

**Kevin Thornton**  
**Assistant Chief Engineer - Planning**



**Mississippi University**  
**Tuesday, February 18, 2020**



## **3rd Largest State Agency**

(app. 3,700 Employees)

## **Maintains**

16,418 miles of Highway

7,335 Bridges

## **Central Offices in Little Rock**

## **10 Districts Statewide**

## **Mission:**

Provide safe and *efficient* transportation solutions to support Arkansas' economy and enhance the quality of life for generations to come.



## Core Values

### **Safety**

- Safety first in all we do

### **Public Service**

- Focus on the greater good

### **Teamwork**

- One vision through collaboration and communication

### **Quality**

- Deliver reliable transportation solutions

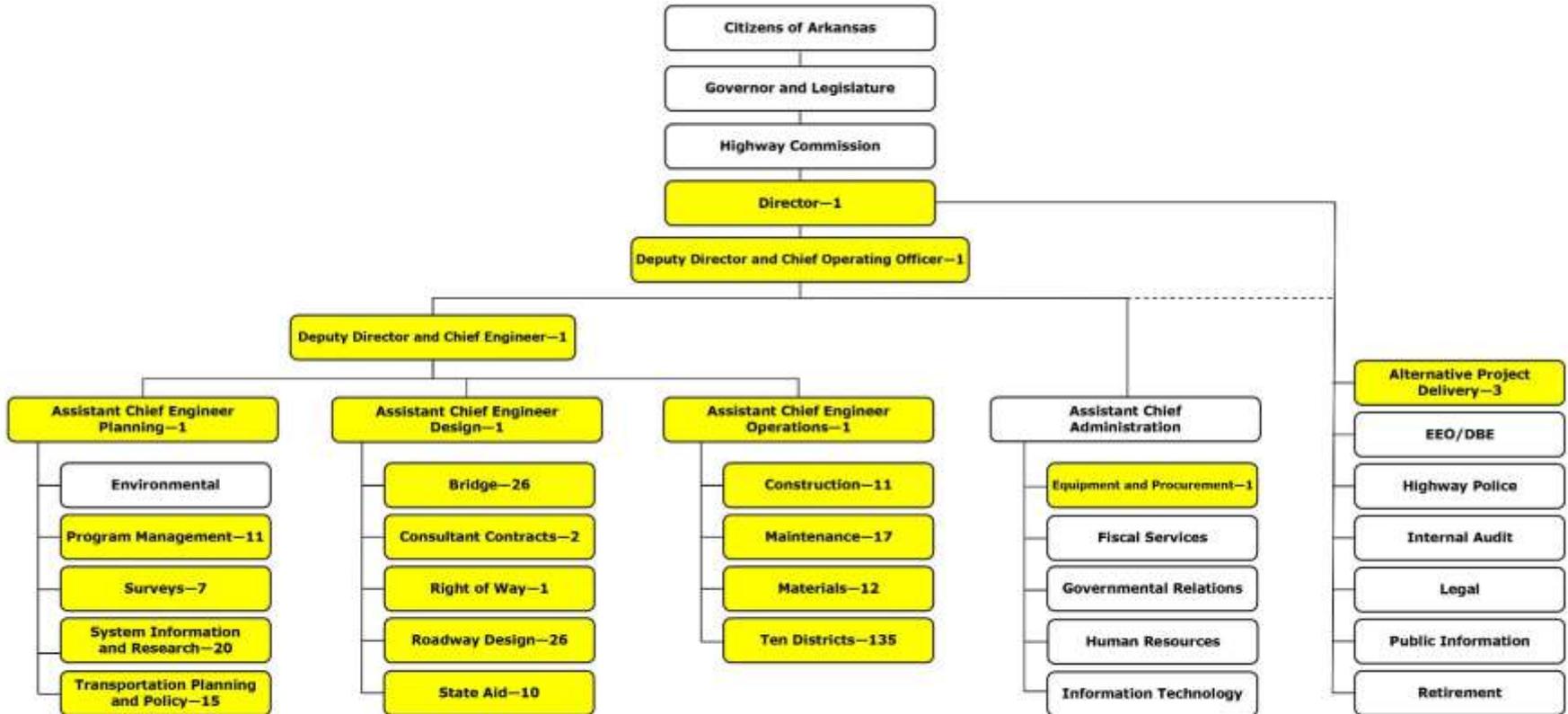
### **Integrity**

- Commitment to ethics and transparency

### **Efficiency**

- Achieve maximum benefit through fiscal responsibility

## ARKANSAS DEPARTMENT OF TRANSPORTATION ORGANIZATION CHART



**DISTRIBUTION OF ARDOT ENGINEERS  
AS OF 2-6-2020  
303**

Director

December 7, 2019

Date

## What's the role of an Engineer?

### Planning

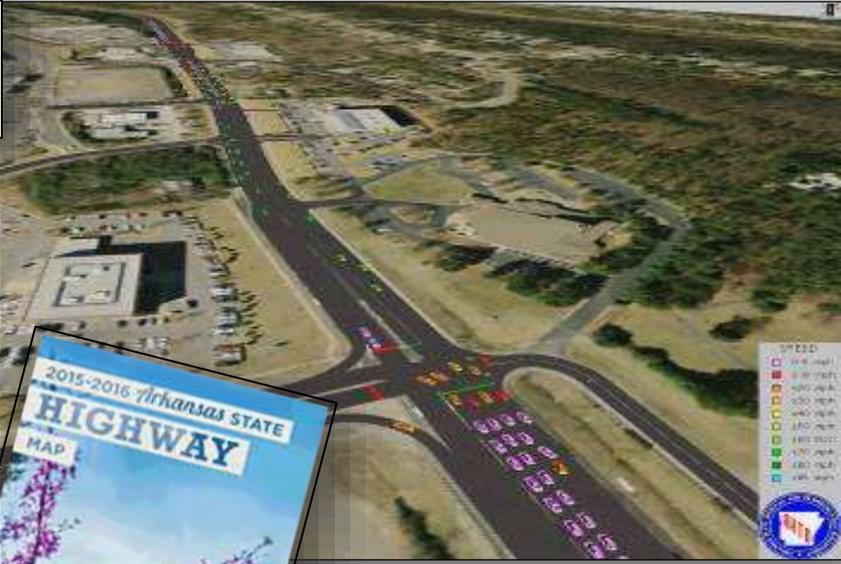
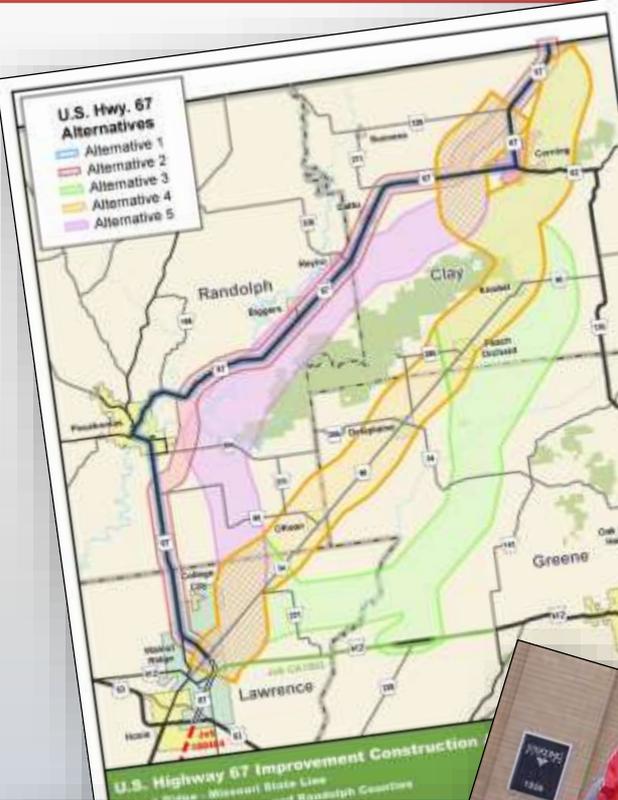


### Design



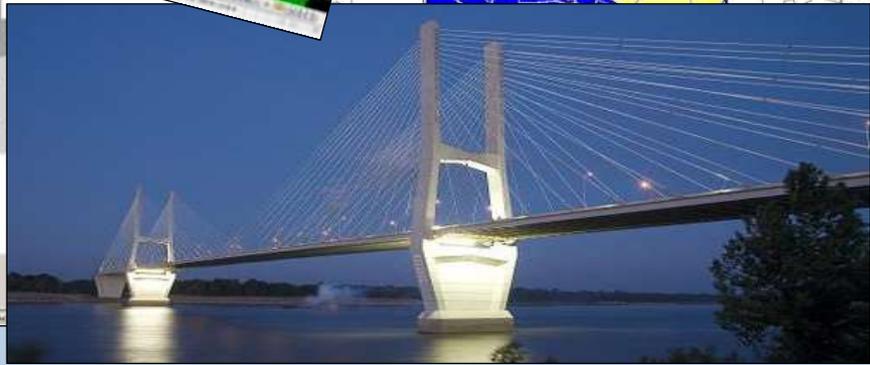
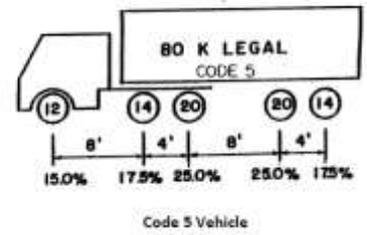
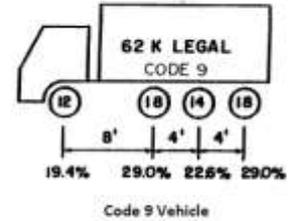
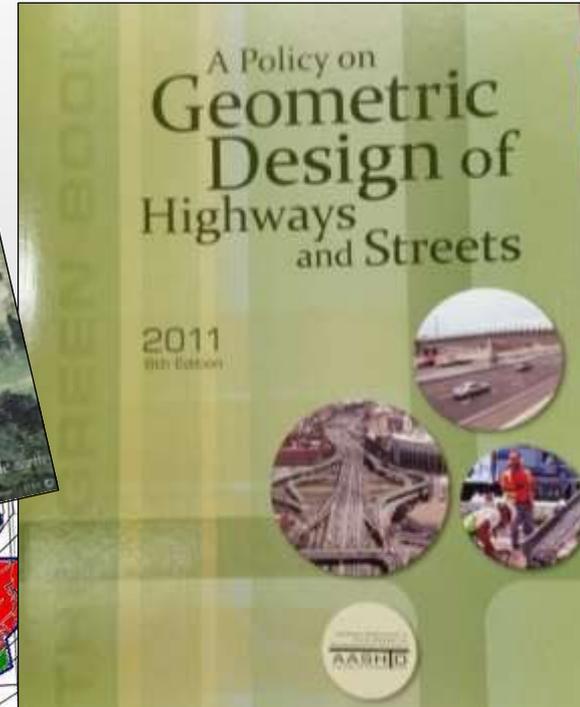
### Operations

# Planning Engineer



# Design Engineer

Job: D50013, Tuckman Drive (Dist # 10) Plan: Plan 12 7/9/2004 7:28:26 AM  
Geom: New Model





AR DOT hires approximately 50 civil engineering interns each summer.

Interns mostly work in field offices assisting with:

- Checking Material Quantities & Qualities
- Supervising Concrete & Asphalt Pours
  - Surveying
  - And More

## Critical Courses for Bridge Design

**CE 4433 Foundations**

**CE 4963 Steel Structures I**

**CE 4973 Concrete Structures I**

## Additional Preferred Courses

**CE 4523 Open Channel Hydraulics**

## Bonus Courses

**CE 4983 Wood Structures**

**CE 4993 Pre-Stressed Concrete Structures**



*Thinking Outside  
of the*

**Box**

- **Now Accepting**
  - ✓ Electronic Payrolls
  - ✓ Subcontracts
  - ✓ Various Other Documents
- **Increased Visibility for all Stakeholders**
- **Pass-through Service**
- **Electronic Contracts**
  - ✓ Construction
  - ✓ Consultant
- **Benefits**



# Traffic Simulation Modeling



## I-430 & I-630 Interchange



# Accelerated Bridge Construction (ABC)

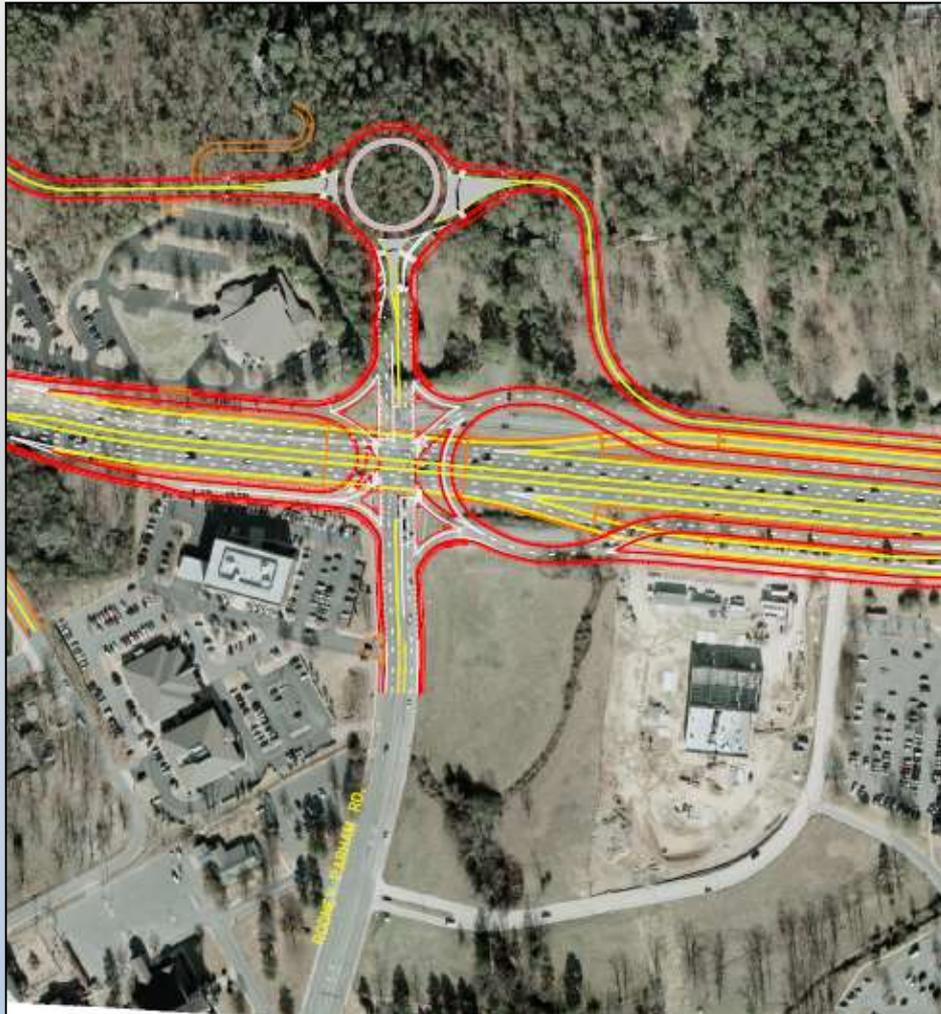


- ***Definition***
- ***Methods***
  - ✓ Design-Build
  - ✓ Public Private Partnerships (PPP)
  - ✓ Construction Manager/General Contractor





## Job 061331 – Pleasant Ridge Rd. to Pleasant Valley Dr. (L.R.) (F)



# Two-Lane Bridges





# Issue 1



# November 3, 2020

## The Ballot Question: Issue 1

**YES**



*Funding from current sales tax continues after June 2023*

**NO**



*Funding from current sales tax terminates after June 2023*

# If Issue 1 Passes

Annual Revenue Expected to be Available in SFY 2024

Act 416 of 2019	\$95 Million
Issue 1	\$205 Million
Current Construction Program	\$440 Million

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**Total Available SFY 2024**      **\$740 Million**



# If Issue 1 Passes



## 10-Year *Renew Arkansas Highways* Program

Pavement Preservation	\$3.0 Billion
Bridge Improvements and Preservation	\$1.1 Billion
Interstate Maintenance	\$1.0 Billion
Safety Improvements	\$0.5 Billion
Capital and Congestion Relief (CAP-2)	\$1.8 Billion

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**Total**      **\$7.4 Billion**

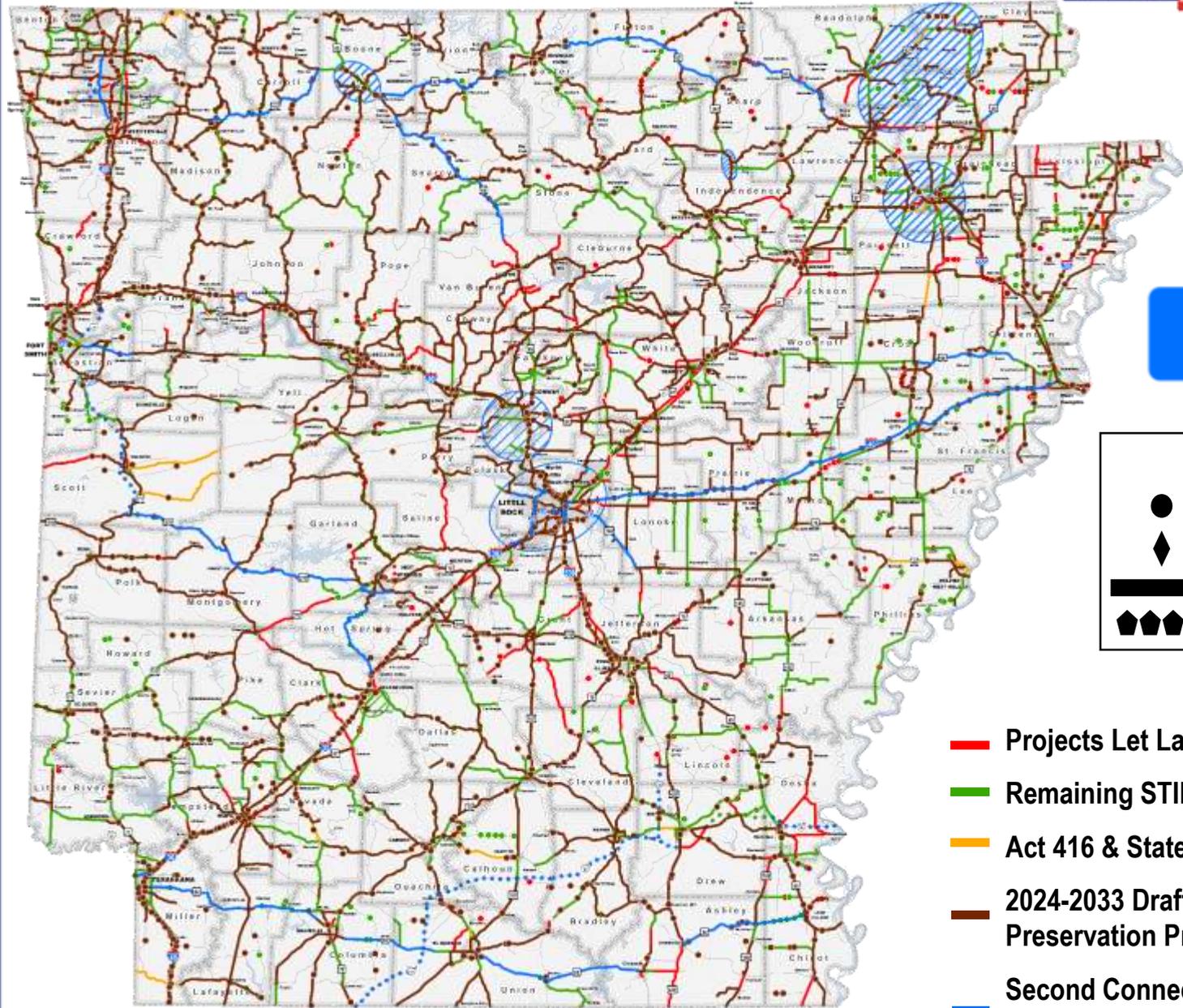


# New Highway Program

**DRAFT**

Job Type

- Bridge
- ◆ Interchange
- ▬ Roadway
- ▮▮▮▮ New Location



- Projects Let Last 10 Years
- Remaining STIP
- Act 416 & State Surplus Revenue
- 2024-2033 Draft Program of Preservation Projects
- Second Connecting Arkansas Program

# If Issue 1 Fails

## Annual Revenue Expected to be Available in SFY 2024 for State Highways

Act 416 of 2019	\$ 95 Million
<del>Proposed Amendment</del>	<del>\$205 Million</del>
Current Construction Program	\$440 Million

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**Total Available SFY 2024**      ~~**\$740 Million**~~

***Nearly 30% Less***



Chicot County, Highway 144  
Lake Chicot State Park entrance to the  
Mississippi River Levee

# If Issue 1 Fails

## 10-Year Plan



Ashley County, Highway 160  
6 miles east of Montrose

Pavement Preservation	\$1.0 Billion
Bridge Improvements and Preservation	\$1.1 Billion
Interstate Maintenance	\$1.0 Billion
Safety Improvements	\$0.5 Billion
Capital and Congestion Relief (CAP-2)	\$1.8 Billion



**10-Year Total      \$~~7.35~~ Billion**



*Questions?*

