

# NON-TRADITIONAL UTILITY COORDINATION on KYTC Projects

KYTC Partnering Conference  
September 9, 2014

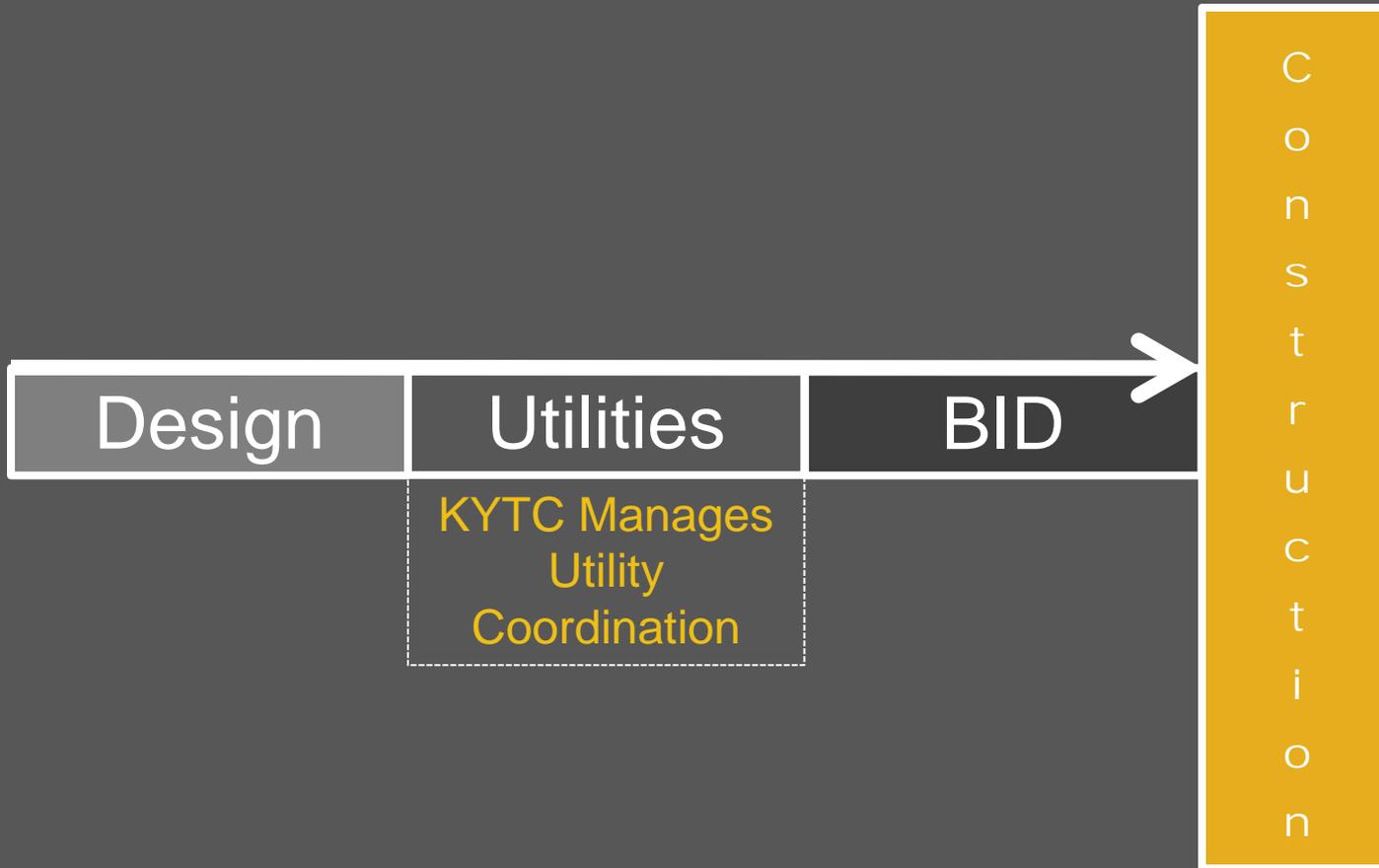


**PARSONS  
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# Non-Traditional Utility Coordination Agenda

- Traditional Approach
  - Recognizing a Need for a New Tool in the Toolbox
- Non-Traditional Utility Coordination Approaches
- Pilot Project Overviews
- Q/A and what's next

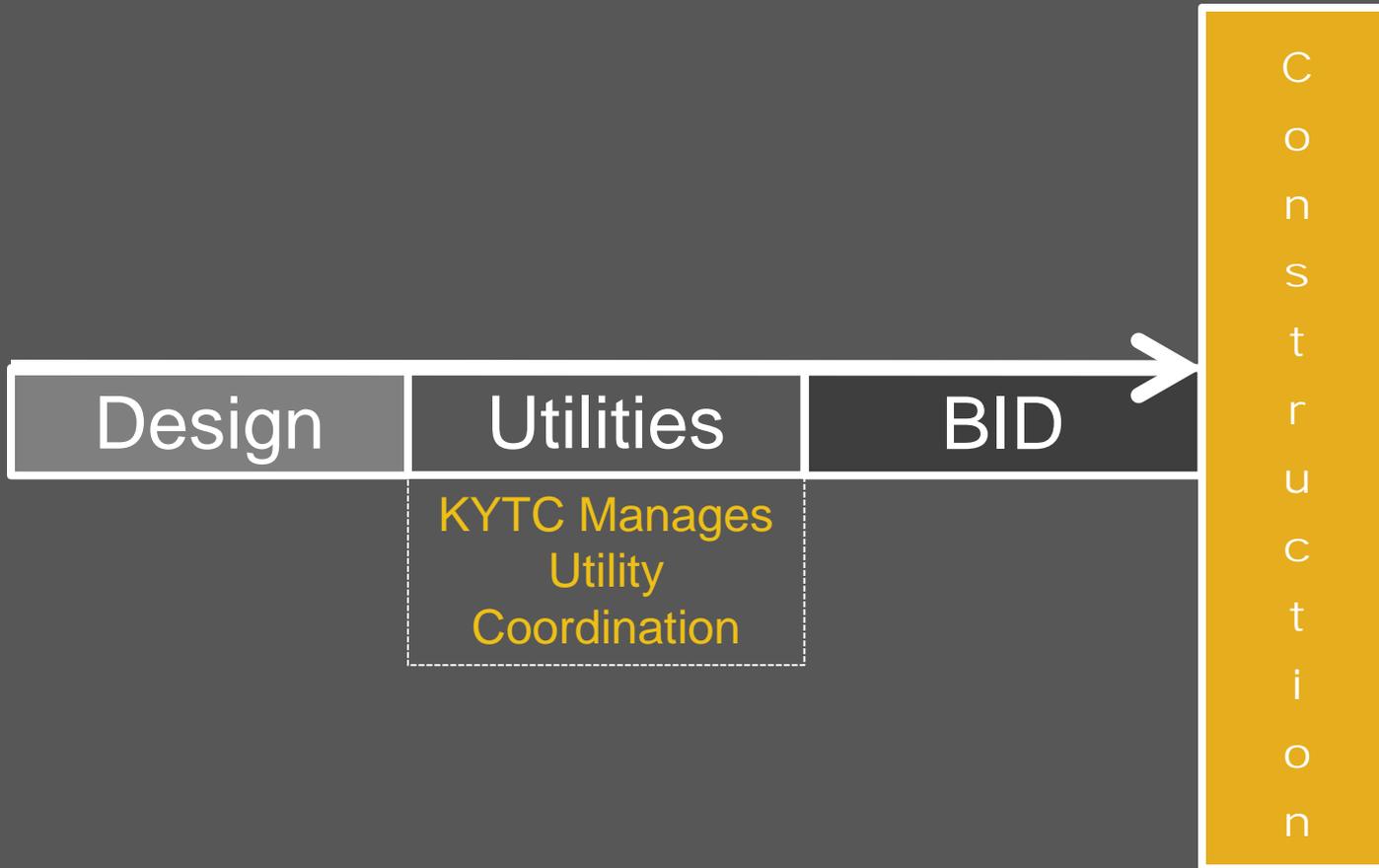
# Traditional Approach



# Recognizing a Need

- Schedule
- Project Logistics
- Mitigation opportunities
- Efficiency
- In house staffing issues
  
- New Tool:
  - Incorporate the use of outside services to perform utility coordination as needed

# Traditional Approach

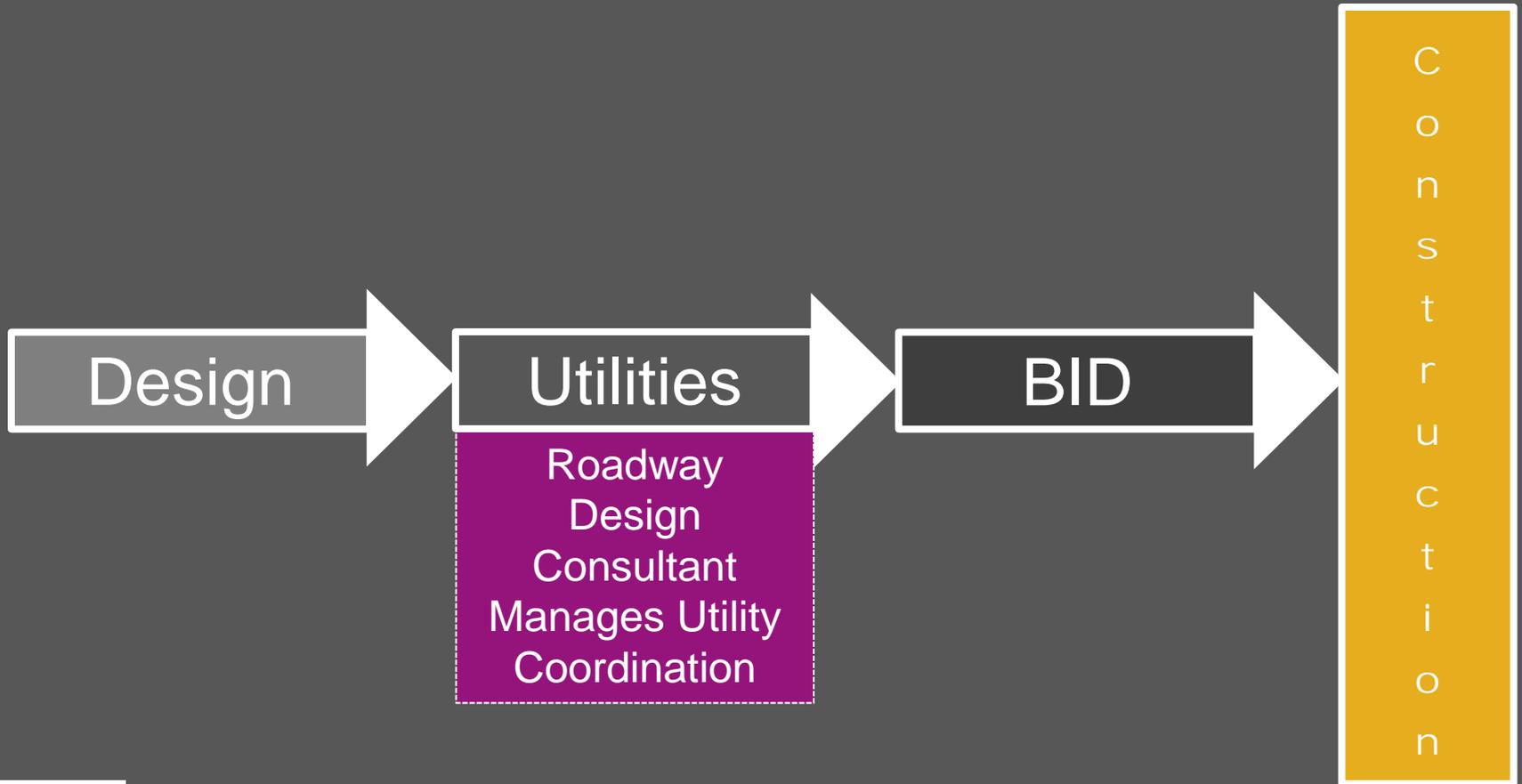


# Non-Traditional Approaches

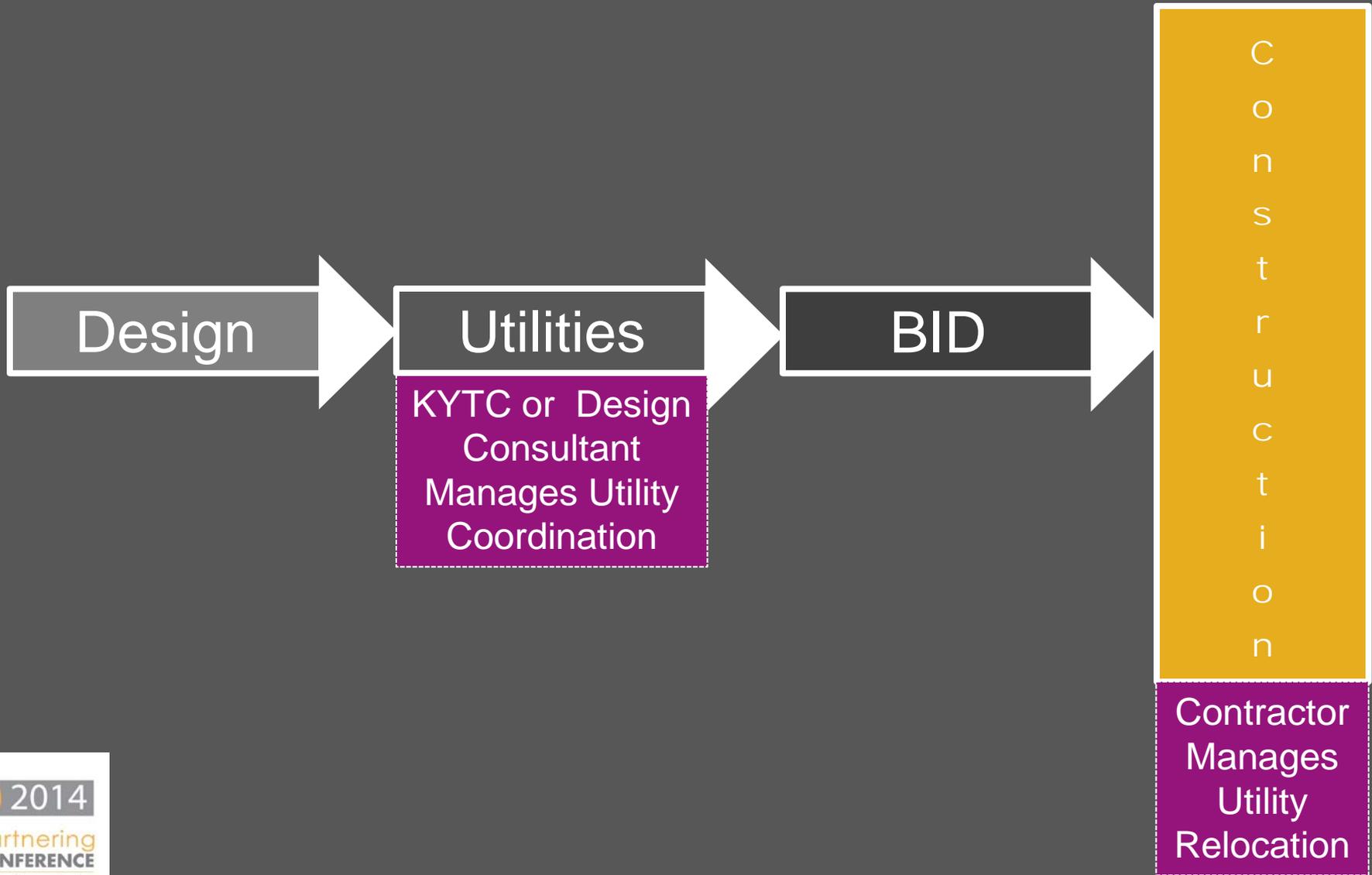


<b>Project Development Approach</b>	Design Consultant manages Utility Coordination in Design Phase
<b>Project Delivery Approach</b>	Contractor manages Utility Relocation Coordination in Construction Phase with KYTC and/or Consultant overview
<b>Design Build</b>	Contractor and DBT manages Utility Coordination from beginning to end of project

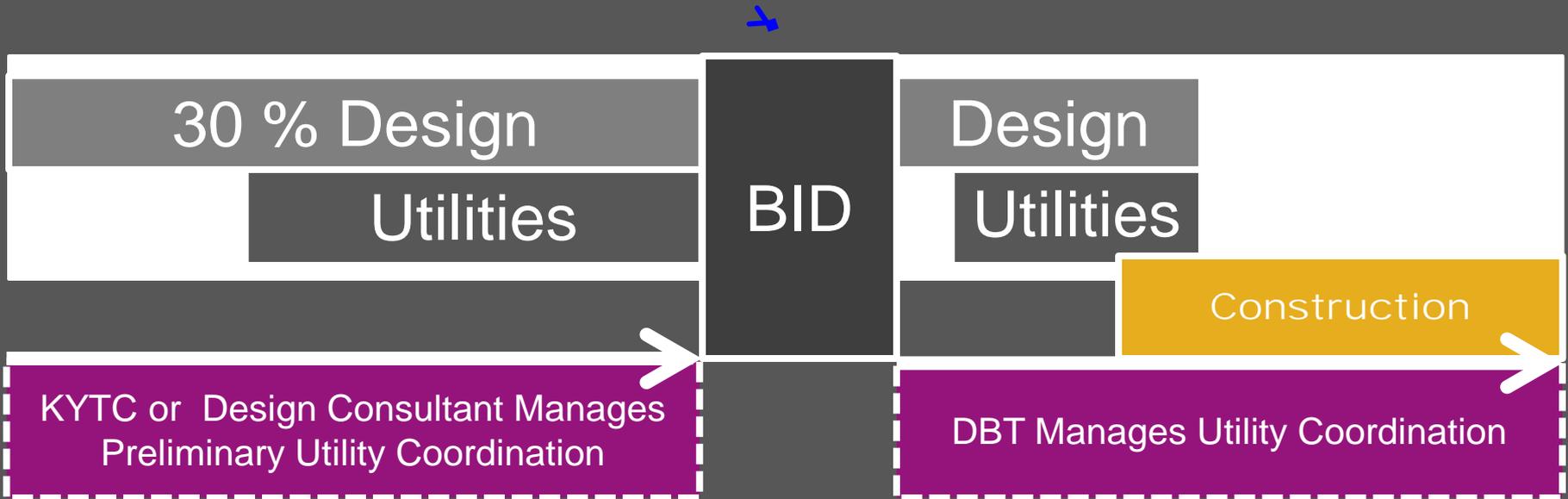
# Project Development Approach



# Project Delivery Approach



# Design Build Approach



# Project Development Approach

## Ohio River Bridges Project

Entity	Preliminary Utility Coordination	Conflict Identification	Final Utility Coordination	Relocation Construction Oversight
KYTC	Participates	Participates	Participates	Leads
KYTC Consultant	Leads	Leads	Leads	Not Involved
Design Build Team or Contractors Consultant	Not Involved	Not Involved	Not Involved	Not Involved

# Project Development Approach

## Ohio River Bridges Project

### *Benefits and Challenges*

#### Schedule

- Early Coordination with utility companies enables utilities to plan ahead for relocations and not delay the project due to lack of resources

#### Plans

- Plans are designed with utility conflicts and costs in mind. Roadway design changes considers utility impacts.
- Review and coordination with utilities results in accurate utility locations on plans.

#### Plans Cost

- Utility conflicts identified early and a detailed cost estimate prepared.
- Cost of relocations are minimized given that roadway design considerations are made to avoid utilities if possible.

#### Right of Way sufficient

- Right of Way needs and easement needs are more clearly defined and made available in time for the utilities to move forward without delay

#### KYTC Work-Load

- The level of effort by KYTC staff to coordination and track the project is greatly reduced, enabling the staff to focus on other project workload.

#### KYTC Utilities

- KYTC process for utility relocation is followed

# Project Delivery Approach

## KY 61 Sections 1&2, Bullitt County

Entity	Preliminary Utility Coordination	Conflict Identification	Final Utility Coordination	Relocation Construction Oversight
KYTC	Leads	Leads	Leads	Participates
KYTC Consultant	Not Involved	Leads*	Leads**	Not Involved
Design Build Team or Contractors Consultant	Not Involved	Not Involved	Participates	Leads

\*KYTC Consultant lead in the end, KYTC lead for most of the project

\*\*Consultant lead final effort to collect information only plans, and PS&E

# Project Delivery Approach

KY 61 Sections 1&2, Bullitt County

## *Benefits and Challenges*

### Schedule

- Due to extremely tight timeline, easement needs and lack of utility cooperation impact the schedule
- Costs are slightly elevated over normal process

### Letting

- Goal of letting the project in 2014 will be met

### Cost

- Project costs are minimized due to higher level of coordination Road work and Utilities

### KYTC Work-Load

- KYTC process for utility relocation is generally followed.

### Utilities

- Utility coordination assistance needed to meet deadline for construction
- Information only plans that are quite accurate
- Utilities relocations are 100 % funded

# Design Build Approach

KY 914, Pulaski County

Entity	Preliminary Utility Coordination	Conflict Identification	Final Utility Coordination	Relocation Construction Oversight
KYTC	Participates	Participates	Participates	Participates
KYTC Consultant	Participates*	Participates*	Participates*	Not Involved
Design Build Team or Contractors Consultant	Leads	Leads	Leads	Leads

\*KYTC Consultant can sometimes lead from the beginning

# Project Delivery Approach

KY 914, Pulaski County

## *Benefits and Challenges*

### Schedule

- Circumvents the typical design bid build schedule that requires right of way clear prior to utility relocation.
- Also, since utilizes agreement process for acquisition of design services, and design schedule are drastically different, that time is also changed.

### Cost

- Construction cost is not on a keep cost basis. The DBT negotiated a construction cost and design cost during bidding and will work to keep that cost inside of the estimate, unless substantial unknowns are encountered.

### KYTC Work-Load

- The level of effort by KYTC staff to coordination and track the project is greatly reduced, enabling the staff to focus on other projects

### Relocation and Right-of-way

- Relocation costs are fully reimbursed and can be elevated slightly due to the level of unknowns at the time of bidding.
- Right of Way and Easement needs are sometimes developed after the award

### DBT

- Agreements are not completely the same as typical design bid build and utility approval can take longer for legal reviews
- DBT is responsible to keep KYTC apprised of project progress and status, so expectations by the KYTC must be clearly stated in RFP.
- Risk transferred to contractor
- All functions of coordination are between contractor and utilities
- Agreements and payment procedures are conducted by the DBT

# What's Next?

- We need feedback
- Evaluate performance of existing efforts
- Improve on process with current efforts