



FEMA

ITEM 1-1138.00: KY 1241 BRIDGE IN GRAVES COUNTY

District 1
Project Development Team



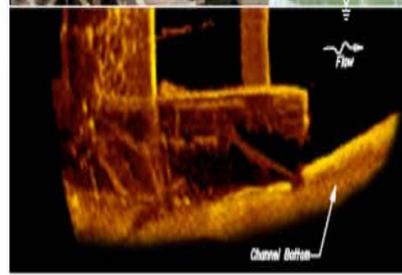
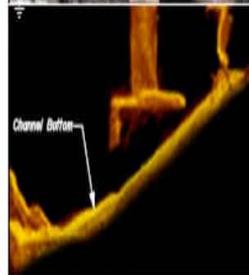
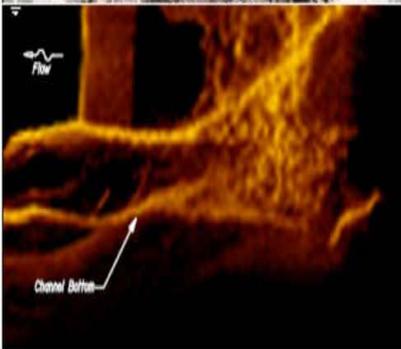
KY 1241 Bridge; Item 1-1138.00

Scour & remaining debris from the 2009 Ice Storm intensified by sustained flooding caused the KY 1241 bridge in Graves County to washout and fail on June 26, 2011.

Due to a FEMA disaster declaration on May 4, 2011, federal disaster funds were made available

On June 28, 2011, KYTC accepted the task to replace the structure. This included demolition, roadway & structure design with state forces





DOWNSTREAM NOSE

EAST FACE

WEST FACE

Pre – Washout



Post – Washout



ACCELERATED DESIGN

This project was a great example of District & Central Office personnel focusing on a common goal to complete the removal, environmental clearance, roadway & structure design in very short order to reconnect a community to a vital artery.

- Demolition – District Personnel with Master Agreements
- Environmental Clearance – District Environmental Coordinator & Division of Environmental Analysis
- Structure Design – Division of Structural Design
- Roadway Design – District One Design Section



Demolition & Construction



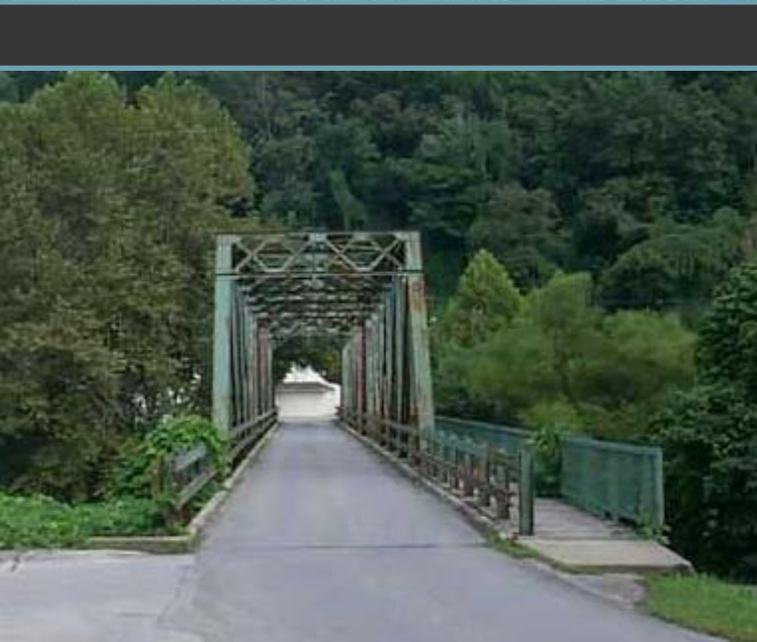


THE WOODLAND PARK BRIDGE

District 10
Project Development Team



Pre – Construction



SHPO Requirements



DANGER
WIRE LEAK
WEIGHT IS ON



**SHPO Inclusion with
Community Integrity**







12-4096 VEST BRIDGE



KENTUCKY
TRANSPORTATION
CABINET

PARTIAL BRIDGE COLLAPSE ON JANUARY 30, 2011



Project Development Steps

FEBRUARY

Preliminary
Estimates

Begin Survey
Work

Coordinate with
DEA

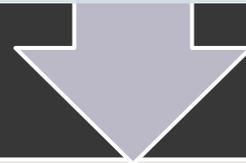


March

No Effect Letter
from DEA

Design Funds
Approved-FD39

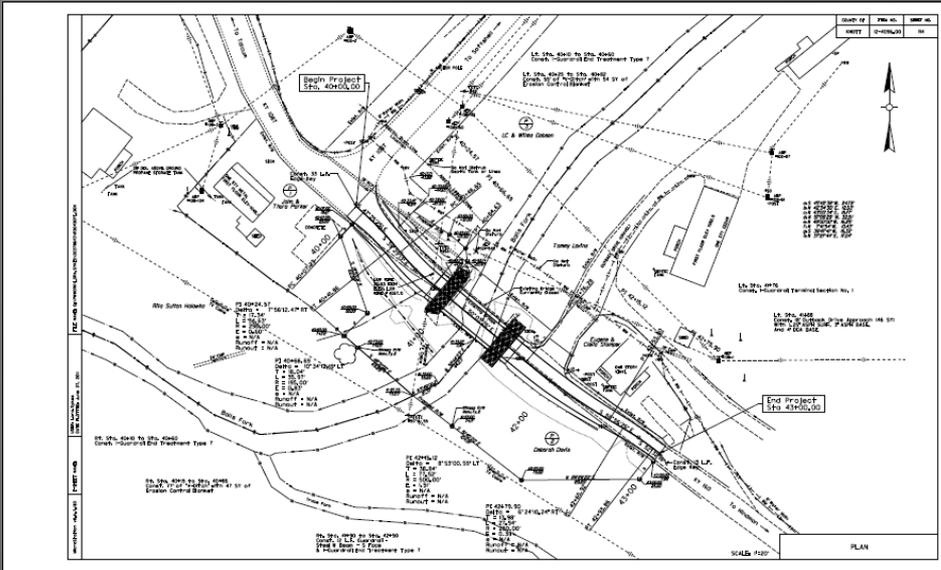
Field Survey
Completed



April

Project Team Meeting

Decisions: 2-Lane Bridge, No
On-Site Diversion



PROJECT AUTHORIZATION									
Project Id								Project Number	
Federal Project No.				District		County		6 Yr Item Number	
960 0160 015-016				HWY ADD		KNOTT		12-04096	
12									
TYPE OF PROJECT		ROUTE NUMBER			FACILITY NAME			SYSTEMS	
080 - BRIDGE REPLACEMENT		KY-100			OGDEN VEST ROAD			SYSTEMS	
PROJECT LENGTH		SCOPE OF PROJECT							
		REPLACE BRIDGE ON KY 100 AT KY 1087 OVER BALLS FORK AT VEST (060800066N)							
NUMBER OF BRIDGES		PROGRAM PRIORITY		RS ITEM NUMBER		6 YR PLAN ITEM PARENT NUMBER			
1						09-00088 10-2010			
PROJECT PHASE AND RESPONSIBILITY		PLANNING		DESIGN		RIGHT OF WAY		UTILITIES	
		CONSTRUCTION		TITLE DEEDED TO:		MAINTENANCE		OTHER	
FUNDING & TIME ACCOUNTABILITY		PARTICIPATING AGENCIES							
		FEDERAL		STATE		DOH		LOCAL	
								OTHER	
REQUESTED FUNDS FOR THIS AUTHORIZATION									
ITEM NUMBER SUFFIX	PHASE	FUND	PROGRAM	FISCAL YEAR		FEDL APPR CODE	ENACTED 6YR PLAN AMOUNT	% DIFFERENCE VS 6YR AMT	CURRENT FUNDING REQUEST
				FEDERAL	STATE				
12-04096	D	11	FD39		2011				140,000
Current Estimate Approved by:		MWH		Date		2/28/2011		Current Funding Request Total	
								140,000	
AUTHORIZATION SUMMARY FOR THIS 10-1 SERIES									
PHASE	INITIAL PROJECT ESTIMATE	CURRENT PROJECT ESTIMATE	TOTAL AUTHORIZATION TO DATE (INCL. CURRENT REQUEST)						
Design	\$ 140,000	\$ 140,000	\$ 140,000						
Construction	\$ 0	\$ 0	\$ 0						
Total	\$ 140,000	\$ 140,000	\$ 140,000						
REMARKS: THIS AUTHORIZATION PROVIDES \$140,000 OF FD39 FUNDS FOR THE DESIGN PHASE OF THE PROJECT. WORK WILL BE CONDUCTED BY STATE FORCES SAC									
Project Approval Recommended By:						Signed and Approved by:			
MWH						MWH			
3/2/2011						3/15/2011			

April (Utilities)

On-Site Utility meeting

Decision to use Design
Funds for Utility Process

Requested Utility
Funding



April (Right of Way)

Provided Project
Estimate

Requested R/W
Funding

Began meetings with
Property Owners



April (Structures)

Requested Drilling

Decided to use In-house
Drilling Forces

Drilling Completed

May

R/W, Utilities, and
Construction Funding
Approved

Geotech Report
Completed

Check Plans Submitted,
Reviewed, and
Returned

June

R/W Revision (same
day turnaround)

R/W Cleared

Nationwide Permit
Approved

June (continued)

Structure Plans
Complete

Roadway Plans
Complete

Utilities Clear

MEMORANDUM

TO: Mark Hite, P.E., L.S.
 Director
 Division of Structural Design

FROM: Bart Asher, P.E., L.S.
 TEBM, Geotechnical Branch

BY: Daryl J. Greer, P.E.
 Geotechnical Branch *DJG*

DATE: May 26, 2011

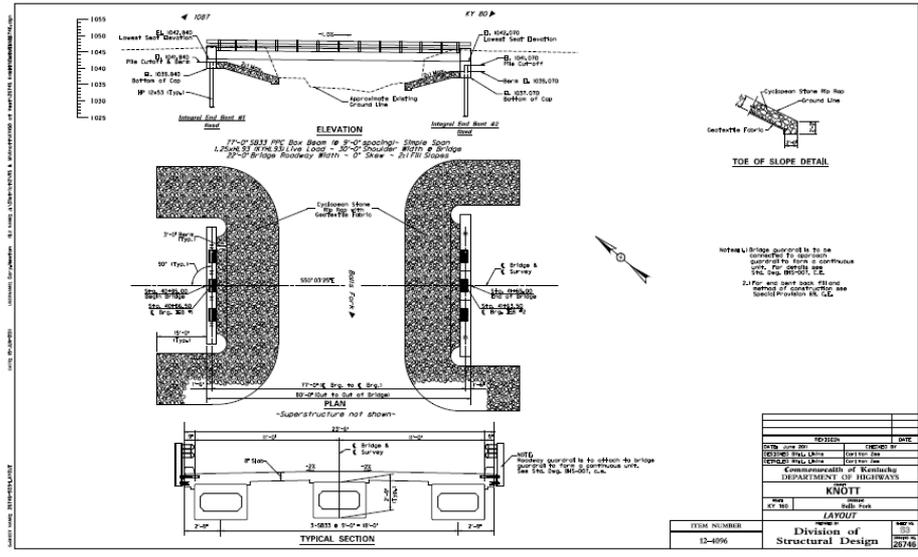
SUBJECT: Knott County
 FD39 060 0160 015-016
 MARS No. 8502701D
 KY 160 over Balls Fork at Vest
 80' Single-Span Bridge at Sta. 41+25
 Geotechnical Engineering Structure Foundation Report

cc: K. Sandefur
 W. McKinney
 R. Powell
 M. Westfall-
 Holbrook (D-12)
 C. James (D-12)
 S. Hale (D-12)
 V. Forsythe
 C. Allen
 R. Matar
 B. Greene

1.0 Location and Description

The geotechnical investigation for this structure has been completed. The .DGN file for the Subsurface Data Sheet has been made available on Projectwise and through email for use in development of structure plans.

The project is located 4.4 miles north of Hindman on KY 160 at Vest, Kentucky. The bridge



NOTICE

DEPARTMENT OF THE ARMY
 CORPS OF ENGINEERS

NATIONWIDE PERMIT AUTHORIZATION

PROJECT: Knott County (KY-160) Item No. 12-4096.00
 Replace Bridge over Balls Fork at Vest

The Section 404 activities for this project have been previously permitted under the authority of the Department of the Army Nationwide Permit No. 14 "Linear Transportation Projects". In order for this authorization to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Permit in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

To more readily expedite construction, the contractor may elect to alter the design or perform the work in a manner different from what was originally proposed and specified. Prior to commencing such alternative work, the contractor shall obtain written permission from the Division of Construction and the Corps of Engineers. A copy of any request to the Corps of Engineers to alter this proposal and subsequent responses shall be forwarded to the Division of Environmental Analysis, DA Permit Coordinator, for office records and for informational purposes.

PROJECT AUTHORIZATION									
It is hereby ordered that the project herein described be undertaken and accomplished within the funding level authorized								AUTHORIZATION NO: 850271	
Project Id	Project Id Number	Federal Project No.	District	County	ADD		KNOTT	\$ Yr Item Number	
	000 0160 015-016		12					12-04096	
TYPE OF PROJECT		ROUTE NUMBER		FACILITY NAME		SYSTEMS			
330 - BRIDGE REPLACEMENT		KY-160		EGGON VEST ROAD					
PROJECT LENGTH		SCOPE OF PROJECT		REPLACE BRIDGE ON KY 160 AT KY 1087 OVER BALLS FORK AT VEST (060800069)					
NUMBER OF BRIDGES		PROGRAM PRIORITY		RS ITEM NUMBER		6 YR PLAN ITEM PARENT NUMBER			
						99-2009-10-2010			
PROJECT PHASE AND RESPONSIBILITY		PLANNING		DESIGN		RIGHT OF WAY		UTILITIES	
		CONSTRUCTION		TITLE DEEDED TO:		MAINTENANCE		OTHER	
FUNDING & TIME ACCOUNTABILITY		PARTICIPATING AGENCIES		FEDERAL		STATE		DOH LOCAL OTHER	
REQUESTED FUNDS FOR THIS AUTHORIZATION									
ITEM NUMBER SUFFIX	PHASE	FUND	PROGRAM	FISCAL YEAR		FED. APPR. CODE	EMACTED 6YR PLAN AMOUNT	% DIFFERENCE VS 6YR AMT	CURRENT FUNDING REQUEST
12-04096	C	11	FD39	2011					395,000
12-04096	R	11	FD39	2011					57,000
12-04096	U	11	FD39	2011					24,000
Current Estimate Approved by:	DR	Date		4/27/2011		Current Funding Request Total		476,000	
AUTHORIZATION SUMMARY FOR THIS 10-1 SERIES									
PHASE		INITIAL PROJECT ESTIMATE		CURRENT PROJECT ESTIMATE		TOTAL AUTHORIZATION TO DATE (INCL. CURRENT REQUEST)			
Design		\$ 140,000		\$ 140,000		\$ 140,000			
Right-of-way		\$ 57,000		\$ 57,000		\$ 57,000			
Utilities		\$ 24,000		\$ 24,000		\$ 24,000			
Construction		\$ 395,000		\$ 395,000		\$ 395,000			
Total		\$ 616,000		\$ 616,000		\$ 616,000			
REMARKS: THIS AUTHORIZATION PROVIDES \$57,000 OF F039 FUNDS FOR THE RW PHASE, \$24,000 OF F039 FUNDS FOR THE UTILITY PHASE, AND \$395,000 OF F039 FUNDS FOR THE CONSTRUCTION PHASE OF THE PROJECT. SAC									
Project Approval Recommended By: N/A/N						Signed and Approved by: MWH			
4/28/2011						5/9/2011			

<u>Item No.</u>				<u>Project Mar.</u>
	12 - 4096			
		<u>County</u>	KNOTT	<u>Route</u> KY-160
<u>CAP #</u>	<u>Date of Promise</u>	<u>Promise made to:</u>	<u>Location of Promise</u>	
1	14-JUN-11	D12 Right of Way	All disturbed areas	
<u>CAP Description</u>				
ALL DISTURBED AREAS SHALL BE LEFT RE-SEEDED, CLEAN, SAFE AND SANITARY IN THE SAME OR BETTER CONDITION AS BEFORE THE PROJECT.				
2	14-JUN-11	L.C. & Wilma Dobson	Parcel 3	
<u>CAP Description</u>				
THE PROPERTY OWNERS REQUESTED THE GUARDRAIL TO BE PULLED BACK TO ALLOW CONTINUED ACCESS TO THE SEPTIC SYSTEM AND GARDEN AREA FROM KY 1087. THE PLANS WERE CHANGED AS PER THE PROPERTY OWNERS' REQUEST.				
3	14-JUN-11	L.C. & Wilma Dobson	Parcel 3	
<u>CAP Description</u>				
THE CONTRACTOR WILL BE RESPONSIBLE SHOULD THE SEPTIC SYSTEM OR LEACH AREA BE DAMAGED IN ANYWAY.				

CAP REPORT

NOTICE TO
CONTRACTORS
JULY 1, 2011

LETTING DAY
JULY 15, 2011

eProposal Jan-2009



CALL NO. 334
CONTRACT ID. 111034
KNOTT COUNTY
FED/STATE PROJECT NUMBER FD39 060 0160 015-016
DESCRIPTION OGDEN VEST ROAD (KY 160)
WORK TYPE BRIDGE WITH GRADE, DRAIN & SURFACE
PRIMARY COMPLETION DATE 11/30/2011

LETTING DATE: July 15, 2011
Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 15, 2011. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

ROAD AND BRIDGE PLANS

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.



Project Complete
November 3, 2011

CHALYBEATE BY- PASS KY101

District 3 Bowling Green
Edmonson County
Item No. 3-117.00



Existing two-lane KY 101 with no shoulders





BEFORE



AFTER



Birds Eye View of Project





BEFORE



AFTER



Chalybeate By-Pass





District 3 Bowling Green
Logan County
Item No. 3-148.00

**KY 100 CONNECTOR
1ST SECTION OF
RUSSELLVILLE
SOUTHERN BY-PASS**

US 68/80 Intersection with Northern Russellville By-Pass Before New Roadway Construction



[oblem](#) Image Date: May 2008

NEW INTERSECTION



INTERSECTION with US68/80 and Northern Russellville By-Pass

BEFORE

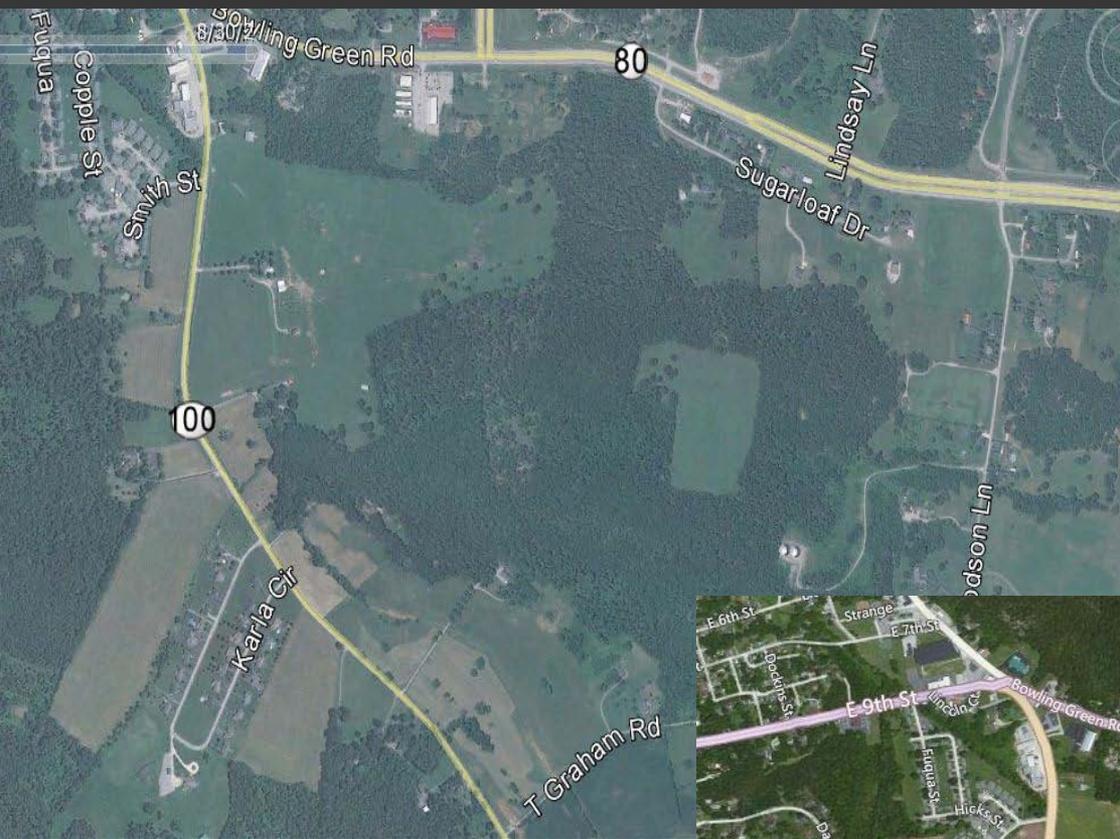


AFTER



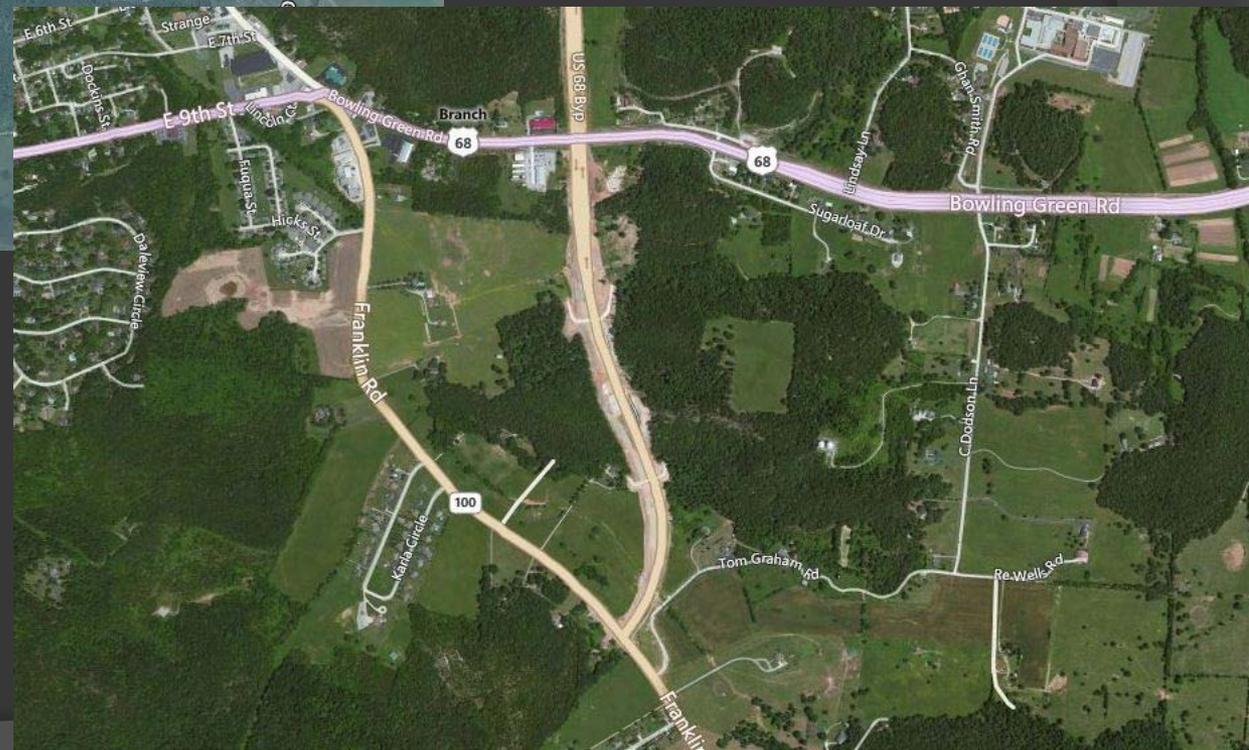
Positive Off-Set Left Turn Lane



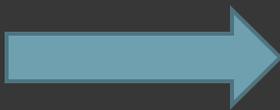


Aerial View of Project

BEFORE



AFTER



The Kentucky Speedway Project

An aerial photograph of the Kentucky Speedway project. The image shows a large, multi-lane asphalt race track curving through a landscape. To the left, there are grandstands with a blue and tan checkered pattern. In the foreground, a white building with a circular driveway and a parking lot is visible. The surrounding area includes a mix of green grass, brown dirt, and paved roads. The sky is clear, and the overall scene depicts a large-scale construction or development project.

**Eric Hackworth, EIT
KYTC District 6 Design**

April 18, 2012

Just Prior to the Green Flag



Problem Identification

I-71 Normal Day



KY 35 Pedestrian Issues



I-71 Race Day



Project Obstacles/Opportunities:

Accelerated Schedule

- **Conceptual Design: August 15 – 28**
 - Archived Plans in METRIC
 - Strategic Surveying
 - Rendering in Microstation
- **Final Design: September 9 – October 31**
 - Plan Changes/Updates
- **Mandatory Pre-Bid: November 9**
 - Advertised: October 31
- **Project Documents Advertised: November 7**
 - Letting Date: November 18

Conceptual Design



Project Obstacles/Opportunities

Stakeholder Involvement

- **Kentucky Speedway**
 - Coordination
- **Utilities**
 - Avoidance
 - Cooperation
- **Right of Way**
 - Use Existing
 - Consent Release
- **Central Office**
 - Accelerated Review/Processing



February 21 Project Aerial





ITEM 7-344.00

US 460

SCOTT COUNTY

District 7
Project Development Team



Project Overview



Improved Super elevation



Dry Stone Wall Construction



Improved Sight Distance



Roadway Elevated Above Flooding





ITEM 8-909.00
KY 80/KY 461
INTERSECTION
PULASKI COUNTY

District 8
Project Development Team



Before Improvements



Offset Left Turning Lanes



Merge Lane of KY 461 to KY 80



08/17/2012

Overview Looking West on KY 80



08/17/2012



Reconfigured Intersection



**And the winner of the
2012
Project Excellence
Awards Is
???**

**District 6
for
The Kentucky
Speedway Project
Congratulations!**