Paducah City Commission Workshop February 19, 2013

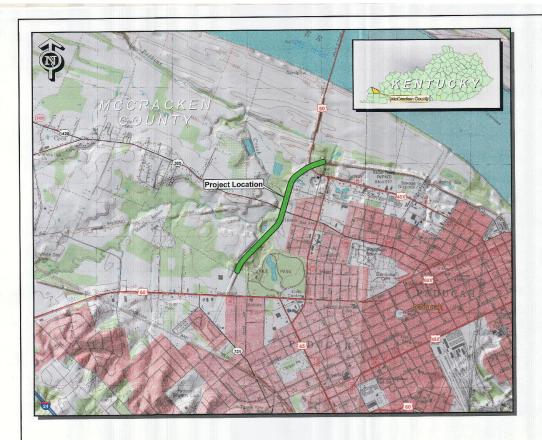
Greenway Trail Phase II Crossing at North 8th Street (a.k.a. US 45X) Intersecting the City's Levee

Greenway Trail Phase II Project History:

 February 2008 – MO #1365 Authorized the Grant Application

. October 2008 – KYTC Awarded a FHWA \$500,000 Transportation Enhancement Grant to the City of Paducah

 January 2010 Ordinance #2010-1-7648 Authorized the Execution of the \$500,000 Grant Agreement with KYTC with a \$200,000 Approved Local Match



GREENWAY TRAIL PHASE II For The CITY OF PADUCAH

KYTC ITEM NO. P02-628-0800021821 FEDERAL PROJECT NO. STPE 3000 (751) 20.205 (CFDA)



PADUCAH CITY OFFICIALS:

Richard Abraham

Gayle Kaler

Carol Gault Sandra Wilson Allan Rhodes

Jeff Pederson

Rick Murphy, P.E.

Mark Thompson

City Commissioner City Commissioner City Commissioner City Commissioner

City Manager

Mayor

City Engineer & Public Works Director

Paducah Parks Services Director

RECEIVED NOV 1 2 2012 ENGINEERING DEPARTMENT



100% FOR PERMITS REVIEW











Design Standards & Applicable Regulations

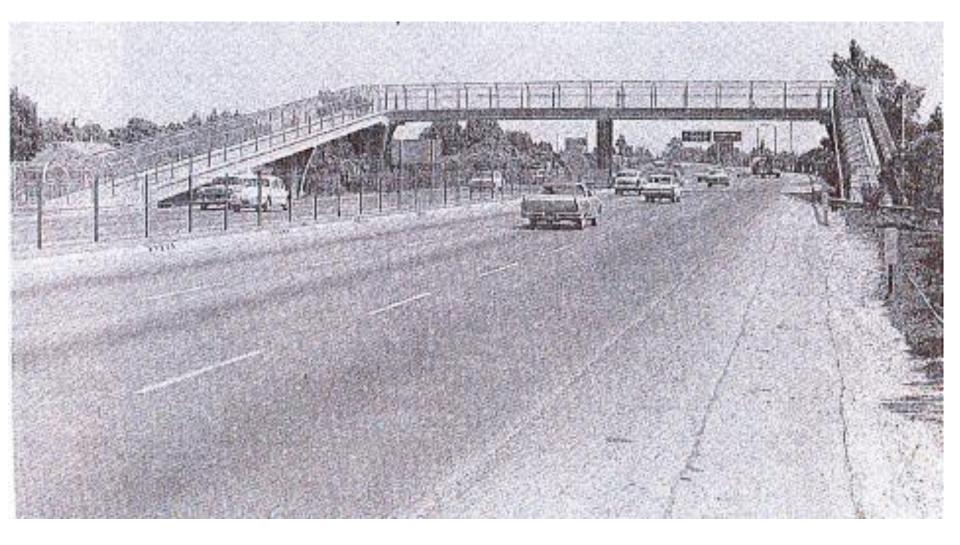
<u>More often than not, the source of funding will</u> <u>determine the extent of the "Applicable Regulations".</u>

- FHWA: Federal Highway Administration regulations
- Americans with Disabilities Act (ADA) of 1990

- USACE: United States Army Corps of Engineers regulations
- AASHTO: American Association of State Highway and Transportation Officials, A Policy on Geometric Design of Highways and Streets, current edition.
- MUTCD: Manual on Uniform Traffic Control Devices, current edition.
- Commonwealth of Kentucky Transportation Cabinet Design Manual

Design Alternatives:

- Alternative A: Pedestrian Overpass
- Alternative B: At Grade Crossing
- Alternative C: Pedestrian Underpass
- Alternative D: No Build

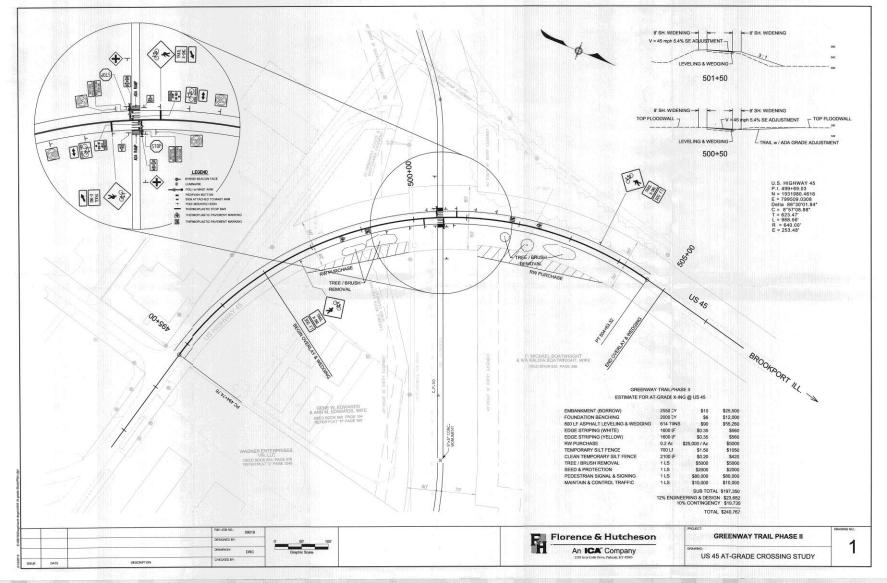


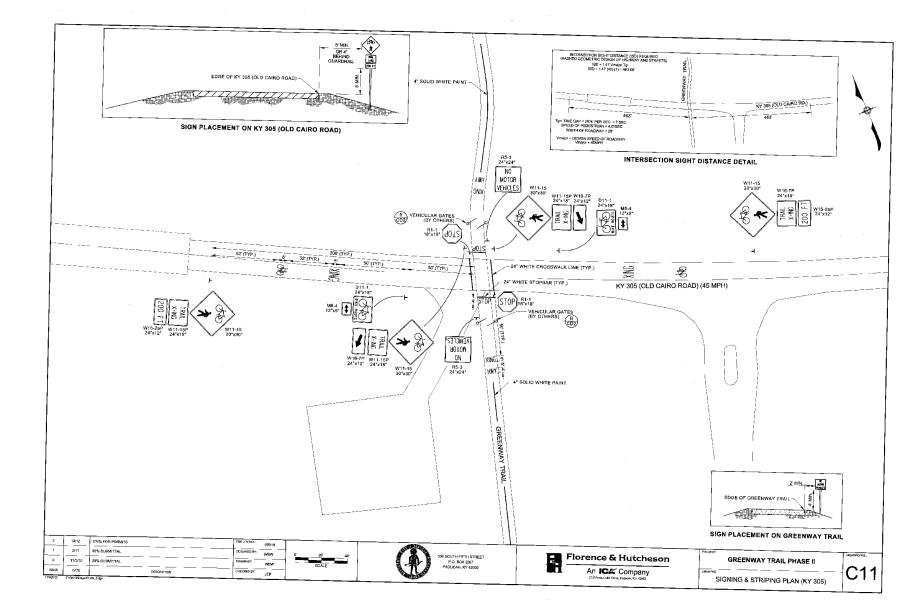
Alternate A: Pedestrian Overpass Structure \$700,000 (estimate)

Alternate B: At Grade Crossing

- Reduce existing cross slope (banking) of road from 10% to ADA acceptable percentage (5%).
- Changing cross slope impacts 800 linear feet of existing pavement, shoulder, and fill slope.
- Modification of this nature may require US45 to be upgraded to current highway standards.
- Right-of-way acquisition would be needed.
- AASHTO requires minimum site distance.
- Given restricted site distance based on current geometry, a pedestrian signal would be required for this location.
- KY Transportation Cabinet, Department of Highways, Office of Highway District 1 has provided the City an adamant verbal response that a pedestrian signal would NOT be permitted.
- Average Daily Traffic (ADT) is 4359 vehicles (2011 traffic count).

Alternate B: US45 At Grade Crossing, \$239,000 (estimate)



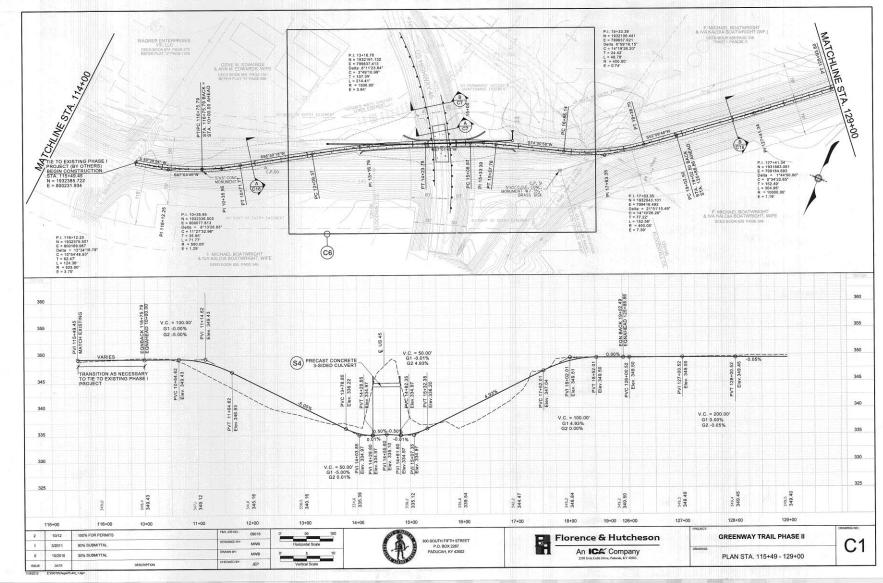


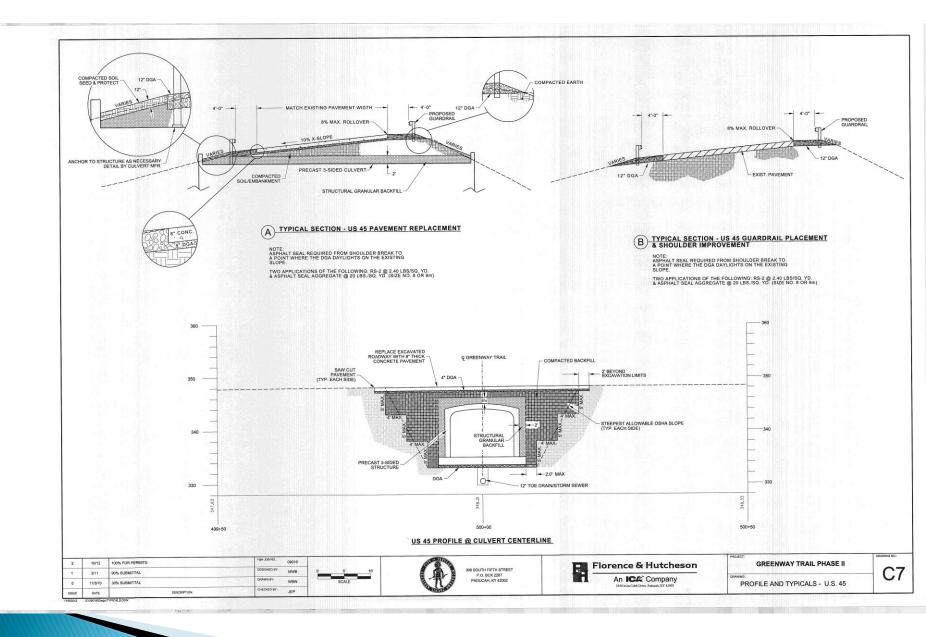
Cairo Road At Grade Crossing

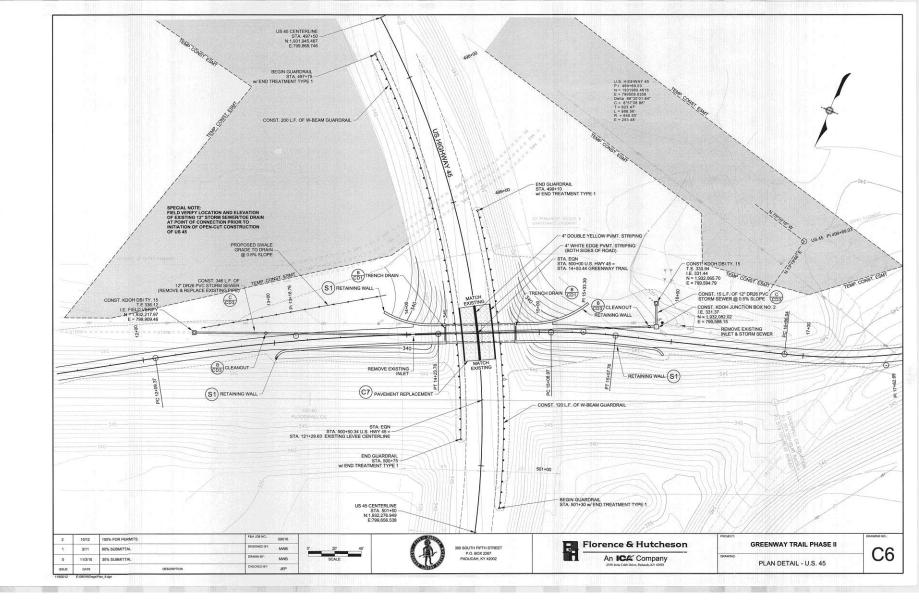
Cairo Road At Grade Crossing

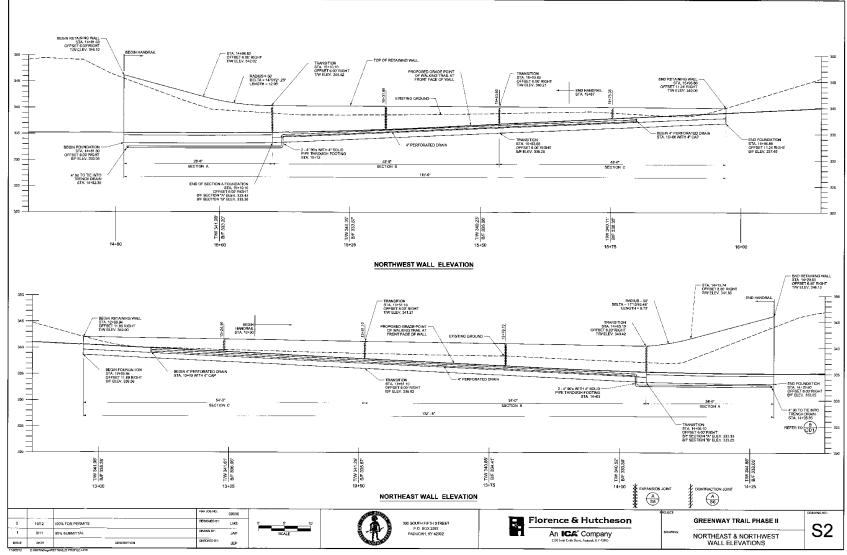
- An underpass is not a viable option due to current topography including the existing utilities and the inability to drain the structure.
- No existing cross slope issues. Road geometry does not need to be changed.
- No right-of-way acquisition necessary.
- AASHTO minimum site distances ARE satisfied which means a pedestrian signal is not required.
- Given the current geometry at Cairo Road, applicable regulatory and warning signs are more conducive to an at grade crossing.
- Average Daily Traffic (ADT) is 4086 vehicles (2010 traffic count).

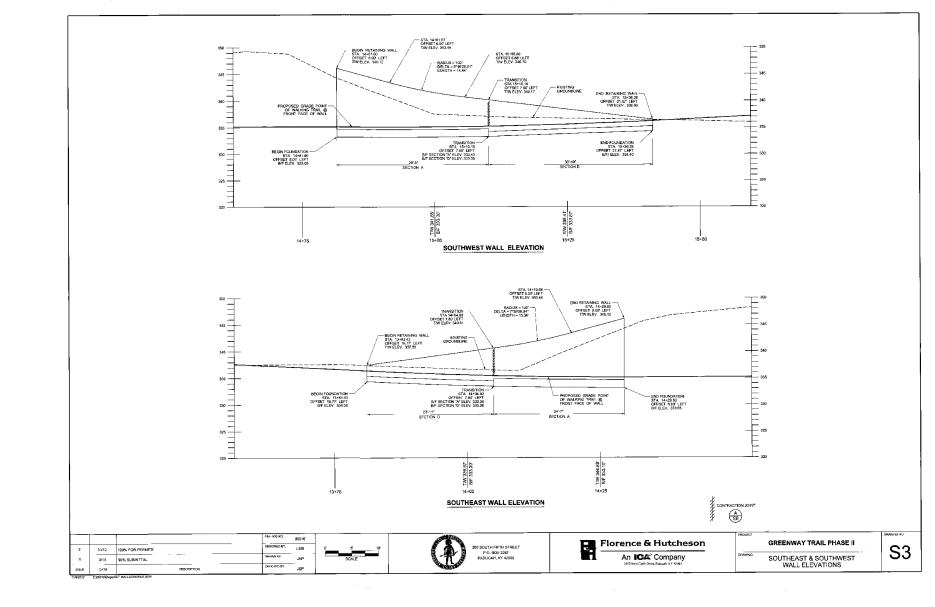
Alternate C: Pedestrian Underpass, \$436,000 (estimate)

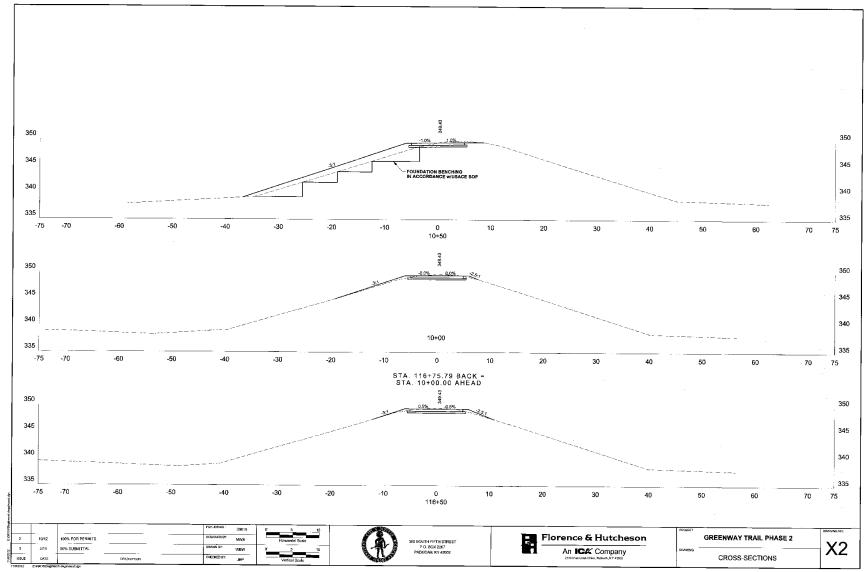


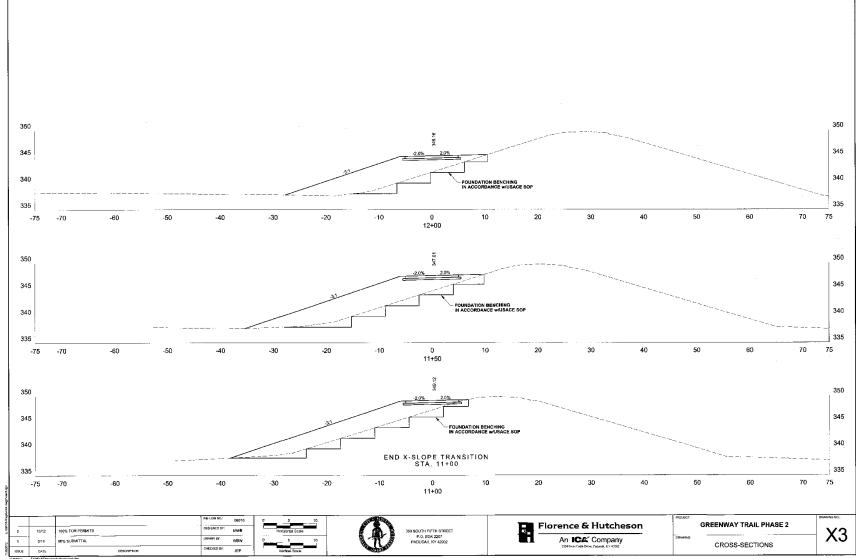


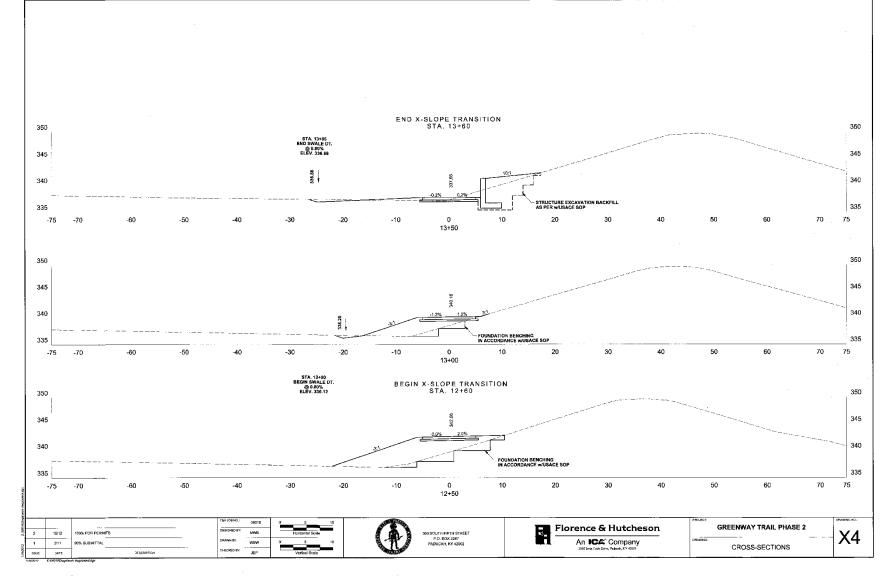


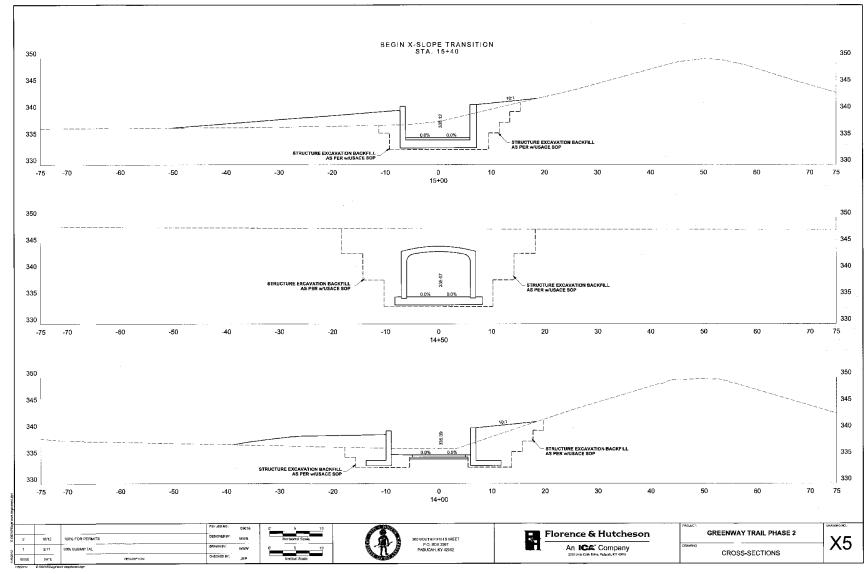




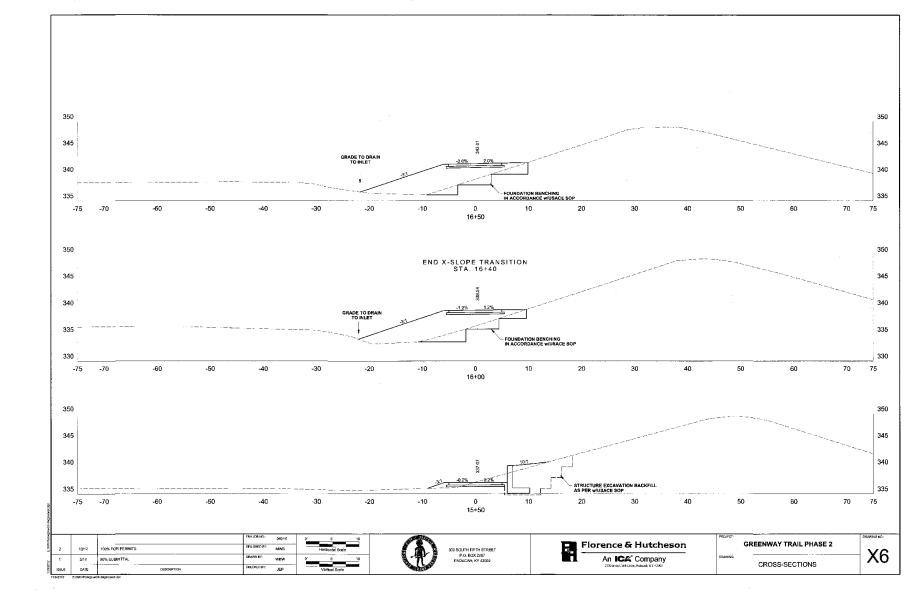


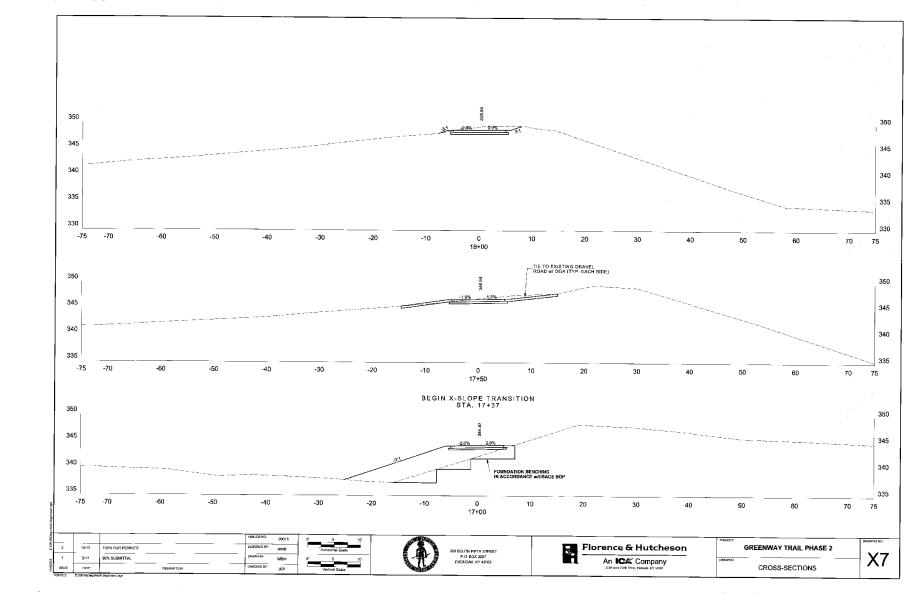


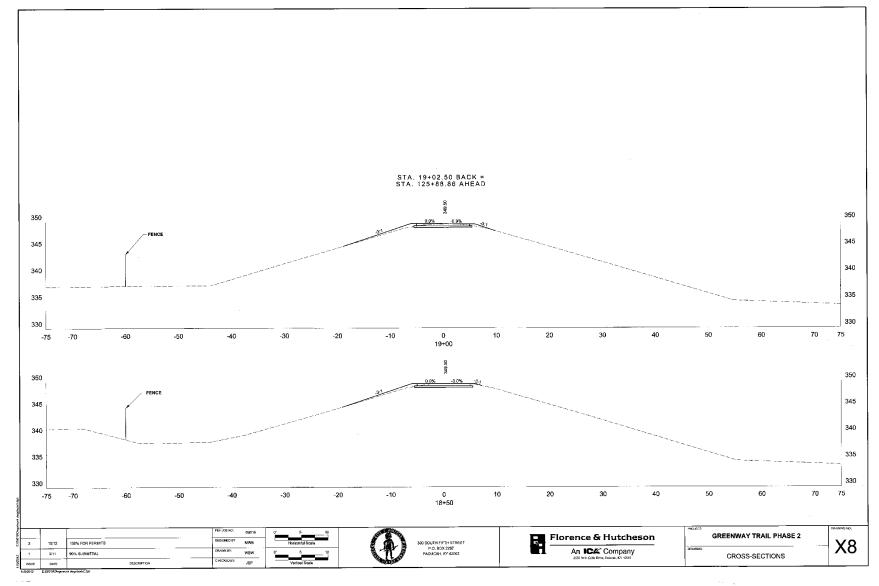




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GREENWAY TRAIL PHASE II - EXPENSE OPTIONS			
TOTAL PRO	DJECT COST		
2008 KY - FHWA Transportation Enhancement Grant			
\$500,000 Grant with \$200,000 Approved Local Match	l		
MO #1365 - Grant Application			
Ordinance #2010-1-7648 - Agreement with KYTC			
	UNDERPASS	AT GRADE	DIFFERENCE
SOURCES:			
FHWA Grant	\$500,000	\$500,000	
Local Match - Boyles Earnings (Estimate)	\$100,000	\$100,000	
Carryover from Phase I	\$147,000	\$147,000	
Local Funds (Bonding \$'s For Design and R/W Acq.)	<u>\$200,000</u>	<u>\$200,000</u>	
TOTAL SOURCES	\$947,000	\$947,000	\$
EXPENSES: Design & Property Acquisition	\$183,761	\$205,761	
Construction Estimate	\$970,000	\$203,781	
	<u> </u>	<u> </u>	
TOTAL EXPENSES	\$1,153,761	\$956,761	\$197,000
DIFFERENCE	(\$206,761)	(\$9,761)	(\$197,000

Commission Decision Needed

- City of Paducah total trail investment, excluding grant funding, (all existing trails) is greater than \$750,000 to date.
- Design decision needs to be made to keep \$500,000 TE grant as it will expire March 26, 2013. An extension request is necessary.
- Current design (Alternate C-pedestrian underpass) is ready for State consideration and approval.
- Other design considerations will delay the project indefinitely which may jeopardize grant funding.
- EPW Department needs your decision in order to proceed.