

Best Practices for Electronic File Sharing Kentucky Utility and Rail Tracking System (KURTS)

SEPTEMBER 14, 2018

ALLEN RUST, PE

RAIL COORDINATOR

KENTUCKY TRANSPORTATION CABINET

TROY CREASY

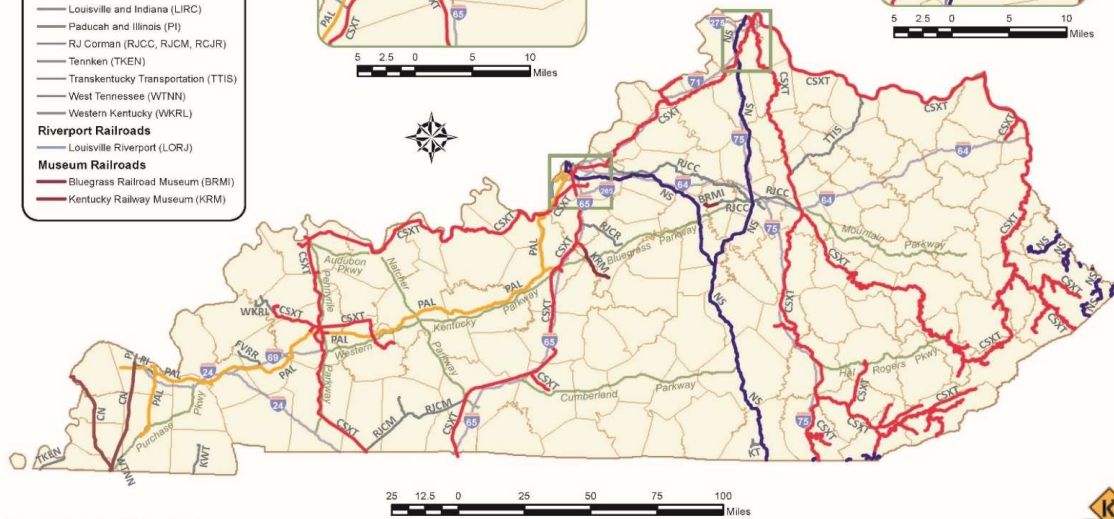
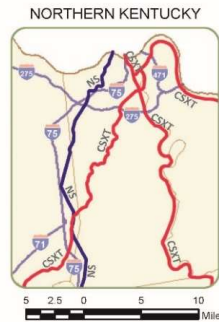
PROJECT MANAGER-PUBLIC PROJECTS

CSX TRANSPORTATION, INC.

Railroads in Kentucky

Active Rail Lines of Kentucky

- Class I Railroads**
 - CSX Transportation (CSXT)
 - Canadian National (CN)
 - Norfolk Southern (NS)
- Class II Railroads**
 - Paducah and Louisville (PAL)
- Class III Railroads**
 - Fredonia Valley (FVRR)
 - Kentucky West Tennessee (KWT)
 - Kentucky and Tennessee (KT)
 - Louisville and Indiana (LIRC)
 - Paducah and Illinois (PI)
 - RJ Corman (RJCC, RJCM, RCJR)
 - Tenken (TKEN)
 - Transkentucky Transportation (TTIS)
 - West Tennessee (WTNN)
 - Western Kentucky (WKRL)
- Riverport Railroads**
 - Louisville Riverport (LORJ)
- Museum Railroads**
 - Bluegrass Railroad Museum (BRM)
 - Kentucky Railway Museum (KRM)



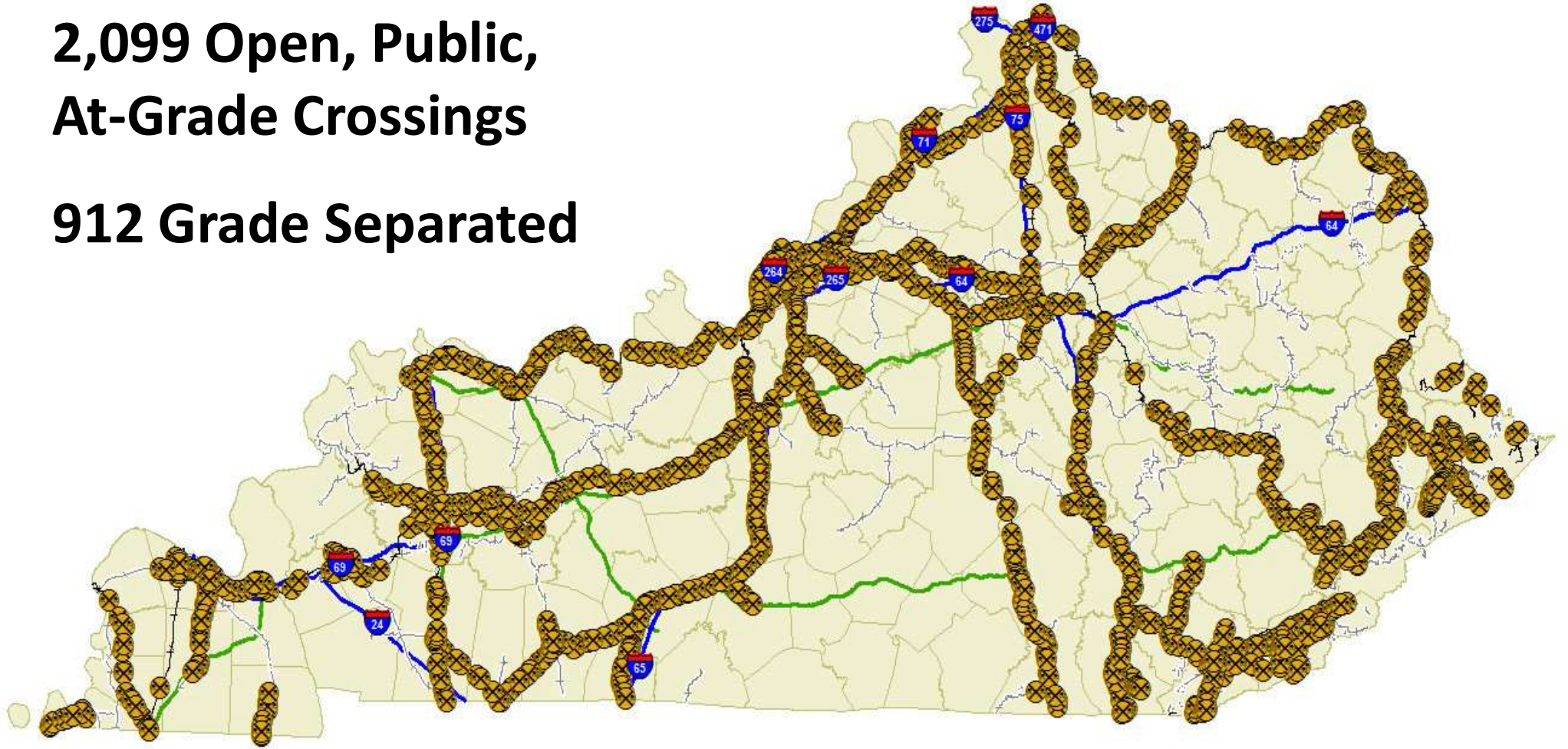
Railroad system last updated June 2013



Railroad	Miles of Track in KY
CSX	1,685
Norfolk Southern	429
Paducah and Louisville	280
RJ Corman	197
Illinois Central (CN)	98
TTI	50
Others	452

Total: 3,191 miles

**2,099 Open, Public,
At-Grade Crossings**
912 Grade Separated



Rail Crossing Inventory

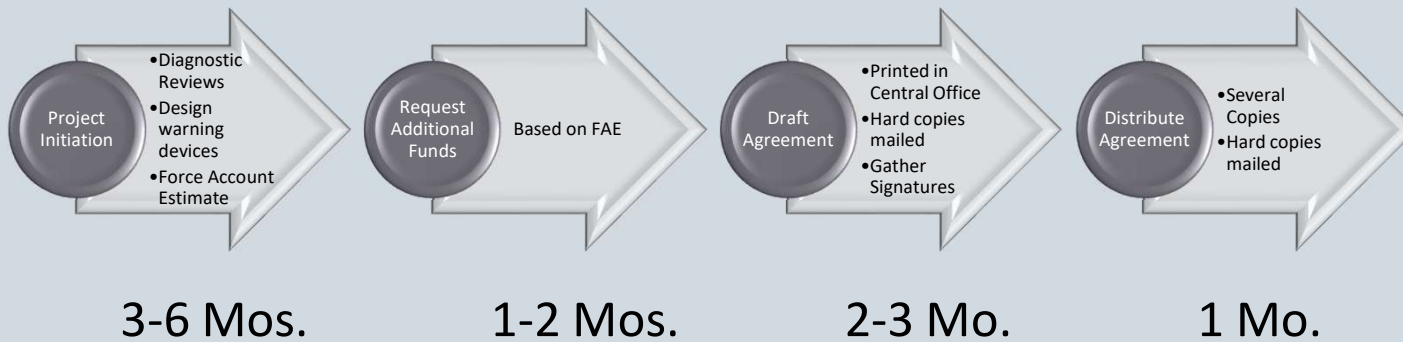
- Rail Crossing Inventory (RCI)
 - Every open, public, at-grade crossing in state
 - Inventory every 3 years
 - Hazard Ranking Index
 - Full GIS implementation

The screenshot displays the Railroad Crossing Inventory (RCI) web application interface. At the top, there is a navigation bar with a 'K' logo and the text 'Railroad Crossing Inventory (RCI) Division of Rights of Way & Utilities'. Below the navigation bar, the DOT number '3468295' is displayed. The main content area is titled 'View Crossing' and shows 'Step 1 of 4'. The 'Railroad Information' section includes fields for Company (RJ Corman Railroad Group / Central Kentucky Line), Division (APPALACHIAN), District (OLD ROAD), Branch (EK-PL), Mile Post Prefix (OOW), Mile Post (97.14), and Time Table Station (No Data). The 'Part 1: Location & Classification Information' section includes County (Fayette), City (LEXINGTON), Route (US 25 0), Mile Point (14.945), Street (NEWTOWN PK), and various checkboxes for 'In City Limits?', 'ENS Sign', 'Number Plate', 'Quiet Zone', 'High-Speed Rail Corridor', 'Adjacent Crossing', 'Private', and 'Public'. The 'Crossing Type' is Public, 'Crossing Position' is At Road Grade Level, and 'Crossing Status' is Open. The 'Passenger Services' section shows 'none (Specify): No Data' and 'Avg. Passenger Train Count per Day: 0'. The 'Emergency Contact' section shows 'Emergency Contact: 8002320144', 'Rail Contact: 8594266924', and 'State Contact: 5025643210'. The 'Crossing Narrative' section contains the text 'NEWTOWN FIRE IN LEXINGTON-'. At the bottom, there are 'Next' and 'Home' buttons.

Construction Agreements in the past...



Sect. 130 Agreements in the past...



7-14 Mos.

Invoices in the past...



30+ Days

Kentucky Utility and Rail Tracking System (KURTS)

SHRP2

R15B

Identifying and Managing
Utility Conflicts

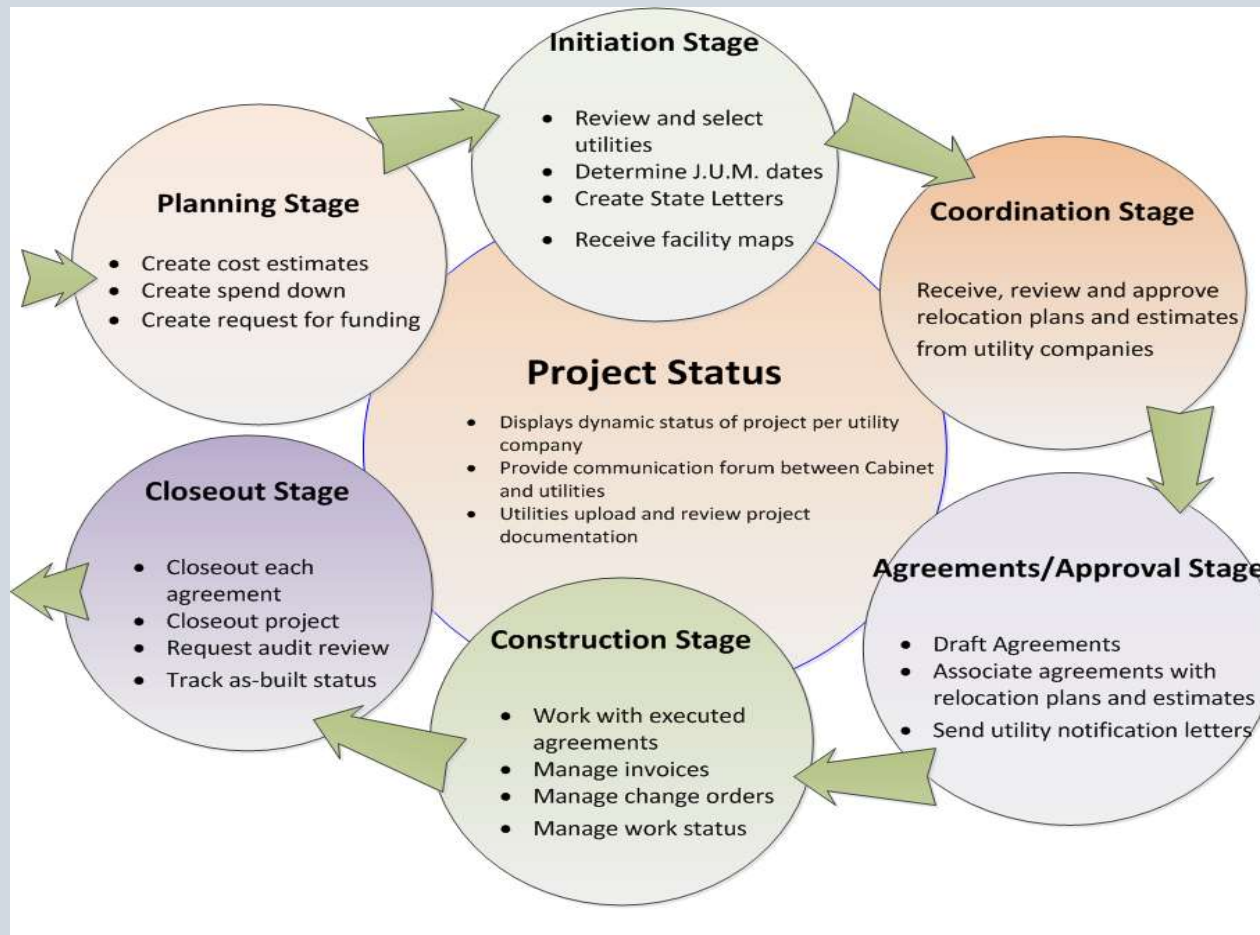
R16

Railroad-DOT Mitigation
Strategies

KURTS Primary Functions

- Project organization
- Document Management
 - Generation
 - Sharing
 - Record retainage
- Invoice Management
 - Generation
 - Approval
 - Tracking
- Contact directory

KURTS Structure





Kentucky Utilities and Rail Tracking System (KURTS)

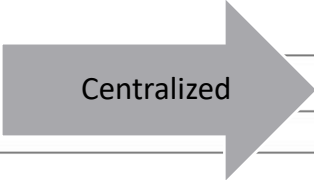
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[Initiate Utility Project](#)

288 records



116 records

72 records

12 records

50 records

97 records

35 records



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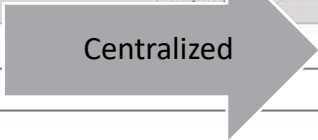
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[Initiate Utility Project](#)

KURTS PROJECTS

	Project Id	County	Stage	Letting Date
View	1-1055	McCracken	Planning	09/25/2015
View	1-1056	Graves	Planning	10/23/2015
View	1-1059	Livingston	Coordination	10/23/2015
View	1-1061	Calloway	Planning	06/11/2014
View	1-1062	Hickman	Planning	
View	1-1115.7	McCracken	Planning	04/25/2014
View	1-1132	Calloway	Planning	07/31/2015
View	1-1133	Trigg	Initiation	04/24/2015
View	1-1134	Graves	Initiation	10/24/2014
View	1-1135	McCracken	Planning	
View	1-1136	Calloway	Planning	

288 records



UPCOMING SYP PROJECTS

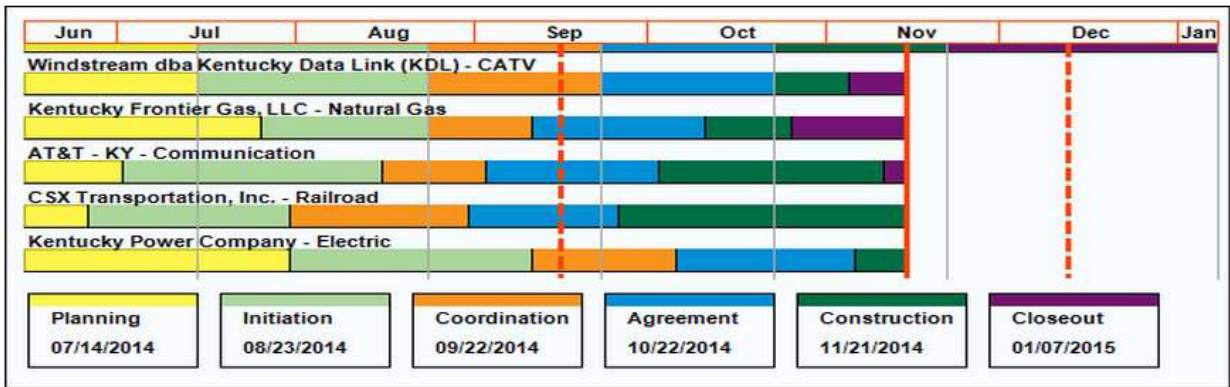
116 records

FUNDING ACTIVITIES

	ProjectID	No.	Requested Amt	SubmittedBy	Submission Date	Dist. Util Supervisor	Proj. Dev Branch Manager
View	9-1075	1	\$110,000.00	lisa.grimes@ky.gov	04/02/2014	Resubmitted	Resubmitted
View	9-1072	1	\$100,000.00	lisa.grimes@ky.gov	04/02/2014	Resubmitted	Resubmitted
View	9-1080	1	\$265,000.00	lisa.grimes@ky.gov	04/07/2014	Resubmitted	Resubmitted
View	9-1086	1	\$50,000.00	lisa.grimes@ky.gov	04/07/2014	Resubmitted	Resubmitted
View	9-1081	1	\$130,000.00	lisa.grimes@ky.gov	04/10/2014	Resubmitted	Resubmitted
View	9-1082	1	\$110,000.00	lisa.grimes@ky.gov	04/11/2014	Resubmitted	Resubmitted

Project Status | Planning | Initiation | Coordination | Agreements/Approvals | Construction | Closeout

Project ID: [12-939](#) **Description:** PERFORM LOW COST SAFETY IMPROVEMENTS ON KY 979 FROM KY 122 AT HI HAT (MP 0.000) TO 0.5 MILE NORTH OF PARSONS BRANCH ROAD (MP 15.430). (2012BOP)
Route Info: KY 979 **BMP:** 0 **EMP:** 15.43 **Type Of Work:** SAFETY-HAZARD ELIM(P)
County: FLOYD **Letting Date:** 12/12/2014 **Pre. L/G Date:** 12/1/2013 **Authorization#:** 87804 **RR:** N



Planning:
 Initiation:
 Coordination:
 Agreement/Permits:
 Construction:
 Closeout:
 [Update](#)

[Manage Documents](#)

Project Status:

Planning	Initiation	Coordination	Agreement/Permits
Completed	Completed	Completed	Completed

Executed Agreements

No agreements have been executed for this project.

VALUE

- Project Status
- Individual Company Status
- Established Schedule



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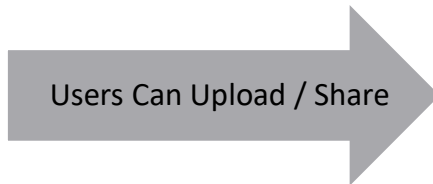
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Project ID: [04-8304](#) **Description:** RECONSTRUCT KY-49 FROM LEBANON TO THE CANEY CREEK BRIDGE. (06CCN)(12CCR)
Route Info: KY 49 **BMP:** 13 **EMP:** 15.50 **Type Of Work:** RECONSTRUCTION(O)
County: MARION **Letting Date:** 9/3/2014 **Pre. L/G Date:** 12/15/2011 **Authorization#:** 79987 **RR:** N

Manage Project Documents

	Utility	Document	Description	FileType	Last Updated By	Last Updated
View	Lebanon Water Works Co.	Relocation Estimates		PDF	thomas.capshaw@ky.gov	10/27/2014
View	Marion County Water District	Engineering Services Estimate		pdf	tim.wilson@ky.gov	07/24/2014
View	Lebanon Water Works Co.	Engineering Services Estimate	Cost Estimate	pdf	tim.wilson@ky.gov	10/20/2014
View	Marion County Water District	Relocation Plans	Plans	pdf	tim.wilson@ky.gov	08/25/2014
View	Lebanon Water Works Co.	Relocation Estimates	Cost Estimate	pdf	tim.wilson@ky.gov	10/20/2014
View	Marion County Water District	Relocation Estimates	Cost Estimate	pdf	tim.wilson@ky.gov	08/25/2014
View	Lebanon Water Works Co.	Relocation Plans	Plans	pdf	tim.wilson@ky.gov	10/20/2014



[Upload Document](#)

[Return](#)

VALUE

Retains documentation

Shares documentation



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Project Status | **Planning** | **Initiation** | **Coordination** | **Agreements/Approvals** | **Construction** | **Closeout**

Project ID: [05-1055](#) **Description:** REPLACE BRIDGE ON KY-3192 (MP 0.058) OVER ELK CREEK; .1 MI WEST OF JCT KY-1633; (STRUCTURALLY DEFICIENT, SR=49.3) 108B00013N
Route Info: KY 3192 **BMP:** 0.0080 **EMP:** 0.1080 **Type Of Work:** BRIDGE REPLACEMENT(P)
County: SPENCER **Letting Date:** **Pre. L/G Date:** 7/5/2012 **Authorization#:** 86574 **RR:** N

COST ESTIMATE

Estimate#: 4

Project Phase: Preliminary Line Inspector

Alternate(0-99): 1

Estimate Purpose: Request funds

Plans Used: Preliminary Inspector

* Accurately describe project termini upon which this estimate is based: Begin at MP 0.00 and ending at MP 0.145

(Used 39 of 2000 characters max.)

* Does it agree with the Pre-Con Report? YES NO

Funding Type: FHWA State Local: Other:

Costs

Facility Type/Utility

CATV -Insight Communications
 Communication -AT&T - KY
 Electric -LG&E KU
 Water -City of Taylorsville Sewer & Water
 - All Utilities -

Utility Name	Item Name	Quantity	Unit	Unit Cost	Participation(%)	
			Select		100	Add

FUTURE

Capture line items

Capture unit prices

Present history to users

quantity	Unit	UnitCost	KYTC %	Participation	Total	
115.00	LF	11.50	100.00		1322.50	Delete
2.00	EA	1500.00	100.00		3000.00	Delete
250.00	LF	25.00	100.00		6250.00	Delete
1.00	EA	1000.00	100.00		1000.00	Delete
210.00	LF	10.00	100.00		2100.00	Delete

Sub-Total for : 13672.50

Total: 13672.50

Total X Contingencies and Misc: 25 (%) = 3418.12

Total X Engineering: 15 (%) = 2050.88

Total X State Forces: 5 (%) = 683.62

Right of Way (\$) = 0.00

[Get/Update Grand Total](#)

Running Grand Total: 19825.12



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Project Status Planning **Initiation** Coordination Agreements/Approvals Construction Closeout

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	State #	Status	Date	Amount	Select
View TC-10	FD04 78 79987 3C	Approved	9/8/2014	\$7219676	<input type="radio"/>
View TC-10	FD04 78 79987 0D	Approved	9/14/2006	\$1500000	<input type="radio"/>
View TC-10	FD04 78 79987 2U	Approved	12/2/2013	\$2400000	<input type="radio"/>
View TC-10	FD04 78 79987 1U	Approved	7/31/2012	\$2400000	<input type="radio"/>

<input type="checkbox"/>	Utility Name	Facility Name	Contact Name	Remove
	Lebanon Water Works Co.	Water	John Thomas	<input type="checkbox"/>
	Marion County Water District	Water	Jimmy Mudd	<input type="checkbox"/>

[Add Utility](#)

[Remove](#)

Please Select Letter Type ▼

[Create Documents](#)

VALUE

Project funding visible

Individual Company
Contacts

Retains documentation



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Project Status | **Planning** | **Initiation** | **Coordination** | **Agreements/Approvals** | **Construction** | **Closeout**

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County: MARION **Letting Date:** 9/3/2014 **Pre. L/G Date:** 12/15/2011 **Authorization#:** 79987 **RR:** N

	Document	Description	Date Submitted	Status	Date Reviewed	Last Updated By
Utility:Lebanon Water Works Co.						
Review	Engineering Services Estimate	Cost Estimate	10/20/2014	Approved	10/27/2014	tim.wilson@ky.gov
Review	Relocation Estimates	Cost Estimate	10/20/2014	Rejected	10/27/2014	tim.wilson@ky.gov
Review	Relocation Plans	Plans	10/20/2014	Approved	10/27/2014	tim.wilson@ky.gov
Review	Relocation Estimates		10/27/2014	Approved	10/27/2014	tim.wilson@ky.gov
Utility:Marion County Water District						
Review	Engineering Services Estimate		7/24/2014	Approved	7/24/2014	tim.wilson@ky.gov
Review	Relocation Estimates	Cost Estimate	8/25/2014	Approved	8/25/2014	tim.wilson@ky.gov
Review	Relocation Plans	Plans	8/25/2014	Approved	8/25/2014	tim.wilson@ky.gov

[Conflict Matrix](#)



Retains / Shares Data

Includes approvals



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Project Status Planning Initiation Coordination **Agreements/Approvals** Construction Closeout

Project ID: [04-8304](#) **Description:** RECONSTRUCT KY-49 FROM LEBANON TO THE CANEY CREEK BRIDGE. (06CCN)(12CCR)
Route Info: KY 49 **BMP:** 13 **EMP:** 15.50 **Type Of Work:** RECONSTRUCTION(O)
County: MARION **Letting Date:** 9/3/2014 **Pre. L/G Date:** 12/15/2011 **Authorization#:** 79987 **RR:** N

Right of Way Clearance: 08/01/14

Utility Clearance: 08/15/14

[Agreement Home](#) [Draft Agreement](#) [Upload Agreement](#) [Create Notification](#) [Upload Notification](#)

Utility	Document Type	Agreement #	Amount	Status
<input type="checkbox"/> Marion County Water District View	KRS 177 Engineering Service Agreement	1300005533	\$94,473.76	Executed
	Date Uploaded: 7/24/2014 N/A Relocation Plan View Relocation Estimate Notifications			
<input type="checkbox"/> Lebanon Water Works Co.	KRS 177 Engineering Service Agreement	1400001138	\$34,552.32	Executed
	77 Engineering Service Agreement	N/A	N/A	Rejected
	77 Keep Cost Agreement	1400003431	\$421,032.00	Executed
	77 Keep Cost Agreement	1400003094	\$122,606.00	Executed

VALUE

Easily draft document

Includes approvals

Retains documentation



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Project Status Planning Initiation Coordination **Agreements/Approvals** Construction Closeout

Project ID: 12-1115.00	Description: ADDRESS DEFICIENCIES OF BRIDGE ON FISHTRAP RD (KY 1441) OVER RACCOON CREEK AT INTERSECTION WITH COON CREEK (CR 1371) 098800093N						
Authorization#: 87507							
RR: N	Type Of Work: AM-BRIDGE (P)						
Letting Date: 12/7/2018	Pre. L/G Date: 12/7/2018	Utility Clearance: 11/30/2018	Right of Way Clearance: 9/30/2018				
District	County	Prefix	Route	Suffix	Section ID	BMP	EMP
12 - Pikeville	Pike	KY	1441			10.279	10.319

Agreement Home **Draft Agreement** Upload Agreement Create Notification Upload Notification

* Required

* **Utility**

CSX Transportation, Inc. Railroad ▾

* **Document Type**

Railroad 130 Agreement ▾

* **Total Amount**

250000

* **Percent of Cost Borne by Cabinet**

90 %

* **Percent of Cost Borne by Company**

10 %

[Generate From Template](#)



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Project Status Planning Initiation Coordination **Agreements/Approvals** Construction Closeout

Project ID: 02-8506.00	Description: WIDEN US-62 FROM WAL-MART TO US-431. (08CCN){10CCR}{12CCR}{14CCR}{INCLUDES 2-8301}						
Authorization#: 83604							
RR DOT#:	Program Year:						
RR: Y	Type Of Work: MAJOR WIDENING(O)						
Letting Date: 2/22/2019	Pre. L/G Date: 2/22/2019	Utility Clearance: 7/1/2019			Right of Way Clearance: 1/15/2019		
District	County	Prefix	Route	Suffix	Section ID	BMP	EMP
2 - Madisonville	Muhlenberg	US	62			16.471	17.930

[Agreement Home](#) [Draft Agreement](#) **[Upload Agreement](#)** [Create Notification](#) [Upload Notification](#)

* Required

* **Utility**

CSX Transportation, Inc. Railroad

* **Document Type**

Railroad 130 Agreement

* **Select Associated Plan:**

Utility	Description
<input checked="" type="checkbox"/> View CSX Transportation, Inc. Railroad	PE Plans

* **Select Associated Estimate:**

Utility	Description
<input checked="" type="checkbox"/> View CSX Transportation, Inc. Railroad	PE Estimate

Document Description:

CSX Agreement

* [Choose File](#) Agreement_2-8506.pdf

Supporting file types: PDFs, docx (File Size Limit: 1GB)

[Upload Document](#)



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Project Status | **Planning** | **Initiation** | **Coordination** | **Agreements/Approvals** | **Construction** | **Closeout**

Project ID: [04-8304](#) **Description:** RECONSTRUCT KY-49 FROM LEBANON TO THE CANEY CREEK BRIDGE. (06CCN)(12CCR)
Route Info: KY 49 **BMP:** 13 **EMP:** 15.50 **Type Of Work:** RECONSTRUCTION(O)
County: MARION **Letting Date:** 9/3/2014 **Pre. L/G Date:** 12/15/2011 **Authorization#:** 79987 **RR:** N

Utility Name	Document Type	Document Number	Amount	WorkStatus
Marion County Water District	KRS 177 Keep Cost Agreement	1400003431	\$421,032.00	

Original Agreement Amount: \$421,032.00
 Changed Agreement Amount: \$460,377.00
 Total Paid Invoices: \$398,929.65
 Remaining Amount: \$61,447.35

Change Orders

	CO	NetIncrease	NetDecrease	Status	Date Rec'd	Date Exec'd
View	Edit	1	\$39,345.00	\$0.00	Executed	11/5/2014 5/29/2014

Choose File **No file chosen**

CO#: Amount: [Upload Change Order](#)

Invoices

	Supp. Info	Date Rec'd	Status	Type	PRC#/INV#	Check/EFT#	Amount	Date Exec'd
Review	Edit	View						
		9/3/2014	Paid	Partial	1500042356	000000019245561	\$27,621.93	9/12/2014
		10/14/2014	Paid	Partial	1500070742	000000019368033	\$66,696.65	10/30/2014

Inspections

[Add Inspection](#)

	Lebanon Water Works Co.	KRS 177 Engineering Service Agreement	1400001138	\$34,552.32	
	Marion County Water District	KRS 177 Engineering Service Agreement	1300005533	\$94,473.76	

VALUE

- Track Invoices / Mods
- Includes approvals
- Log inspections

Manage Documents

Project Status:

Planning	Initiation	Coordination	Agreement/Permits	Construction	Closeout
Active	Active	Active	Active	Active	Active

PROJECT NOTES

Update Notes

Executed Agreements

Select an executed agreement and choose one of the options below.

	Utility Name	Document Type	Doc#	As-Built Uploaded
Select	CSX Transportation, Inc. - Railroad	Railroad Delivery Order	1800007136	No
Select	Kentucky Power Company - Electric	KRS 179 Lump Sum Agreement	1800005415	No
Select	Mountain Water District - Water	KRS 177 Keep Cost Agreement	1700003538	No
Select	Mountain Water District - Water	KRS 177 Keep Cost Agreement	1700003536	No

- [View](#)
- [Change Order](#)
- [Invoice](#)
- [Delivery Order](#)
- [Upload As-Built](#)

VALUE

- Create Invoices/Mods
- Reduces confusion
- Saves time





Contact Directory

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CSX Transportation, Inc.

Active [Search]

Contact Information	Facilities	Service Area
<p>Bellamy, Tony - Other Director Project Management-Public Projects Tony_Bellamy@csx.com (904) 359 7601</p> <p>Edit Delete</p>	Railroad	
<p>Bolen, Wayne - Construction Project Manager, Rails Division WBolen@benesch.com (859) 250 5483</p> <p>Edit Delete</p>	Railroad	
<p>Creasy, Troy - Primary Project Manager - Public Projects Troy_Creasy@CSX.com (804) 226 7718</p> <p>Edit Delete</p>	Railroad	
<p>Shaw, Larry - Engineering Project Manager - Rail Division LShaw@benesch.com (317) 610 3241</p> <p>Edit Delete</p>	Railroad	

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AT&T - KY

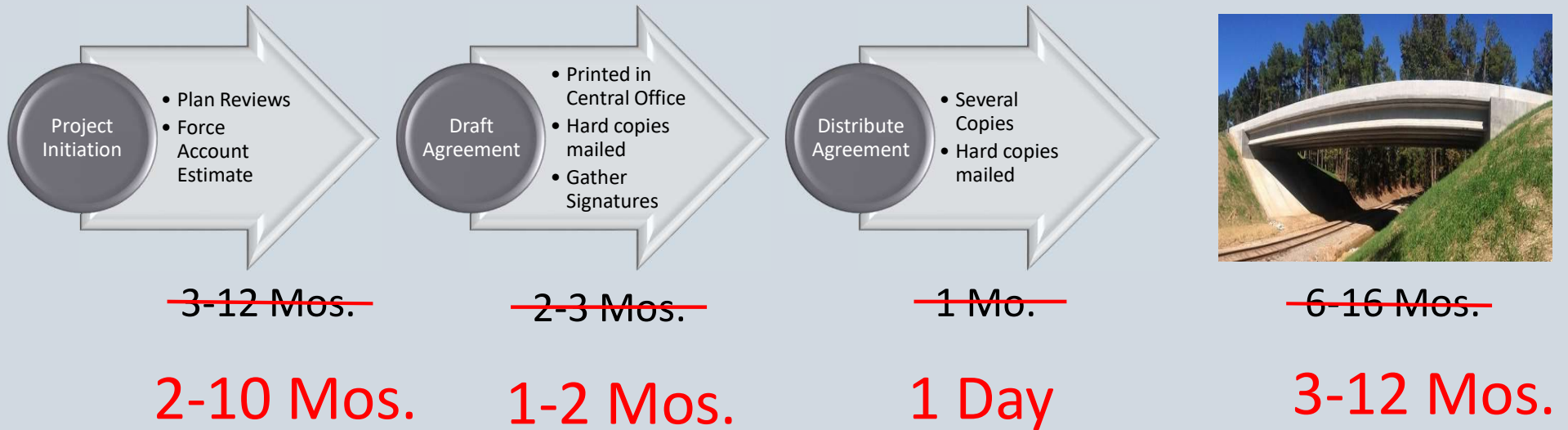
Active [Search]

Contact Information	Facilities	Service Area
<p>Ambrose, Frank - Primary Highway Relocation Specialist fa2207@att.com (502) 867 8240</p> <p>Edit Delete</p>	Communication Telephone	
<p>Roche, Scott - Primary Manager - Network Engineering sr6832@att.com (502) 348 4528</p> <p>Edit Delete</p>	Telephone Communication	
<p>Salzer, Jack - Primary PE js2299@att.com (606) 424 9328</p> <p>Edit Delete</p>	Telephone Communication	

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Construction Agreement Efficiency Realized



Save 3-4 Mos.

As little as 2 Months

Sect. 130 Agreement Efficiency Realized



~~3-6 Mos.~~

2-6 Mos.

~~1-2 Mos.~~

1-2 Mos.

~~2-3 Mo.~~

1-2 Mos.

~~1 Mo.~~

1 Day

~~7-14 Mos.~~

4-10 Mos.

Save 3-4
Mos.



Invoice Efficiency Realized



~~30+ Days~~

1 Week

Save 3 Weeks

RR/DOT Relationship Benefits

- Time savings
 - Time = Money
- Less stress
- Transparency
- Ability to track payments

SHRP2 R15B Case Study



Managing Utilities in Kentucky SHRP2 CASE STUDY



Managing Utility Conflicts in Kentucky through the SHRP2 Solution: Identifying and Managing Utility Conflicts (R15B)



Challenges in addressing utility conflicts

Utility relocations are a significant investment for departments of transportation (DOTs) and utility companies. This investment in Kentucky can easily total in the tens of millions annually, so minimizing the cost holds intrinsic value to the DOT. As a result, the Kentucky Transportation Cabinet (KYTC) is working to streamline and create standard procedures for its designers and utility experts, while minimizing utility conflicts.

Although the KYTC has worked effectively with its utility companies in the past, the second Strategic Highway Research Program (SHRP2) opened the door to an opportunity to improve this coordination. By incorporating new methodologies developed through *Identifying and Managing Utility Conflicts* (see sidebar), the agency is enhancing and upgrading its current tracking database while offering training to all potential users.

Under KYTC's prior utility program, roadway projects were often designed to a significant degree before utility companies were actively involved. Consequently, utility relocations could not be completed prior to road construction. In some cases, this situation set up serious consequences, such as increasing the potential for utility strikes. These

strikes can delay the roadwork and traffic, be a safety concern, and result in a loss of utility services. The possibility of utility strikes and longer construction and design time frames can also lead to added costs.

No clear standards or policies for utility conflict identification existed to help designers communicate and mitigate utility conflicts during the design process. In addition, with 12 separate KYTC Districts, the process of identifying and managing utility locations was inconsistent.



Kentucky's implementation activities have led to the development of new, "smarter" software that may be applicable to other states.

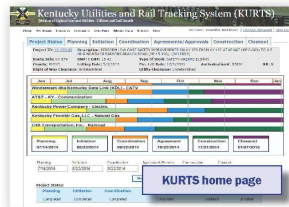
KYTC developed a new vision for executing its utility program based on initial SHRP2 research findings conducted by the Transportation Research Board (TRB). Working with its information technology (IT) staff, analysts, and central and District office utility branches, they designed

What is the SHRP2 Solution, *Identifying and Managing Utility Conflicts*?

Identifying and Managing Utility Conflicts (R15B) was developed through the second Strategic Highway Research Program (SHRP2) to help public agencies, utility companies, and transportation professionals improve the overall process of minimizing utility relocations on highway improvement projects. By using the tools and methodologies included in the product, these agencies can identify, resolve, and manage utility conflicts, which will ultimately expedite the project development process. The materials included are:

- Utility Conflict Data Model and Database (UCM)
- Utility Conflict Matrix (UCM) Training Course

Seven state departments of transportation are now implementing *Utility Conflicts* through the FHWA/AASHTO Implementation Assistance Program. This case study documents activities underway in the Kentucky Transportation Cabinet to address utility conflict management during roadway project process.



the Kentucky Utilities and Rail Tracking System or KURTS.

Deployed in March 2014, KURTS is a database that allows utility and design subject matter experts to access project information remotely and securely with an Internet connection. The system provides a streamlined interface for approval of relocation plans, agreements, and invoices, as well as the ability to view utility relocation change orders and project status changes.

The system is intuitive and requires minimal training. The database has been designed to retain historical records of all documents. With a diverse set of audiences, KURTS allows all users to interact with the utility conflict matrix (UCM) in ways that are most helpful for them and their organization.

Multiple Benefits

"If you don't identify utility conflicts on the front end of a project, the costs can be significant ... the SHRP2 Utility Conflict Matrix enables utility subject matter experts to communicate with design subject matter experts in a forum that is standardized and understandable to both."

—Jennifer McCleave, Branch Manager for Utilities and Rail, KYTC

at various degrees of completion throughout the 12 District offices have been entered into the system.

Steps to enhance KURTS using SHRP2 funding and technical assistance are underway.

Now KYTC is using the funding and technical assistance provided by the SHRP2 FHWA/AASHTO Implementation Assistance Program to improve upon the UCM already built into the first release of the system. The implementation, named KURTS Release 2, involves the expansion of the UCM to include the collection of alternative solutions for each conflict. These alternatives can include cost comparisons and schedule impacts, thereby giving KYTC decision makers a clearer perspective of the potential impacts to the road project as a whole. Release 2 will also enable the field collection of relocation inspection logs and the establishment of a database to collect historical unit prices.

As part of the statewide roll out of KURTS Release 2, Kentucky will be developing instructional materials to allow new users to learn about the system and educate themselves on its functionality and potential. The KYTC

utility companies will have read-only access to the status of invoices and change orders. Four utility companies are working with KYTC to pilot KURTS, including Columbia Gas, Duke Energy, and two small municipal water companies.

is currently updating its processes and procedures for utility coordination within the system, and making UCM and inspection data collection available through mobile applications. This will allow for real-time and spatially tied project updates in the field or in the office.

With the development of KURTS Release 2, efforts are under way to ensure that highway design and utility

As part of SHRP2 implementation, upon completion of KURTS Release 2, KYTC has offered to work with other states to share their findings in regard to the development of this utility coordination management system. UCM, and mobile device application.

staff are aware of the advantages of bringing utility coordination earlier into the project planning and design process. In July, KYTC will hold a two-day workshop with its utility and design staff to discuss how the utility conflict matrix will work in KURTS. In August, an annual conference held in Kentucky will provide an opportunity to educate other potential users about KURTS and utility conflict matrix concepts. The conference will be a platform to help educate utility subject experts, consultants, and



What's in the KURTS System?

KURTS is web-enabled, using SQL Server database written in .NET C#. Documents are stored in SharePoint (Version 2012); and can be used with mobile devices (tablets) using ArcGIS for Mobile.

Capabilities and information included:

- Project search by county, district, utility company
- Links to preliminary line and grade projects
- Links to spatially enabled data
- Program to create cost estimates, spend-down plans, funding requests
- Program to create standardized letters and agreements
- Access to invoices, change orders, and status of agreements
- Tracking capability of all documents
- Capability for utilities to upload and share documents: facility maps, relocation plans, and estimates
- Electronic approvals of documents maintained in the system

design engineers on the matrix to improve project development and utility coordination.

Lessons Learned During Implementation

Kentucky identified four specific users for their system: utility matter experts, design matter experts, project consultants, and utility companies. Each user comes into a project with a wide range of skills, knowledge, and capabilities. Developing a standardized and technologically based system in an industry with few standard protocols has been a challenge for the transportation agency. Implementing the utility conflict matrix (UCM) as part of KURTS is expected to encourage improvements to existing business processes and utility coordination. As more users engage the system and the UCM, the value will become evident and become incorporated into standard project development practices in Kentucky.

Benefits of Using a Utility Conflict Matrix

By using the tools and methodologies included in the product, these agencies can identify, resolve, and manage utility conflicts, which will ultimately expedite the project development process.

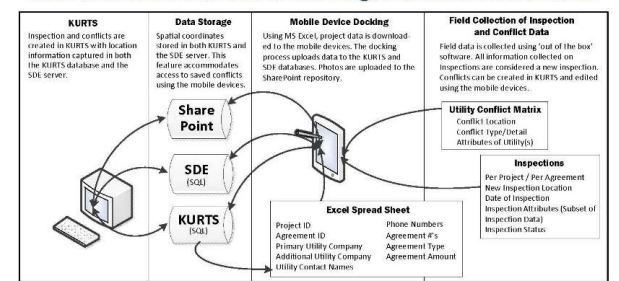
Capabilities and information included:

- ▶ Lists all utility conflicts to aid in coordination and resolution
- ▶ Provides alternative conflict resolution pathways
- ▶ Provides opportunities to avoid and minimize impacts, not simply relocation

For more information on the KURTS system or on Kentucky's Utility Program, contact Jennifer McCleave at jennifer.mccleave@ky.gov or by calling 502-782-4944.

For information on the SHRP2 implementation of *Identifying and Managing Utility Conflicts*, contact Matthew DeMarco at FHWA, Matthew.DeMarco@dot.gov or 720-963-3520, or Kelli Platte at AASHTO, at kplatte@aaahito.org or 202-624-3697.

KURTS Release 2: Mobilization of KURTS through Mobile Device Data Collection



Resources

<https://transportation.ky.gov/RightofWay/Pages/Utility-Coordination.aspx>

- Promo Video
- Basics Training Video
- Plans and Estimates Quick Start Video
- Invoicing Quick Start Video
- KURTS User Agreement



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