

# I-49 Missouri-Arkansas Connector



**Industry Informational Meeting**

September 24, 2019

# Outline

- **Project Overview**
- **Project Goals**
- **Project Budget**
- **Alternate Technical Concepts Defined**
  - ATC Submittal Process
  - ATC Submittal Requirements
  - ATC Evaluation Procedure
- **Tentative Project Schedule**
- **Tentative Approach to Bidding**
- **Project Contact**

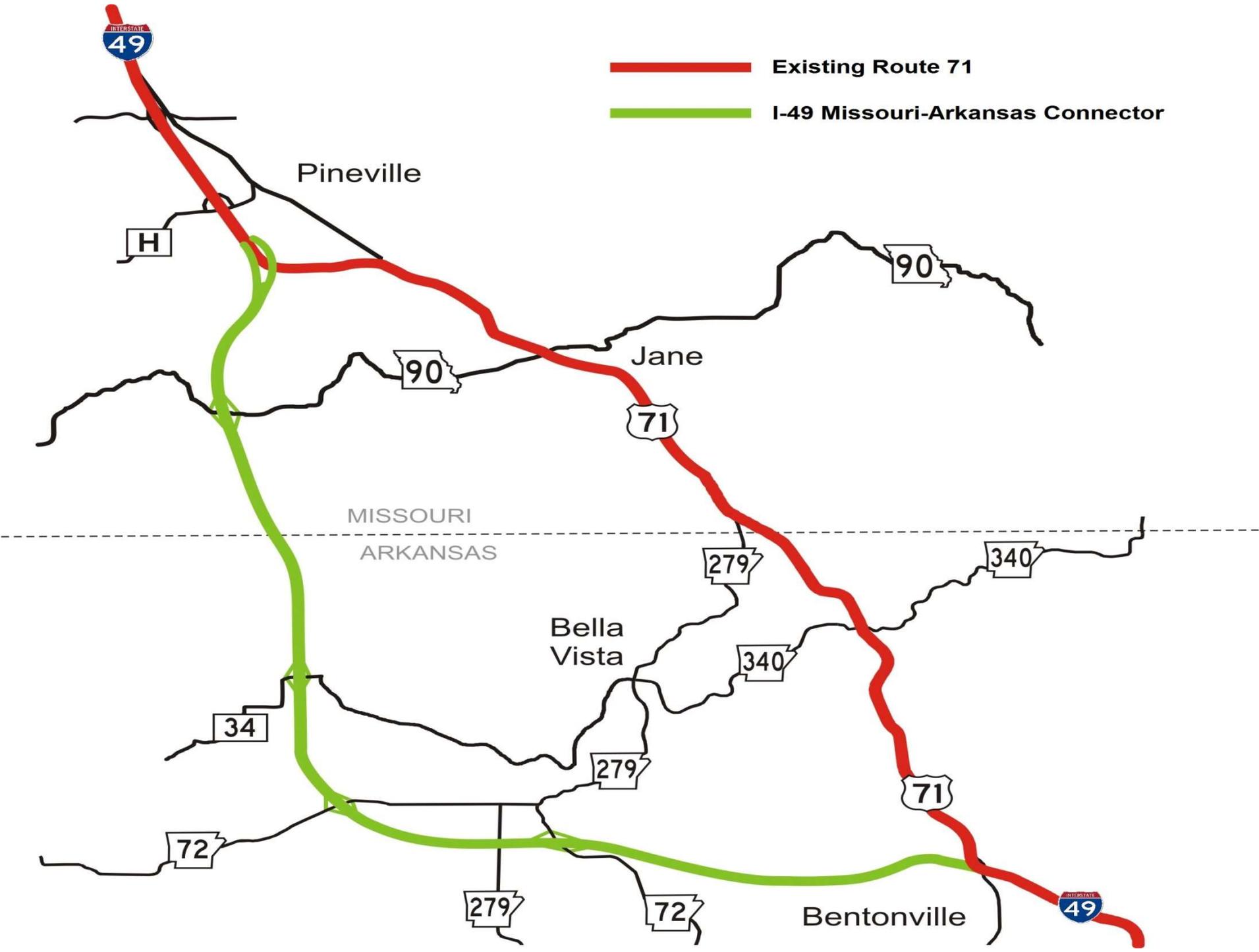
# Project Overview

- Existing I-49 in Missouri was completed in December 2012 between Kansas City and Pineville
- This project will complete the final 5 miles of I-49 in Missouri between Pineville and the Arkansas state line
- When this project is completed (along with projects on the Arkansas side) I-49 will stretch approximately 290 miles between Kansas City, MO and Fort Smith, AR
- This project is partially funded by a \$25 million federal Better Utilizing Investments to Leverage Development (BUILD) grant obtained for MoDOT by the NW Arkansas Regional Planning Commission

# Project Overview

- This project will construct a new four-lane divided highway to the west of the existing Route 71
- The new highway will meet interstate standards, with access points only provided at interchanges
- The project will include one interchange at Missouri Route 90 west of Jane

Existing Route 71  
I-49 Missouri-Arkansas Connector



INTERSTATE  
49

Pineville

H

90

90

71

Jane

MISSOURI  
ARKANSAS

279

340

Bella  
Vista

340

34

279

71

72

279

72

Bentonville

INTERSTATE  
49

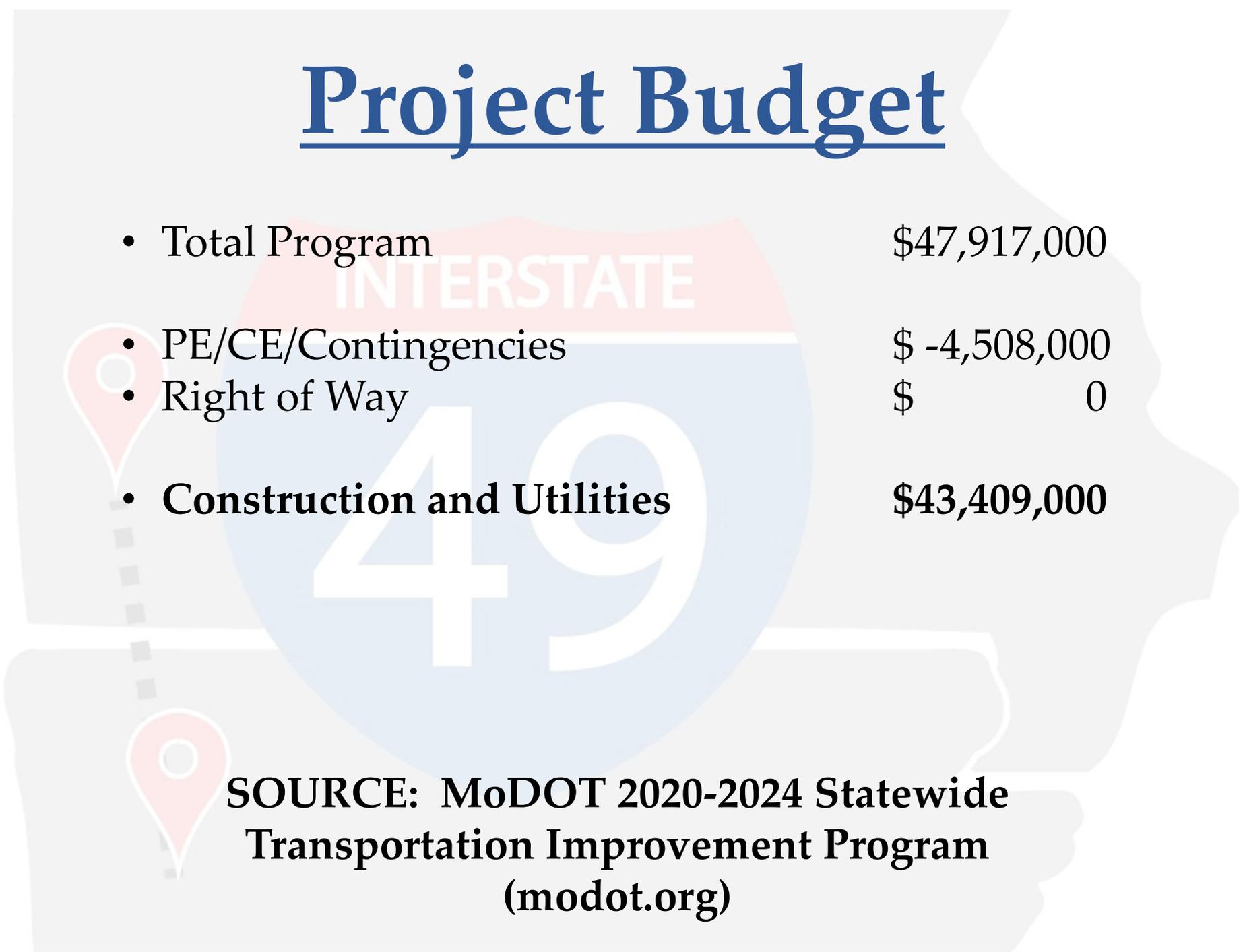
# Project Overview

- The project contains the following major items of work:
- 2 span bridges (both on MSE wall abutments)
  - I-49 NBL over US 71 SBL
  - Route 90 over I-49
- 3 large double box culverts
  - Goodin Hollow Creek Tributary (DBL 12'x 8')
  - White Oak Hollow Creek (DBL 9'x 7')
  - Rattlesnake Hollow Creek (DBL 14'x 8')
- 11 special structural design pipes and box culverts (due to high fill)
- Approximately 4.9 million CY of unclassified excavation
- Approximately 211,000 SY of alternate pavement

# Project Goals

- **Complete the project on schedule and on budget**
- **Construct an interstate-standard facility that adequately and safely serves the transportation needs of local and regional travelers, and that promotes economic development and freight movement**
- **Minimize public impact by keeping traffic flowing safely and efficiently through the impacted area**
- **Incorporate innovative design and construction techniques**
- **Demonstrate quality construction to provide a long lasting facility requiring minimal future maintenance**

# Project Budget







**SOURCE: MoDOT 2020-2024 Statewide  
Transportation Improvement Program  
(modot.org)**

# Alternate Technical Concepts

- **MoDOT provides the “Base Plans” that contain all items and quantities necessary to construct the project**
- **An ATC is defined as a concept, design standard, specification, material, product, construction method or other solution that may be bid in lieu of items included in the Base Plans**
- **The purpose of ATCs is to allow for innovation, project schedule reduction and cost savings to obtain the best value for the project – ATCs allow contractors to capitalize on these innovations by including the cost savings in their bid, improving their chance of being the successful low bidder**

# Alternate Technical Concepts

- **ATCs must be submitted according to the Guidelines and Procedures document**
- **ATCs must be pre-approved by MoDOT and the FHWA Missouri Division before they can be incorporated into the bidding documents**
- **The contractor will be responsible for completing all roadway and structural design plans, including biddable quantities, for approved ATCs**
- **ATCs must meet or exceed the project goals, and provide a product that is equal to or better than the product in the Base Plans the ATC replaces**

# Alternate Technical Concepts

- **Up to 3 ATCs may be submitted for consideration**
- **If an ATC is pre-approved by MoDOT and FHWA-MO then the contractor has the option of submitting a bid for the Base Plans, or for the Base Plans as modified by the ATC. The contractor will only be allowed to submit one bid for the project.**

# ATC Submittal Process

- **The contractor must submit proposed ATCs to the project contact via email (preferred method) or hard copy (in person)**
- **No verbal direction or comments will be given concerning proposed ATCs**
- **Confidential one-on-one meetings with select members of the ATC Review Team will be held if requested by the contractor**

# ATC Submittal Requirements

- **Submittals must include:**
- **A detailed description of the proposed ATC and the item in the Base Plans that it replaces**
- **A description of the proposed ATC's impact on:**
  - **Project cost**
  - **Project schedule and completion date**
  - **Environmental**
  - **Utilities**
  - **Long term operations**
  - **Long term maintenance**
  - **Maintenance of traffic during construction**
  - **Any risks associated with the proposed ATC**

# ATC Submittal Requirements

- **Conceptual ATCs may be submitted for conditional approval in order for MoDOT to provide feedback to the contractor without requiring a significant initial design cost**
- **Conceptual ATCs shall, at minimum, state the basic proposal and approximate cost savings**
- **It will be the contractor's ultimate responsibility to produce plans and biddable quantities so that the proposed ATC can be evaluated for pre-approval by MoDOT and FHWA-MO.**

# ATC Evaluation Procedure

- **ATCs will be evaluated by a multi-disciplinary Review Team consisting of MoDOT and FHWA-MO personnel**
- **All proposed ATCs are considered highly confidential and will not be shared with other bidders (ATCs may be Sunshine requested after award of the project)**
- **All members of the Review Team (except FHWA) will be required to sign a project-specific confidentiality agreement before reviewing any ATC submittals**
- **The ATC Review Team will make every effort to evaluate each ATC within 10 working days of submittal**

# ATC Evaluation Procedure

- **ATCs will be evaluated utilizing the following criteria:**
  - **ATCs must meet or exceed minimum requirements and engineering standards**
  - **ATCs must be equal to or better than the Base Design**
  - **ATCs must not extend the project completion date**
  - **Utility impacts**
  - **Environmental impacts**
  - **Impacts to long term maintenance**
  - **ATCs do not violate project constraints...**

# ATC Evaluation Procedure

- **Project Constraints:**
- **No decrease in the engineering standards from the Base Plans will be considered:**
  - **Examples:**
    - **Narrowing the shoulders**
    - **Narrowing the lane widths**
    - **Decreasing the sight distance**
    - **Decreasing horizontal curve radii**
    - **Reducing the design speed**
    - **Reducing the clear zone**
    - **Reducing clear distance to piers and/or abutments**
    - **Reducing vertical clearance**
    - **Reduced traffic control performance**

# ATC Evaluation Procedure

- **Project Constraints (continued):**
  - **No compromise will be allowed on safety related elements**
  - **The design must meet interstate standards**
  - **Must provide a full access interchange at Route 90**
  - **Cannot impact the 16" high pressure gas line at station 840+00**
  - **No new right of way shall be acquired**
  - **Can't have later completion date than shown in the JSPs**

# Tentative Project Schedule

Date	Milestone
September 6, 2019	Draft plans and cross sections posted to the MoDOT Contractor Resources website
September 24, 2019	Industry informational meeting held to outline the project, the ATC process and the tentative schedule
September 25, 2019	Establish the project website and post draft plans, geotechnical report and various CADD files containing centerlines, right of way lines, existing ground topographic features and existing ground terrain model
October 7, 2019	Guidelines and procedures for the ATC process finalized and posted to the project website
November 12, 2019	Signed and sealed plans and job special provisions due to Central Office Design, and electronic deliverables posted to the project website
November 13, 2019	Start date for confidential one-on-one contractor meetings, and first day to submit proposed ATCs for review and pre-approval

# Tentative Project Schedule

Date	Milestone
January 24, 2020	4 weeks before the letting – Last day for contractors to submit ATCs for review and pre-approval (be advised that contractors cannot re-submit ATCs rejected after this date)
February 7, 2020	2 weeks before the letting – Last day for MoDOT to provide approval or rejection of proposed ATCs
February 21, 2020	Letting
March 4, 2020	Award
April 3, 2020	Early notice to proceed

**DISCLAIMER: All dates subject to change pending the official release of the MoDOT letting schedule, and the number and complexity of ATCs received**

# Tentative Approach to Bidding

- **Once the Review Team approves an ATC, the contractor and the Review Team will work out the approach to bidding the work. This may include submitting alternate quantities or eliminating an entire category of items and replacing that category with a lump sum.**
- **MoDOT Bidding and Contracting Services (BCS) will work with BidX to create an alternative call for those contractors electing to bid ATCs (the specifics of how this will be handled have yet to be determined)**
- **Only the approved contractor will be able to open or bid the alternative call, and access the alternative call .ebsx file**

# Tentative Approach to Bidding

- **Contractors will only bid one call, the base project call or the approved alternative call**
- **Contractors that bid both the base and alternative calls may be declared irregular**
- **The ATC Review Team will work with BCS to confirm that the alternative call bid package will work with our system, and that appropriate and fair bidding practices will be followed which will allow a clearly defined low bidder**

# Project Contact

**Craig Switzer, P.E.**  
**Transportation Project Manager**

**MoDOT Southwest District**  
**Joplin Regional Office**  
**2915 Doughboy Drive**  
**Joplin, MO 64804**

**(417) 621-6331**

**[craig.switzer@modot.mo.gov](mailto:craig.switzer@modot.mo.gov)**