

GI Council Meeting – October 2, 2020 MaKyla Tipken, Kyndra Spencer, & Craig Moody



Poe & Associates, Inc.

- Professional Engineering Services since 1967
 - Oklahoma City & Tulsa
 - 70 Employees Company-Wide
- Services
 - Transportation
 - Public Utilities
 - Program Management
 - Construction Management
 - Survey
 - GIS & Mapping







Poe & Associates, Inc.

- Craig Moody
 - 31 Years of Experience
 - Transportation Planning
 - Roadway Design
 - Public Involvement
 - GI Council (2013-2016)



- 18 Years of Experience
 - Transportation
 - GIS
- Kyndra Spencer
 - FAA Part 107 Certified Drone Pilot
 - GIS









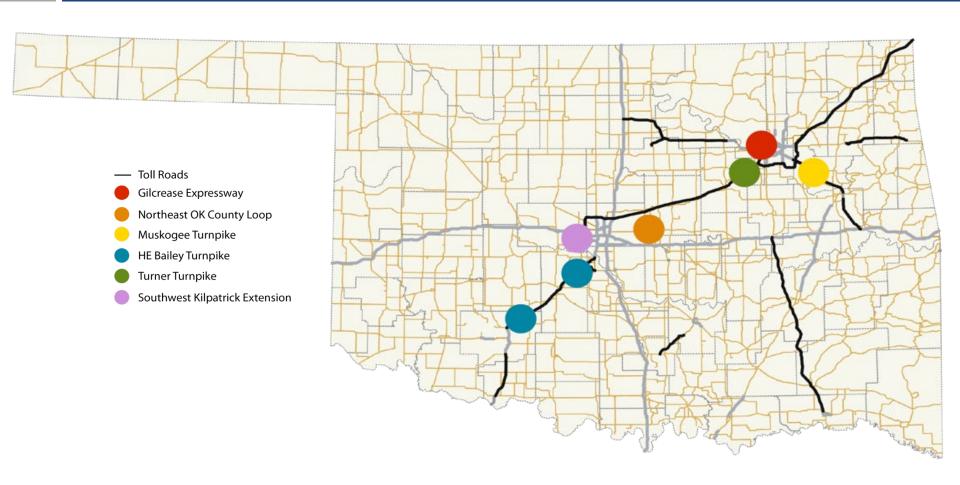
Driving Forward – Program Overview

- Announced October 29, 2015
 by Governor Fallin
- Six Corridors
 - Improve Safety
 - Modernize Roadways & Facilities
 - Relieve Congestion on ODOT's System
- Construction Began in 2016 & is Expected to be Completed by the End of 2021
- Program Manager: Poe & Associates, Inc.
 - Contracted with 23 sub-consultants to Deliver the Program





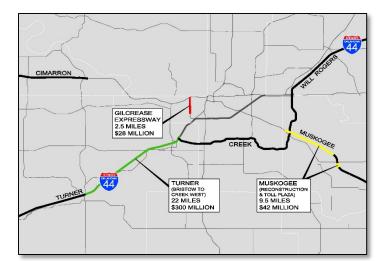
Driving Forward – Program Overview

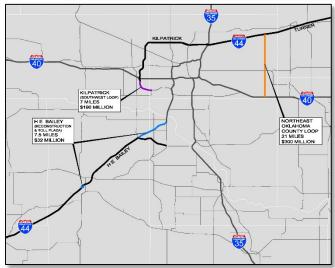




Driving Forward – GIS Background

- Four Corridor Focus
 - Kickapoo Turnpike
 - SW John Kilpatrick Turnpike
 - Turner Turnpike
 - Gilcrease Expressway
- Concurrent Timelines
 - Design
 - Right-of-Way Acquisition
 - Utility Relocations
 - Construction



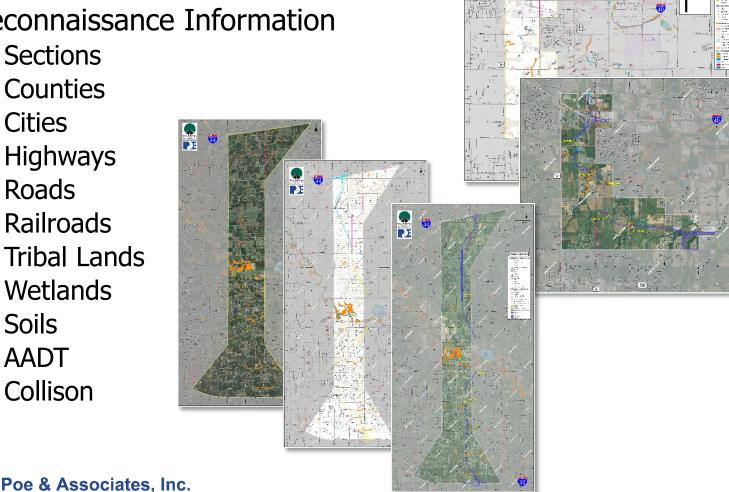




Driving Forward – GIS Beginnings

- **Design Meetings**
- **Reconnaissance Information**
 - Sections
 - Counties
 - Cities
 - **Highways**
 - Roads
 - Railroads
 - **Tribal Lands**
 - Wetlands
 - Soils
 - AADT
 - Collison

Consulting Engineers



Driving Forward – GIS Beginnings

- Public Meetings
 - Exhibits
 - Roll-outs
 - KMZ files





- Stakeholder Coordination
 - Local & Regional Entities
 - Neighborhood Associations
 - Key Businesses



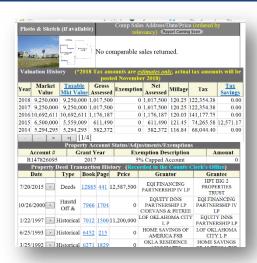
Mustang Greek

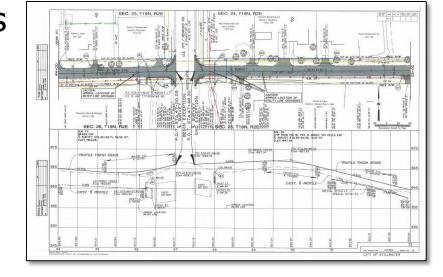




Right-of-Way Acquisition

- Provided with...
 - Assessor Information
 - Design Information
- Tasked with...
 - Developing Acquisition Tracking Process
 - Providing Timely Deliverables







Right-of-Way Acquisition

- Spreadsheets
- Shapefiles
- Maps
- KMZ files



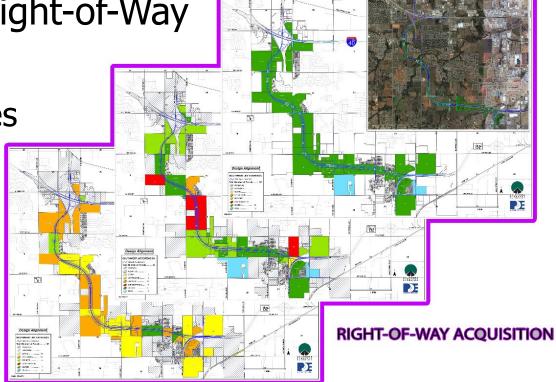
Right-of-Way Acquisition

- □ 4 Corridors
- 5 Acquisition Teams

1,000+ Parcels of Right-of-Way

Bi-weekly Updates

Weekly Cost Updates

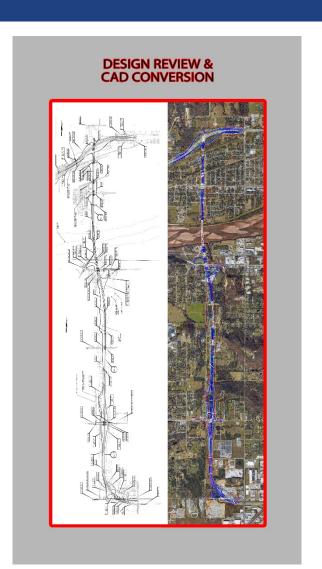




Design Conversion

- 12 Different Design Firms
 - Over 30 Design Projects
- All Using Unique CAD Standards
 - DGN & DWG formats
- 5 Coordinate Systems
 - State Plane North
 - Modified State Plane
- Converted All Projects to GIS
 - Uniform Layering/Organization
 - Standard Coordinate System
 - Design Submission Intervals





Utility Coordination

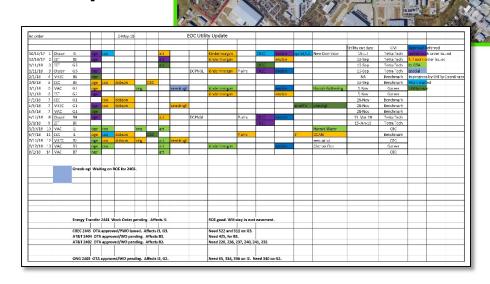
- One Utility Coordinator
 - Singular Point of Contact
 - Utilities per Corridor

Coordinate Right-of-Entry

Acquisition

Relocations

Demo





Asset Management

- Evolved from design review
 - 5 Roadway designers
 - 3 Interchange designs
 - Tolling
 - Turnpike entrance roads

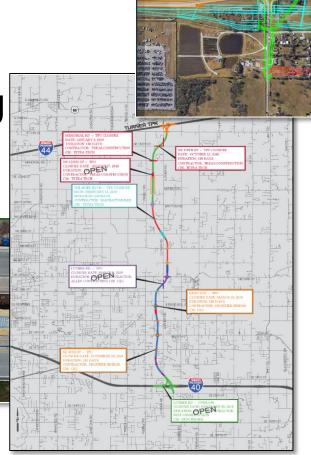




Construction Management

- Construction Phasing
- Utilizing kmz files
- Road closure updates
- Construction monitoring
 - Drones







Drones

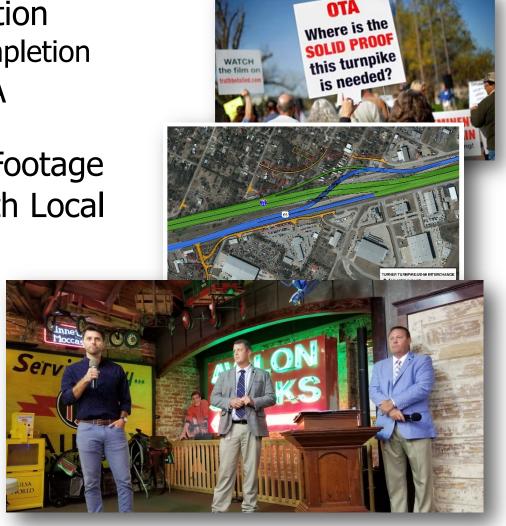
- Began as construction monitoring
- Marketing
 - Public Meetings
 - Announcements
 - Opening Ceremonies





Public Involvement

- Present Program Information
 - Through Construction Completion
- Providing Support for OTA Presentations
- On-sight Interviews and Footage
- Direct Communication with Local Officials
- Public Facing Information
 - Websites
 - Meetings
 - Public Forums





Facilitate Planning and Design Decisions Using GIS



BIG DEAL!!!

- □ Beams 245,219′
 - 8.5 times as tall as Mount Everest
- □ Excavation − 15.35 million CY
 - Fill AT&T Stadium 4 times
- □ Asphalt − 1.01 million tons
 - 40 times as heavy as the Statute of Liberty
- □ Concrete − 1.89 million CY
 - Fill 24.6 million beer kegs
- 340 Lane Miles
 - 6 times the length of the Panama Canal













QUESTIONS?

OTA's Driving Forward Website – drivingforwardok.com



Poe & Associates, Inc. – poeandassociates.com

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