## **TIGER Discretionary Grant Recipient**

I-244 Arkansas River Multi-Modal Bridge

Tulsa, Oklahoma





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## TIGER

Transportation Investment Generating Economic Recovery

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## **TIGER Discretionary Grant**

# February 2010 ODOT Recipient of \$49.48 million TDG

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#### WHAT IS NEPA AND THE ODOT DECISION MAKING PROCESS?

NEPA is an acronym for the Federal Law called the National Environmental Policy Act, enacted in 1969. In order to use federal funds, a decision-making process that balances the social, economic, and environmental concerns must be conducted. Public Involvement and comments are part of the NEPA process. The Department will solicit comments from State, Federal, Tribal, and local agencies, and will continue to coordinate with them as necessary. Data will be collected on potential environmental issues such as noise, wetlands, cultural resources, historic resources, parks, displacements of homes or businesses, etc., to evaluate potential impacts of the proposed improvements. Economic impacts such as construction costs, estimated right-of-way, and utility cost data will also be evaluated. This information is utilized to make sound decisions in transportation improvements.

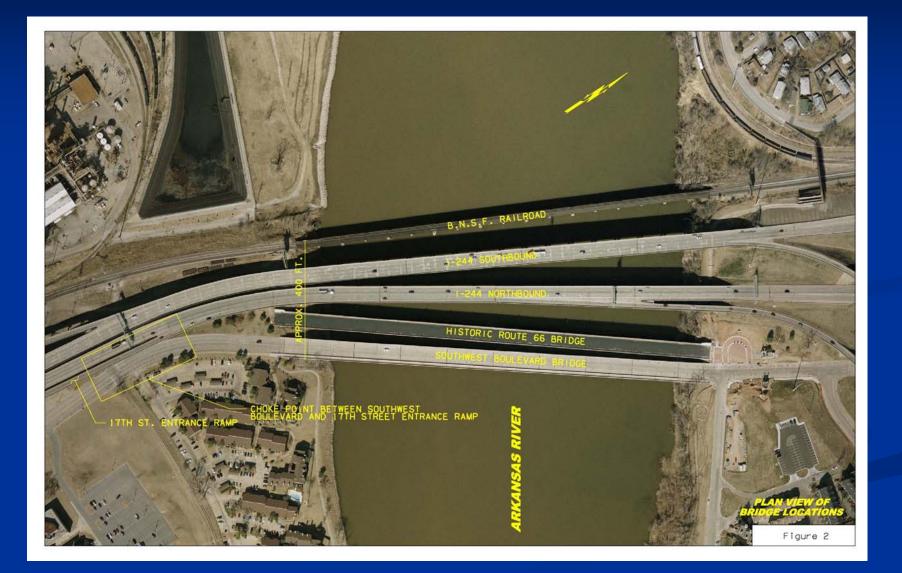
#### **ITEMS CONSIDERED DURING PROJECT DEVELOPMENT**

- Purpose and Need for project
- Alternates
- Affected Environment
- Possible Environmental Consequences:
  - Air Quality Impacts
  - Community Impact Assessment
  - Consideration of Pedestrians and
     Bicyclists
  - Construction Impacts
  - Cultural Resources and Archeological Sites
  - Economic Impacts
  - Effects on Public Parks, Wildlife,
     and Waterfowl Refuges and
     Historic Sites

- Energy
- Environmental Justice
- Farmland Impacts
  - Floodplain Issues
- Hazardous Water/Underground Storage Tanks
  - Irreversible & Irretrievable Commitment of resources
- Joint Development
- Land Use Impacts
- Noise Impacts
- Permits
  - Relationship of Local Short-Term vs. Long-Term productivity
- Relocation Impacts

- Secondary and Cumulative Impacts
- Social Impacts
- Threatened or Endangered Species
- Visual Impacts
- Wetland Impacts
- Wildlife Impacts

- Comments and Coordination /Public Involvement
  - State / Federal Agencies
  - Local/City Officials
  - Tribal Coordination
  - Interested Citizens
- Engineering Concerns
- Accidents/Safety Concerns



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#### **TIGER Discretionary Grant**

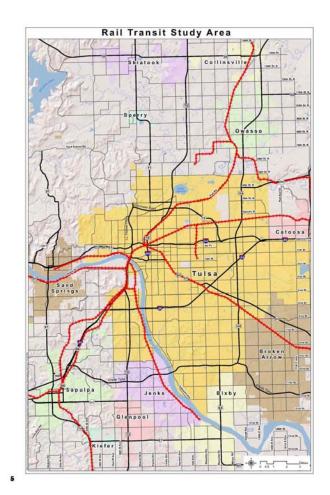
 Oklahoma's First Multi-Modal Bridge that will Accommodate:

 Interstate Highway
 HSIPR - High Speed Intercity Passenger Rail
 LRT - Light Transit Rail (Commuter Rail)
 Bicycle / Pedestrian

Summer of 2009 began Application Process

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**TIGER Grant Application Process** Tulsa and INCOG Planning Documents Tulsa Transit New System Design (2003) INCOG Regional Transportation Plan (2005) ■ Destination 2030 Rail Transit Strategic Plan (2008) ■ Which Way Tulsa – PLANiTulsa (2009) Tulsa Downtown Area Master Plan



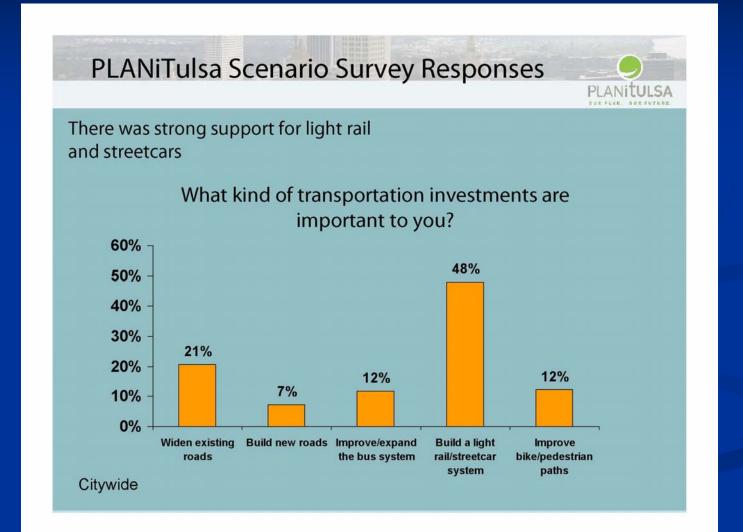
#### TIGER Grant Recipient

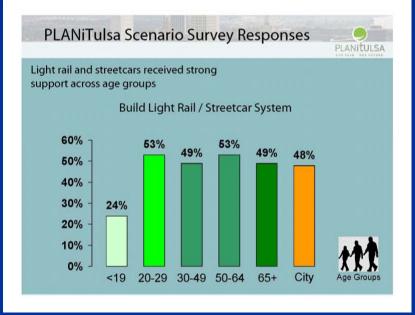


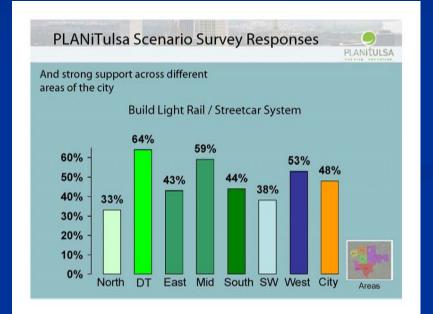
**PLANiTulsa** *Which Way Tulsa* Survey Results

July, 2009



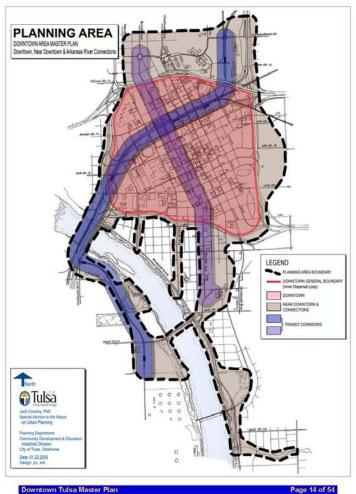


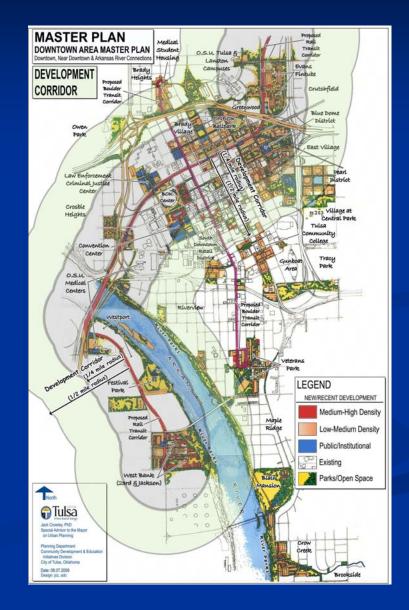




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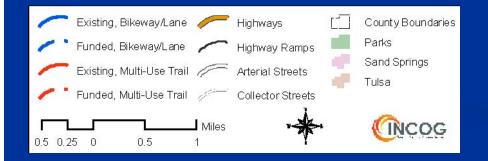
#### Draft





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### **Regional Trails**







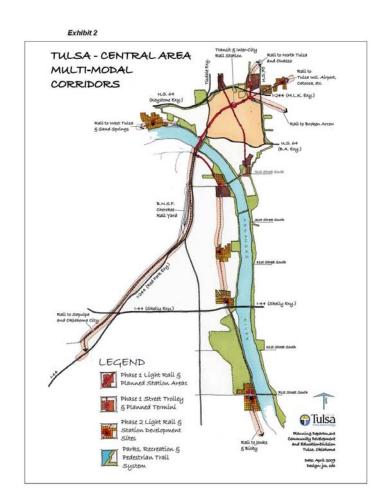
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#### **TIGER Grant Application Process**

Tulsa and INCOG Planning Documents

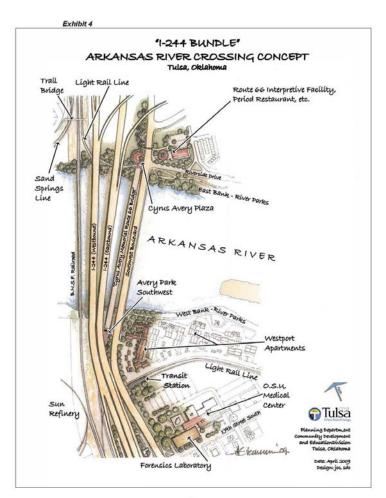
Downtown – Arkansas River Crossing (2009)
 "I-244 Bundle"

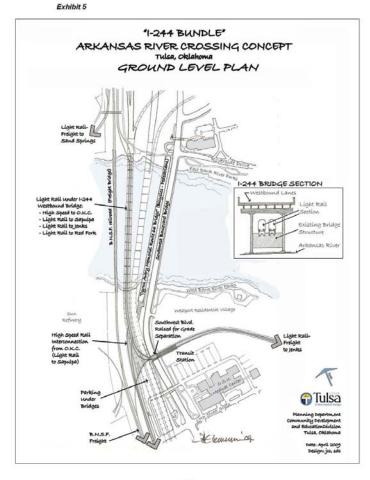
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#### TIGER Grant Recipient





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#### **TIGER Grant Application Process**

HSIPR Planning Documents

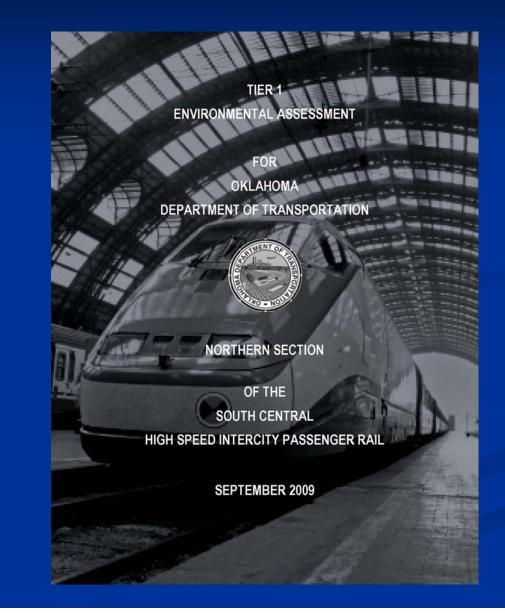
- Oklahoma Guideway Transportation System Feasibility Study (1989)
- High Speed Passenger Rail Feasibility Study (2001)
- HSIPR Environmental Assessment (2009)

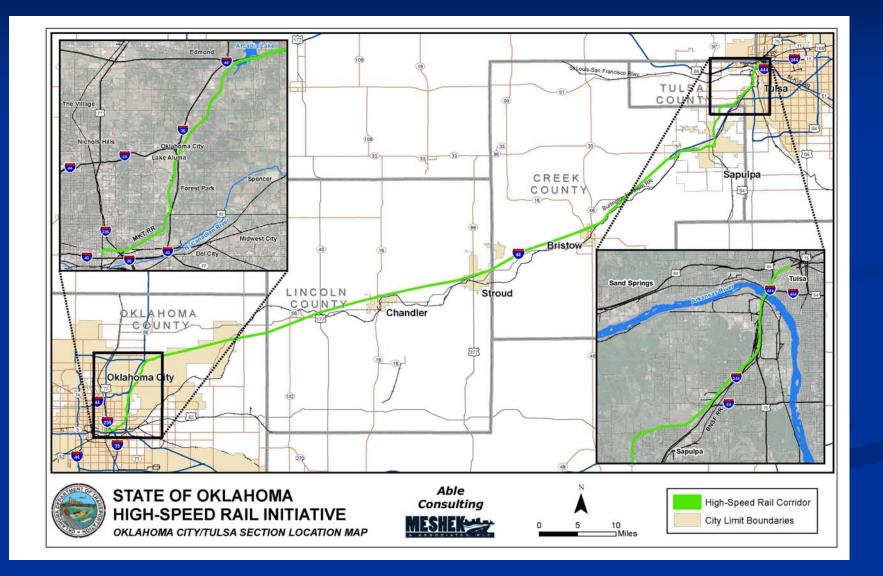


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#### FIGURE 1.2: SOUTH CENTRAL REGION HIGH SPEED RAIL CORRIDOR







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#### **TIGER Grant Application Process**

Conceptual Design Study

LRT Track and Bridge Design Report

Functional Plans

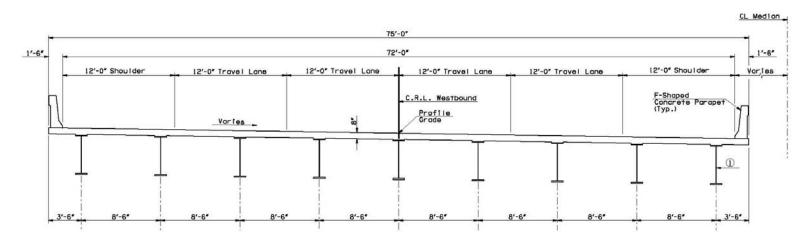


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## **Design Features**

Same Number of Lanes ■ 12' Wide Shoulders on Both Sides Capable of Adding Lanes in the Future Whenever adding Capacity is Warranted Same Entrance and Exit Ramps ■ 17<sup>th</sup> Street on the West Side ■ 7<sup>th</sup> Street on the East Side Connections to the Inner Dispersal Loop

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TYPICAL SECTION (Showing 4-Lane Section)

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## **Design Features**

Construct the Infrastructure Necessary to Accommodate:

#### HSIPR Rail

Connectivity to Future Track

Diesel Engines and Future Electrification

### LRT Rail

Connectivity to the BNSF Texas Lead Spur Line

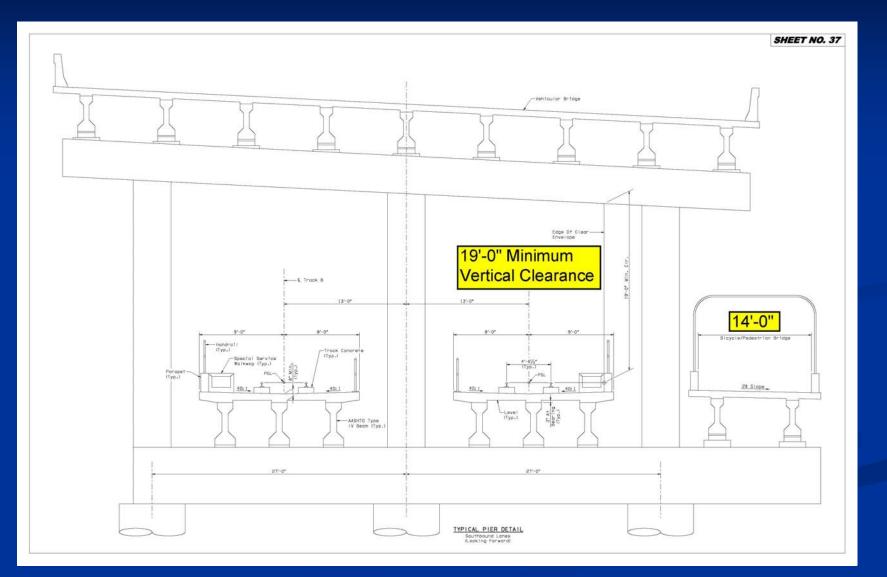
Typical LRT Vehicles and BUDD Cars

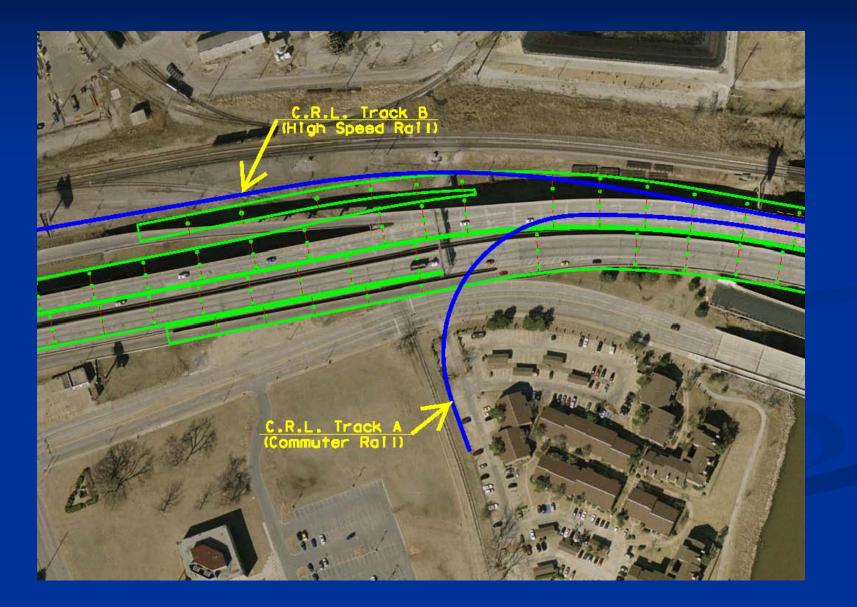
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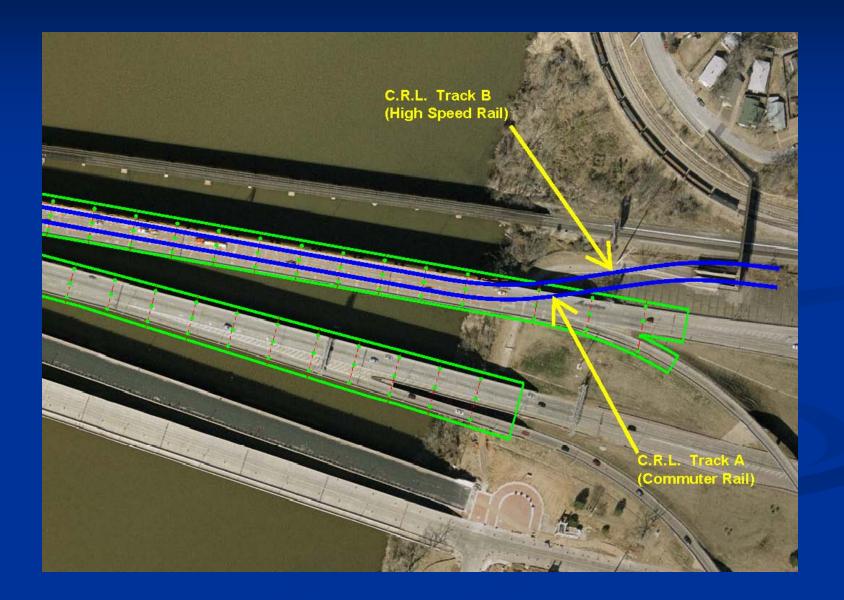
## **Design Features**

Construct the Infrastructure Necessary to Accommodate:

Dedicated Bicycle / Pedestrian Facility







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## **Construction Sequence**

2 Lanes Open in Each Direction

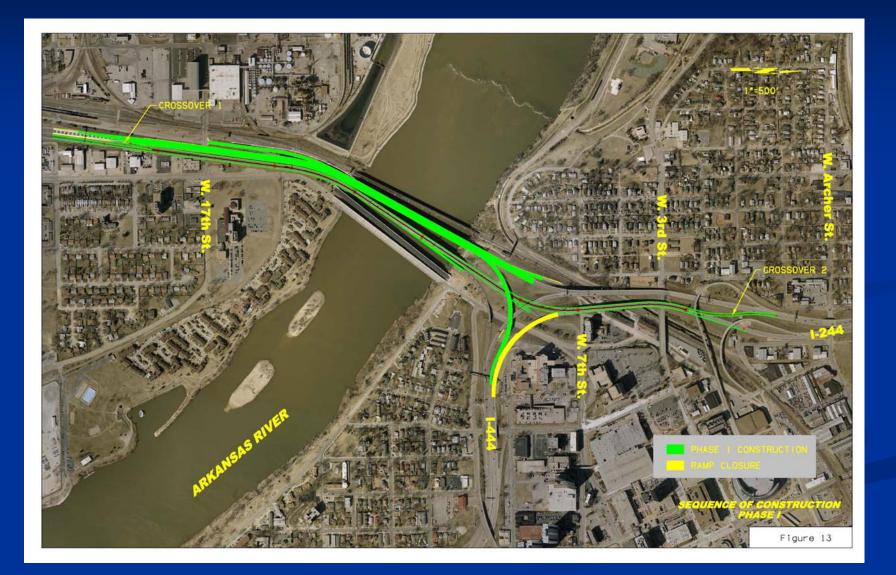
 At all Times During Construction

 Close West Bound Bridge

 Put Traffic on Existing East Bound Bridge

 Possible Temporary Ramp Closures

 West Bound SH-51 to I-244 Ramps
 7<sup>th</sup> Street to West Bound I-244 On-Ramp
 West Bound I-244 to 17<sup>th</sup> Street Off-Ramp
 17<sup>th</sup> Street to East Bound I-244 On-Ramp



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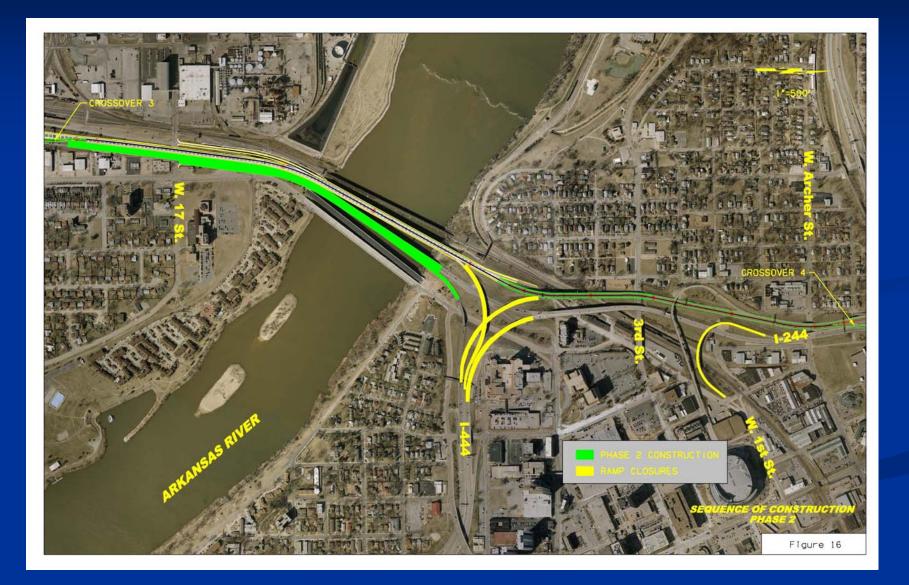
## **Construction Sequence**

Close East Bound Bridge

 Put Traffic on New West Bound Bridge

 Possible Temporary Ramp Closures

 West Bound SH-51 to I-244 On-Ramps
 West Bound I-244 to East Bound SH-51
 1<sup>st</sup> Street to East Bound I-244 On-Ramp
 17<sup>th</sup> Street to East Bound I-244 On-Ramp



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### **Construction Sequence**

 Temporary Closure of the Existing Trails
 On The East Bank
 From Cyrus Avery Plaza North to the BNSF Railway



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## **Project Challenges**

Accelerated Design Schedules
"Choke Point" on West Bank
Bounded by Southwest Blvd
Bounded by Historic Route 66 Bridge
BNSF Railway



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## **Project Considerations**

Endangered Species
 Interior Least Tern

Close Proximity to the Historic Route 66 Bridge

 Consultation with SHPO (State Historic Preservation Office)
 Other Consulting Parties



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### **Project Considerations**

Historic Route 66 Bridge Vibration Study

No Issues with Vibrations from the Proposed HSIPR and LRT Rail Lines

Recommendations for Demolition and Construction Techniques will be Used

Monitoring Vibrations During Construction Will Help Insure the Integrity of the Structure

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## **Project Considerations**

Historical Land Use

Elevated Risk of Finding Contaminated Material During Construction

Pro-active - Remediation Plan in Place Prior to Construction – Just in Case

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## **Project Considerations**

"Expect the Best, but be Prepared for the Worst"

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American Recovery and Reinvestment Act (ARRA) 2009 TRANSPORTATION INVESTMENT GENERATING ECONOMIC RECOVERY (TIGER) DISCRETIONARY GRANT APPLICATION FROM:

### OKLAHOMA

Reconstruct I-244 Arkansas River Multimodal Bridges with High Speed Passenger Rail, Commuter Rail, and Bicycle/ Pedestrian Components Tulsa, Oklahoma

September 15, 2009



Applicant Information Name of Applicant: Oklahoma Department of Transportation Address: 200 N.E. 21st Street, Oklahoma City, OK 73105

> Primary Point of Contact Information Name of Contact: Telephone Number: E-mail Address:

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### **TIGER Grant Application Process**

- Long-Term Outcomes
  - State of Good Repair
  - Economic Competitiveness
  - Livability
  - Sustainability
  - Safety

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### **TIGER** Grant Application Process

Job Creation and Economic Stimulus
 Influence on Economically Distressed Areas
 Ready for a Quick Start

Evaluation of Costs and Benefits
 Benefit / Cost Ratio

Innovation and Partnership

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### **TIGER Grant Application Process**

Original TDG Application
 Submitted in September 2009
 Included Both Westbound and Eastbound Bridges

Total Cost Estimate - \$ 131.97 Million
 State and INCOG Funds - \$ 37.24 Million

TDG Funds Requested - \$94.73 Million

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### **TIGER** Grant Application Process

Revised TDG Application
 Submitted in January 2010
 Included Westbound Bridge Only

Total Cost Estimate - \$86.48 Million
 State and INCOG Funds - \$37 Million

TDG Funds Requested - \$49.48 Million

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**Project to Replace the Westbound Bridge** Now Full Funded Preliminary Design is Underway Land Survey Geotechnical Studies Preliminary Engineering Environmental Process Nearing Completion

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What's Next ?

Final Design
R/W Acquisition
Utility Relocation

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### What's Next ?

### Construction

Targeted to Begin Spring of 2011

Expected to Be Complete by Fall of 2012

# I-244 Arkansas River Bridge Reconstruction



Email: environment@odot.org



www.okladot.state.ok.us/recovery Link: TIGER Discretionary Grant Application