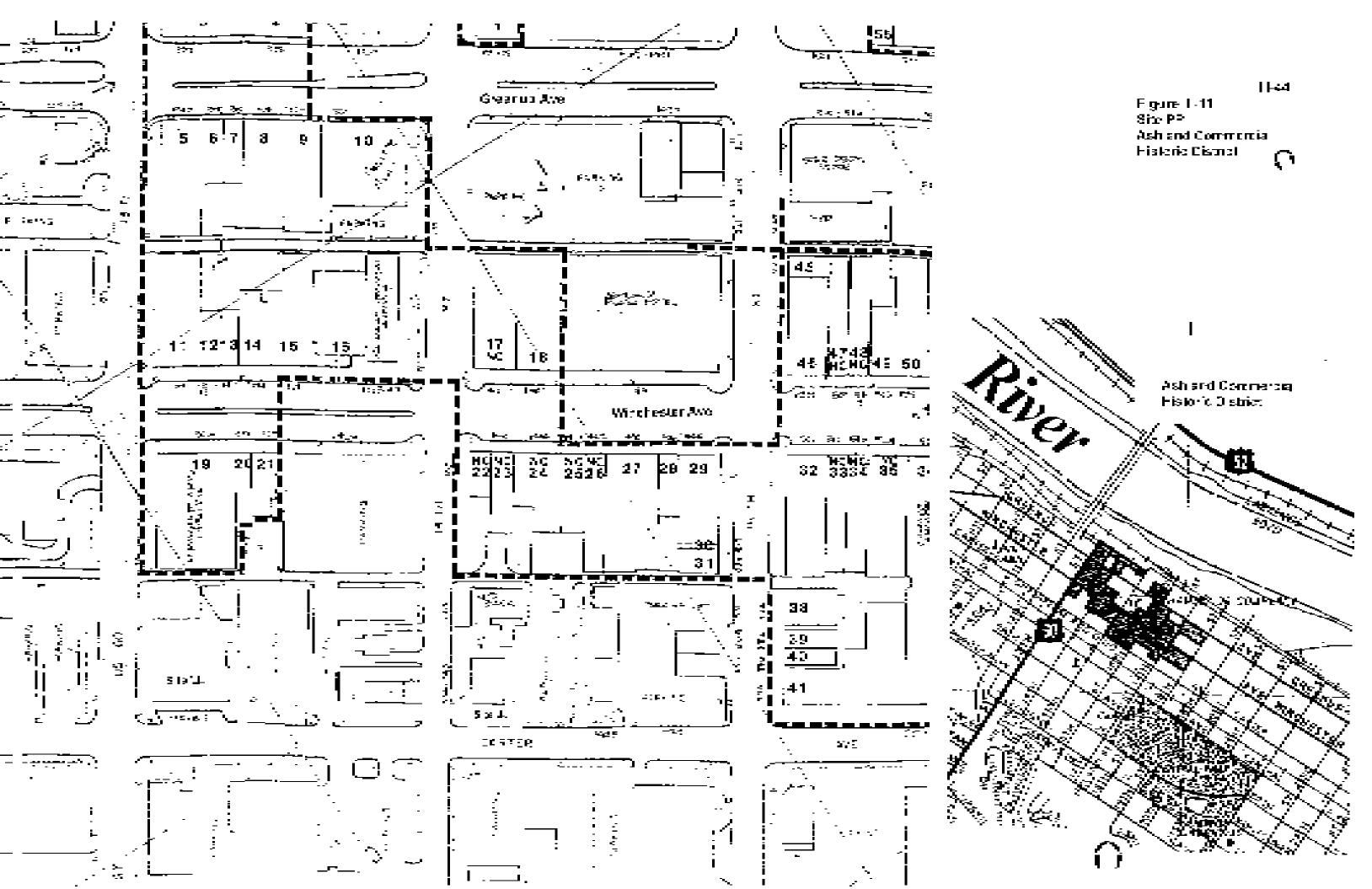
The brick commercial buildings included in the district date from 1890 to 1940, with half of the structures dating from 1900 to 1925, a period of economic expansion for Ashland. During that period, Ashland was known as the "Crossroads of the C&O Railroad" because of the high volume of passengers and freight which passed through the city. Hotels were built to provide temporary accommodations for travelers, businessmen, and newcomers drawn to Ashland by the employment and business opportunities. Ashland also became a banking center due to the capital

generated by the iron and coal industries in the Big Sandy valley. During the early twentieth century, buildings completed for banks not only housed financial operations, but also created office space to lease to the increasing numbers of lawyers, coal and oil operations, and real estate agents who established themselves in Ashland to provide services to the rapidly increasing population.

Ashland also became an entertainment contor. By 1918, there were four movie theaters. Two additional ones were built in 1926. The Paramount, shown below, was the most elaborate and the first theater to movie from the silent to the "talking" movies. Located on the southeast corner of the intersection of Winchester Ave, and 13" St., it was listed on the National Register in 1975 as an individual property and is also included in the Ashland Commercial Historic District.







#### Site PP/ NR

#### Downtown Commercial Historic District

Commercial buildings within the historic district on the north side of Winchester Avenue (1301, 1309, 1317, 1327) between 13<sup>th</sup> and 14<sup>th</sup> Streets, which date from 1880 to 1907.



#### Site PP/ NR

#### Downtown Commercial Historic District

Calvary Episcopal Church on the northwest corner of Winchester and 14th Street (1333-1347 Winchester Avenue) is a brick and stone Gothic Revival structure completed circa 1895. The arched entry is ornamented with alternating bands of light and dark stone. The three-story, pyramidally-roofed bell tower is accented with stonework and battlements.



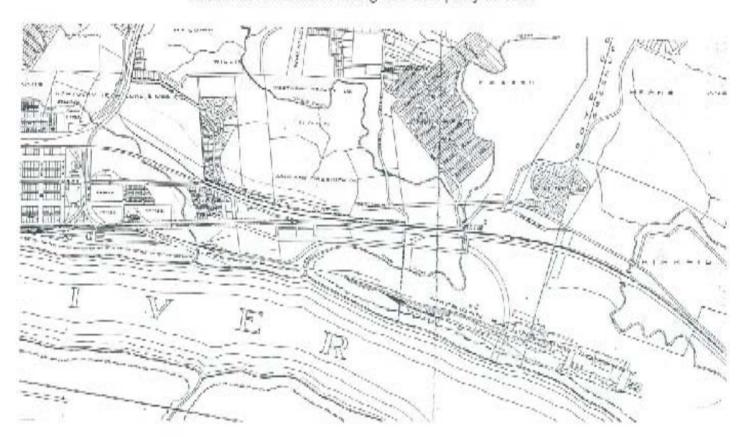
#### Site QQ/ S

#### AK Steel Ashland, US 23

In 1994, AK Steel was formed from ARMCO and Kawasaki. Its current products are carbon, stainless and electrical steel, cold rolled and aluminum coated stainless steel for automakers. The American Rolling Mill Company, which changed its name to ARMCO in 1948, purchased the iron furnaces along the Boyd-Greenup County line from the Ashland Coal and Iron Company in the 1920s. The American Rolling Mill Company produced steel sheets through a continuous rolling method and required a work force of 3,600 people. In the subsequent commercial expansion, Ashland's population grow from 15,000 in 1920 to 29,000 by 1925 and resulted in significant commercial and residential construction.

The blast furnaces of the steel plant have been dismantled, rebuilt, and expanded many times since the 1920s. Present-day access to the industrial is restricted due to security, but some early twentieth century buildings associated with the steel mill are visible along the perimeter. Due to the numerous updates of the buildings, equipment and furnaces over the last ninety years, it is doubtful that the industrial site would meet National Register criteria, but an intensive on-site inventory would be required to make a final determination of its eligibility.

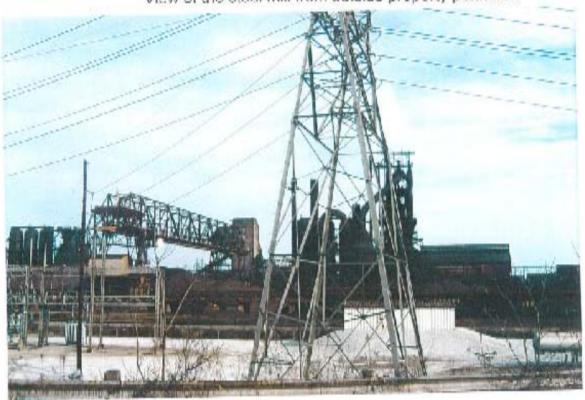
#### Extent of American Rolling Mill Company in 1937



Site QQ/S

### AK Steel Ashland, US 23

View of the steel mill from outside property perimeter



Early 20th century building on south edge of steel mill property



#### IV. CONCLUSION

Within the enuposed planning study area for the Interstate C4 to Ashland.

Kennucky Planning Study are the following two historic districts and two individual proportios which are listed on the National Register.

Astriand Historia Commercial District Historian 1994 (Site IPP)
Rate Avenue Theteric District, listed in 1979 (Site IEE)
Paramount Theorem listed as individual property in 1975 and included in the Astriana Historia Commercial District (Site IPP) in 1994
St. James African Methodes Episcopal Church, listed in 1979 (Site INN)

As the result of coordination with the SUUO on compliance reports (he following sites were Determined Stigible by Agreement by SEUO

Construyer Spain Concrete Bridge, US 60 over Little Sandy River (Site C). Williams Creek Bridge, Process (Site D). Summit Missionary Baptist Church, KY 716 (Site I).

the following site was Determined Eligible by the Reeper of the National Register:

Federal Correctional Institution and Prison Camp (LCPLCP) (Site J).

After a windshield survey, the following six historic districts appear to meet.

Meteorel Register districts.

Prospect Place Historic District (Site 7).

Midland Heights Thidaic District (Site AA)

Creysonia Historic District (Site BB)

Grayson Road Historic District (Oite CD)

Lexipgion Ave / 14" Sheet Historic Urahid (Site Et ).

1 110 Black Bath Ava / 12" Street Historic District (Site II)

The following PR millioid tell properties appear to meet National Register criteria:

Towelling, 2165 Midland Trad (Site A).

House, 8801 Meade Springer Road (Site L).

pwęttog, 9223 Meert-Springia Road (SicciF).

Rompillow and Barns, 8517 Mead Springer Root (Site G).

Tudor Royiyal Houses, JUS/JUB KY 718 (Site 11).

T Plan Dwelling, 3280 KY 716 (Site L).

Thombury House, KY 716 (Site M).

ARMOD Park, US 60 (5ite N).

Godpide Ramey House (Sile D):

Hindge over Little Hood Creek (Site P).

Westward Christian Church, 713 Wheatley Avenue (Site Q).

Bill Maybern, House, 2030 Main St. Tairview (Site P).

) друдем (John, Lanview High School, 2123 Main St. (Site S).

Lop House, McKnight St., West Fairvlew (Site 1).

Dwelling, Michals Place (filte II).

Log Llouise, Yark St. (Side V).

Pollant Baptist Church, Blackborn Ave. (Sile W).

Christ United Methodist Church (Site X1)

(Iwelling 321 Hamson (Site Y).

Trictor Revival Building, US 80 (Site DD).

Tudor Revival Dwelling, 12" St. (Site GG).

American Floursquare, Bath Ave. (Site Hit).

White Swood Laundry (toikting: Central Ave. (Site KK).

Commercial Hosting/ Hotel, 336, 346, 13" St. (Site LL).

Salvation Army Building, 1225 Carter Ave. (Site MM).

Chesapeake and Ohio Pessenger Depot. Certo: Avc. (Site OO).

A final determination of National Register aligibility will require additional maceurch, photography, physical examination of the structures, an evaluation of these sites relative to the integrity etandards astablished by similar proporties in Boyd County. Remincky, which are currently listed on the National Register, and consultation with the State Historic Preservation (officer (SHPD) at the Kentucky Herdage Council in Frankfort.

#### V RUBEROGRAPHY

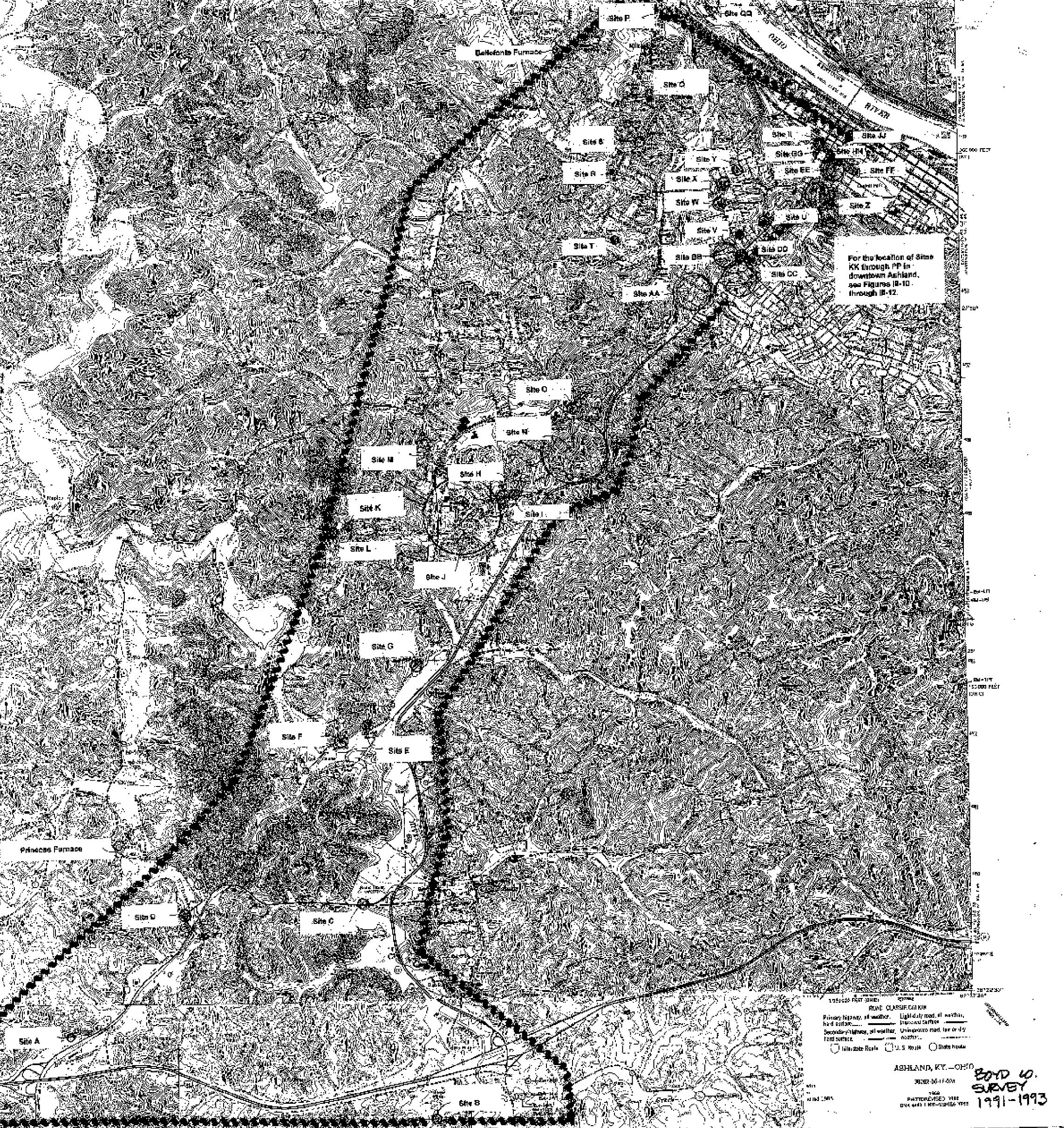
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Manuschi Fire Insurance Mapa for Ashland, Kentucky, 1997.

Subor, Elmer (4. *(4)met Reiboods of Kenninky*, Indianapalia, Ven A. Jones Co., 1967.



# FIGURE III-1

HISTORIC SITES INTERSTATE 64 TO ASHLAND PLANNING STUDY OVERVIEW. BOYD COUNTY, KENTUCKY (ITEM NO. 9-429.00), 2007

- Site A Dwelling, 2105 Midland Trait, appears to meet National Register offeria
- itte B Contral Passage Dwelling, South Rig Kun Road, survey
- இர்ச் C Ouadruple Span Controle Bridge, US 60 over Little Sandy Rives. Determined Eligible by Agreement by SHPD
- e D Williams Creek Arkige, Princess, Determined Eligible by Agreement by
- SHPO
- e R House, 8831 Meade-Springer Road, appears to meat National Register
- ite ff Dwelling, 9223 Mead-Springer Road, appears to most National Register
- Site G Riengalow and Barne, 8517 Maad-Springer Road, appears to nidet.
  National Register criteria
- ⊭ H Tudor Revival Houses, 835/839 KY 718, appear to mest National
- e I Summit Misekenory Baptlet Church, KY 716, Determined Ekgible by Agreement by SHPO
- Site J. Federal Correctional Institution and Prison Camp (FCUFCP), Determined Eligible by the Kooper of the National Register
- ite K Tudor Revival House, KY 715, servery
- g I T-Plan Dwelling, 3293 KY 716, appears to meet National Register official
- Site M Thomberry House, KY 716, appears to most National Register criteria
- Site N ARMOO Park, US 60, appears to meet National Register criteria
- O Gerhade Ramey House, appears to meet National Register offerta
- Site P Bridge over Little Hood Croek, appears to meet National Register ofterla
- Q Westwood Christian Church, 713 Wheetley Avenue, Appears to meet
- National Register ofteria
- te R Bill Mayberry House, 2633 Main St., Fairview, appeare to maci National -Register criteria
- e S Fairview Cyrn, Feirview High School, appears to meet National Registrat எங்கள்
  - l og House, Fairview, appears to meet National Register critarie
- itte U (itwalling, Nachola Place appears, to meet National Register criteria
- e V Log House, York St., appears to meet National Register criteria
- its W Pallard Baytist Church, Blackburn Ave., eppéars to med National Register enteria
- e χ Christ United Methodist Church, appears to most National Register
- a Y Dwelling, S21 Harrison, appears to meet National Register criteria.
- Ste Z Prospect Place Historic District appears to meet National Register of Sefa
- Site AA Midland Heights Historic District appears to meet National Register criteria
- e BB Graysonia Historia District appears to meet National Register criteria
- te CC Greyeon Road Historic District appears to meet National Register criteria
- ite DD Tudor Roylval Building, US 60, appears to meet National Register criteria
- Ste EE | Lexington Ave./ 14" Street Historic District appears to muct National
- FF Bath Avenue Historic District, listed on the National Register in 1979
- GG Tudor Revival Overling, 12" St., appears to meet National Register
- te HH American Foursquare, 1207 Bath Ave., appears, to meet National
- Register criteria
- Site II 1100 Block Rath Ave./ 12<sup>th</sup> Street Historic District appears to meet National Register cotoria
  - பூ Genmercial Building, 824 14<sup>4</sup> Sheet, survey
  - Withte Swen Laundry Bulkling, Central Ave., appears to meet National Register criteria
  - Commercial Building/ Hotel, 338-346 13<sup>th</sup> St., appears, to meet National
  - MNA Salvation Army Building, 1225 Coder Ava., appears to meet National
  - Register criteria
  - N St. Jamee African Methodist Episcopal Church Hated on the National Register in 1979
  - Chasepeake and Ohio Passenger Deput. Carter Ave., appears to meet
  - National Regleter criteria
- ide PP Ashland Historic Commercial District, listed on the National Register in 1994
- Site QD AK Steet, US 23, survey

Register eriteria.

A final determination of National Register eligibility will require additional research, photography, physical examination of the structures, an evaluation of these altes relative to the integrity standards established by similar properties in Soyd County, Kentucky which are currently listed on the National Register, and consultation with the State Historic Preservation Officer (SHPO) at the Kentucky Heritage Council in Frankfort



# Appendix E – Archaeological Overview

# AN ARCHAEOLOGICAL OVERVIEW OF THE I-64 TO ASHLAND CONNECTOR IN BOYD COUNTY, KENTUCKY (ITEM NO. 9-129.00)

by

Jennifer M. Haney

Prepared for

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Charles M. Niquette, RPA (

Co-Principal Investigator

Richard L Herndon, RPA

Co-Principal Investigator

Lead Agency: Federal Highway Administration Kentucky Transportation Cabinet Item Number 9-129.00

#### **Archaeology**

A search of records maintained by the National Register of Historic Places (NRHP) (available online at: http://www.nr.nps.gov/nrloc1.htm) and the Office of State Archaeology (OSA) was conducted to: 1) determine what portions of the area of potential effect (APE) had been previously surveyed for archaeological resources; 2) identify any previously recorded archaeological sites that were situated within the APE; and 3) provide information concerning what archaeological resources could be expected within the APE. The work at OSA consisted of a review of professional survey reports and records of archaeological sites for the area encompassing the APE. In addition to the file search, a review of records maintained by the NRHP and the Kentucky Heritage Council (KHC) and of available maps was initiated to help identify potential historic properties (structures) that may be associated with historic archaeological site locations. An analysis of the association between sites and environmental variables (primarily soils) was also conducted to identify areas of high potential to contain significant archaeological sites. The following summarizes the results of this investigation.

#### **OSA Site Files**

The OSA database indicated that 16 previous professional archaeological surveys have been conducted within or partially within the APE. Nearly five percent of the APE has been previously surveyed. In all, only 3 archaeological sites have been identified within the APE (Figure 1). What little information is available at the OSA concerning these sites is summarized below.

**15Bd2:** Prehistoric open habitation without mounds of an indeterminate age or cultural affiliation. Although the OSA database lists the site's topographic location as unspecified, the site appears to be located on a floodplain or terrace of the Ohio River in Elk series soils. The site's NRHP eligibility has not been assessed.

**15Bd4:** Prehistoric earthen mound of an indeterminate age or cultural affiliation. Although the OSA database does not list the site's topographic setting, the site appears to be located on a dissected upland ridge sideslope in Latham-Shelocta silt loams (30–50 percent slopes). The site's NRHP eligibility has not been assessed.

**15Bd5:** Prehistoric earthen mound of an indeterminate age or cultural affiliation. The site is located on Tilsit silt loam on a high stream terrace (upland flat). The site's NRHP eligibility has not been assessed.

Despite the low number of previously recorded sites within the APE, Boyd County has a high number of sites which would typically qualify for preservation in place. These include site types such as earthen mounds (n = 21), mound complexes (n = 9), non-mound earthworks (n = 1), open habitations with mounds (n = 3), and stone mounds (n = 12). Earthen mounds have been recorded on the Ashland (USGS 1983a), Catlettsburg (USGS 1983b), and Burnaugh USGS (1989) quadrangles; most of the mound complexes, non-mound earthworks, and stone mounds have been recorded on the Burnaugh USGS (1989) quadrangle. Most of the mound sites appear to be located in upland settings near the Ohio River, although floodplain settings are also present. Five of these sites are located in the vicinity (outside) of the APE and include Sites 15Bd1 (open habitation with mounds), 15Bd24 (mound complex), 15Bd35 (earthen mound), 15Bd36 (earthen mound), and 15Bd40 (earthen mound). None of these additional five sites could be associated with a temporal or cultural affiliation.

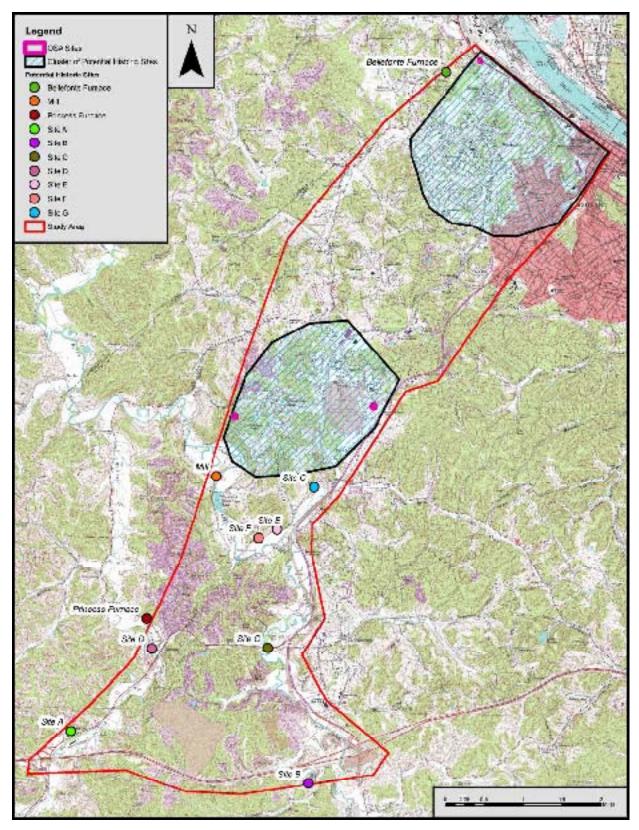


Figure 1. APE showing known archaeological sites and potential historic archaeological sites.

#### References

United States Geological Survey (USGS)

1983a Ashalnd, Kentucky, 7.5-minute series topographic quadrangle. United States, Department of the Interior, Washington, D.C.

1983b Catlettsburg, Kentucky, 7.5-minute series topographic quadrangle. United States, Department of the Interior, Washington, D.C.

1989 Burnaugh, Kentucky, 7.5-minute series topographic quadrangle. United States, Department of the Interior, Washington, D.C.

#### Areas of High Archaeological Site Potential

The OSA countywide site database was used to analyze the association between recorded site locations and environmental variables. This was done to identify areas with high potential to contain significant prehistoric archaeological deposits. Soils were found to be the best predictor because soil associations encompass such factors as landform age, depositional environment, slope, and erosion. This analysis suggested that within the APE deep soils on floodplains and stream terraces (alluvial environments) would have the greatest potential to contain significant prehistoric archaeological sites (Figure 2). Archaeological sites located in alluvial environments are often buried and, as such, have not been affected by later disturbances, such as plowing.

Table 1 includes a complete list of soil series located on floodplains or stream terraces within the APE. These soil types account for approximately 19 percent (1,153 ha [2,851 acres]) of the APE (Hail et al. 1979). In Boyd County, nearly half of all recorded archaeological sites have been located on floodplains or stream terraces. Despite this fact, only three archaeological sites have been previously recorded in the APE and these were recorded as being located on Elk series, Tilsit series, or unknown series soils. It is important to remember, however, that the eligibility of these, and most recorded archaeological sites in the county, had not been assessed.

The physiography of the APE is well dissected, although not as rugged as would be typical of the Eastern Coal Field Region (McGrain and Currens 1978). The northern portion of the APE has less rugged topography with more residential and urban development adjacent to the city of Ashland. The central and southern portions of the APE are more dissected with slightly more than 50 percent of the APE being steeply sloped (3,315 ha [8,193 acres]). Despite the steep slope, these areas retain the potential to contain archaeological sites such as rockshelters or petroglyphs. Additionally, archaeological sites located in ridge line saddles may have been covered and preserved by colluvial deposition related to deforestation (iron industry and logging). Upland flat areas also possess the potential to contain archaeological sites. Although upland areas typically would be classified as having a lower potential to contain NRHP-eligible cultural resources, the presence of prehistoric mound sites in greater Boyd County elevates their potential. To some degree, however, this upland potential is diminished by the fact that most of these site types (earthen mounds, mound complexes, non-mound earthworks, open habitations with mounds, and stone mounds) are moderately visible and have likely been previously recorded.

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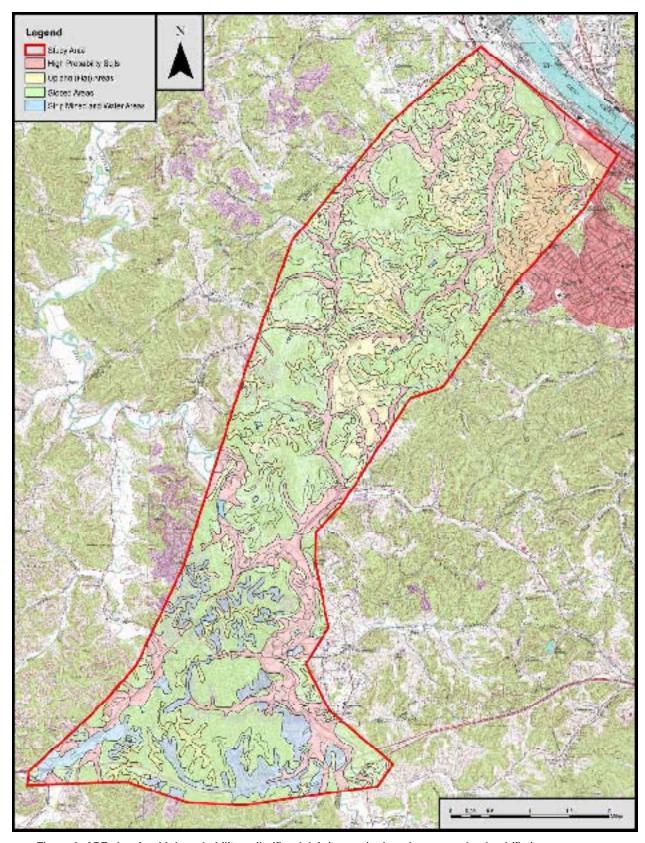


Figure 2. APE showing high probability soils (floodplain/terrace), sloped areas, and upland (flat) area.

Table 1. Summary of Soil Series for Floodplains and Stream Terraces.

Soil Code	Soil Description	Flood Frequency	Drainage
AIB	Alleghey loam	Indeterminate	Indeterminate
Bo	Bonnie silt loam	Frequent	Poorly drained
Co	Cotaco loam	Indeterminate	Somewhat poorly drained
Cu	Cuba silt loam	Frequent	Well drained
EkA	Elk silt loam	Indeterminate	Indeterminate
Hu	Huntington silt loam	Frequent	Well drained
Mo	Morehead silt loam	Indeterminate	Moderately well drained
Pf	Pope fine sandy loam	Frequent	Well drained
Sm	Stendal silt loam	Frequent	Somewhat poorly drained
Sn	Stokly fine sandy loam	Frequent	Somewhat poorly drained
Wb	Weinbach silt loam	Indeterminate	Somewhat poorly drained
WhA, WhB	Whitley silt loam	Indeterminate	Indeterminate

#### Review of Potential Historic Archaeological Resources

Several sources were consulted in an effort to identify potential historic archaeological resources within the APE. Primarily these included the site survey files at the KHC, the Cultural Historical Resource Overview (Powell 2007), and available historic maps. Cultural historic sites with aboveground structural features often have associated archaeological deposits. These types of resources have therefore been used to estimate the types and locations where potential historic archaeological deposits may be encountered.

Within the APE, there are historic districts as well, as individual cultural historic properties, which may have associated archaeological deposits (see Figure 1). Two historic districts and six individual properties are either listed in the NRHP or have been determined eligible for listing in the NRHP. Additionally, Powell (2007) located six historic districts and 26 additional individual properties which appear to meet National Register criteria, pending further research, within the APE. A wide array of historic properties was located and includes dwellings, bridges, churches, commercial/industrial buildings, a prison complex, a park, and a school gymnasium.

Nine historic districts are located in or adjacent to the APE. Most of these contain late nineteenth or early twentieth century structures and are located in fairly urban areas. These districts include industrial complexes as well as residential neighborhoods. Of particular note is the Ashland Historic Commercial District which spans the turn of the century and is listed in the NRHP and the Twelfth Street Historic District, which contains nineteenth century residential structures built by the owners of local industries. The urban properties in residential districts often possess more confined and clearly demarcated domestic activity areas. Although potentially disturbed by subsequent activities, such as road maintenance/widening, utility installations, and landscaping, urban archaeological deposits have yielded significant data in other parts of Kentucky (Faberson et al. 2007; Haney et al. 2004; O'Malley 1996).

The residential dwellings may be broadly described as clustered near the city of Ashland and near the central portion of the APE (see Figure 1). Most of the documented cultural historic sites date from the late nineteenth and early twentieth century. Several cultural historic sites (dwellings) are scattered in the southern portion of the APE (see Figure 1; Sites A–G). These tend to be some of the earlier structures which are extant in the APE. These structures may have more spatially extensive archaeological deposits. These more rural structures could have activity areas which are less constrained and have a wider potential range of subsistence/domestic activities. For example, the Midland Trail dwelling (Site A; Powell 2007) likely dates from the midnineteenth century and is located near U.S. 60 in the southern portion of the APE.

In addition to the available extant cultural historic resources (Powell 2007), historic maps provide clues to the locations of potential historic archaeological sites/deposits. Although no iron furnaces are located within the APE, the remains of several nineteenth-century iron furnaces are

located in the vicinity of and adjacent to the APE (see Figure 1) (Powell 2007; Schenk and Mitchell 1876). These locations may have had extended complexes or communities with associated archaeological sites and deposits related to operations or industry workers' residences. These charcoal-fueled iron furnaces include the Bellefonte, Princess, and Clinton Furnaces (Schenk and Mitchell 1876). The production of charcoal and iron has strongly influenced the development of Boyd County. This industry influenced deforestation (and subsequent erosion), settlement patterns, and the placement of roads and railway lines. In addition to the iron industry, other scattered residences and churches are noted on the 1876 (Schenk and Mitchell) map of Boyd County. These are largely located along streams. One mill (see Figure 1) is depicted along the East Fork (Schenk and Mitchell 1876).

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#### Schenk, C., and W.C. Mitchell

1876 Map of the Counties of Greenup, Carter, and Boyd and a Part of Lawrence. Kentucky Geological Survey, Frankfort, Kentucky.



# **Appendix F – Geotechnical Overview**

# REPORT OF GEOTECHNICAL OVERVIEW

# I-64 TO U.S. 23 ASHLAND CONNECTOR STUDY

Item No. 9-129.00

BOYD COUNTY, KENTUCKY

### PREPARED BY:

## AMERICAN ENGINEERS, INC. FIELD SERVICES CENTER GLASGOW, KENTUCKY

August, 2008





## AMERICAN ENGINEERS, INC.

PROFESSIONAL ENGINEERING

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August 1, 2008

Mit. Bir and tash Bintran 400 Busi Mine Street Serte 300 Lex motory KM 4050741575

RE: Genter mind Overview

3-6 - to U.S. 23 Addized Connector Study.

Boyd County, Kennicky Jean No. 9 (29:00) All: Project No. 207-3eS

Dear Mr. Cashe

A net can brigate at the Election was Center is pleased to stantif this server which details the way hard non-recognit, and absence process of the most of support of the above mentioned project.

The attached report describes the site, grothing trapegraphics or electromeal considerations. The Appendix to the report contains a drawing containing to interest in the locations, a books do performed beyond map, and combiguite potential maps.

We approximate the apportunity to be affective to you on this project and higher a traverse for for further support another and exhaustives on the fitting of Plays, employing the yout sweeping questions regarding this report.

Bespeculity AMERICAN ENGINEERS, INC.

Bhad Bhgh, P.C. Proisci Geologist

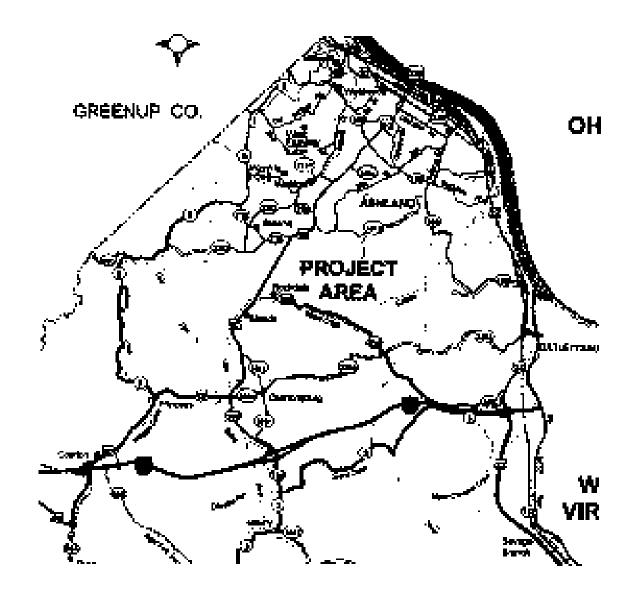
Demis Mitchell, P.F. Somor Geocclimeal Engineer

#### Geotechnical Overview

# 1-64 to U.S. 23 Ashland Connector Study

# Boyd County, Kentucky

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5.	Topography	
	Geotechnical Considerations	
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#### Geotechnical Overview

## I-64 to U.S. 23 Ashland Connector Study Boyd County, Kentucky

#### 1. Project Description

The project contribut begins on the south at 1-64 and onds on the north at Ash and, where the alleges throughout 5 miles wide on the southern pottinn of the project contributed, and about 2 to 3 miles wide throughout the remainder of the project contribute at lies within the Haston Contributed throughout the remainder of the project. The study area lies within the Haston Contributed the Pottsville (Scarpment)

The purpose of the project is to improve traffic flow between Interstate 64 and the only of Ash and. Concertly, U.S. 60 and U.S. 20 are the primary mates from Interstate 64 to dewetown Ashland. Eligh traffic volumes, easily lates, and severe traffic congestion are the primary income for the project. Heavy truck traffic between the interstate and Ashland are also of concern to the Transportation Caping).

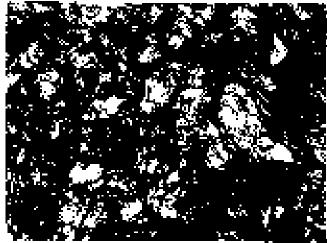
The pir bung study was conducted in relative nonorealite with a score of Scope of Work for Grotechnical Overviews for Planning Studies provided by KYTO Planning Transportation finbries tricotechnical Medius), as well as Science Still of the Kentucky Transportation finbries tricotechnical Medius), the study was conducted during November and Recember, 2007, and included field reconnaissance and geo-lagic research of an attable geologic and topographic quadrangle maps, sair survey of Broysl County, Kentucky, as well as colline research or available from the Kentucky Geological Survey and the United States Geological Survey. Past reports from protechnical investigations of partners of the overview.

#### 2. Nite Geology.

The confider lies primarily within two UNGS 7.5-number gardings and angle maps.

1) Geology of the Ashined Quadrangle, Kentucky Ohro, and the Collections, Quadrangle in Kentucky, 2nd 31 Geology of the Solicions and part of the Burdough Quadrangle. The available congrues sticate-the, the site is underlain by, in descending order of filled agg. Quadrany- aged allowing. Tentiary and Quadranory- aged tensor deposits, the Upper Pennsylvanian Consmangle Formation, and by the Middle Pennsylvanian Breatain Formation. The Coupling gland the Breathirt Formations are composed of steale, sand-block siltstone. Timescame, understony, and natural garding goal.

The rands claye of the Breathitt Formation, and to a lesser extent conjequable strains, are responsible for the majority of lands lides and slope failures in the study area. Routhway call and enthanking of slopes as list as 3Hr. V. which encounter these majorities are at some take for failure. Also, when water is importance to these quaterials, they typically exhibit a significant reduction in later of imposety, and behave as semi-plastic to play to majorial. Wiwho exposed to system of leading and enlanding in construction, they tend to pump and ret. Figure 1 shows exposed shall from a construction stuckpile near the southern portion of the study error which is actively wearser, to.



ki igaa miri. He asama maran dara tahun aran da galaysi

According to the quadrangle map. Genings of the Asialani Quadrangle, Kennecke Okes Equinoming geology section, landslines, see to the along in and near naturage of the Princess coal beds 6.4 ad 7 that the beds can be located by defines in the result that mass thom. Soward reports are available on the KYTC geolechnical regards distribute which are specific to landsfides in Hoyal (2004). Of these landsfide reports which discuss safe specific geology, the Breathin stall Continuated Farmanians are both protect recontain incomals which against contain mesonals which against cod to the slope failures. Figure 2 shows an approxy excelling slope behind a store in Canonsburg, off (1.8, 6).



Francis is a state of the second and the second and

Landshides are relatively common throughout the region, including the study area. A copy of *isomolish*: Orandess Map of the Contemporar United Study: (proving greeop) is uncluded in the Appendix. Movement of promotivator is the most common trigger for landshides in the another. The underclays and shales in the area are relatively opportueable, and water tends to migrate along the surface of those materials. As the water gradually saturates those noncombs, the amount of resisting force to movement is lowered in column to overlander pressures and the force of gravity (or eing linears). If the driving forces exceed the resisting forces, movement of the endarchays and shales well occur, usually along with any except gains stress.

To ever deposits were identified from available gooding comparing within the project area. These deposits are described as consisting of soco, will, and gravel, and are as much as 45 fact thick in the Asoland Quadrangle. Cobbles and boulders of quarrate and check as much as 5 to 1 feet in diameter are common. Terrace deposits such as those found within the study over work deposited by local streams and rivers during the Quaterrary

and Tertury Portods in provious floodplain areas. Most streams migrate over time, expeciably onling pariods of increased energy from surface month over extended propoly of time. After the smeam afters its original course, the elder deposits remain, typically at a higher elevation than the present stream lossed. These smeas should be avoided af possible cooks the hyterogeneous instance of unconsolidated traderials within these deposits. Much hise construction within allustal materials along existing throngs, dilitarential settlement can be expected within the liquits of these posterials of varying degrees.

Terrace deposits noted within the study ofer from available geologic mapping were predominant to and only the city of Ashland, and to a lesser extent, the sourners areas of Catlettsburg. Other areas of which terrace deposits were noted node, or a significant area in the victority of the Eudera, Concedional Institution, and also east of U.S. 60 south of the community of Messla.

Several and bods were identified both them gealogic mapping and from right recommissance, most notably Princess Nos. 1, 4, 5, 6, 7, and 8, as well as several thinner and more irregular northwheel order teague with the Breathott and Concernangh Fernations. Thickness of individual Princess Chair holls range typically from 1 to 4 feet based on import believely of the Ashiand Quadrangle. Boyd County has been could extensively for coal through both surface and underground moring. Name against mines were identified from available color a resources (KGS, www.menemaps.xy.gov), and it is possible that several older mines exist which are not recorded. A map of approximate coal mine knowns rated during the overview is make that in the approad is.

Cool holes within the project area are commonly underland by explorate to be gldy playing underclay layers, with relatively low permethal by. The low permeability of the underclay into the movement of groundwater, while the hiteminous cool is somewhat more permeable. As a result, when a mode of entry to a cool soften is available, water often travels a ong the seam to access point. Cool bods can often behave as aquifers and

commonly districtly water at a down/up location. This discharge can undermine areas in cut stopes, reparistly when encountainty nondurable underdays and shales. Figure 3 is a photograph of erosion beneath a thin cool had to a soft over Cassingburg.



Long J. Warn on Ulba Longwik confused more

Law actions

Similarly, some sandstane holf-wither the area are underlyin by underely layers, and confidence similar channer when copused in outsion naturally occurring slopes. To a losser satest, nondereble shales were noted along existing outs and new toadway construct on micro vicinity of the study area. These shales tend to break down when exposed to water, and weather rapidly, leading to potential slope failure.

Several deal mines, both active and innotive, are beautiful wirting the limits of the project study area. Ground substitution is always in risk whenever building in an area where both to kepp and and surface mining have notified. Seldement analysis should be performed in any mining area of which a potential consider may satisful provide settlement estimates. Review of avoidable penality and cuspting will also aid in determining the potential. The activities to such areas. Ordinarily, the most recently reflainted areas will have the mast potential for settlement. The activity of the surface mines within the project area are west of 0.5, 60 based upon a web search of the Kethocky Department lier Surface Mining Reclamation and Enforcement.

#### 3. Topingraphy

Topography of the study area is reprintilly described as rolling to mountainnus, with numerous steep skeps and narrow valleys. Topographic relief throughout the study area of gas then a less of about 520 thet mean the Ohio River along the eastern scotion of the contider, with a high elevation of about 960 feet near participant. Integraph 64 mean the southern boundary of the overview area. The study area is highly dissected by small streams and creaks, most of which ultimately drain to the Little Study. By Sandy, or Ohio Rivers. Surface runoff in the study area typography havis to a deathifus pattern. Figure 4 is a photograph of typical surbac drainage in Boyd Courty.



It is likely that if an entirely new corridor is abased for the project, the tecography well play a viral note in the nexte selection, such that out and littly obtained are halanced as much as possible to minimize construction costs. Figure 5 illustrates disminion regoggisally of the area.



Property of Property Compagning of Papel County, Manuscree, 2004 and the embryoness

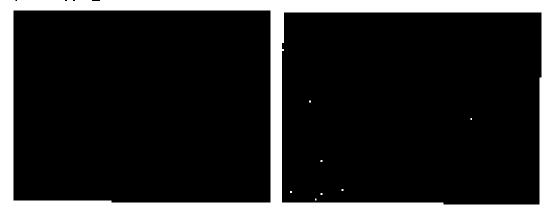
#### 4. Gentechnical Considerations

- Adequate drainage will be of primary concern with any design or new construction in the one. Several areas of non-durable shale and undercopy were mentioned both on the lieds and from available geologic mapping, particularly in the Breathist Fermition. Toolshows the relatively common in the areas often as a result of provided water on relatively impermeable buyers of placing shales and underclays.
- Subgrade soils are expected to have a CHR value typically less than 6. Non-durable shake, who is utilized as readway fill, should be expected to have a CBR value of 3 or less. Chemical iterational, such as lime application, may be desired to effectively stabilize read sebgrades. In items where neck is incountered during confusive exercisions, it should be utilized as a more affordable yet officerous situate tive. Whenever possible, subgrade molecools beginned on undertable shales should be avoided.
- Several small satesame and creeks were identified in the study area. Any captionally in the central and western partition of the study area. Any confidentations will require attorage to cross those streams. Typically, the shoulds or cateks encountered will require only a vingle of double reinforced contracts box policer in accommodate the skay readway construction. Propodations for any structure will most likely causist of studiose special lockings, which will bear on competent hostook, in identified from previous geotechnical explorations (continued) for structures in the area. Rock will normally be encountered near streams cooksing obstains at depths of less than fifture in reversy feet holes; the limithal readway grade. Pointestion captyres will depend upon site.

specific geology and enganeering recommissibilities from georechnical explosions performed at the pittential structure lineations.

- \* Roodway varibankineres and out stopes will be required to constitution of the new madway. Based upon our joint depondency with residual soils and took types from the Coren augit and Bresthitt Formations, embankments of 2000 or flatter will likely provide an acceptable factor of sufery for construction in the area in ours where materylays and considerable shales are encountered. Several maisting lighwalls were absenved in the area, particularly along Intersease 51, which consisted permarily of mass of sandstones. Based on review of the KMTT Geotechnical Manual, typical out slope profigoration for massive sandstone will vary from He2V to 18:20V. During design of our slopes in bachesk, presence of joines, fractures, so allong from an encountered and crossbodding should be taken into excisideration.
- Numerous oil and gas wells were noted to Boyd County lions a search of
  Kentucky Goolegical Survey oil and gas we'll recrois database, nonly of
  which lie within the soudy area. Any oil or gas wells sexuantered during
  construction will tread to be scaled per KYTC Standard Specifications. It
  uncountered by readway construction.
- Water wells encountered within the construction limits of any carridor shown will need to be seried per the KYTE Structural Specimesticals.
   Several wells were identified from a water well reports search at waveless, gov.
- Two (3) Insdrifts were rested wellow the southwestern portion of the project area, Green Velley Landfill and Big Rue Landfill, near 1.35, 60 and K.Y.
   State Raure 5. Any potential rose way development in this area should be

preciuded by a study of combible landfill permet recents and current and post morphing.



\* The study area, is located about 450 miles northered of the city of New Mudrid. Moseum, from wisco the New Mudrid Fault derives its major. It goes 2, included in the Appendix, is an issue area map of the Arisanses Earthquake of December 16, 1811, and is based on the Mudrid Viercall Intensity Scale. Hospid coon that earthquake, the damage exercingual within the study area would most rikely for within the Strong category. Other available exprises from www.esr@quake.usgs.gov/enticate that me study area would lie within an area for most gate potential for severe damage from an authquake. An earthquake hexard map, available from the United \$1500 Geological Survey, is also included in the Appendix.

#### Sugraucer

note to general occurrence of external factors will be a pain of selection of a new concluser eligibility or realignment of existing nation to outprove its Hig flow from Interstate 64 to Authorid and accounting many. Topographic velocities if influence any new route of realignment of partions of existing roads. Generally usercased topographic relief results in overall higher project easis. Additionally, the study area has been usined extensively for each, by means of both undergoand and surface on any. Any corridor of realignment chosen may encounter.

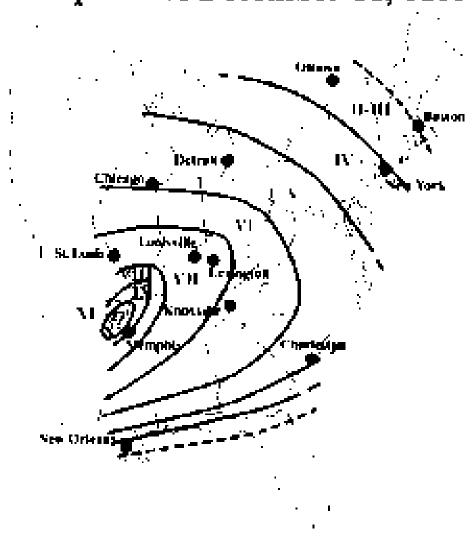
proviously mixed areas, particularly in the view by of the Princes community, and several areas west of U.S. 60. Review of available mining records should be examined along with settlement analyses to determine the potential toriadditional settlement analyses.

Terrare deposits should be awayded as well all possible does to the bettergenerous nature such potential for settlement. Construction of a new randomy through extensive areas of correct exposits would hivery establishmotics, costs. Bedded materials, such as encrondered or the Breathit and Conemargia Formations, depotential and for the community formations, depotential field in the region are susceptible to landshides. Measures to instructe the ambient and subscripts draining as safety such as flatter slopes, promotion of surface and subscripts drainings, vegetation, and construction of retaining walls will likely be required some extent regardless of the alignment chosen to reduce maintenance costs of any potential new roadway in the area. Actual recommendations for shape geometries and means of sublification would follow out grouply group drained investigation.

#### **Appendix**

- Isoseismal Мар, I. SGS.
- Estinguake Hazard Map, with typ, 1066/8.
- Laidshide Own view Man, USGS.
- Approximate Mine Location Mag.

# Isoseismal Map for the Arkansas Earthquake of December 16, 1811



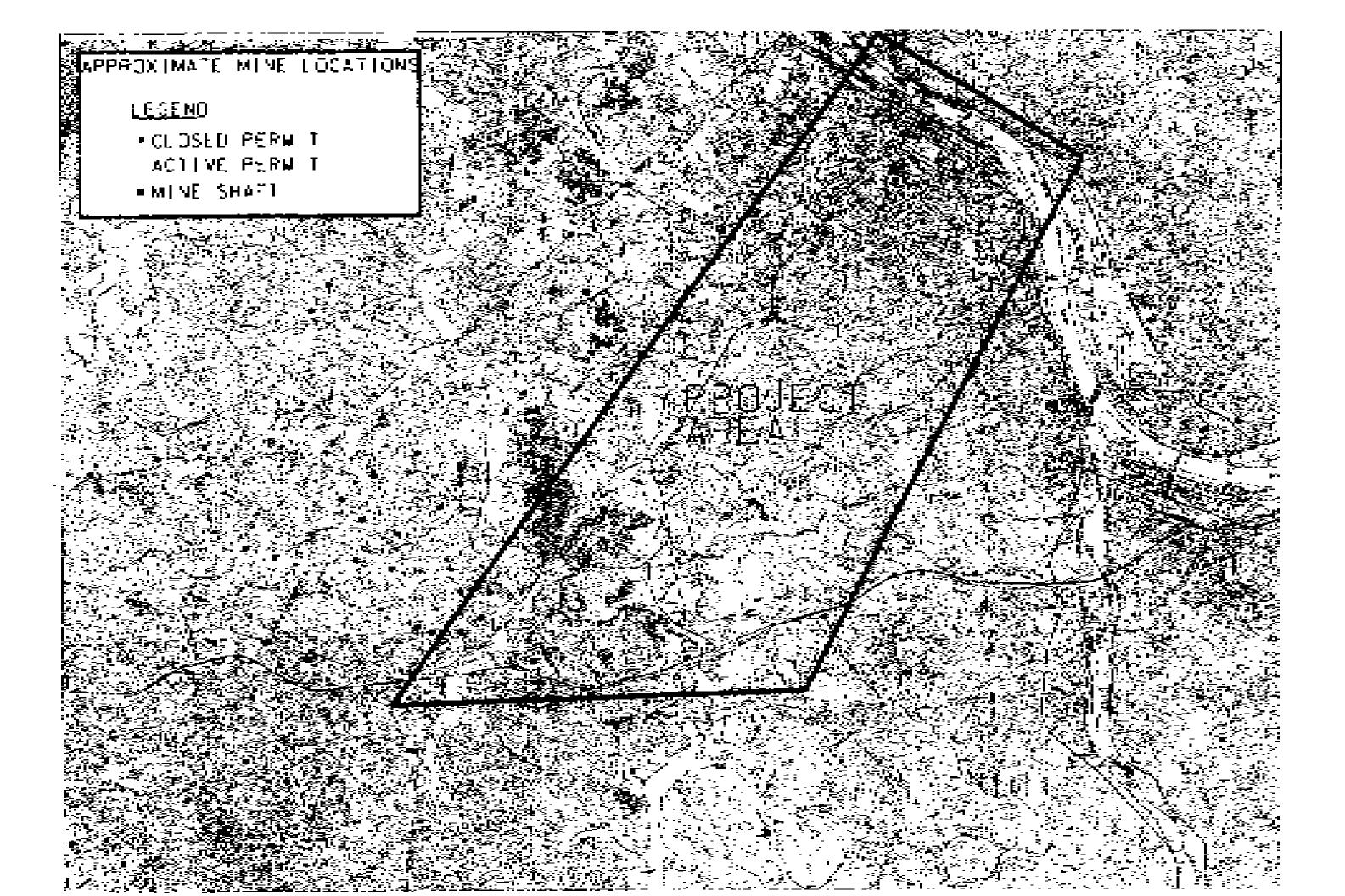
### Modified Mercalli Intensity Scale

IMTE	NSITY	EFFECTS A	WE. PEAK ACCELERATION
¥I	Strong	Foll by all. Damage eligin	0.08-0.07g
VI	Wely Strong	Everytoody rune audoorg. Considerable damage to poorg designed buildings.	0.10-0.15g
V.H	Gestructive	Considerable damege so owilny buildings.	wy 6.25–0.30g
DK	<b>Ru≐</b> 1043	Great damage to ordinary build	lings 0.56-0.55g
×	Dissamous	Many buildings destroyed.	∺0.60g
ΧI	Disastrous	Fév. il triy, structures remain standing	





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### **Appendix G – Environmental Justice Overview**

# Ashland-Boyd County Westwood-Fairview I-64 to US 23 Connector Study

### **Environmental Justice and Community Impact Report**



















### Ashland – Boyd County I-64 to US 23 Connector Study

# Environmental Justice and Community Impact Report

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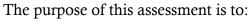
#### **APPENDIX**

- A-1: Planning Study Elected Officials List
- B-1: Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies
- C-1: Populations by Race Findings
- D-1: Populations by Persons Age 65 and Over and Total Disabilities
- E-1: Determined Poverty Status By Race Populations

#### 1.0 Introduction

The Boyd County Planning Study for the I-64 to US 23 Connector has been studied and this Community Impact Assessment will examine the purpose and need for the Corridor as well as examine community concerns and ultimately make recommendations. The I-64 to US-23 Corridor Study is a priority goal in the

Ashland Comprehensive Plan where it is desirous of providing an efficient and economical transportation system, insuring a context sensitive approach to assess potential impacts. This study is charged with investigating Environmental Issues such as Community and Residential Impacts, the Environmental Justice piece in the Westwood and Fairview neighborhoods; all the while considering the historical properties and natural environment in the study area.



- Fulfill applicable federal Environmental Justice commitments; and
- Further the goals and objectives and cooperative nature of the transportation planning process.

The assessment identifies through socio-demographic analysis, the extent to which Environmental Justice populations and any other groups of concern reside in or surrounding the study area that may be impacted by the proposed transportation project. Upon the results of this socio-demographic analysis, if the determination is made declaring disproportionately high or adverse effects; proposing measures to avoid, minimize, and / or mitigate effects; and providing specific opportunities

for public involvement, subsequent actions may be undertaken as appropriate.

The resources used to compile the data contained herein are the U.S. Census Bureau, Kentucky State Data Center, local elected officials, community leaders, and field observations of the study area. The information and results are intended to assist the Kentucky Transportation Cabinet in making informed and prudent decisions in the study area, particularly as it pertains to the requirements of Executive Order 128981, to ensure equal environmental protection to all groups potentially impacted by any project ensuing from the Ashland – Boyd County I-64 to US 23 Connector Study.

This report includes data tables comparing the populations of the census divisions directly in and around the study area at the county, state, and national levels using 2000 Census Data Reports. Statistics are provided for minority, elderly, and low-income populations for census tracts, block groups, and census blocks, except where









not available. For ease of analysis, maps are included that highlight areas of interest at the block group or census block level.

#### 2.0 Environmental Justice

On February 11, 1994, Executive Order 12898, entitled *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* was signed requiring all Federal agencies "to the greatest extent practicable and permitted by law...each federal agency shall make achieving environmental justice a part of its mission by identifying and address, as appropriate, disproportionately high adverse human health or environmental effects of its programs, policies, and activities on minority and low-income populations in the United States." The Presidential Memorandum accompanying Executive Order 12898 directed Federal agencies to:

- Analyze the environmental effects (health, economic, and social) of proposed actions, including such effects on minority and low-income communities, when such analysis is required by NEPA
- Address the significant adverse effects of any mitigation measures outlined or analyzed in an EA, EIS, or ROD on minority and low-income communities
- Provide opportunities for community input in the NEPA process, including identifying potential effects and mitigation measures in consultation with affected communities, improving the accessibility of meetings, and providing access to crucial documents and notices.

This assessment attempts to apply current state of the practice procedure to provide the information needed to "...ensure that the interest and well being of minority populations and low income populations are considered and addressed during the transportation decision making process."

Additionally, two groups included in this assessment are the elderly (age 65 and older) and persons with disabilities. The above Environmental Justice orders do not address these additional peoples. Although, as a matter of good planning practice and in accordance with the Kentucky Transportation Cabinet document, *Methodology for Assessing Potential Environmental Concerns for KTYC Planning Studies (February, 2002)*, these two groups have been included (Appendix B).

Investigation for the Ashland- Boyd County I-64 to US 23 Connector Study – Environmental Justice Community Impact Assessment will evaluate and analyze the impacts for the Westwood and Fairview neighborhoods with in the Study Area.

#### 3.0 Definitions

This assessment uses several terms that are unique to the Environmental Justice process. In accordance with USDOT Order 5610.2 on EJ, issued in the April 15, 1997 Federal Register defines what constitutes low-income and minority population.



April 2008

- **Low-Income** is defined as a person whose median household income is at or below the U.S. Department of Health and Human Services poverty guidelines.
- Minority is defined as a person who is: (1) Black (a person having origins in any black racial groups of Africa); (2) Hispanic (a person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race); (3) Asian American (a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands); or (4) American Indian and Alaskan Native (a person having origins in any of the original people of North America and who maintains cultural identification through tribal affiliation or community recognition).
- **Low-Income Population** is defined as any readily identifiable group of low income persons who live in geographic proximity, and if circumstances warrant geographically dispersed/transient persons who will be similarly affected by a proposed DOT program, policy or activity.
- **Minority Population** is defined as any readily identifiable group of minority persons who live in geographic proximity, and if circumstances warrant, geographically dispersed/transient persons who will be similarly affected by a proposed DOT program, policy or activity.

The following terms and definitions are according to the Federal Highway Administration:

- Adverse Effects are the totality of significant individuals or cumulative human health or environmental effects, included interrelated social and economic effects, which may include, but are not limited to: bodily impairment, infirmity, illness or death; air, noise, and water pollution and soil contamination; destruction or disruption of man-made or natural resources; destruction or diminution of aesthetic values; destruction or disruption of community cohesion or a community's economic vitality; destruction or disruption of the availability of public and private facilities and services; vibration; adverse employment effects; displacement of persons, businesses, farms, or nonprofit organizations; increased traffic congestion, isolation, exclusion or separation of minority or low-income individuals within a given community or from the broader community; and the denial of, reduction in, or significant delay in the receipt of, benefits of FHWA programs, policies, or activities.
- Disproportionately High and Adverse Effects on Minority and Low-Income Populations means an effect that:
  - Is predominately borne by a minority population and/or a low-income population; or
  - Will be suffered by the minority population and/or low-income population and is appreciably more severe or greater in magnitude than the adverse effect that will be suffered by the nonminority population and/or nonlow-income population.

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The following terms are defined using US Census Bureau terminology and data:

- **Elderly Persons** include persons of age 65 and older as of April 1, 2000 (Census Day).
- **Persons with Disabilities** include persons for which any of the three following conditions were true as of April 1, 2000 (Census Day):
  - They were 5 years old and over and had a sensory, physical, mental, or self-care disability;
  - They were 16 years old and over and had a going outside the home disability; or
  - They were 16 to 64 years old and had an employment disability.

#### 4.0 Methodology

The procedures involved in conducting the community impact assessment for this project center on the identification of potentially impacted populations. The primary sources of data used in the compilation of this report were the U.S. Census Bureau's 2000 Census, Kentucky State Data Center, local elected officials, community leaders, and field observations. Statistics were compiled to present a detailed analysis of the community conditions and to identify potentially impacted populations within the study area.





Tables and maps depicting race, ethnicity, minorities, and persons with low-income are used to indicate the locations and the magnitude of potentially impacted Environmental Justice populations. Elderly and disabled persons are also distributed in the data as part of the Kentucky Transportation Cabinet's "Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies."

Profile tables were developed for each population of interest and for several geographic levels in and around the study area. Tables showing the total number of persons by race, ethnicity, minority status, poverty status, elderly status, and disability status were constructed for each Census Tract, broken down by block groups, within the study area.



The tables were assembled using year 2000 Census Data. The decennial census data represents the most comprehensive information source available in terms of the number of data variables collected and the number of demographic levels available for the study area. Map 4.0.1, below depicts the study area with the connector road.

#### 5.0 Census Data Analysis

The U.S. Census Bureau defines geographical units as:

- **Census Tract (CT)** A small, relatively, permanent statistical subdivision of a county or statistically equivalent entity delineated for data presentation purposes by a local group of census data users or the geographic staff of a regional census center in accordance with Census Bureau guidelines. CTs generally contain between 1,000 and 8,000 people. CT boundaries are delineated with the intention of being stable over many decades, so they generally follow relatively permanent visible features. They may also follow governmental unit boundaries and other invisible features in some instances; the boundary of a state or county is always a census tract boundary.
- Block Group (BG) A statistical subdivision of a CT. A BG consists of all tabulation blocks
  - whose numbers begin with the same digit in a CT. BGs generally contain between 300 and 3,000 people, with an optimum size of 1,500 people.
- Census Block (CB) An area bounded on all sides by visible and/or invisible features shown on a map prepared by the Census Bureau. A CB is the smallest geographic entity for which the Census Bureau tabulates decennial census data.



Census designated places (CDPs) are closely settled, named, unincorporated communities that generally contain a mixture of residential, commercial, and retail









areas similar to those found in incorporated places of similar sizes. Westwood has been identified and meets the criteria as being a CDP by the Census Bureau.

The Census Bureau works with local participants to delineate boundaries for CDPs. By defining CDPs, the Census Bureau can tabulate and disseminate data for localities that otherwise would not be identified as places in the decennial census data products. Westwood lies in Boyd County, Census Tract 308 but is further analyzed as a CDP. Map 5.0.1 locates the Westwood CDP and boundaries.

Each CDP will contain an identifiable core encompassing the area that is associated strongly with the CDP name and contains the majority of the CDP's population, housing, commercial structures, and economic activity. A CDP must comprise a reasonably compact and continuous land area internally accessible to all points by road. (Except where parts of a CDP are separated by a narrow corridor of incorporated territory, or where the topography or geographic patterns of settlement are not compact, but are irregularly shaped.) A CDP may not be located partially or entirely within an incorporated place or another CDP. A CDP encompasses the surrounding closely settled territory associated with the place name. The Census Bureau does not intend for a CDP to be an apartment complex or residential subdivision in densely settled areas or simply a crossroads in rural areas.

There are no minimum or maximum population thresholds for recognition as a CDP. This represents a substantial change from all prior CDP criteria.

A CDP name may not duplicate the name of an adjacent or nearby incorporated place.

A CDP may not be located in more than one state, nor may a CDP cross the boundaries of American Indian reservations (AIRs), American Indian trust lands, or a Tribal Jurisdiction Statistical Areas (TJSA)s. A CDP, however, may cross county and county subdivision boundaries.

A CDP may not be coextensive with Alaska Native village statistical areas (ANVSA), county subdivisions, counties, AIRs, TJSAs, and states. (Exceptions are: Arlington County, Virginia, towns in New England, townships in New Jersey and Pennsylvania, and charter townships in Michigan.

CDP boundaries should follow visible and identifiable features, such as roads, rivers, canals, railroads, and above-ground high-tension power lines. The following nonvisible governmental unit boundaries are acceptable as CDP boundaries:

- All state and county boundaries.
- All minor civil division (MCD) boundaries (generally towns and townships) in Connecticut, Indiana, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

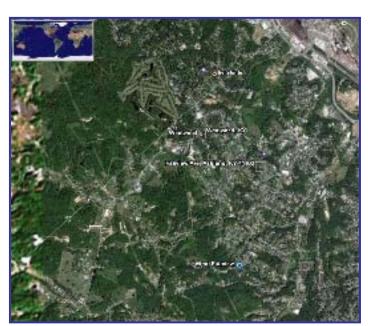


- Some MCD boundaries in Illinois (townships only, not election precincts), Iowa, Kansas, Michigan, Minnesota, Missouri (governmental townships only), Nebraska (townships only, not election precincts), North Dakota, Ohio, South Dakota, and Wisconsin.
- Barrio, barrio-pueblo, and sub-barrio boundaries in Puerto Rico, census subdistrict boundaries in the Virgin Islands, MCD-county and island boundaries in American Samoa, and municipal district boundaries in the Northern Mariana Islands.
- All incorporated place boundaries.
- American Indian reservation boundaries.
- American Indian trust land, Alaska Native village statistical area, and Alaska Native Regional Corporation boundaries.

The Census Bureau may modify, and if necessary reject, any proposed CDP that does not comply with the CDP criteria. The Census Bureau also may define CDPs in instances where clear evidence of a place exists, but for which local participating officials did not submit boundaries.

#### Area of Interest

This corridor study is evaluating the need for a new or improved connector route



from the vicinity of downtown Ashland to a location on I-64 in Boyd County. Engineering services will look at essentially a ten mile long by three mile wide corridor from I-64 to US 23.

The Westwood and Fairview communities are the primary areas of interest in determining if there will be any adverse impacts from the I-64 to US 23 Connector. These two communities are not incorporated as part of the City of Ashland and have been assessed as two communities

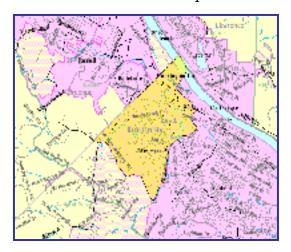
independent of each other.

Westwood CDP is located in Kentucky, Boyd County, and Census Tract 309 (see Map 5.0.1). It lies west of US Hwy 60 and west of Ashland city limits. Portions of the community are located on a flat hilltop and down in a flat valley along Hood's Creek. The area of Westwood is total 4.0 sq mi.



As a community with a total population of 4,951, Westwood was developed beginning in the late 1920's as a residential suburb of Ashland and was mainly inhabited by the steel workers and their families who were employed by the nearby American Rolling Mill Co.

Fairview has been identified as another area of interest as community cluster outside of the City of Ashland. Fairview lies in Kentucky, Boyd County, and Census Tract 309. It is a neighborhood of Westwood and is included in the Westwood CDP Census data.



Map 5.0.1 – Westwood CDP
Source: 2000 US Census Data Map, Westwood CDP

Westwood CDP has never been incorporated into the City of Ashland though it is closely affiliated as it shares a zip code, bus system, and sewer lines. This community has its own school district, the Fairview Independent School District, three community churches, a fire station and neighborhoods, including Fairview and West Fairview.

The census data tables for the purpose of this analysis include percentages for minority, elderly, disabled, and low-income populations in the United States, Kentucky, Boyd County, Ashland communities of Westwood CDP, Census Tracts, Block Groups, and Census Blocks located in and around the study area, except where not available. This data was separated into similar geographical census units to obtain accurate measures of demographic data.



#### 6.0 Study Findings

This Environmental Justice and Community Impact Report are to be used as a component of a planning study for transportation system improvements in the Ashland urban and rural areas, specifically the communities of Westwood and the Fairview Neighborhood. This study is intended to help define the locations and purposes of projects and meet federal requirements regarding consideration of environmental issues as defined in the National Environmental Policy Act (NEPA).





According to the 2000 Census, there are six (6) Census Tracts and twenty five (25) Block Groups that encompass the population of the defined study area. The Boyd



County Total Population is 49,752; the Ashland Study Area Total Population is 21,981 and the Westwood CDP Total Population is 4,951. These populations are broken out below in Table 6.0.1. Corresponding Map 6.0.1 shows the location of these Census Tracts in Boyd County, Kentucky.

Table 6.0.1 –Census Tracts and Block Group Populations

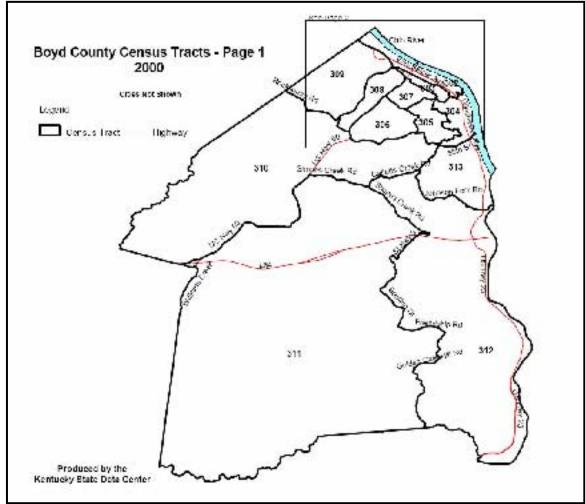
Tuble 6.6.1 Cellsus Tracts and Block Group Topulations								
Census '	Tract 306	Census 7	Fract 307					
Block Group 1	1,164	Block Group 1	1,149					
Block Group 2	985	Block Group 2	1,464					
Block Group 3	1,251	Block Group 3	965					
Block Group 4	769	Total Population	3,578					
Total Population	4,169							
Census '	Γract 308	Census 7	Гract 309					
Block Group 1	1,502	Block Group 1	1,449					
Block Group 2	529	Block Group 2	1,504					
Block Group 3	1,938	Block Group 3	1,539					
Total Population	3,969	Block Group 4	1,280					
		Total Population	5,772					
		Westwood CDP	4,951					
Census '	Γract 310	Census 7	Гract 311					
Block Group 1	1,932	Block Group 1	2,440					
Block Group 2	814	Block Group 2	1,358					
Block Group 3	1,025	Block Group 3	1,143					
Block Group 4	2,078	Block Group 4	1,044					
Block Group 5	943	Block Group 5	1,779					
Block Group 6	1,330	Total Population	7,764					
Total Population	8,122							

Source: US Census Bureau

Data Set: Census 2000 Summary File 3

There are 95 Census Blocks in Census Tract 306. There are 64 Census Blocks in Census Tract 307. There are 80 Census Blocks in Census Tract 308. There are 158 Census Blocks in Census Tract 309. There are 197 Census Blocks in Census Tract 310. There are 227 Census Blocks in Census Tract 311.





Map 6.0.1 - Census Tract Locations in Boyd County, Kentucky

Source: http://ksdc.louisville.edu/sdc/maps2000/Boyd1.pdf

There are 821 Census Blocks that make up the area covered in this report.

#### 7.0 Study Findings / Population by Persons of Minority Origin

As described in the census data, the White Alone population for the state of Kentucky is 90.1%, which is much higher than the national percentage of 75.1%. The total minority population for the state has been calculated and found to be 9.9%. The minority percentage for Boyd County is lower than this value at 4.2%.

This study has identified populations by persons of minority origin to be located in Census Tract 310 with a total population of 8,122. The majority race is White Alone comprising 86.94% of the race population.

The area of identified minority populations lies in CT 310 BG 4, west of US Hwy. 60 in the Project Area. In this location, there are eighteen census blocks. The corresponding Census Map 7.0.1 depicts BG 4 locations.

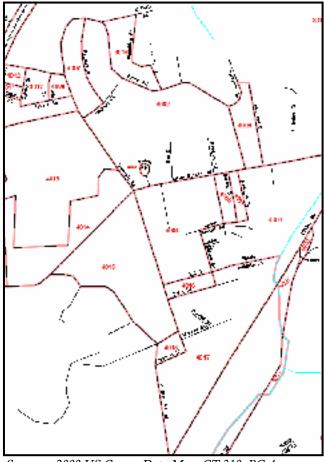


Within this block group, the total minority population comprising of Black/African American Alone, American Indian/ Alaska Native Alone, Asian Alone and Hispanic/ Latino Alone is 922 or 12.31% of minority origin.

In accordance with the USDOT definition of Minority, all races were included in the minority concentration analysis. It is worth noting, though, that the Black or African American population makes up approximately 2.5% of the total minority population in Boyd County.

Also worth mentioning is the Hispanic or Latino Origin (of any race) makes up 1.1% of the total minority population in Boyd County.

Map 7.0.1- Census Tract 310- Block Group 4



Source: 2000 US Census Data Map, CT 310, BG 4

When analyzed separately, these individuals were found to make up a very low percentage in Boyd County, for purposes of this study, the areas indicated are highly representative of the Black or African American and Hispanic or Latino populations in the study area. All of the other races have very low concentrations at county, city, census tract, and block group levels. Below, Table 7.0.1 shows the Population by Race Findings for Census Tract 310 and by Block Group. Please see Appendix C-1 for all Census Tract population totals, broken down by Block Groups for Population by Race Findings.



Table 7.0.1 - Population by Race Findings

Census Tract 310 - Boyd County, Kentucky											
	Block	Block	Block	Block	Block	Block	Race	Percentage			
Race	Group	Group	Group	Group	Group	Group	Populations	of Race			
	1	2	3	4	5	6	Totals	Population			
White Alone	1,936	771	999	1,182	900	1,273	7,061	86.94%			
Black/ African											
American Alone	0	1	1	576	9	2	589	7.25%			
American											
Indian/Alaska											
Native Alone	8	0	2	9	1	3	23	0.28%			
Asian Alone	0	5	0	9	15	1	30	0.37%			
Native											
Hawaiian/Pacific											
Islander Alone	0	0	0	0	0	0	0	0.00%			
Hispanic or Latino											
Alone	6	13	2	328	7	2	358	4.41%			
Some Other Race											
Alone	0	0	0	0	0	0	0	0.00%			
Two or More											
Races Alone	11	3	10	14	14	9	61	0.75%			

Source: 2000 Census Data, CT 310, Custom Table

http://factfinder.census.gov

# 8.0 Study Findings / Population by Persons 65 and Over and Total Disabilities

As described in the census data, the population percentage of Persons 65 and Over are consistent at the national and state at 12.4% and 12.5%. For Boyd County, 15.05% or 7,486 of the population are Persons 65 and Over. Of this, 3,611 or 48.2% have been identified with a disability as a noninstitionalized civilian. Two areas within the Project Area appear to warrant further analysis for both these populations.

This study has identified populations by persons of 65 and over to be located in Census Tract 306 with a total population of 4,169. 940 or 22.54% of the total population are found to be age 65 and over. The majority of this population is located in Block Group 1. There are twenty five census blocks in BG1. Map 8.0.1 shows these locations.

The total population for Age 65 and Over in Block Group 1 is 344.

Source: 2000 US Census Data Map, CT 306, BG1

Map 8.0.1- Census Tract 306 – Block Group 1





The second area of interest is located in CT309 BG1, north of US Hwy 60. The Westwood CDP has census blocks encompassed in Block Group 1. There are twenty four census blocks within the highlighted area on Map 8.0.2. This area having 986 or 17.08% population of disabilities for noninstutionalized civilian people 16 to 64 years and 65 years and over is the largest population in the Project Area.



Map 8.0.2 – Census Tract 309- Block Group 1

Please refer to Appendix D-1 for the Census Data for all census tracts in the project area analyzing total populations for age 65 and over and disabilities for noninstitutionalized civilians.

Source: 2000 US Census Data Map, CT 309, BG 1

#### 9.0 Study Findings / Population by Persons Below Poverty Level

As described in the census data, the percentage of people in Kentucky below the poverty level is 15.8% – well above the national level of 12.4% and near the county level of 15.5%. However, the city of Ashland has a much higher value of poverty at 18.5% of its total population. The poverty status for Westwood CDP is at 14.2%.

The highest concentration of poverty was found in Census Tract 308 at 29.4%, followed by Census Tract 309 with a percent of 13.7 and Census Tract 310 with a percent of 12.6. The lowest concentration of poverty was found in Census Tract 307 at 8.7%.

In Census Tract 306 of the 4,162 individuals for whom the poverty status is determined, 410 fall below poverty level for a total of 9.9%. A total of 355 individuals were white, 67 were black, 4 were American Indian and Alaska Native, 40 were two or more races and 8 were Hispanic individuals.

In Census Tract 307 of the 3,426 individuals for whom the poverty status is determined, a total of 297 individuals fall below poverty level for a total of 8.7%. Of this percent, 292 were white, and 5 were Asian individuals.



In Census Tract 308 of the 3,953 individuals for whom poverty status is determined, a total 1,164 individuals fall below the poverty level for a total of 29.4%. Of the 29.4%, a total of 1,086 were white, 7 were black, 64 were two or more races, and 17 were Hispanic individuals.

In Census Tract 309 of the 5,772 individuals for whom poverty status is determined, a total of 790 individuals fall below poverty level for a total of 13.7%. Of the 13.7%, a total of 769 individuals were white, and 21 were two or more races.

In Census Tract 310 of the 6,681 individuals for whom poverty status is determined, 840 individuals fall below poverty level for a total of 12.6%. Of the 12.6% a total of 746 individuals were white, 7 were American Indian and Alaska Native, 87 were two or more races and 17 were Hispanic individuals.

In Census Tract 311 of the 7,723 individuals for whom poverty status is determined, 839 individuals fall below poverty level for a total of 10.9%. Of the 10.9%, a total of 802 individuals were white, 14 were black, 14 were two or more races and 24 were Hispanic individuals.

It is worth noting that the largest area of concentration for poverty fell in Census Tract 308.

#### 10.0 Conclusion

After a comprehensive analysis of the Ashland study area, there appear to be several areas of interest at the Block Group and Census Block level in regard to race, age, disabilities, and income level. These areas have been described in the *Study Findings* sections of this report and can be deduced from the respective Census maps.

It is evident from the data that there are several locations that need to be monitored and taken into consideration when planning for a specific project. Project staff will continue to monitor those locations, as well as the surrounding study area for demographic and / or socioeconomic changes that may occur throughout the development of a project.



#### Appendix A-1

#### Planning Study Elected Officials List

U.S. Representative Rep. Geoff Davis

State Senator Senator Walter Blevins

State Representative Rep. John Vincent (100)

Rep. Rocky Adkins (99) Rep. Tanya Pullin (98)

**Boyd County** 

Judge Executive William Stevens
Commissioners Clarence Jackson

Marvin "Coach" Meredith

Carl Tolliver

Ashland Officials

Mayor Steve Gilmore Commissioners Kevin Gunderson

Larry Brown Paula Hogsten Cheryl Spriggs



### Appendix B-1

**Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies** 



### Appendix C-1

### Population by Race Findings

Cenus Tract 306 - Boyd County, Kentucky										
Race	Block Group 1	Block Group 2	Block Group 3	Block Group 4	Populations	Percentage of Race Population				
White Alone	1,111	944	1,240	747	4,042	96.95%				
Black/ African American Alone	30	22	7	15	74	1.78%				
American Indian/Alaska Native Alone	0	2	1	0	3	0.07%				
Asian Alone	5	3	0	1	9	0.22%				
Native Hawaiian/Pacific Islander Alone	0	0	0	0	0	0%				
Hispanic or Latino Alone	8	3	0	5	16	0.38%				
Some Other Race Alone	2	1	0	0	3	0.07%				
Two or More Races Alone	8	10	3	1	22	0.53%				

Cenus Tract 307 - Boyd County, Kentucky											
Race	Block Group 1	Block Group 2	Block Group 3	Race Populations Totals	Percentage of Race Population						
White Alone	1,162	1,393	856	3,411	95.33%						
Black/ African American Alone	24	27	19	70	1.96%						
American Indian/Alaska Native Alone	0	0	0	0	0.00%						
Asian Alone	5	2	1	8	0.22%						
Native Hawaiian/Pacific Islander Alone	0	0	0	0	0%						
Hispanic or Latino Alone	4	8	3	15	0.42%						
Some Other Race Alone	11	0	0	11	0.31%						
Two or More Races Alone	24	33	6	63	1.76%						

Cenus Tract 308 - Boyd County, Kentucky											
Race	Block Group 1	Block Group 2	Block Group 3	Race Populations Totals	Percentage of Race Population						
White Alone	1,417	517	1,877	3,811	96.02%						
Black/ African American Alone	40	0	18	58	1.46%						
American Indian/Alaska Native Alone	3	1	2	6	0.15%						
Asian Alone	5	0	3	8	0.20%						
Native Hawaiian/Pacific Islander Alone	0	0	0	0	0%						
Hispanic or Latino Alone	13	9	17	39	0.98%						
Some Other Race Alone	2	1	0	3	0.08%						
Two or More Races Alone	22	1	21	44	1.11%						



Cenus Tract 309 - Boyd County, Kentucky										
Race	Block Group 1	Block Group 2	Block Group 3	Block Group 4	Populations	Percentage of Race Population				
White Alone	1,372	1,557	1,448	1,286	5,663	98.11%				
Black/ African American Alone	2	9	7	5	23	0.40%				
American Indian/Alaska Native Alone	1	1	2	0	4	0.07%				
Asian Alone	2	2	14	1	19	0.33%				
Native Hawaiian/Pacific Islander Alone	0	0	0	0	0	0%				
Hispanic or Latino Alone	5	10	9	0	24	0.42%				
Some Other Race Alone	0	0	0	0	0	0.00%				
Two or More Races Alone	13	8	13	5	39	0.68%				

Cenus Tract 310 - Boyd County, Kentucky											
Race				Block Group			Populations	Percentage of Race Population			
White Alone	1,936	771	999	1,182	900	1,273	7,061	86.94%			
Black/ African American Alone	0	1	1	576	9	2	589	7.25%			
American Indian/Alaska Native Alone	8	0	2	9	1	3	23	0.28%			
Asian Alone	0	5	0	9	15	1	30	0.37%			
Native Hawaiian/Pacific Islander Alone	0	0	0	0	0	0	0	0.00%			
Hispanic or Latino Alone	6	13	2	328	7	2	358	4.41%			
Some Other Race Alone	0	0	0	0	0	0	0	0.00%			
Two or More Races Alone	11	3	10	14	14	9	61	0.75%			



Cenus Tract 311 - Boyd County, Kentucky											
Race				Block Group 4		Race Populations Totals	Percentage of Race Population				
White Alone	2,325	1,300	1,168	1,052	1,746	7,591	99.77%				
Black/ African American Alone	33	8	0	0	32	73	0.94%				
American Indian/Alaska Native Alone	5	1	4	4	5	19	0.24%				
Asian Alone	15	0	0	1	1	17	0.22%				
Native Hawaiian/Pacific Islander Alone	0	0	0	0	0	0	0.00%				
Hispanic or Latino Alone	15	1	2	3	10	31	0.40%				
Some Other Race Alone	0	0	0	1	2	3	0.04%				
Two or More Races Alone	17	5	0	5	13	40	0.52%				



# **Appendix D-1 Population by Persons 65 and Over and Total Disabilities**

Census Tract 306 - Boyd County, Kentucky											
Population	Block Group 1	Block Group 2	Block Group 3	Block Group 4	Populations Totals	Percentage of Population					
Age 65 and Over Total	344	175	330	91	940	22.54%					
Disabilities for Noninstutionalized Civilian											
people 5 to 15 years	20	6	0	8	34	0.82%					
Disabilities for Noninstutionalized Civilian											
people 16 to 64 years	241	331	176	78	826	19.81%					
Disabilities for Noninstutionalized Civilian											
people 65 years and Over	212	129	165	80	586	14.06%					

Census Tract 307 - Boyd County, Kentucky									
	Block	Block	Block		Percentage				
Population	Group	Group	Group	Populations	of				
	1	2	3	Totals	Population				
Age 65 and Over Total	206	352	150	708	19.79%				
Disabilities for Noninstutionalized									
Civilian people 5 to 15 years	31	84	21	136	3.80%				
Disabilities for Noninstutionalized									
Civilian people 16 to 64 years	280	570	224	1074	30.02%				
Disabilities for Noninstutionalized									
Civilian people 65 years and Over	100	215	174	489	13.67%				

Census Tract 308 - Boyd County, Kentucky									
	Block	Block	Block		Percentage				
Population	Group	Group	Group	Populations	of				
	1	2	3	Totals	Population				
Age 65 and Over Total	148	82	424	654	16.48%				
Disabilities for Noninstutionalized									
Civilian people 5 to 15 years	16	0	13	29	0.73%				
Disabilities for Noninstutionalized									
Civilian people 16 to 64 years	678	141	552	1371	34.54%				
Disabilities for Noninstutionalized									
Civilian people 65 years and Over	227	84	364	675	17.01%				



Census Tract 309 - Boyd County, Kentucky									
Population	Block Group 1	Block Group 2	Block Group 3	Block Group 4	Populations Totals	Percentage of Population			
Age 65 and Over Total	323	307	177	121	928	16.08%			
Disabilities for Noninstutionalized									
Civilian people 5 to 15 years	9	0	26	45	80	1.39%			
Disabilities for Noninstutionalized									
Civilian people 16 to 64 years	629	400	722	480	2231	38.65%			
Disabilities for Noninstutionalized									
Civilian people 65 years and Over	357	400	81	109	947	16.41%			

Census Tract 310 - Boyd County, Kentucky										
Population	Block Group 1	Block Group 2		Block Group 4		Block Group 6	Populations Totals	Percentage of Population		
Age 65 and Over Total	220	65	140	137	80	181	823	10.13%		
Disabilities for Noninstutionalized Civilian people 5 to 15	21	0	0	0	0	14	35	0.420/		
years D: 1:1::: C	21	U	U	0	U	14	35	0.43%		
Disabilities for Noninstutionalized Civilian people 16 to 64										
years	763	208	695	165	470	299	2600	32.01%		
Disabilities for Noninstutionalized Civilian people 65 years										
and Over	248	60	224	165	66	162	925	11.39%		

Census Tract 311 - Boyd County, Kentucky									
Population	Block Group 1	Block Group 2	Block Group 3	Block Group 4	Block Group 5	Populations Totals	Percentage of Population		
Age 65 and Over Total	274	119	162	140	123	818	10.54%		
Disabilities for Noninstutionalized Civilian people 5 to 15 years	18	14	25	0	29	86	1.11%		
Disabilities for Noninstutionalized Civilian people 16 to 64 years	678	337	272	342	512	2141	27.58%		
Disabilities for Noninstutionalized Civilian people 65 years and Over	327	56	214	163	67	827	10.65%		



### Appendix E-1

### **Determined Poverty Status By Race Populations**

Race	Census Tract 306	Census Tract 307	Census Tract 308	Census Tract 309	Census Tract 310	Census Tract 311
White Alone	355	292	1,086	769	746	802
Black / African American Alone	67	0	7	0	0	14
American Indian/ Alaska Native Alone	4	0	0	0	7	0
Asian Alone	0	5	0	0	0	0
Native Hawaiian / Pacific Islander Alone	0	0	0	0	0	0
Hispanic or Latino Alone	8	0	17	0	17	24
Some Other race Alone	0	0	0	0	0	0
Two or More Races Alone	40	0	64	21	87	14
Total Population Below the Poverty Level	4,162	3,426	3,953	5,772	6,681	7,723
Population Below the Poverty Level	410	296	1,164	790	840	839
Percentage Below the Poverty Level	9.90%	8.70%	29.40%	13.70%	12.60%	10.90%



# Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies

Updated: February 1, 2002

The demographics of the affected area should be defined using U.S. Census data (Census tracts and block groups) and the percentages for minorities, low-income, elderly, or disabled populations should be compared to those for the following:

- Other nearby Census tracts and block groups,
- The county as a whole,
- The entire state, and
- The United States.

Information from PVA offices, social service agencies, local health organizations, local public agencies, and community action agencies can be used to supplement the Census data. Specifically, we are interested in obtaining the following information:

- Identification of community leaders or other contacts who may be able to represent these population groups and through which coordination efforts can be made.
- Comparison of the Census tracts and block groups encompassing the project area to other nearby Census tracts and block groups, county, state, and United States percentages.
- Locations of specific or identified minority, low-income, elderly, or disabled population groups within or near the project area. This may require some field reviews and/or discussions with knowledgeable persons to identify locations of public housing, minority communities, ethnic communities, etc., to verify Census data or identify changes that may have occurred since the last Census. Examples would be changes due to new residential developments in the area or increases in Asian and/or Hispanic populations.
- Concentrations or communities that share a common religious, cultural, ethnic, or other background, e.g., Amish communities.
- Communities or neighborhoods that exhibit a high degree of community cohesion or interaction and the ability to mobilize community actions at the start of community involvement.
- Concentrations of common employment, religious centers, and/or educational institutions with members within walking distance of facilities.
- Potential effects, both positive and negative, of the project on the affected groups as compared to the non-target groups. This may include, but are not limited to:
  - 1. Access to services, employment or transportation.
  - 2. Displacement of persons, businesses, farms, or non-profit organizations.
  - 3. Disruption of community cohesion or vitality.
  - 4. Effects to human health and/or safety.
- Possible methods to minimize or avoid impacts on the target population groups.

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If percentages of these populations are elevated within the project area, it should be brought to the attention of the Division of Planning immediately so that coordination with affected populations may be conducted to determine the affected population's concerns and comments on the project. Also, with this effort, representatives of minority, elderly, low-income, or disabled populations should be identified so that, together, we can build a partnership for the region that may be incorporated into other projects. Also, we hope to build a Commonwealth-wide database of contacts. We are available to participate in any meetings with these affected populations or with their community leaders or representatives.

In identifying communities, agencies may consider as a community either a group of individuals living in geographic proximity to one another, or a geographically dispersed/transient set of individuals (such as migrant workers or Native Americans), where either type of group experiences common conditions of environmental exposure or effect. The selection of the appropriate unit of analysis may be a governing body's jurisdiction, a neighborhood, census tract, or other similar unit that is to be chosen so as not to artificially dilute or inflate the affected population. A target population also exists if there is (1) more than one minority or other group present and (2) the percentages, as calculated by aggregating all minority persons, exceed that of the general population or other appropriate unit of geographic analysis.

Maps should be included that show the Census tracts and block groups included in the analysis as well as the relation of the project area to those Census tracts and block groups.