

# Oklahoma Turnpike Authority



Darian L. Butler, P.E.  
Director of Engineering

# Oklahoma Turnpike Authority

- History of the OTA
- Turnpike Locations
- Organizational Structure
- Revenue
- Tolling
- Capital Plan Program
- **Driving Forward Update**
- Questions



# Oklahoma Turnpike Authority History

- The Oklahoma Turnpike Authority was created by act of the Twenty-First Oklahoma Legislature on April 30, 1947 (SB 225). The Act provided for the construction of a turnpike from Oklahoma City-to-Tulsa. The original four members of the Authority (in addition to the Governor) were mandated to represent the four counties to be served by the Turner Turnpike (Oklahoma, Lincoln, Creek, and Tulsa).
- The Turner Turnpike was opened to traffic at 3:00 p.m., May 16, 1953. Construction cost was \$38 million dollars.
- The people of Oklahoma voted in 1954 to “cross-pledge” the turnpike system. By this action they voted to commit the tolls collected on all turnpikes to pay the debt service, maintenance and expansion for the turnpike system.

# Turner Turnpike May 16, 1953





# Oklahoma Turnpike Authority General Information

- Oklahoma Legislature Authorizes All Routes
- OTA Studies Feasibility
- Transportation Commission Approves Routes

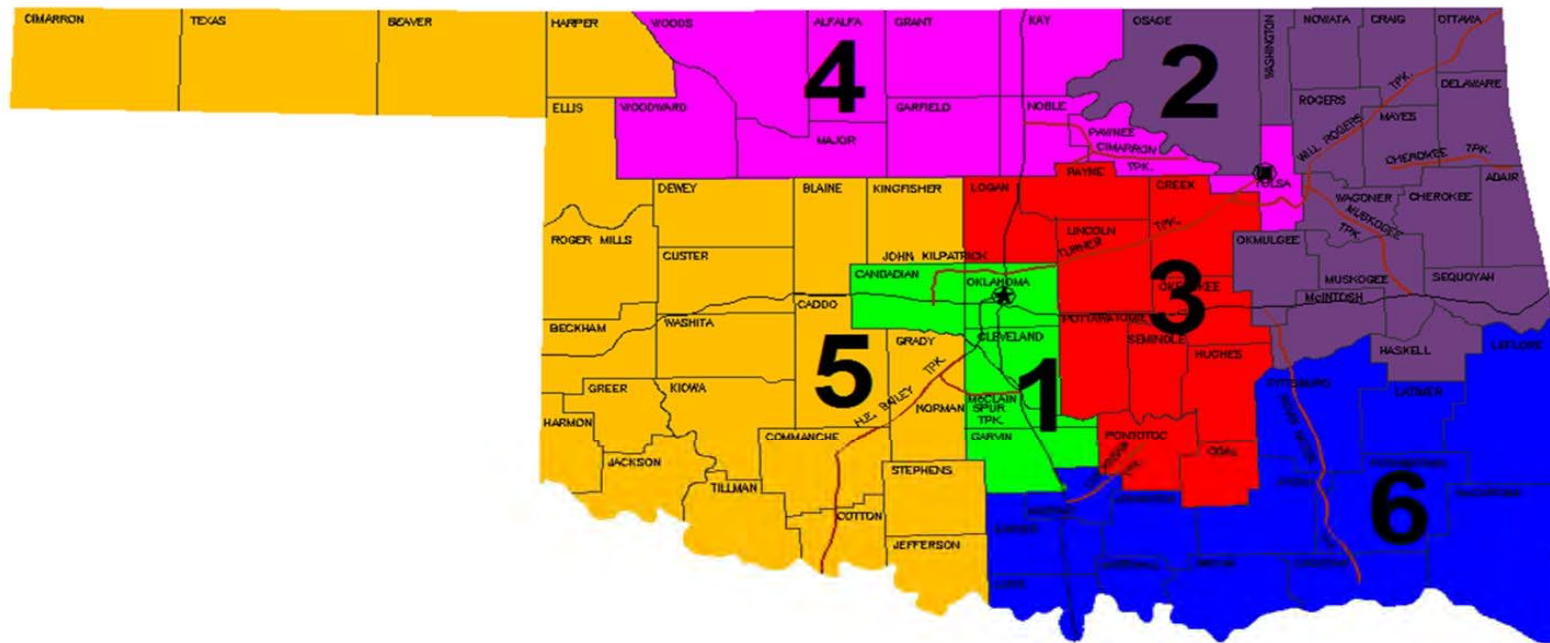
# Oklahoma Turnpikes

10 Turnpikes – Soon to be 12  
606 Roadway Miles  
789 Bridges  
33,000 Acres of ROW



# OTA Board of Directors

Member Ex-Officio: Governor Mary Fallin



OKLAHOMA TURNPIKE AUTHORITY  
STATE OF OKLAHOMA

OKLAHOMA TURNPIKE AUTHORITY  
DISTRICTS



# OTA Organization

EXECUTIVE DIRECTOR – TIM GATZ

3 Assistant Executive Directors

- David Machamer
  - Pikepass and Toll
- Alan Freeman
  - Finance, Revenue, Controller & IT
- David Murdock
  - Maintenance, Engineering and Construction

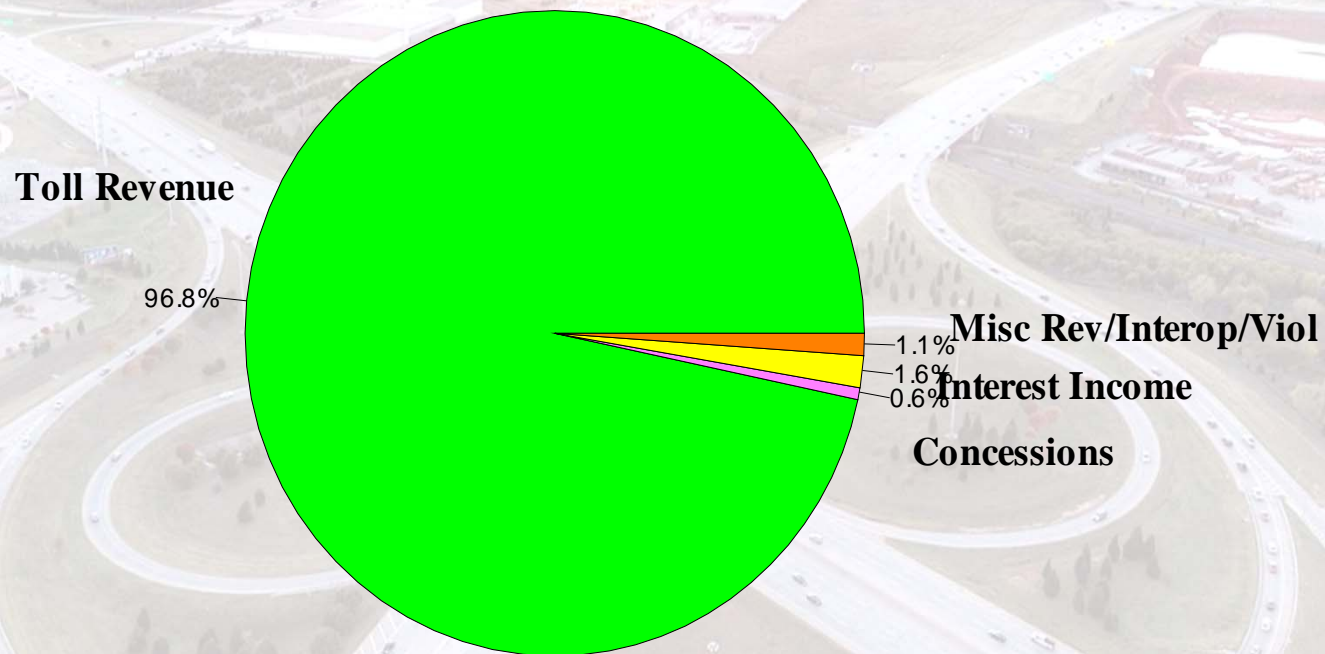


# Revenue Information

- ▶ OTA receives no state appropriations. No Tax Dollars!!!!
- ▶ Approximately 40% of revenue comes from out-of-state motorists (nearly \$105 Million in 2016)
- ▶ Approximately 38% of revenue provided by commercial carriers.

# Revenue Information

## 2017 Projected Revenue Sources



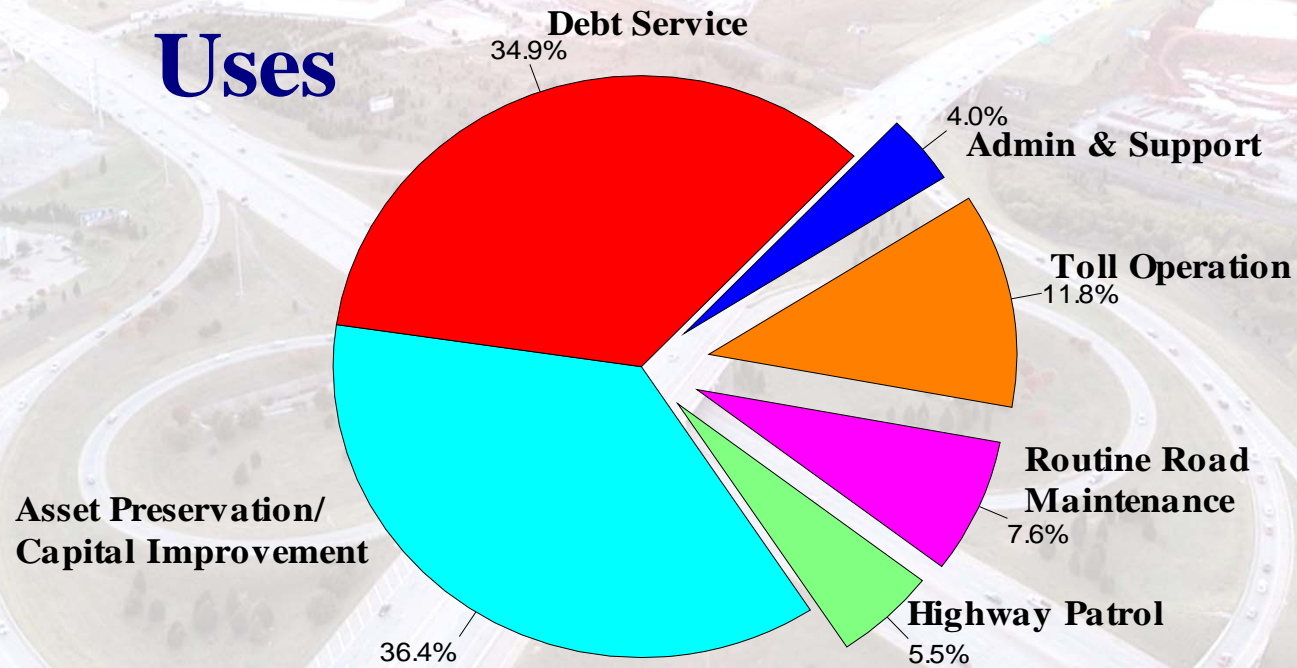
Total 2017 Sources=	\$307,987,000
Capital Fund carryover	<u>2,804,000</u>
Total	\$310,791,000



# Revenue Information

## 2017 Projected Revenue Uses

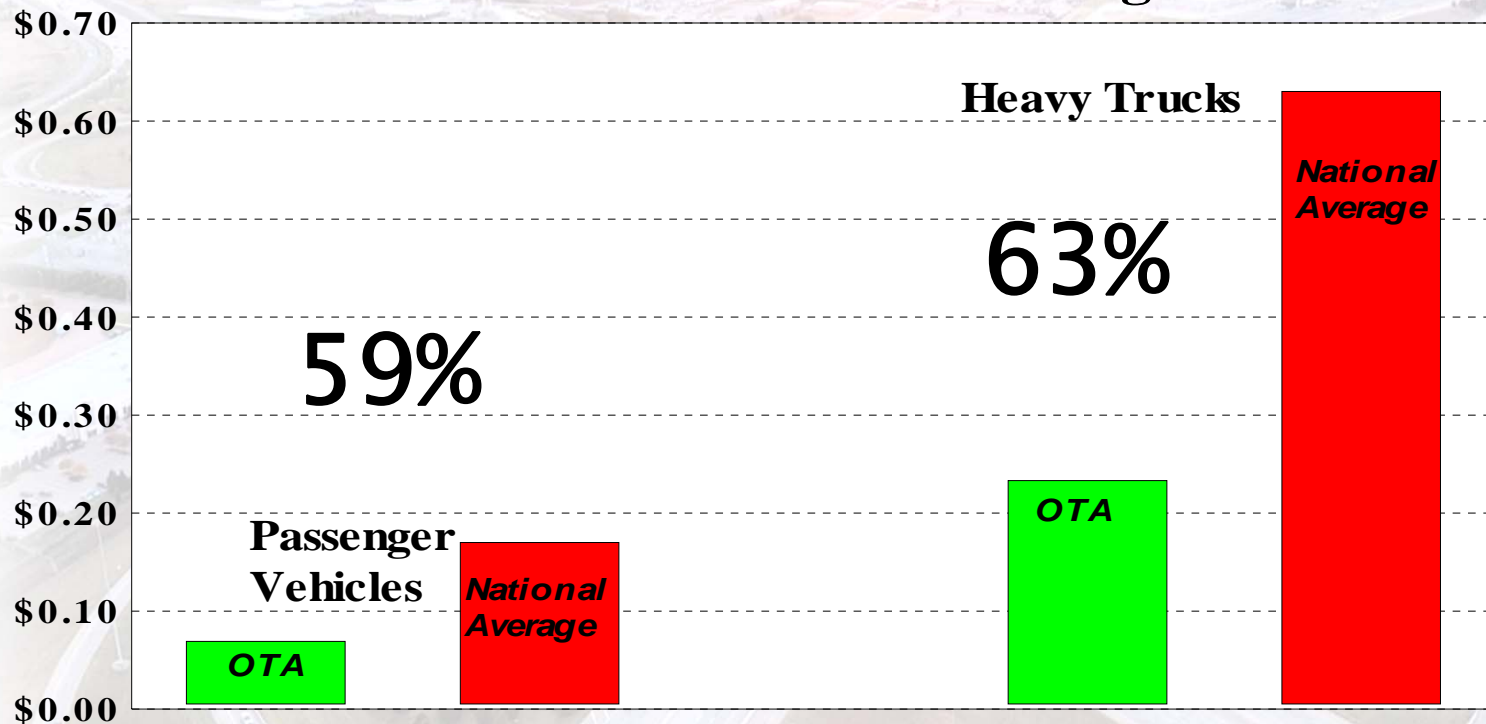
**Uses**



**Total 2017 Uses = \$310,791,000**

# Oklahoma Toll Rates

## Comparison of Oklahoma Per Mile Toll Rates with National Average\*



*As the graph above shows, on average, toll rates per mile on the Oklahoma Turnpike System are approximately 59% below the national average for passenger vehicles and 63% below the national average for heavy trucks*

*\*As of 10/26/2015*



# Toll Collection



“Blazing Saddles”



# Toll Collection



***PIKE*PASS**



# All–Electronic Tolling

Plate Pay is Oklahoma's pilot of next generation "no stop" tolling. There are no cash lanes and invoices for system usage are sent to turnpike users who do not have a PIKEPASS. The first exit to have the system installed is the Peoria/Elm Interchange on the Creek Turnpike in Jenks, operational as of January 2017.



For more information go to:  
[www.platepay.com](http://www.platepay.com)



# Interoperability



Pikepass can now be used on the Kansas Turnpike and on all toll roads in the Dallas–Ft. Worth area. Transactions will be deducted from your Pikepass account.



**NORTH TEXAS TOLLWAY AUTHORITY**

End of 2018

- Texas
- Florida
- Georgia
- Carolinas



# Toll Collection

2016 Transactions



50 Million



1.2 Million

***PIKE*PASS**

135 Million



TBD

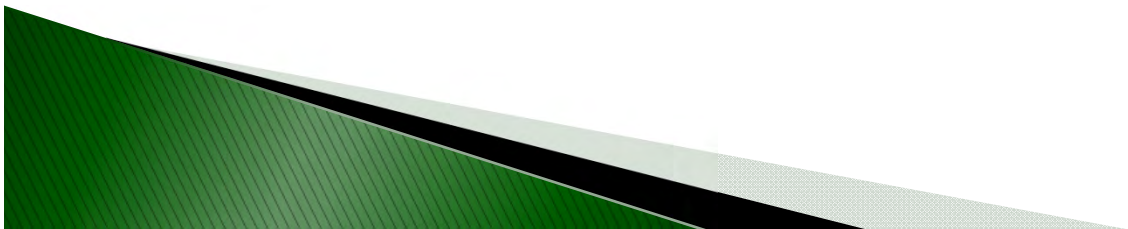


**TollTag**

2.2 Million

# Tolling Statistics

Active <i>PIKEPASS</i> tags	1,753,211
Active <i>PIKEPASS</i> accounts	679,546
Active NTTA Toll Tags	3,871,183
Active KTA Toll Tags	634,173
Highest Percentage <i>PIKEPASS</i> Usage on average	
- Kilpatrick Turnpike at 87%	
- System Average 75%	



**“The Godfather”  
Sonny Corleone at Toll Booth**



***PIKEPASS – Faster Safer Easier***



# OTA 5-Year Capital Plan

- 2017–2021 (\$473 Million = \$94.6 million per year)
- Reprioritize Plan Annually (2018–2022)
- Collective Effort
  - Maintenance Division
  - Engineering Division
  - Construction Division
  - Finance/Revenue
  - General Engineering Consultant
- Authority Approval in December
- Solicitations for Design & CM Services

DRIVING FORWARD PROGRAM

OCTOBER 29, 2015

\$892 MILLION PROGRAM

# DRIVING FORWARD

INVESTING IN OKLAHOMA'S FUTURE

**[DrivingForwardOK.com](http://DrivingForwardOK.com)**

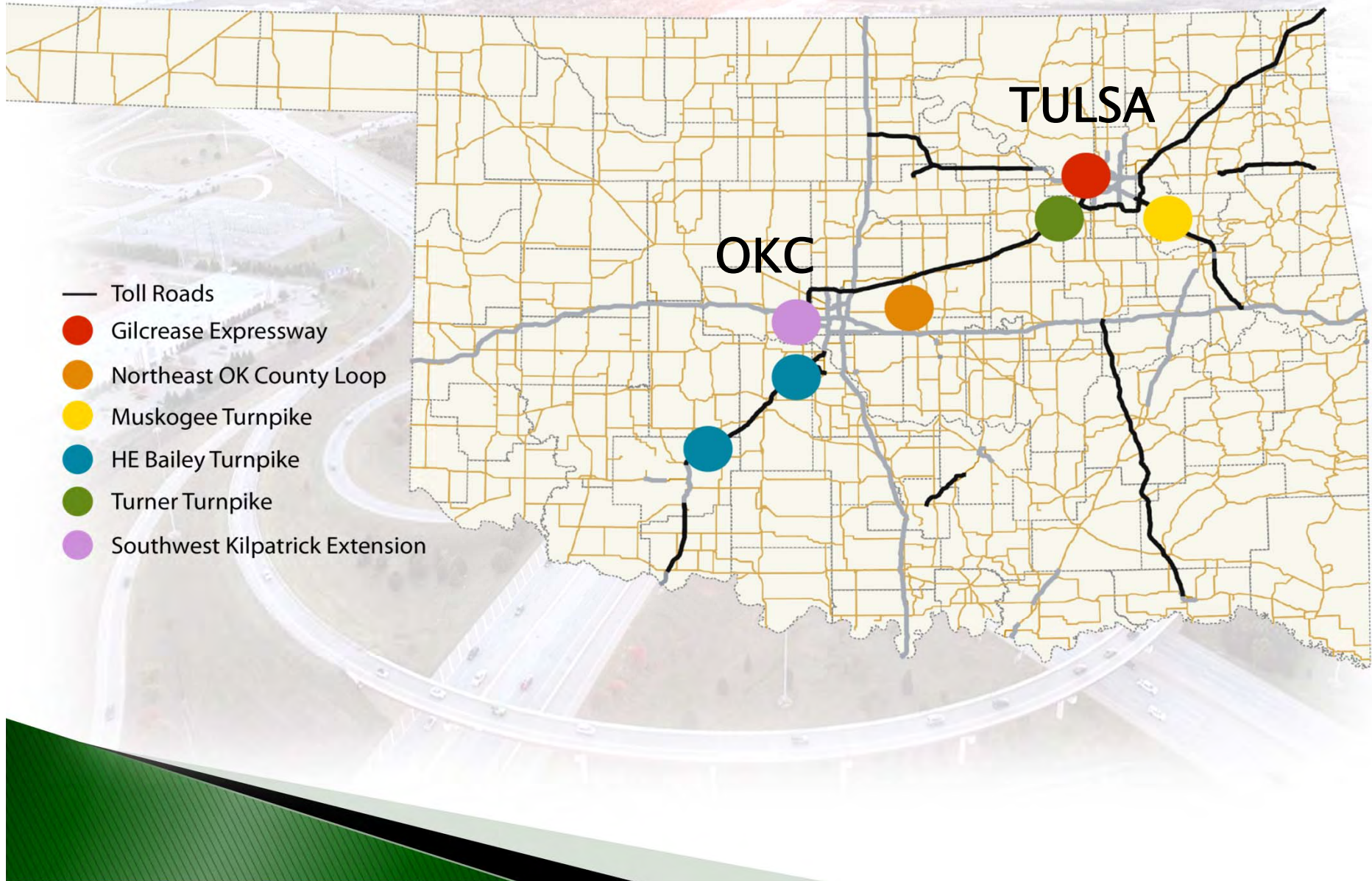
**#DrivingForwardOK**



# Project Overview

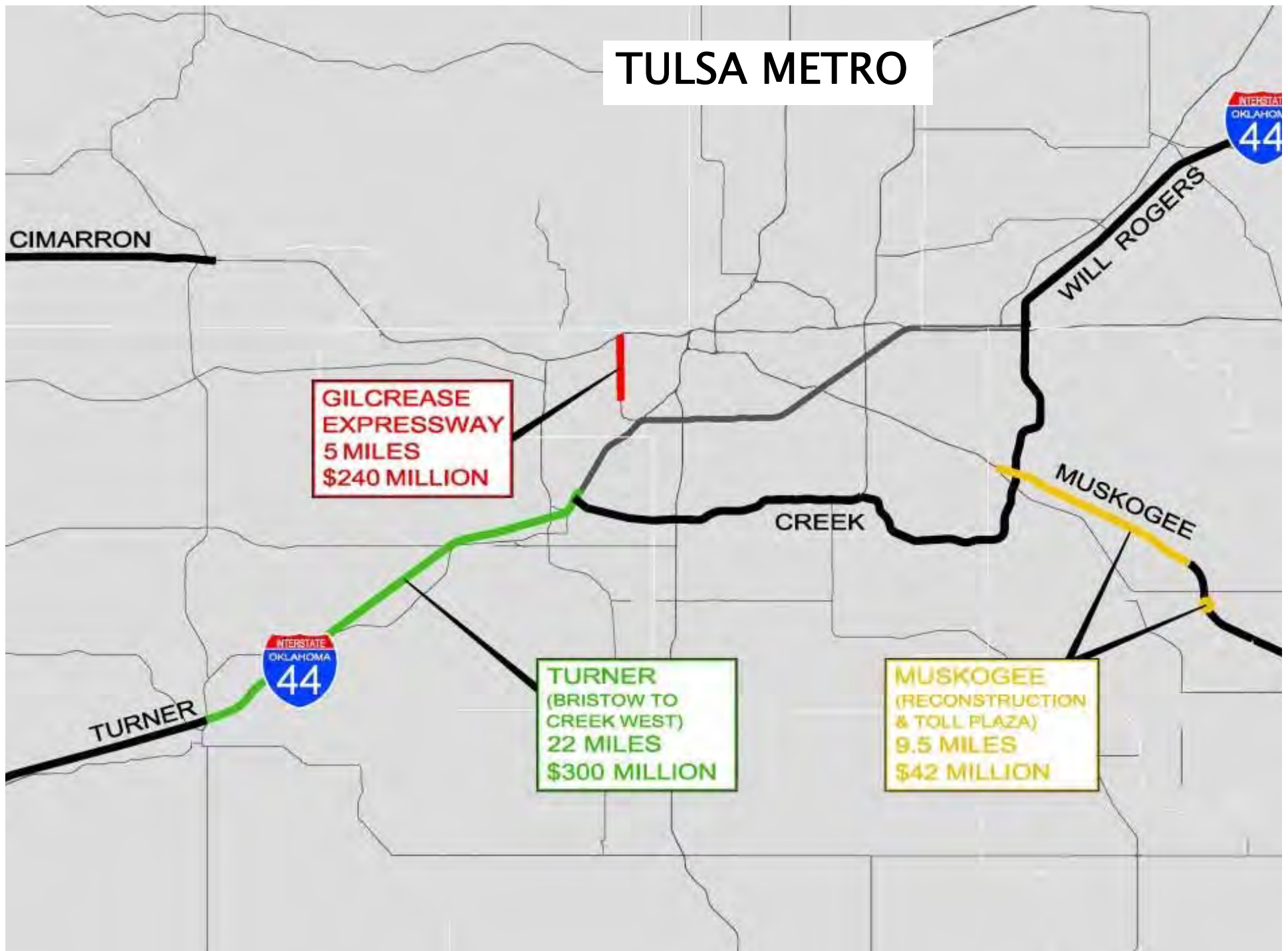
- Six Corridors:
  - Improve Safety
  - Modernize Roadways and Facilities
  - Relieve Congestion on ODOT's system
- Does NOT affect the Oklahoma State Budget.
- Users of the system will pay for these projects.
- Construction on the turnpike initiative began in 2016 and is expected to be completed by the end of 2020.
- Program Manager: Poe and Associates

# Projects

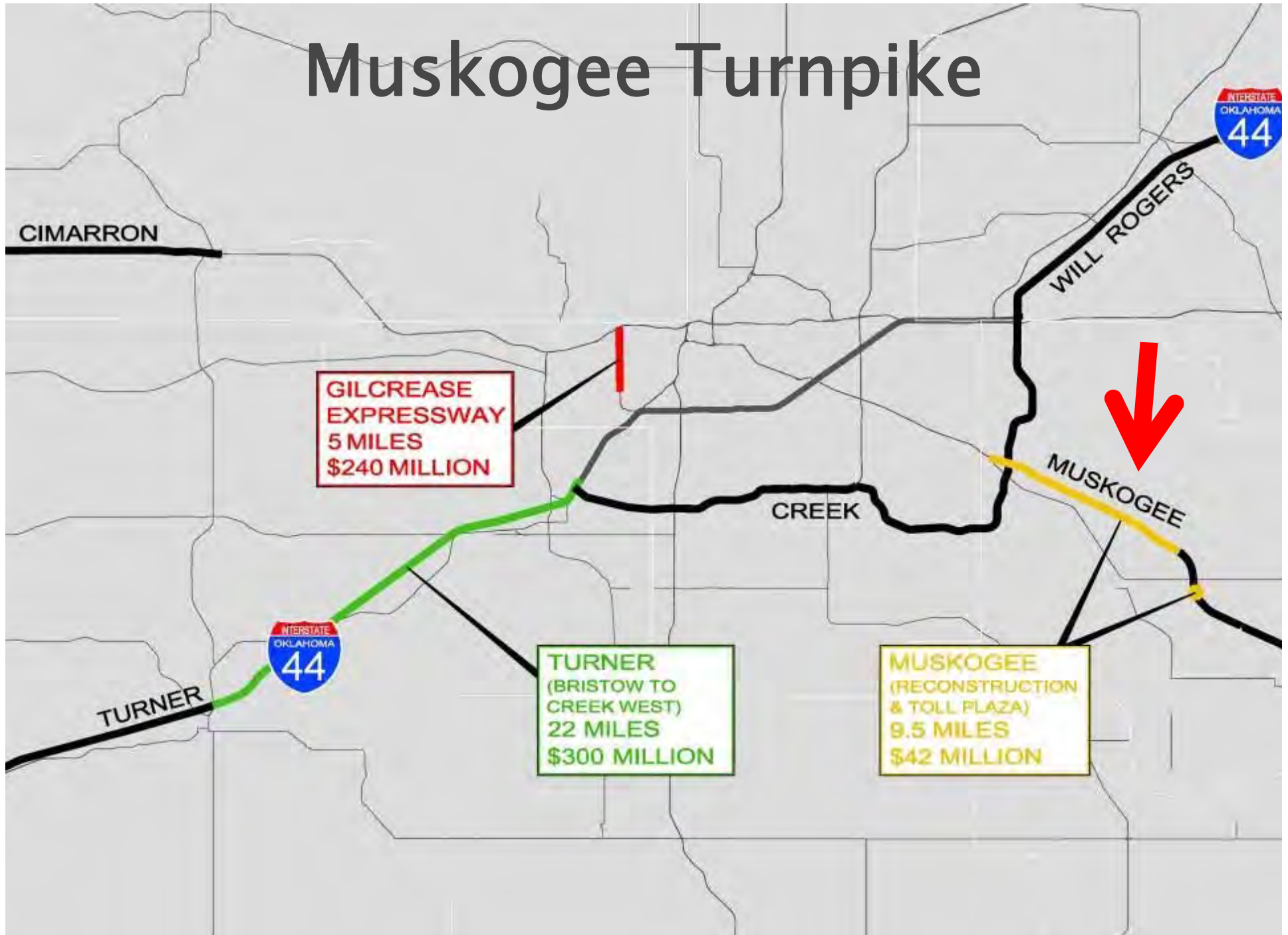




# TULSA METRO



# Muskogee Turnpike





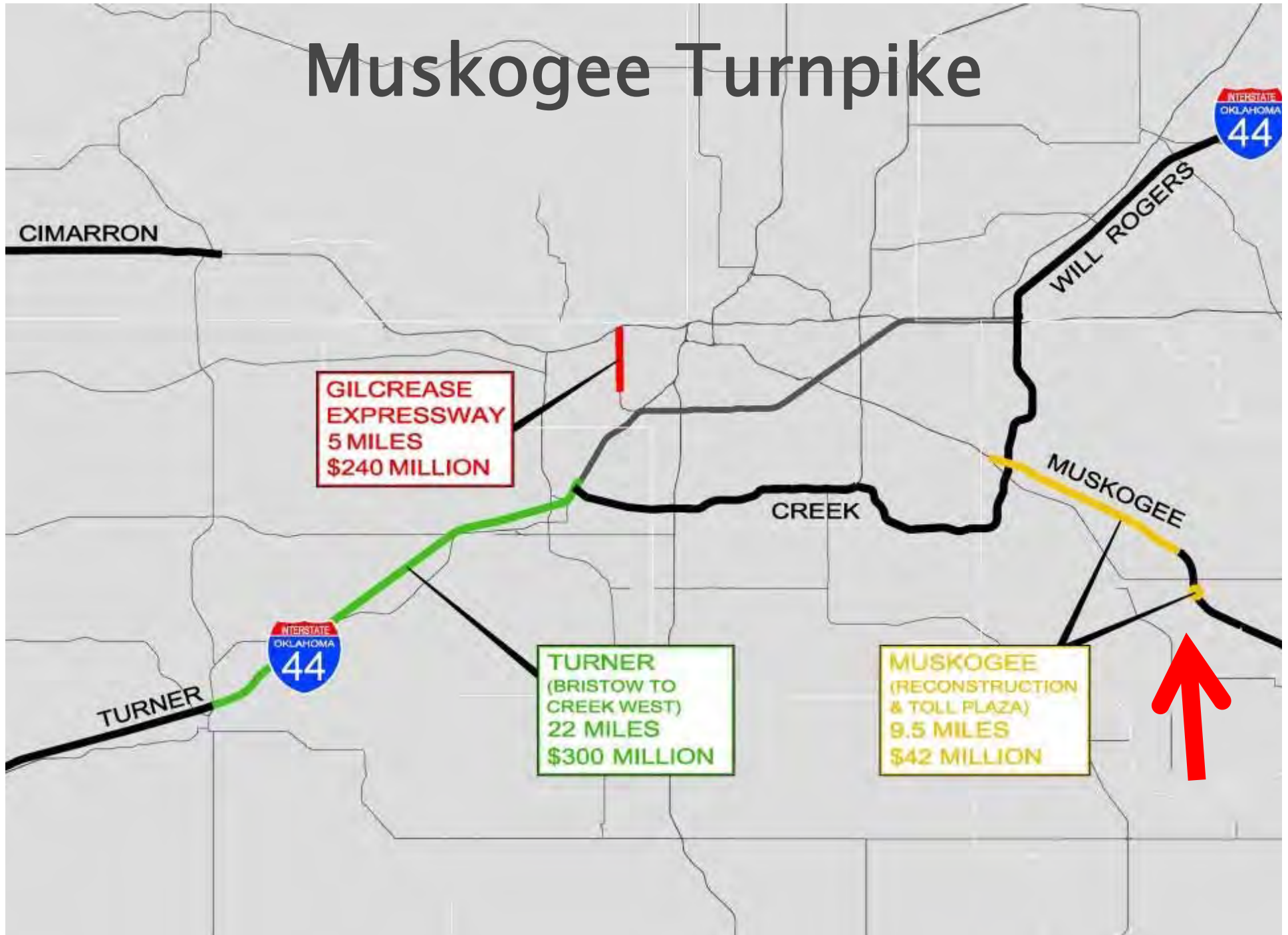


# Muskogee Turnpike

- Full Depth Concrete Reconstruction
- 9.5 Miles
- \$28.8 Million
- Designer – Craig & Keithline
- Contractor – Koss
- OSR – Benchmark
- Construction start: May 2016
- Completion – October 2017
- Major quantities:
  - 425,000 SY Paving
  - 530,000 SY Separator Fabric
  - 424,000 SY Pavement removal
  - 47,000 FT Long. Barrier Finish
  - 240,000 FT Traffic Stripe



# Muskogee Turnpike





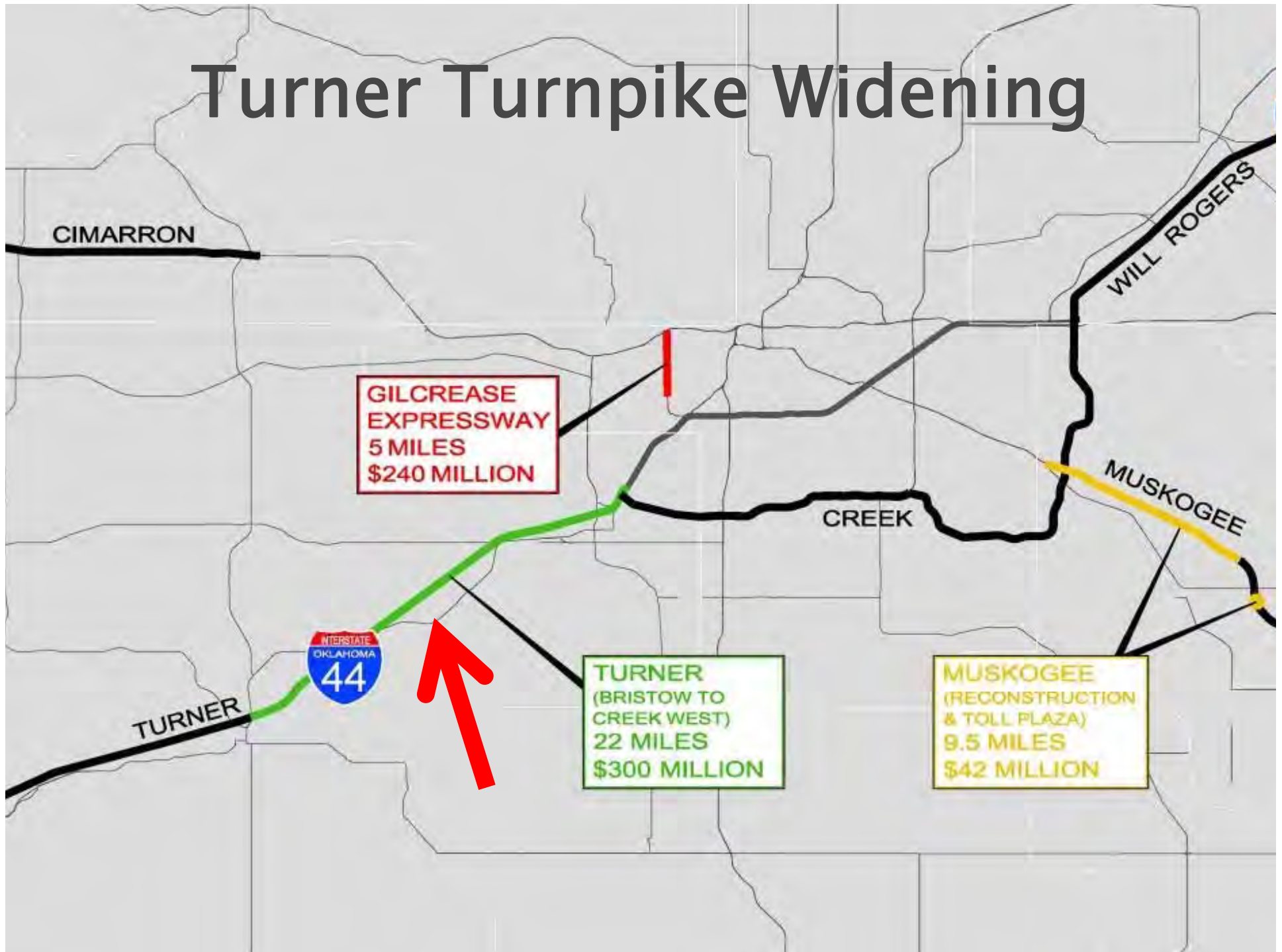


# Muskogee Turnpike

- Coweta Toll Plaza Modernization
  - Pikepass lanes in the middle
  - Remove stop condition from mainline
- \$12.6 Million
- Designer – Cowan Group
- Contractor – Crossland
- OSR – EST
- Construction Start – August 2016
- Completion – November 2017
- Major quantities:
  - 48,000 SY Concrete Paving
  - 56,000 SY Separator Fabric
  - 12 Miles Electrical Conduit
  - 53,000 FT Traffic Stripe



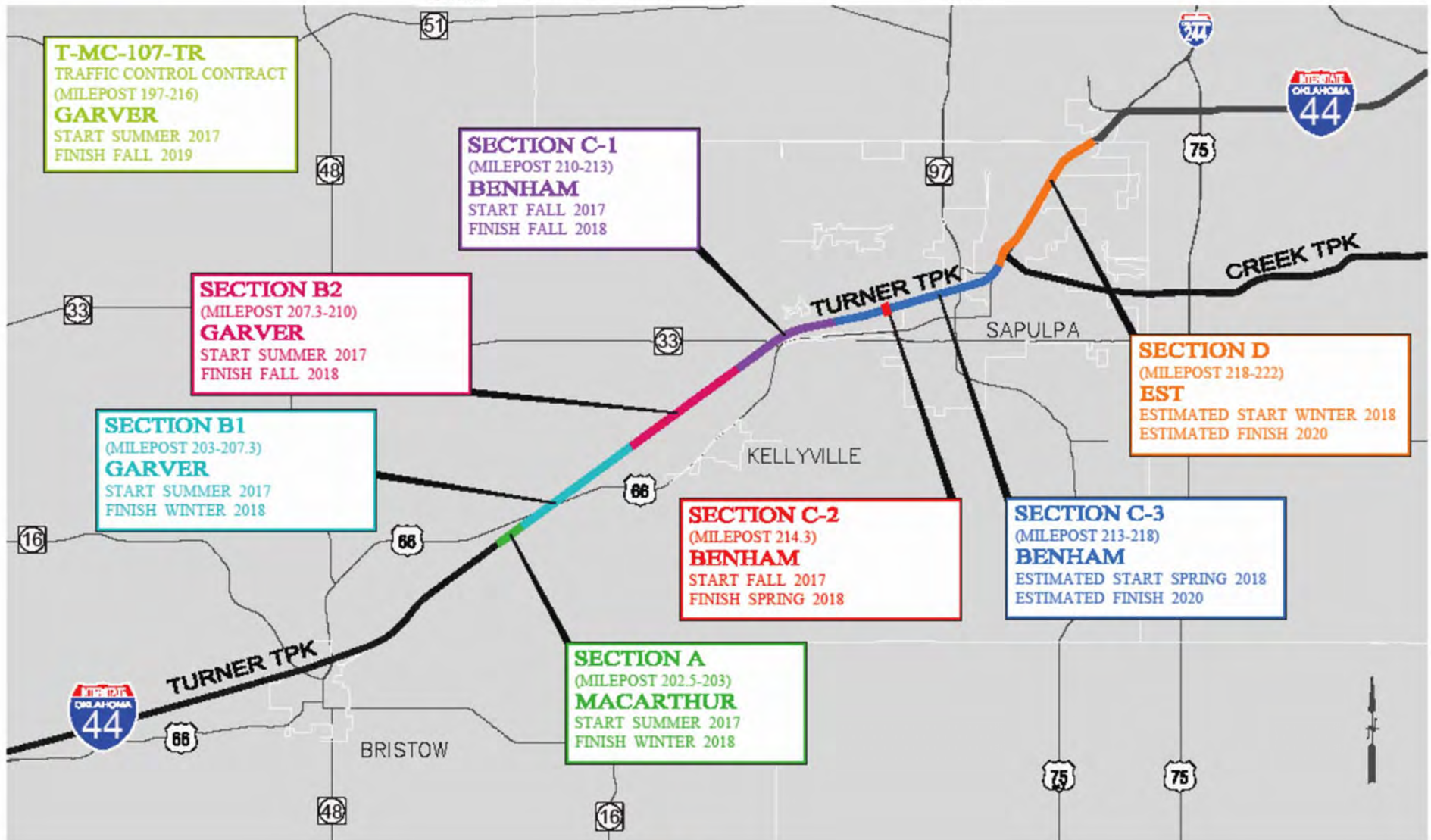
# Turner Turnpike Widening





# Turner Turnpike Widening Design

- Symmetrical Widening to 6 lanes from Bristow to Tulsa
- 19.5 Miles
- \$300 Million
- Designers:
  - MacArthur – MP 202.5–203 Plans Complete
  - Garver – MP 203–210 Plans Complete
  - Benham – MP 210–218 Plans Complete
  - EST – MP 218–222 50% Plans October
- ROW Agents:
  - Pinnacle
  - Universal

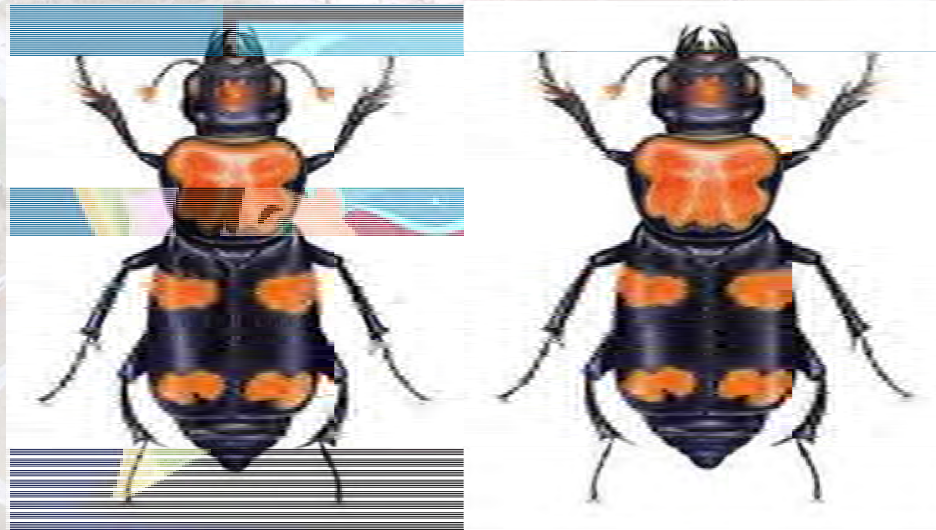




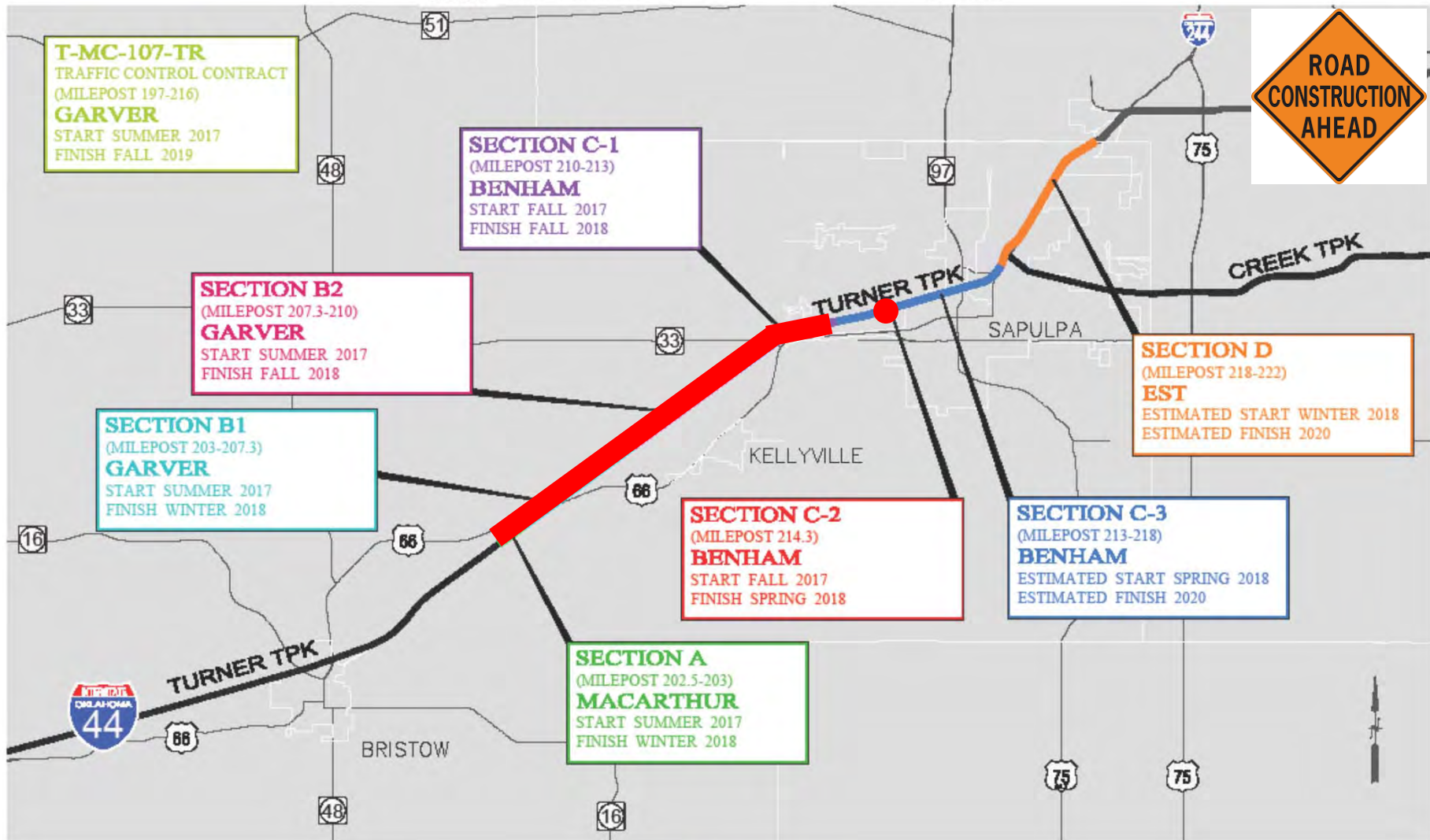
# Turner Turnpike Widening

- Summary of design features:
  - Bridge Structures
    - 3-TPO Bridge Boxes
    - 9-TPO Bridges
    - 7-TPU Bridges
  - 3 Interchanges
    - SH-33 Interchange Modification
    - Sapulpa Interchange Modification
    - SH-66 Interchange at the east end
- Challenges
  - Widening to 6 lanes while maintaining four lanes of traffic at all time
  - Construction sequencing to allow contractor room to work safely and keep traffic moving
  - Relocation of fiber line
  - Right of entry for geotechnical testing
  - Designing the extension of old bridge boxes under extensive fill
  - Relocation of ROW fence prior to construction
  - Coordination of multiple contractors and designers
  - Multiple utility relocates
  - Nationwide permit for the 404
  - Environmental Impacts:
    - Stream and wetland credits purchased
    - Environmental impacts related to American Burying Beetle resulted in nearly \$2 million in mitigation costs

# American Burying Beetle









# Turner Turnpike Widening

- Construction
  - First 10.5 miles under construction
  - Construction Management Team
    - EST
      - CEC
      - Freese & Nichols
    - Atkins
      - SRB
      - C&K
      - Garver







# Turner Turnpike Widening

- Projects Update

- T-MC-107A/B-1
  - MP 202.5–207.3 (4.8 Mi)
  - \$47,886,831
  - Sherwood
  - Construction Start: August 2017
  - Completion: November 2018
- T-MC-107B-2
  - MP 207.3–210 (2.7 Mi)
  - \$27,193,505
  - Sherwood
  - Construction Start: August 2017
  - Completion: September 2018







# Turner Turnpike Widening

- T-MC-107C-1
  - MP 210-213 (3.0 Mi)
  - \$32,574,697
  - Duit
  - Construction Start: October 2017
  - Completion: October 2018
- Major Quantities for 10.5 Miles
  - 1,800,000 CY Excavation
  - 712,000 SY Concrete Paving
  - 305,000 TONS Asphalt Paving
  - 751,000 SY Separator Fabric
  - 45,000 LF Barrier Wall
  - 357,000 LF Traffic Stripe
- Total Cost for 10.5 miles = \$107,655,033
- \$10.2 Million/Mile







# Turner Turnpike Widening

- T-MC-107C-2
  - TPU Bridge 78.8
  - \$3,610,000
  - Manhattan Road and Bridge
  - Construction Start: September 2017
  - Completion: February 2018
- T-MC-107C-3
  - MP 213-218 (5.0 Mi)
  - Bids opened October 5th
    - Sherwood (Apparent Low Bidder)
    - \$53,126,507.43
- T-MC-107D MP 218-222 (4.0 Mi)
  - 50% plans due October





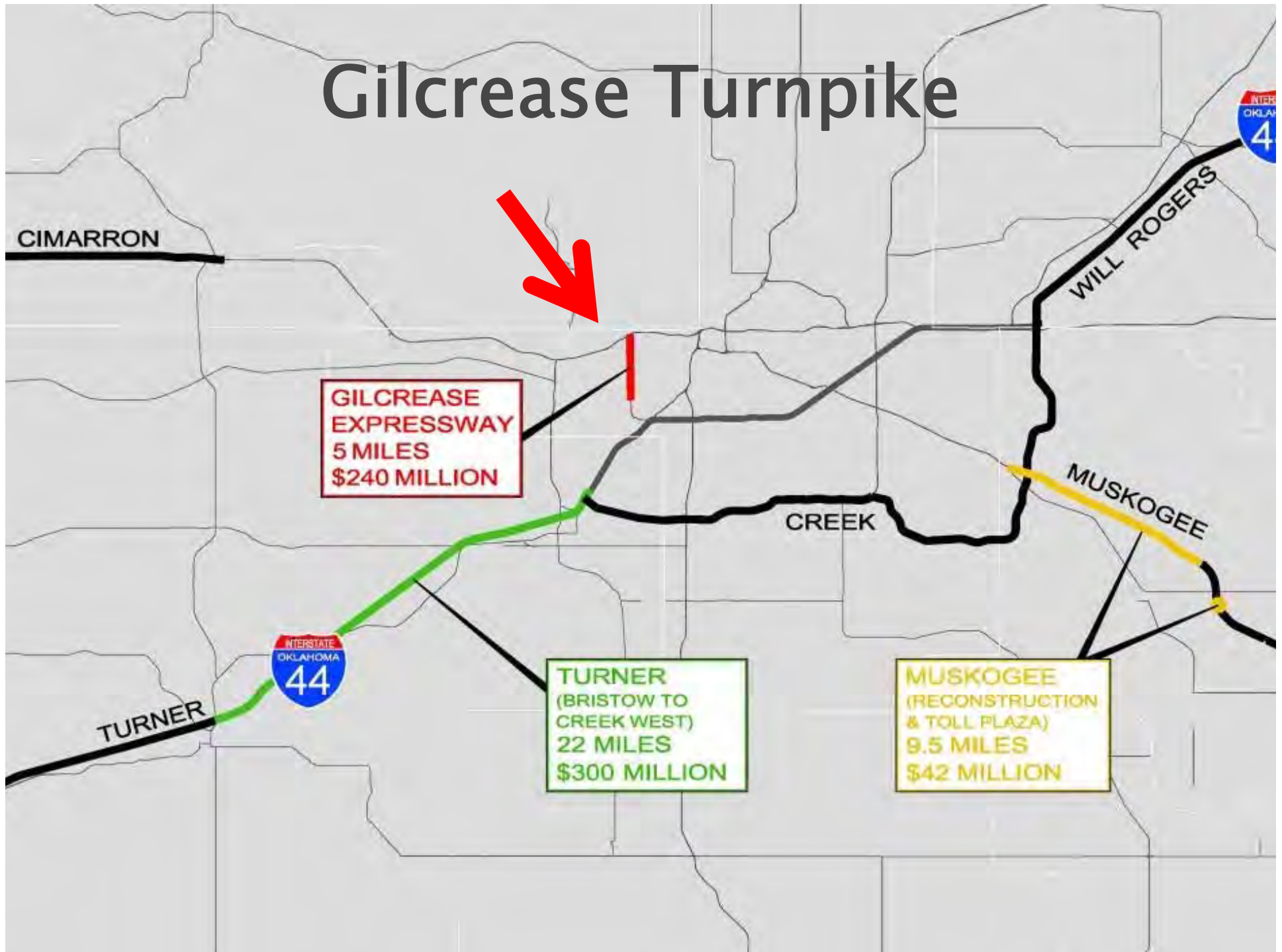
# Turner Turnpike Widening

- T-MC-107TR
  - Traffic management for entire Turner corridor
  - Advanced Work Zone
  - \$6 Million
  - Smart Work Zone
  - Dynamic Message Board
  - Highway Patrol
  - Courtesy Vehicle
    - Wrecker
    - Fluids (Gas)
    - Jumper cables
    - Air for tires
    - 24 hour assistance
    - 62 vehicles serviced



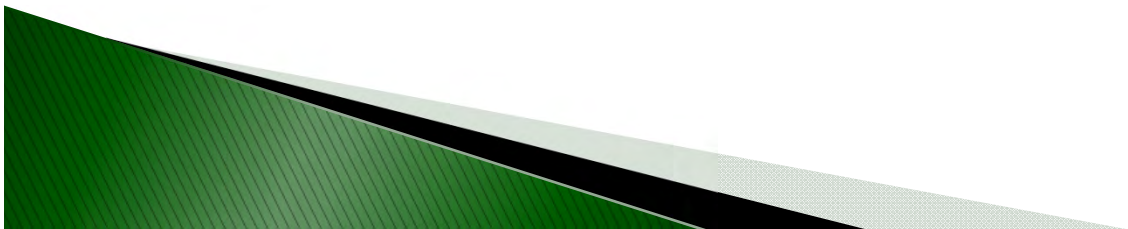


# Gilcrease Turnpike



# Gilcrease Turnpike

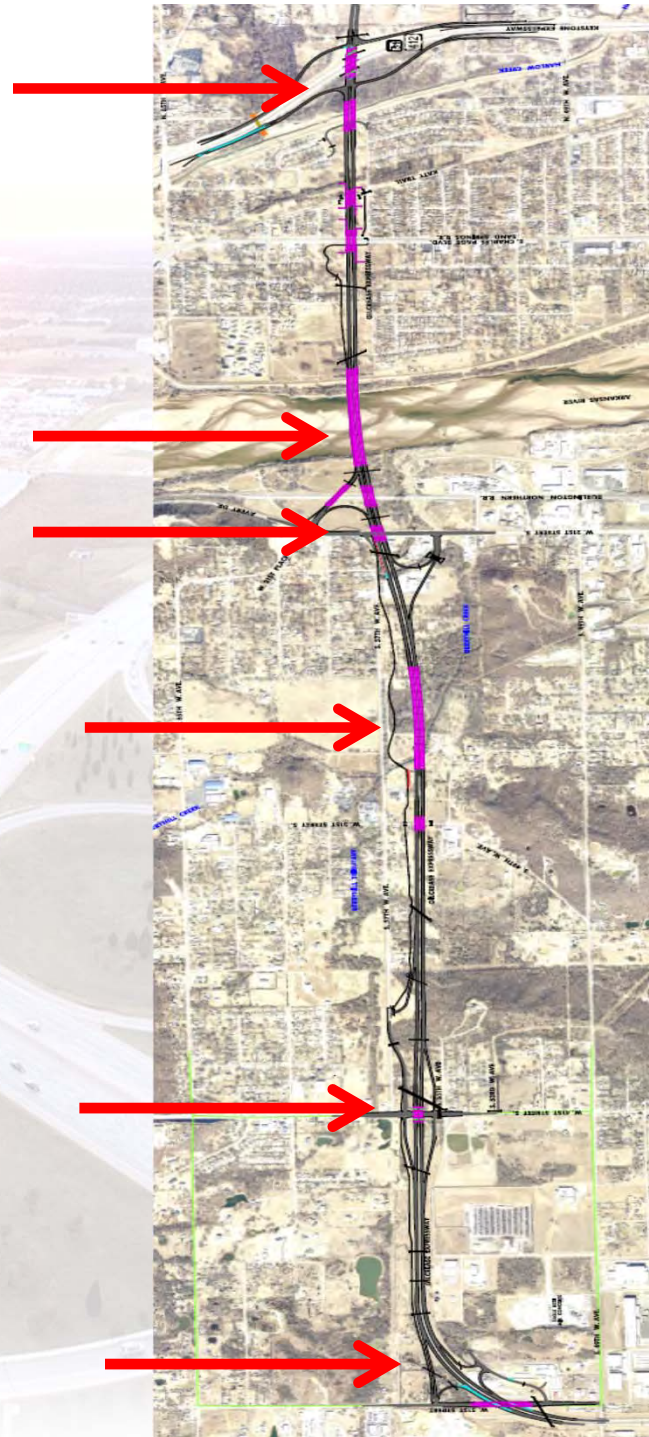
- New Alignment – 5.0 miles
- West Side of Tulsa
- Connects I-44 and US-412
- \$240 Million
- Partners
  - City of Tulsa
  - Tulsa County
  - ODOT
  - INCOG
  - *Private Construction Partner*
- Designer: Garver
  - 50% Plans by October
  - Final plans May 2018
- ROW Agent: Universal





# Gilcrease Turnpike

- Summary of design features:
  - 20 bridges / 3 boxes
  - Arkansas River Bridge
  - Berryhill Creek Bridge
  - 4 Interchanges
    - W. 51<sup>st</sup> Street South
    - W. 41<sup>st</sup> Street South
    - W. 21<sup>st</sup> Street South
    - US-412

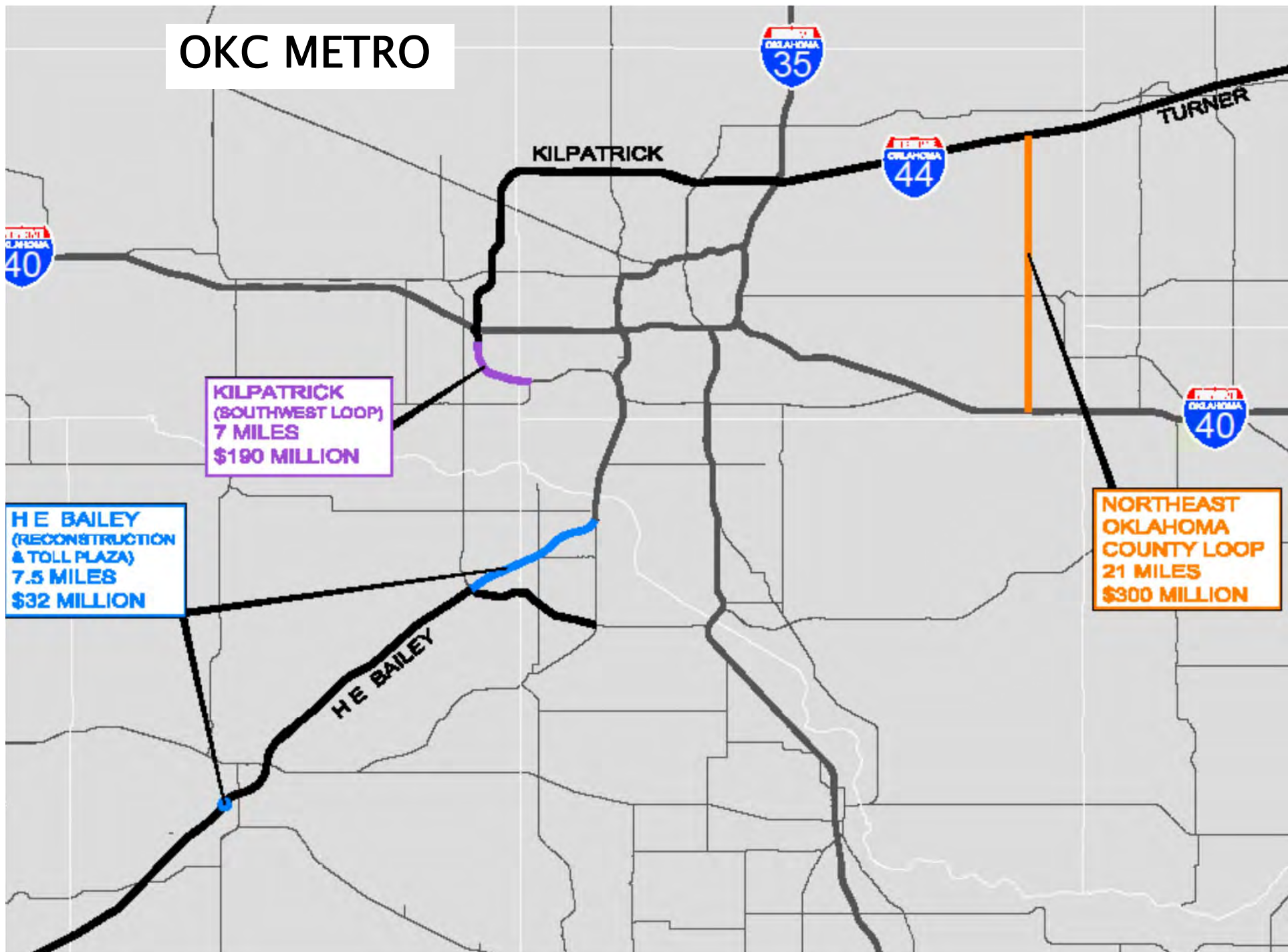


# Gilcrease Turnpike

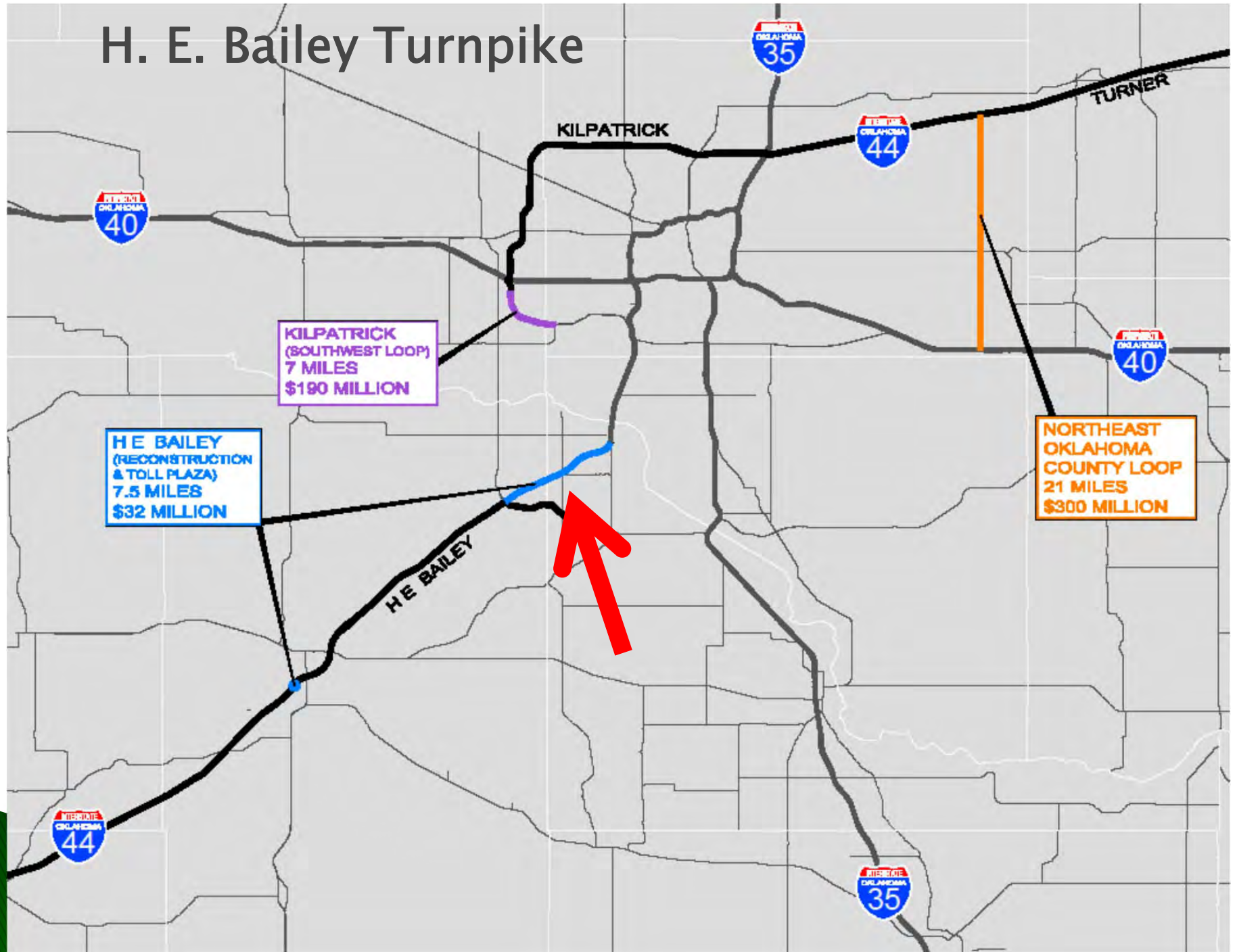
- Challenges:
  - Floodplain impacts and potential mitigation
  - Bridges over BNSF & Sand Springs RR
  - Coordination with numerous entities
  - Interchange and development at SW 51<sup>st</sup> Street
  - Avoiding the historic Clary House
  - Vertical grades at the river crossing and still providing adequate access ramps at 21<sup>st</sup> Street
  - Avoidance of wetlands and streams to facilitate USACE permit
  - Multiple funding partners
  - Incorporation of the trail along the corridor
  - Utilities
  - Individual Permit for Arkansas River bridge
  - Nationwide Permit for remainder of corridor
  - Environmental Impacts:
    - Wetlands, Streams, Protected Species (ABB and Arkansas River Shiner) and Noise



# OKC METRO



# H. E. Bailey Turnpike





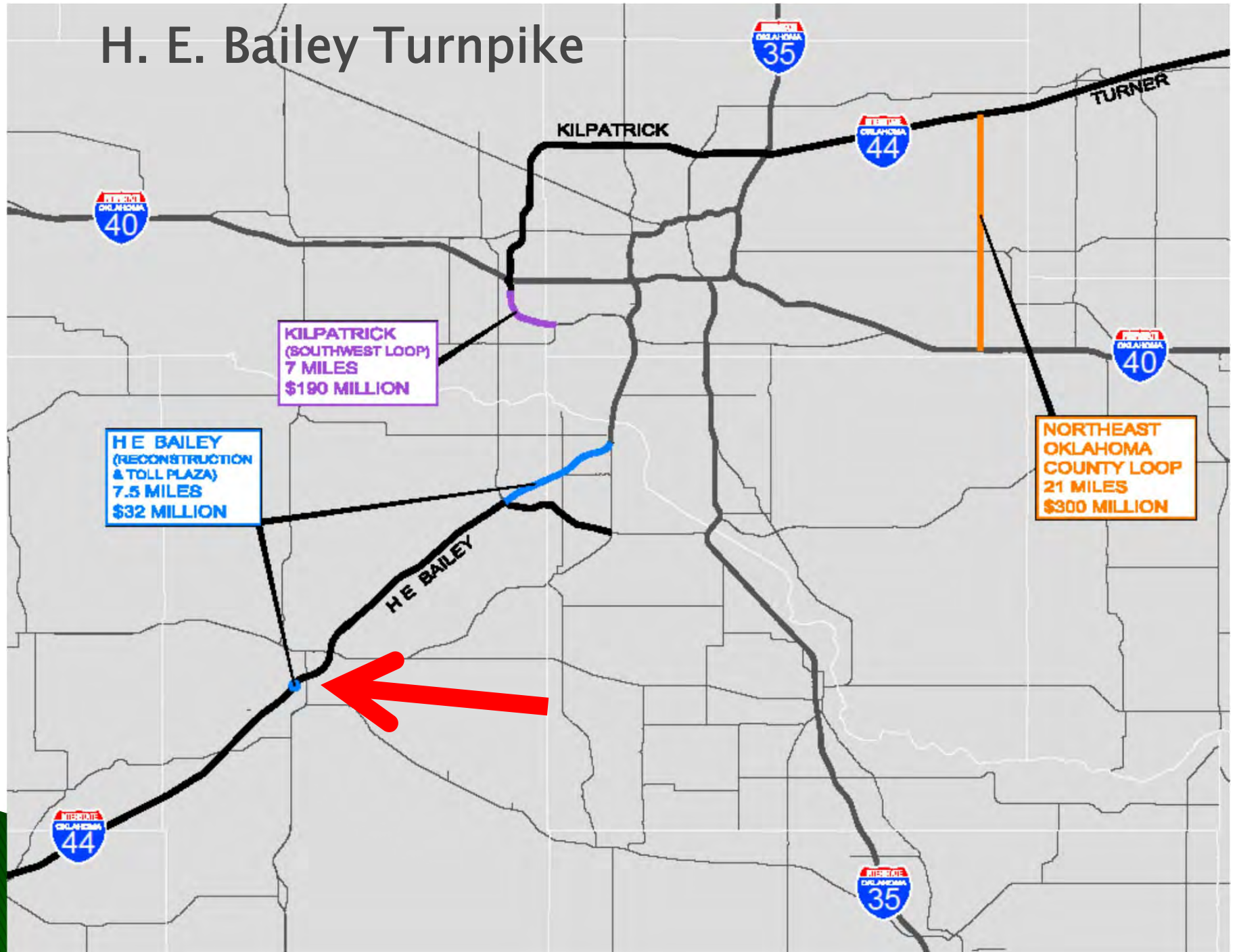


# H. E. Bailey Turnpike

- Full Depth Concrete Reconstruction
- 6.0 Miles
- \$17.3 Million
- Designer – Triad
- Contractor – Duit/TTK
- OSR – Atkins
- Construction Start – July 2016
- Completion – August 2017
- Major quantities:
  - 283,000 SY Concrete Paving
  - 295,000 SY Separator Fabric
  - 295,000 SY Cement Treated Base
  - 171,000 SY Pavement Removal
  - 30,000 LF Barrier Wall Refinish
  - 165,000 FT Traffic Stripe



# H. E. Bailey Turnpike





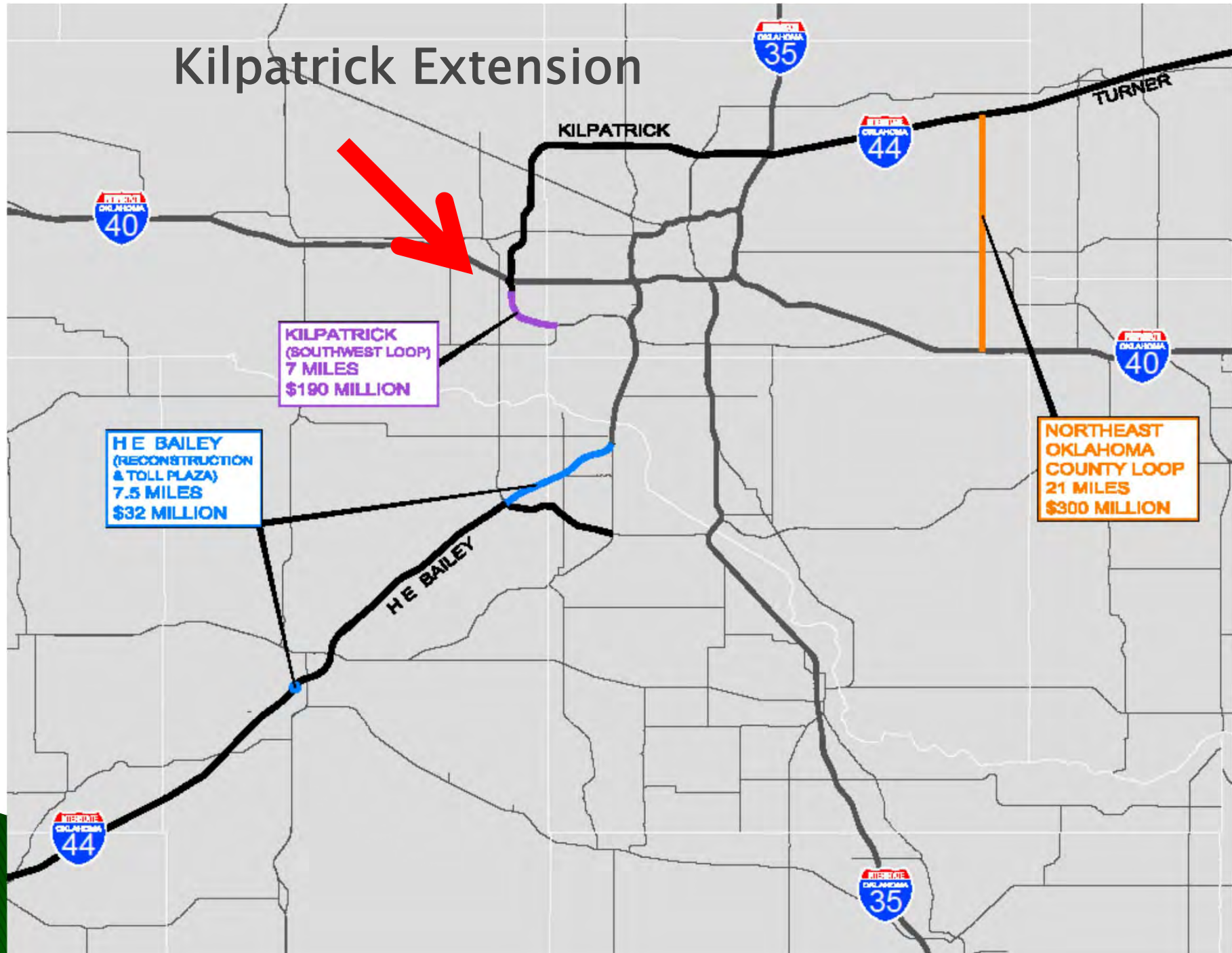


# H. E. Bailey Turnpike

- Chickasha Toll Plaza Modernization
- \$14.8 Million
- Designer – Atkins
- Contractor – Duit/TTK
- OSR – CEC
- Construction Start – August 2016
- Completion – January 2018
- Major quantities:
  - 92,000 SY Concrete Paving
  - 189,000 SY Separator Fabric
  - 165,000 FT Traffic Stripe
  - 3.6 Miles of Electrical Conduit



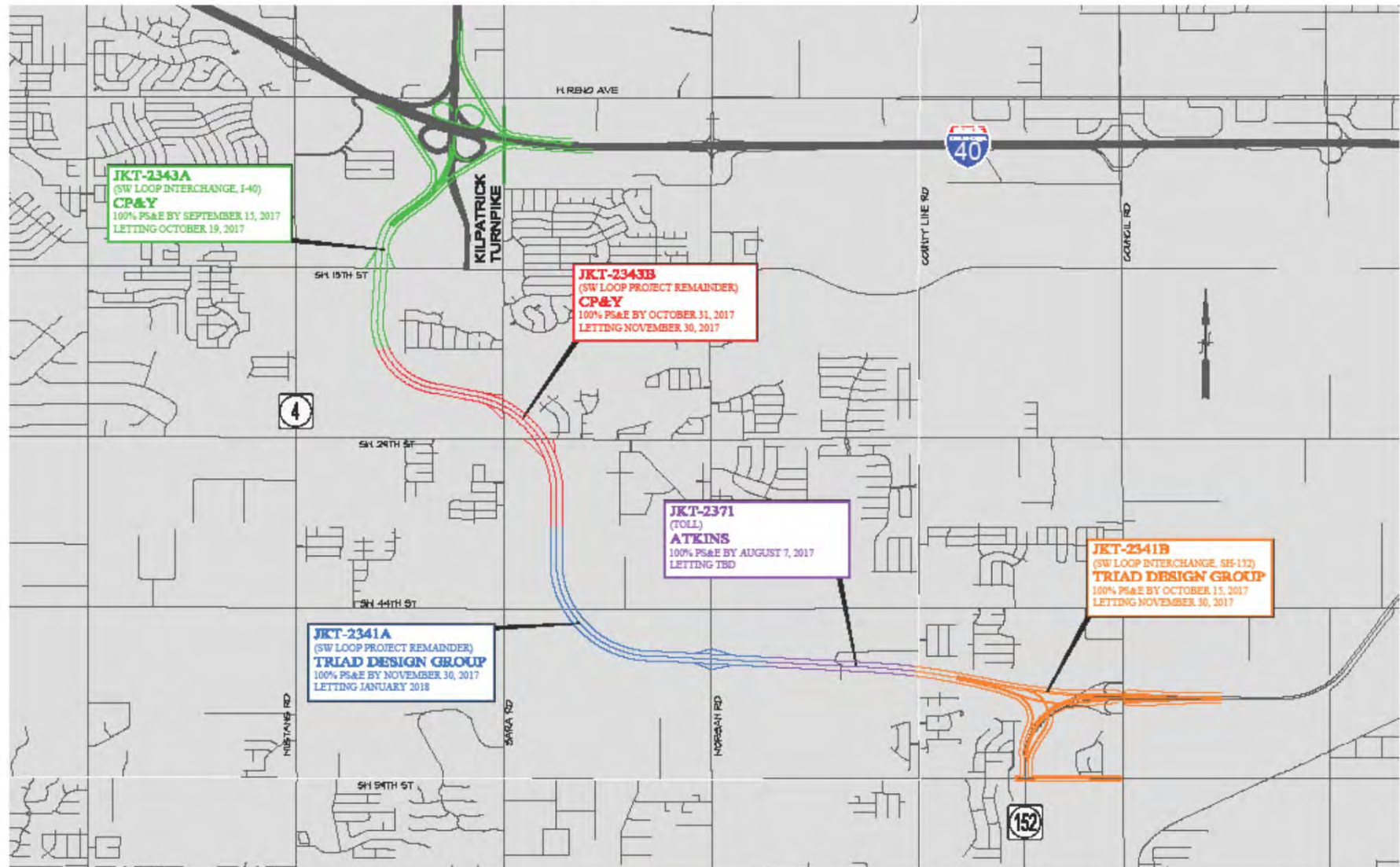
# Kilpatrick Extension





# Kilpatrick Extension

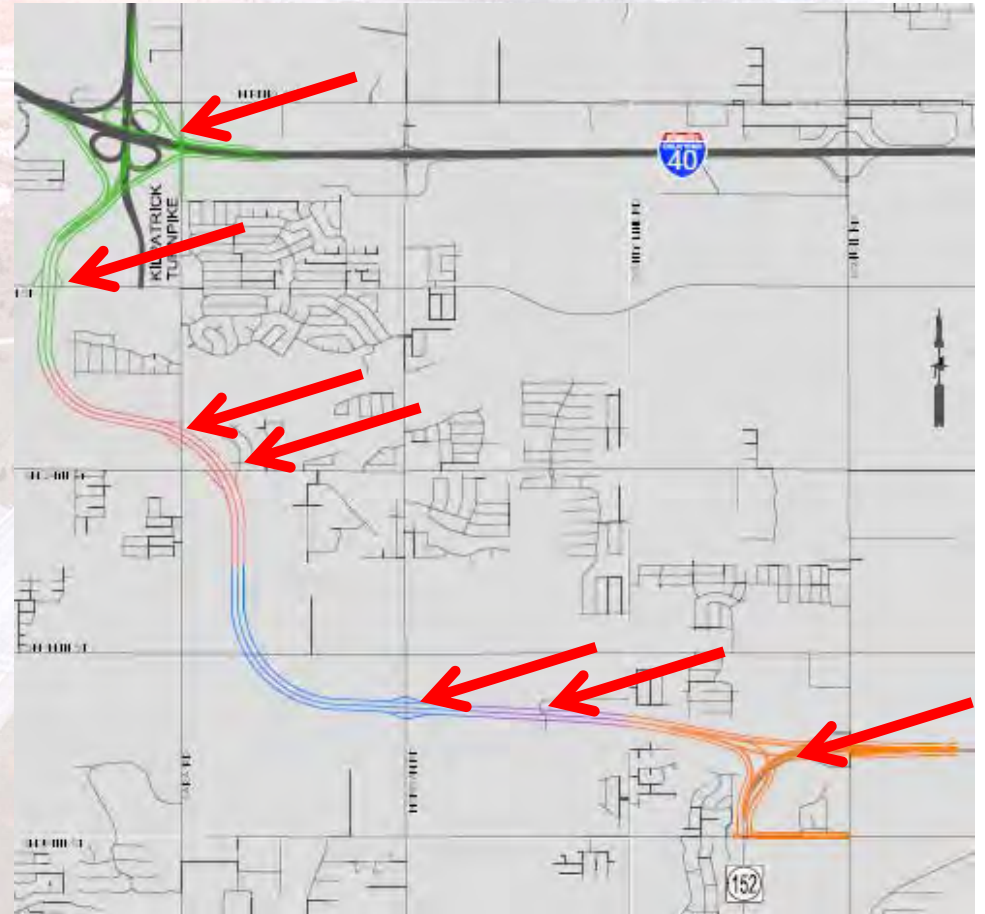
- New Alignment – 7 miles
- Connects with I-40 and SH-152
- \$180 Million
- Designers:
  - CP&Y
  - Triad
  - Atkins (Tolling)
- ROW Agent: Coates Field Services





# Kilpatrick Extension

- Summary of design features:
  - 16 Bridges
  - 2 Bridge Boxes
  - 1 ConSpan Underpass Structure
  - 22 Drainage Boxes
  - 6 Interchanges
    - I-40 Interchange
    - SW 15<sup>th</sup>
    - SW 29<sup>th</sup>
    - Sara Road
    - Morgan Road
    - SH-152 Interchange
  - Mainline Toll Plaza



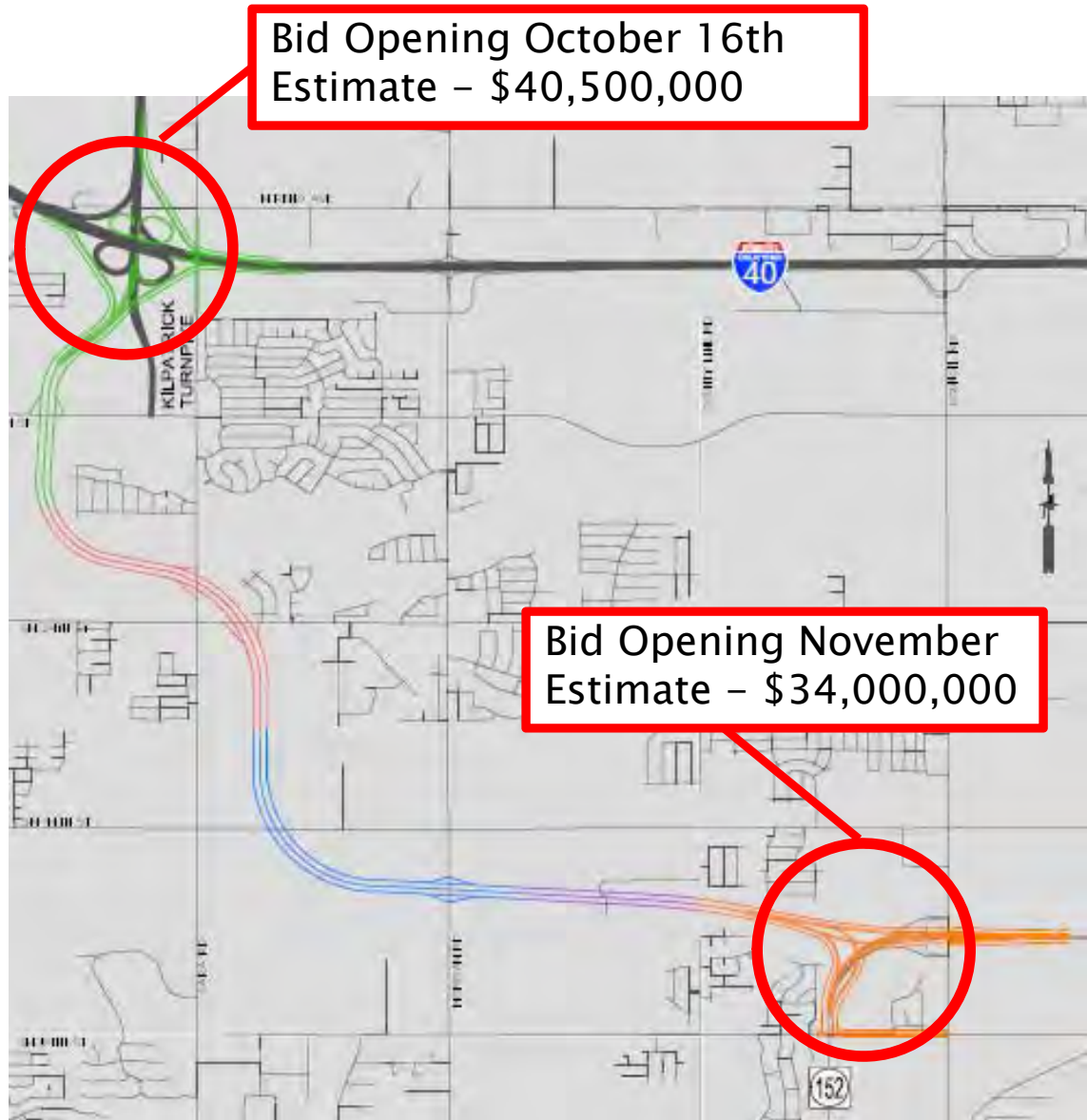
# Kilpatrick Extension

- Challenges
  - Meandering alignment to miss residential subdivisions
  - Avoidance of wetlands and streams to facilitate USACE permit
  - Coordination with City of OKC utility relocations
  - Complex interchange at I-40 to make all of the access to the JKT and I40 work smoothly and ensure traffic flow during construction
  - Extensive coordination with ODOT at SH-152 interchange
  - Accelerated Right of Way Acquisition
  - Compressed timeline for Utility Relocation
  - Complex Geotechnical Design regarding settlement in the Mustang Creek floodplain
  - Nationwide Permit for the 404
  - Stream and wetland mitigation will be handled thru purchase of credits
  - Noise studies

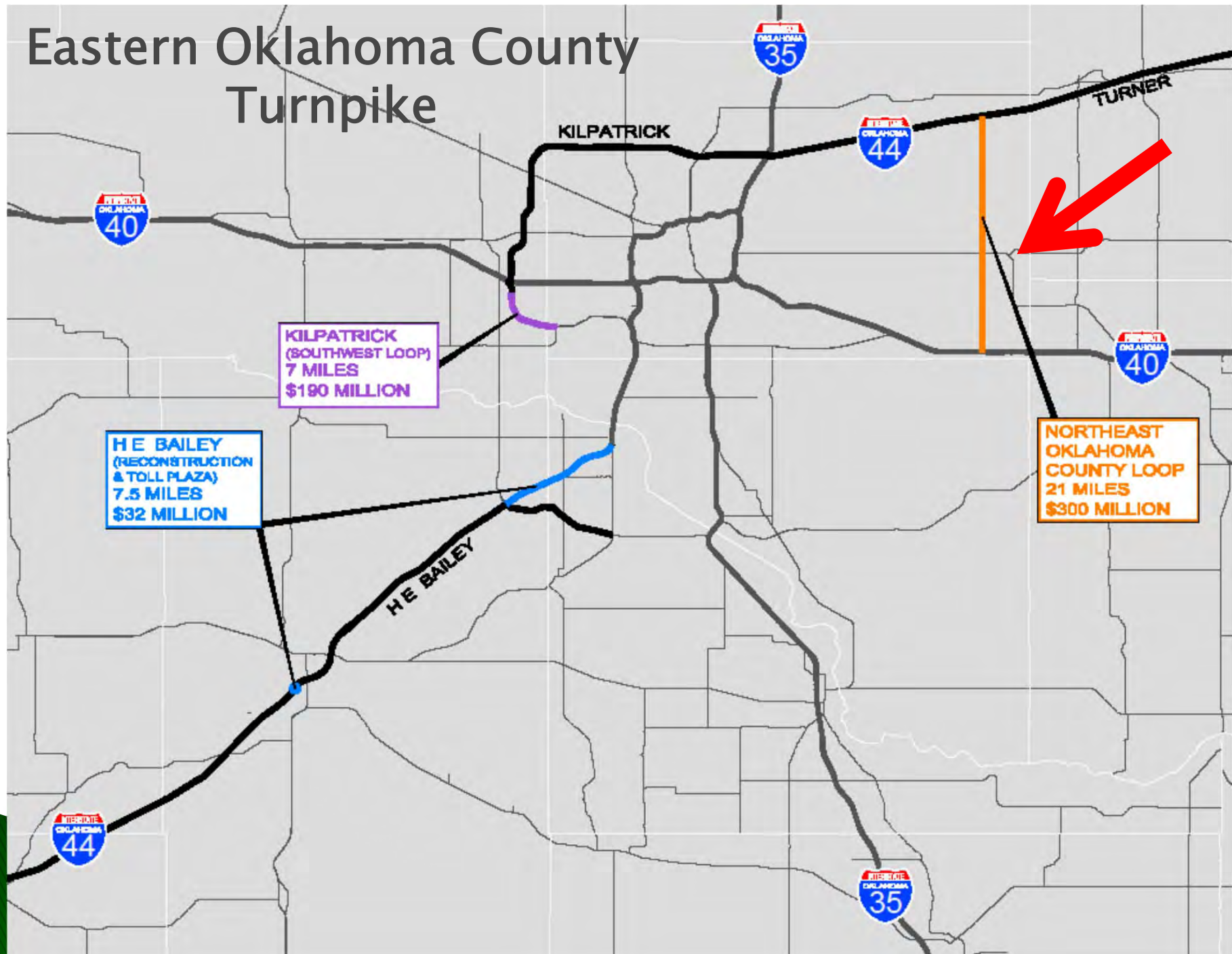




- Construction Management Team
  - CEC
  - Atkins
  - Poe



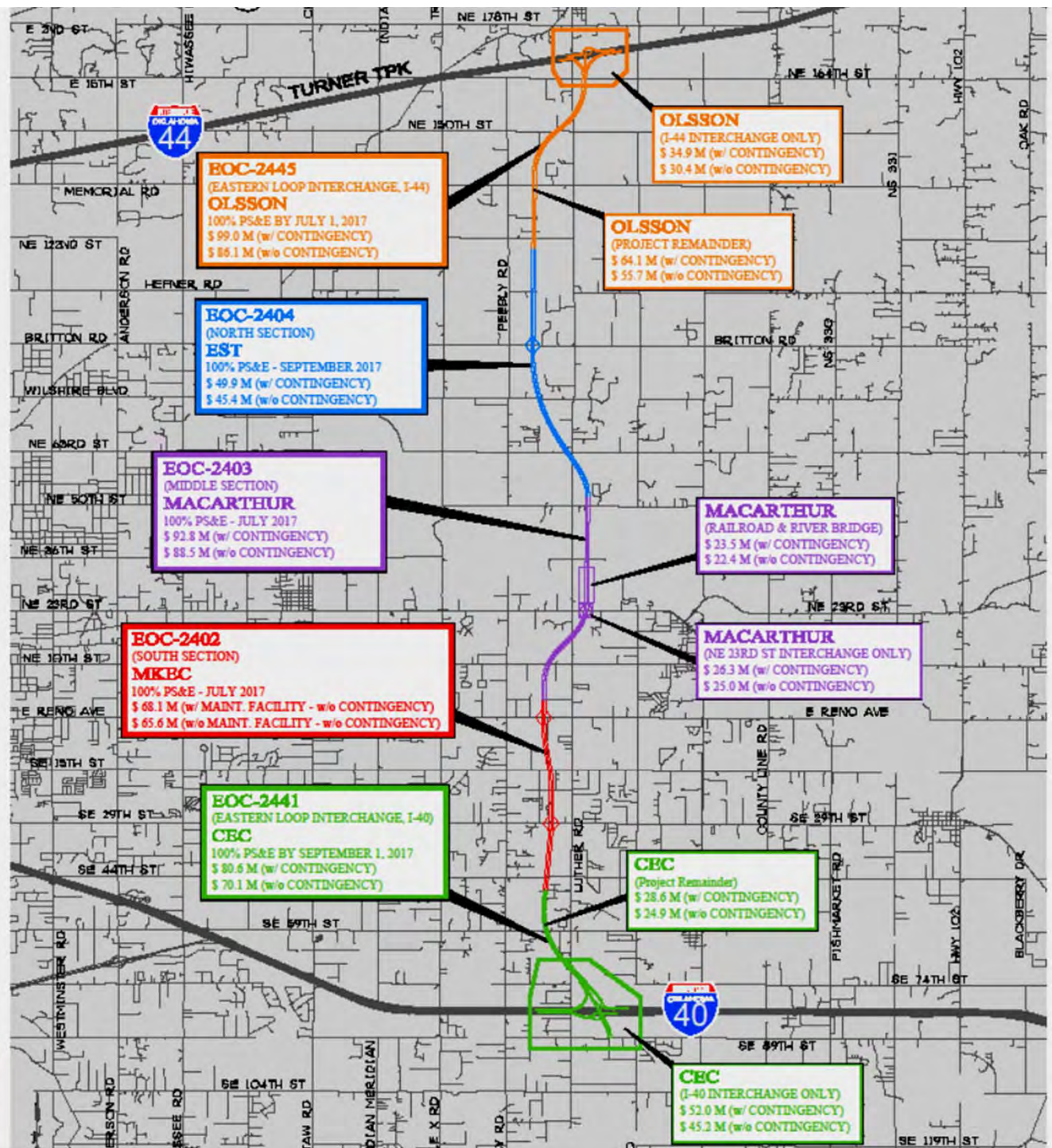
# Eastern Oklahoma County Turnpike





# Eastern Oklahoma County Turnpike

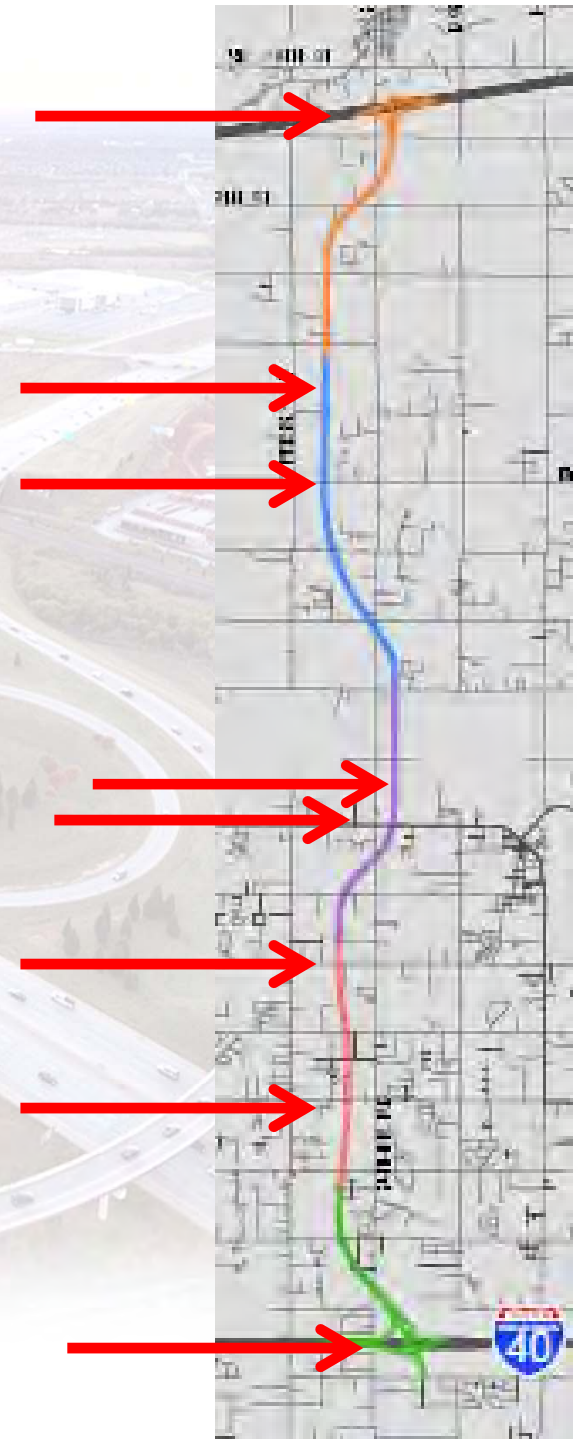
- New Alignment – 20 miles
- Between Harrah and Choctaw
- \$300 Million
- Connects I-40 and I-44 (Turner)
- Designers:
  - Olsson
  - EST
  - MacArthur
  - MKEC
  - CEC
  - Atkins (Tolling)
- ROW Agent:
  - SRLS
  - Pinnacle
  - Universal





# Eastern Oklahoma County Turnpike

- Summary of design features:
  - 14 TPOs; 11 TPUs
  - Canadian River Bridge
  - 5 Interchanges
    - I-44 & EOC
    - Britton Road
    - 23<sup>rd</sup> Street
    - Reno
    - 29<sup>th</sup>
    - I-40 & EOC
  - Mainline Toll Plaza



# Eastern Oklahoma County Turnpike

- Challenges
  - Finding a river crossing with minimal impacts
  - Many Residents opposed to the alignment
  - Need to provide accurate information to property owners
  - Proximity to the OG&E Horseshoe Power Plant and minimizing impacts to high mast power lines
  - Meandering alignment to minimize residential impacts
  - Railroad bridge crossing just south of the Canadian River bridge
  - Interchange at I-40 coordination with ODOT and FHWA and upcoming projects on I-40
  - Avoidance of wetlands, streams, and ponds to facilitate USACE permit
  - Numerous Utility Relocates
  - Accelerated ROW acquisition



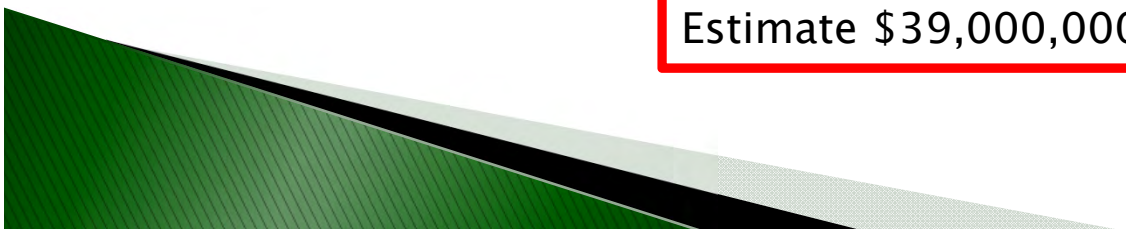
# Eastern Oklahoma County Turnpike



- Construction Management Team
  - CEC
  - Benchmark
  - Garver
  - Triad
  - Poe

Bid Opening October 11th  
Apparent low bidder:  
Manhattan Road and Bridge  
\$20,302,471.38

Bid Opening November  
Estimate \$39,000,000





**Driving Forward Partners**

**Thank You!**



# Stay Connected

For project updates, follow the Oklahoma Turnpike Authority on Twitter and Facebook, or visit [www.pikepass.com](http://www.pikepass.com).



[facebook.com/OKTurnpike](https://facebook.com/OKTurnpike)



[@OKTurnpike](https://twitter.com/OKTurnpike)



# DRIVING FORWARD

INVESTING IN OKLAHOMA'S FUTURE

- Project Information** ▶
- Awarded Contracts
- Standards & Provisions
- Letting Schedule
- 5-Year Capital Plan
- Project Status Update
- Public Notices
- RFPs & LOI
- OTA's FTP Site

- Capital Plan Projects
- Driving Forward Projects

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## Alerts

**Will Rogers Turnpike:**  
Asphalt pavement rehab -  
Single Lane traffic in spots.  
Est. completion date is Sept







OKLAHOMA  
TURNPIKE  
AUTHORITY

# DRIVING FORWARD

INVESTING IN OKLAHOMA'S FUTURE

[DrivingForwardOK.com](http://DrivingForwardOK.com)

#DrivingForwardOK



# QUESTIONS?