



WELCOME Public Meeting For SH-51 Over Baron Fork Creek In Cherokee County

September 24, 2013

TEAM INTRODUCTIONS

ODOT

- Darren Saliba Division 1 Engineer
- Chris Wallace Division 1 Construction Engineer
- Siv Sundaram Environmental Programs
- Laurie Effinger Division 1 NEPA Project Manager
- Bob Rusch Bridge/Hydrology & Hydraulics
- Raul Gutierrez Project Management
- Kurt Harms Right-of-Way and Relocation
- Anjie King Right-of-Way & Relocation
- Cody Boyd Media & Public Relations
- Frank Roesler, III Public Involvement Officer
- Clinton Tillette Public Involvement Specialist

GARVER

- Jason Langhammer Project Manager/Bridge Lead
- Jenny Sallee Roadway Lead
- Kirsten McCullough Public Involvement
- Kyle Williams Roadway Design
- Lacee Stanley Hydrology & Hydraulics





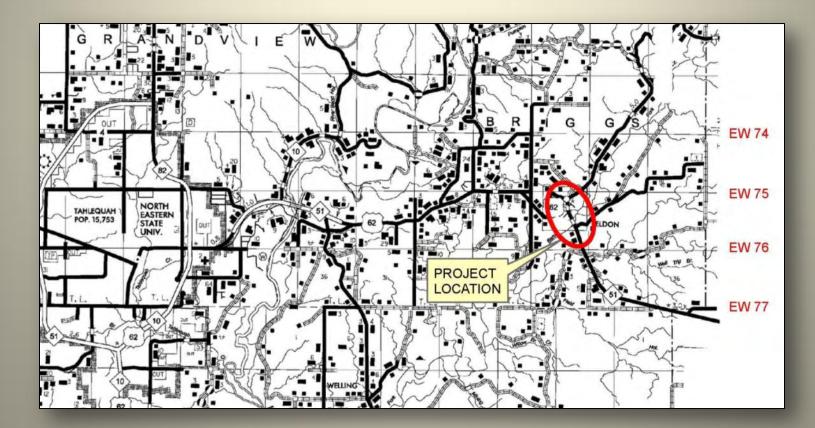
PURPOSE OF THIS MEETING

...is to Inform the Public and Solicit Comments About the Proposed Improvements to SH-51 Over Baron Fork Creek in Cherokee County



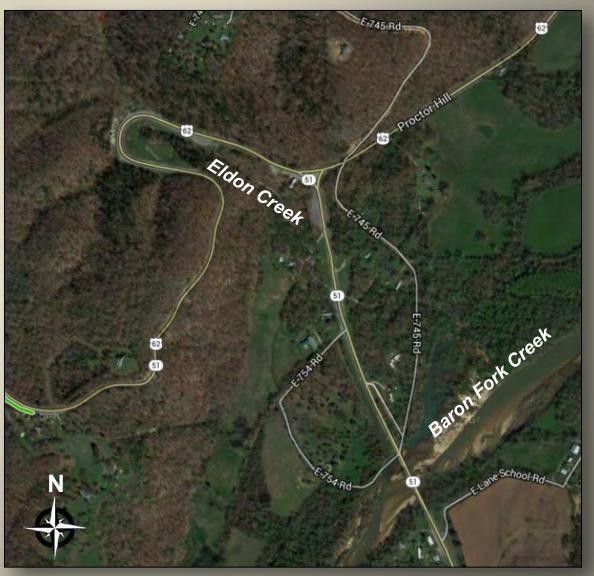
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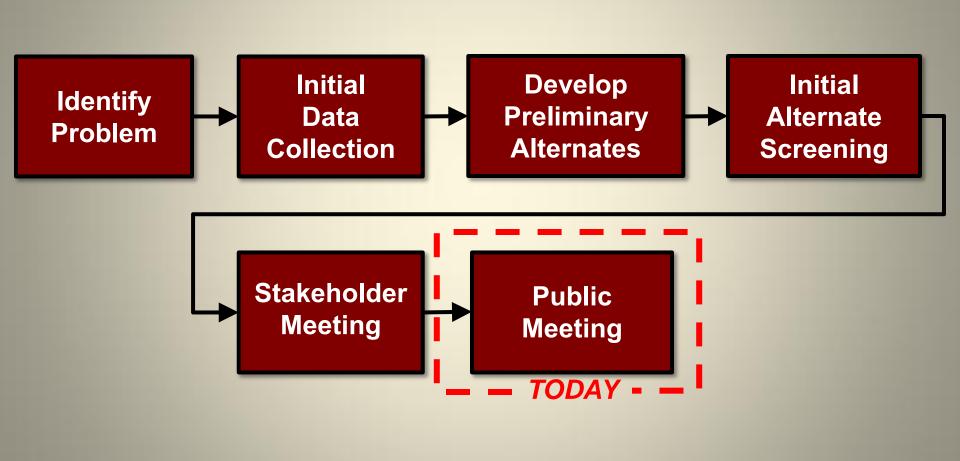


PROJECT PURPOSE

- Correct the Structurally Deficient Bridge on SH-51 Over Baron Fork Creek
- Improve the Safety of the SH-51 Roadway and the Intersection at the SH-51/US-62 Junction



PROJECT DEVELOPMENT PROCESS



PROJECT AREA INFORMATION

General Data

- 2 Lane Roadway Without Shoulders
- 2 Bridge Structures (Baron Fork Creek and Eldon Creek)
 - Current Traffic: 3,800 Vehicles/Day (5% Trucks)
 - Projected Traffic (2032): 5,320 Vehicles/Day

Collision Data

- Total 18 Documented Accidents (2008-2012)
 - 12 Personal Property Damage
 - 6 Injury (7 Persons)

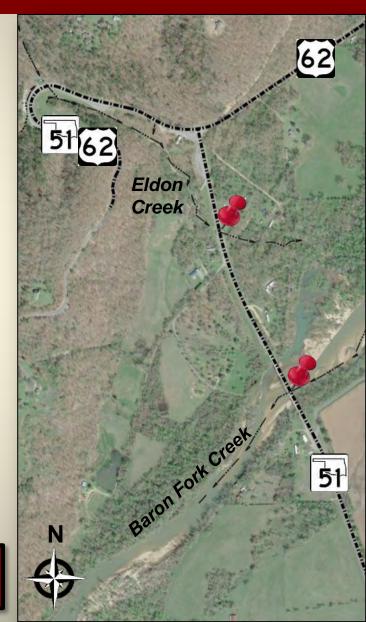
Initial Data

Collection

- <u>THREE</u> Times the State Average for Collisions
- More Than <u>TWICE</u> the State Average for Injury Collisions
- Designated Safety Corridor by Oklahoma
 Highway Patrol



Preliminary Alternates



EXISTING CONDITIONS WARRANT IMPROVEMENT

Bridge Deficiencies

 Existing Baron Fork Bridge is Structurally Deficient

Roadway Deficiencies

- Horizontal Curves (Superelevation)
- Junction Layout
- No Shoulders
- Limited Sight Distance
- Minimal Clear Zone





PROJECT HISTORY



Corridor Study

- Correct Longer Section of SH-51 (8.7 Miles)
 - Remove Hairpin Curves
 - Replace Structurally Deficient Bridges
- Public Meeting
- Not Currently Funded (8-Year
 Workplan)

Initial Data

Collection

Identify Problem

Preliminary Alternates Alternate Screening 62

51 ALT. 3

51

PROJECT HISTORY cont'd....



Current Project

More Limited in Size and Scope

- Replace Structurally Deficient
 Bridge
- Correct Junction Geometrics
- Minimizes Impacts to the Area
- Compatible With Corridor Study
 Alignment
- Funded in 8-Year Work Plan

IdentifyInitial DataProblemCollection

Preliminary Alternates Alternate Screening 62

51 ALT. 3

51

DEVELOPMENT OF ALTERNATES

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DEVELOPMENT OF ALTERNATES

Project Area Constraints

Mountainous Terrain

- Eldon Hill
- 240' Elevation Change
- Tie-In at Existing Grade
- Eldon Store Landmark Building
- Maintenance of Traffic
- Baron Fork Creek and Eldon Creek - Part of Designated Scenic River

Initial Data

Collection

Potential Future Public
 Access



Identify Problem Preliminary Alternates

DEVELOPMENT OF ALTERNATES cont'd...

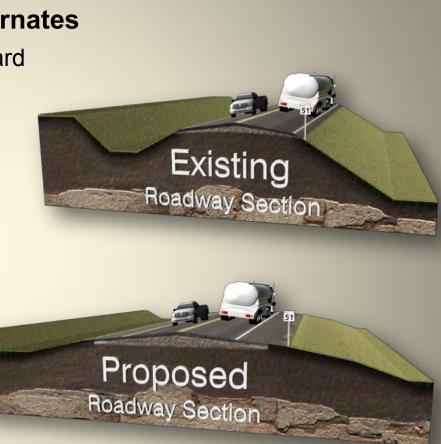
Proposed Design Criteria for all Alternates

- Existing Roadway Section Substandard
- Roadway Typical Sections
 - Two 12' Lanes
 - 8' Shoulders
- Change Through Movement to SH-51
- Design Speed
 - Desired 65 mph

Initial Data

Collection

- Minimum 50 mph
- Maximum Superelevation of 6%
- Left Turn Lane at SH-51/US-62



Identify Problem Preliminary Alternates

DEVELOPMENT OF ALTERNATES *cont'd...*

Developed Alternates

- Initially Considered Nine Alternates
 - Various Design Speeds (30-65 mph)
 - Various Curve Configurations (s=4%-6%)
- ODOT Meeting to Refine Design Criteria

Evaluation Criteria

- Desired Speed
- Impacts to Eldon Hill
- Impacts to Landmark Building
- Impacts to Eldon Creek

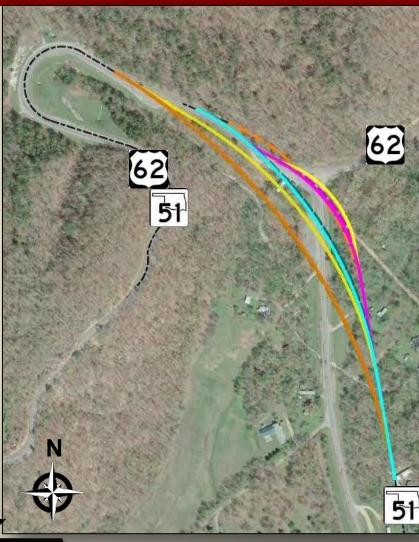
Initial Data

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Constructability

Reduced Number of Alternates

o Alt. 3 & 4



Identify Problem Preliminary Alternates

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Alternate

Screening

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Preliminary

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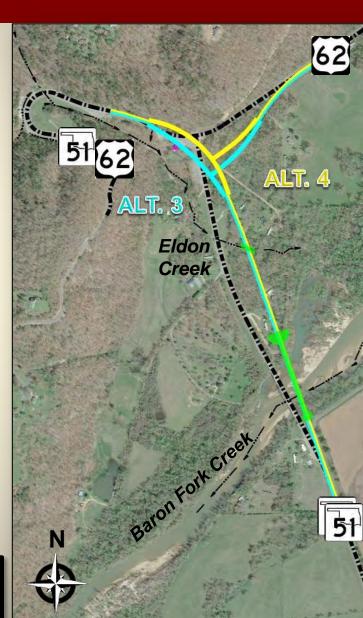
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Identify

Problem



ALTERNATE OVERVIEWS

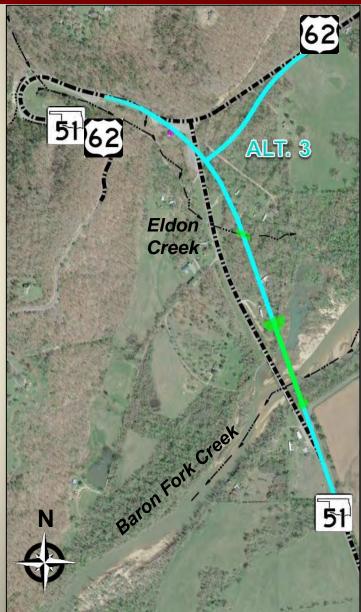
PROJECT ALTERNATES Alternate 3

Overview

- o 65 mph Design Speed
- Max. 6% Superelevation
- SH-51/US-62 Junction Offset to Southeast
 - US-62 Stop Controlled at SH-51
 - Left Turn Bay for SH-51 (SB)
- 3 Major Phases of Construction
- Maintains 2 Lanes of Traffic

Key Features

- Avoids Cuts Into Eldon Hill
- Removes the Landmark Building
- Local Access Maintained on Existing SH-51
- Requires Approximately 18 Acres of New Permanent Right-of-Way
- Potential for Relocations

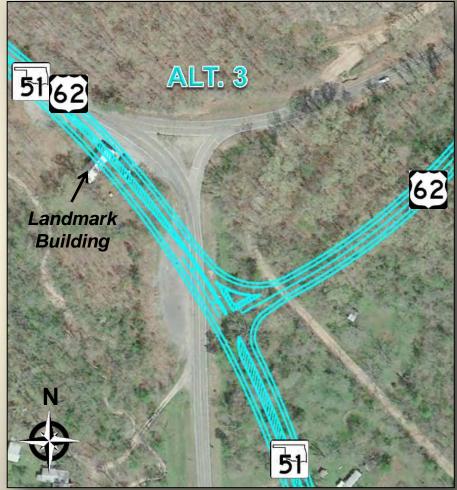


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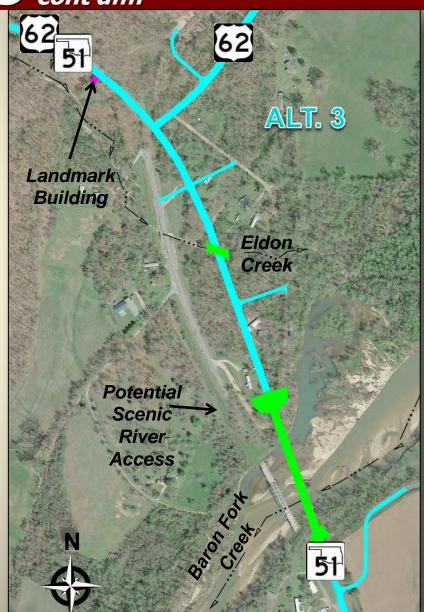
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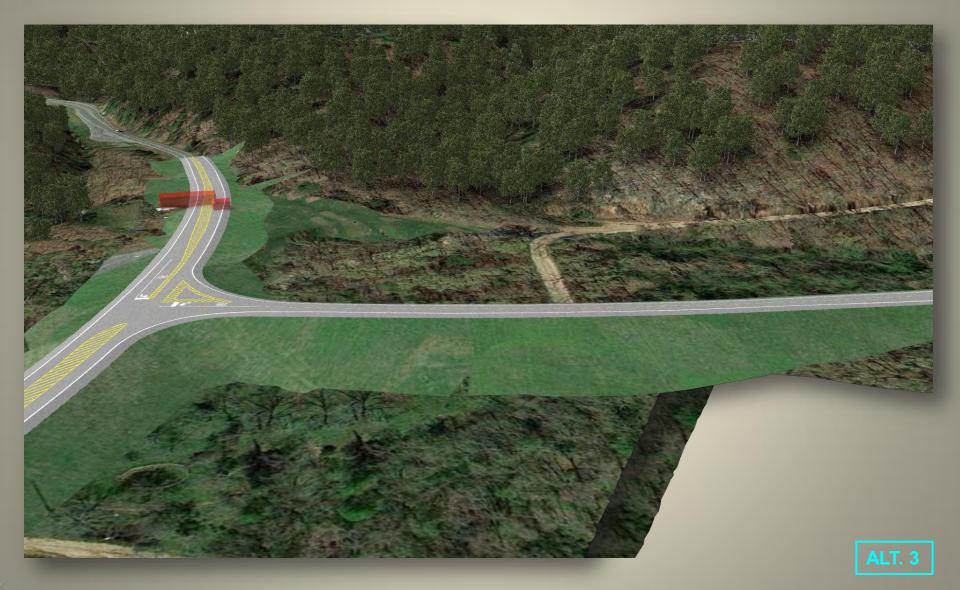


Local Road & Drive Access

- Local Road Connections to Proposed Highways
- Portion of Existing Highway to Remain
- Potential for Future Scenic River Access







PROJECT ALTERNATES Alternate 4

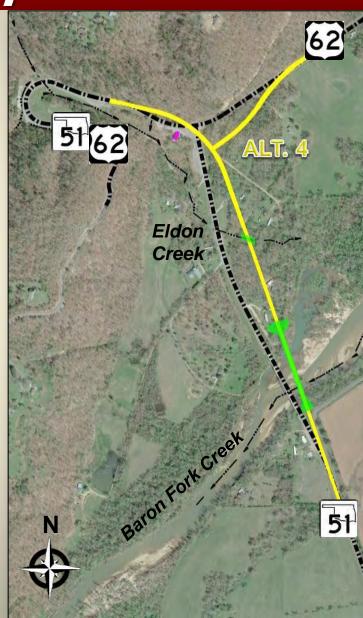
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- 50 mph Design Speed
- Max. 6% Superelevation
- SH-51/US-62 Junction Offset to Southeast
 - US-62 Stop Controlled at SH-51
 - Left Turn Bay for SH-51 (SB)
- 4 Major Phases of Construction
- Maintains 2 Lanes of Traffic

Key Features

- Large Cut Into Eldon Hill May Require Blasting and Tree Removal
- Avoids the Landmark Building
- Local Access Maintained on Existing SH-51
- Requires Approximately 20 Acres of New Permanent Right-of-Way
- Potential for Relocations



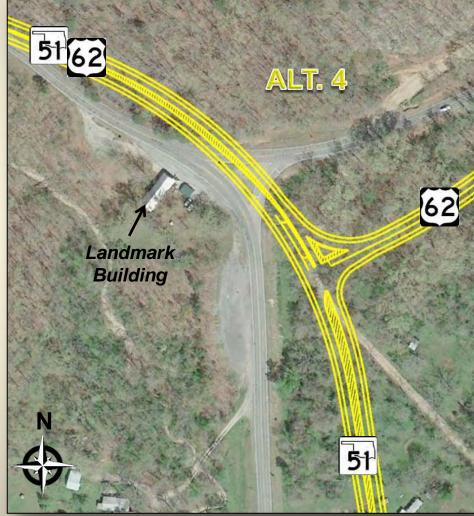


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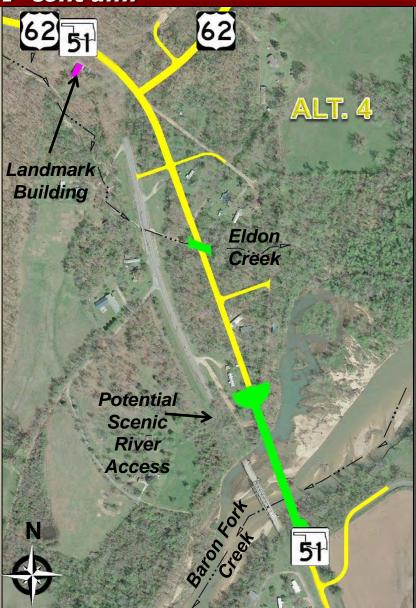
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Local Road & Drive Access

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- Drive Connections to Existing Highway
- Potential for Future Scenic River Access











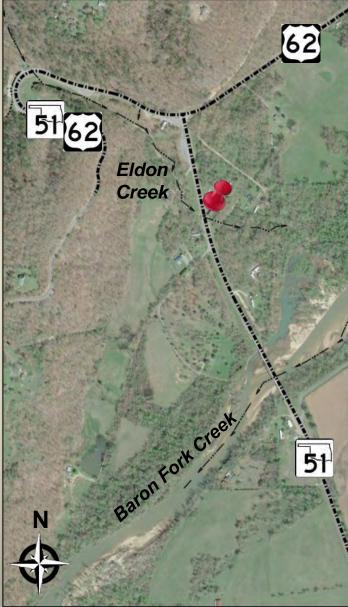


BRIDGE

EXISTING ELDON CREEK BRIDGE

- Double 10' x 7' Reinforced Concrete Box
- Constructed in 1946
- 30° Skew
- Will Remain in Place

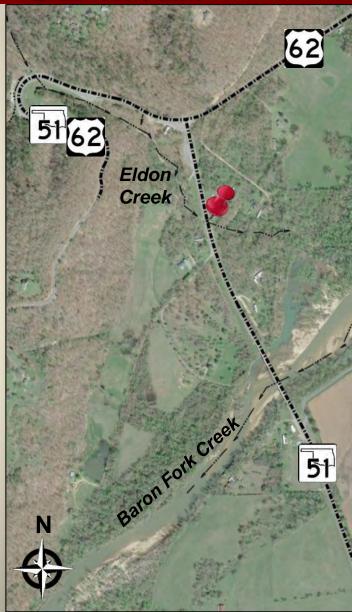




EXISTING ELDON CREEK BRIDGE cont'd....

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- 30° Skew
- Will Remain in Place





PROPOSED ELDON CREEK BRIDGE

Proposed Structure

- Double 10' x 7' Reinforced Concrete Box
- 30° Skew
- Current Loading Standards





EXISTING BARON FORK CREEK BRIDGE

- Total Length of 618'
- Composed of I-Beam and Truss Spans
- 210' Main Truss Span Over Creek
- Constructed in 1946
- Structurally Deficient
- Functionally Obsolete
- Removal Anticipated

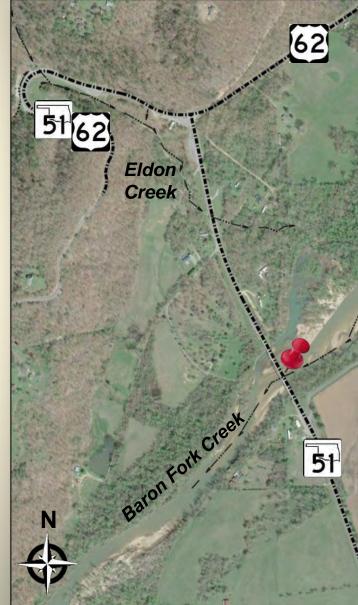




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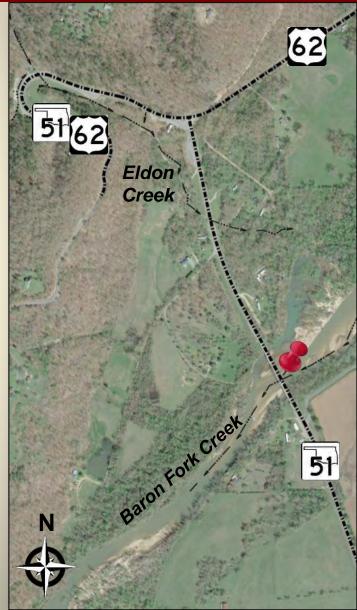




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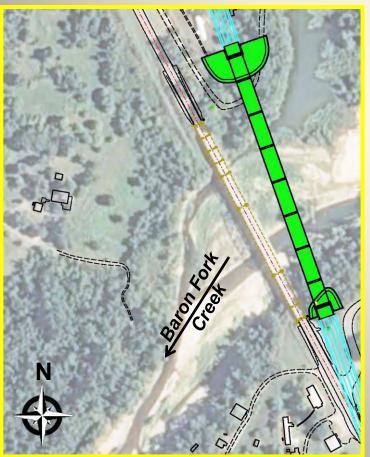
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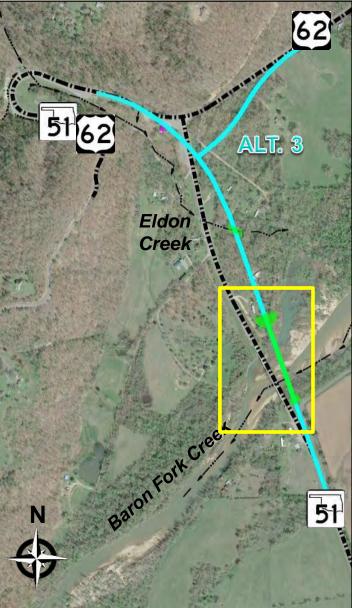




PROPOSED BARON FORK CREEK BRIDGE

- Offset Location
- 750' in Length
- 8 Pre-Stressed Concrete Beam Spans
- 40' Clear Roadway

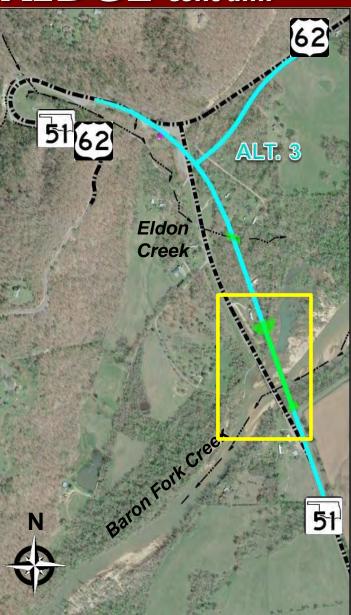




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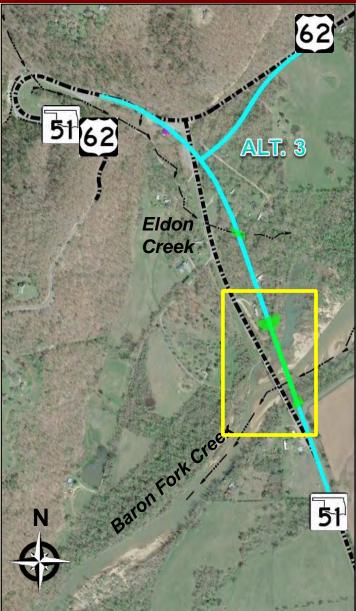




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ENVIRONMENTAL

ENVIRONMENTAL CONDITIONS

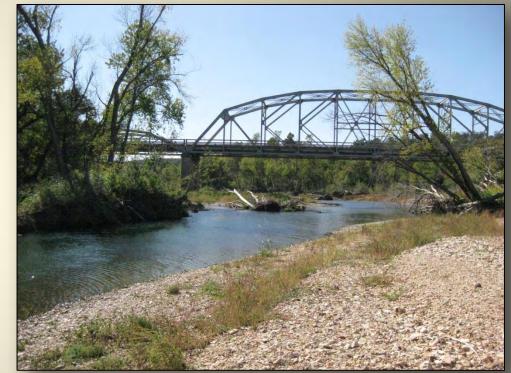
- Detailed Environmental Studies Have not Been Completed
- Resources We Are Aware of Include:
 - Homes and Private Properties
 - Eldon Baptist Church
 - Eldon Store
 - Baron Fork and Eldon Creeks
 - Part of Scenic Illinois River Watershed
 - Outstanding Resource Water
 - Visual Resources
 - Baron Fork Creek
 - Eldon Hill
 - Threatened and Endangered Species
 - Wetlands
 - Others? Please Give Us Your Input!



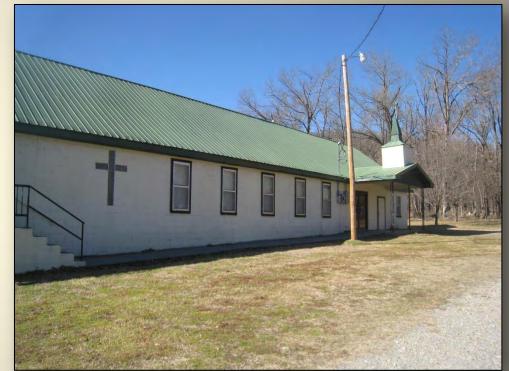
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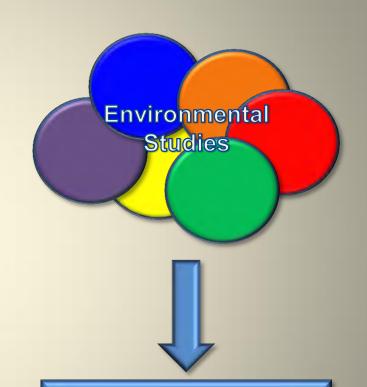


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NEXT ENVIRONMENTAL STEPS

- After a Preferred Alternate is Selected, Detailed Environmental Studies Will Be Completed
 - Archaeological and Historic Survey
 - Wetland Delineations
 - Biological Assessment
 - Hazardous Waste Investigation
 - Relocation Plan, if Required
 - Clean Water Act Permits and Water Quality Certification
- Studies Will be Summarized in an Environmental Document to Satisfy State and Federal Regulations



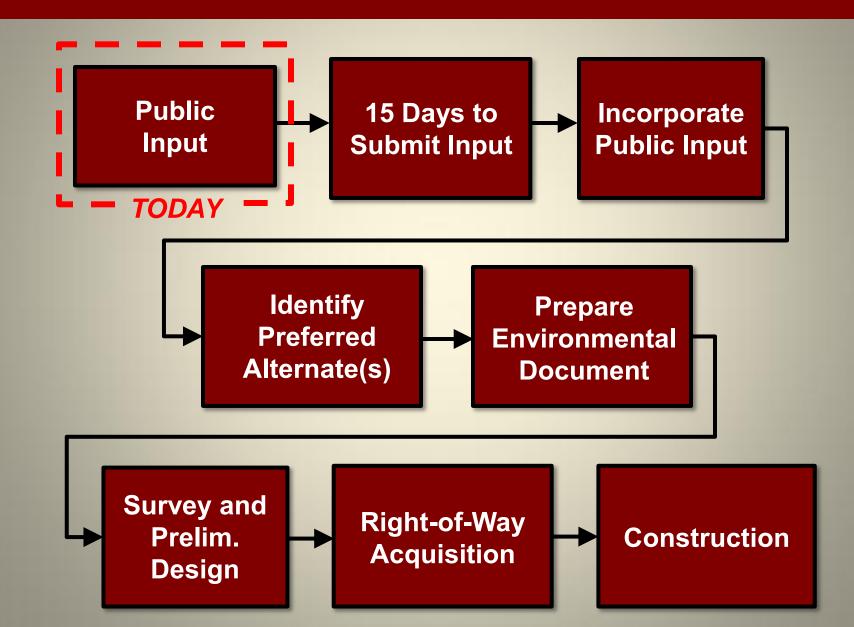
NEPA Document

SUMMARY

SUMMARY COMPARISON

PROJECT ALTERNATES						
ALT.	REPLACE BARON FORK BRIDGE	IMPROVE SH-51/US-62 JCT.	DESIGN SPEED	REMOVE LANDMARK BUILDING	CUT ELDON HILL	CONSTRUCTION COST (MILLION)
ALT. 3	Χ	Χ	65 mph	Χ		\$9.1
ALT. 4	Χ	Χ	50 mph		Χ	\$10.0

NEXT STEPS



RIGHT-OF-WAY AND RELOCATION ASSISTANCE

THANK YOU!

Please Submit Your Comments by: October 9, 2013

Leave Your Comment Form Here Tonight

 Mail the Comment Form Back to ODOT: Environmental Programs Division 200 NE 21st Street Oklahoma City, OK 73105

Email Your Comments to: <u>ENVIRONMENT@ODOT.ORG</u>

 Information is Available at: <u>http://www.okladot.state.ok.us/meetings/other.php</u>

QUESTIONS?