



# 75/24 INTERCHANGE

CHATTANOOGA • TN



**BARGE**  
DESIGN SOLUTIONS

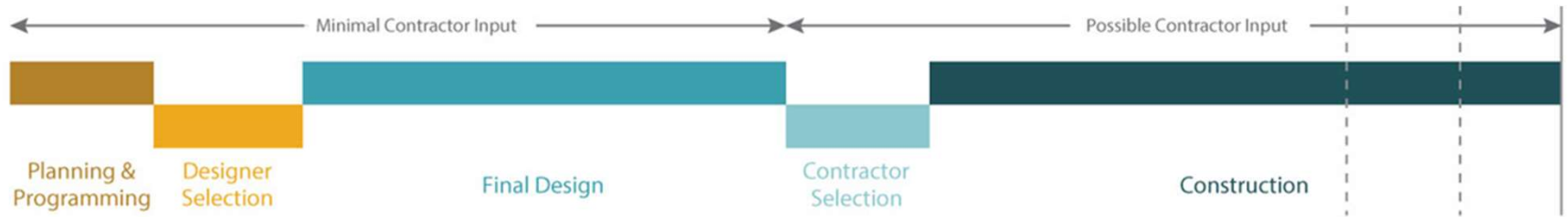
TN **TDOT**  
Department of  
Transportation



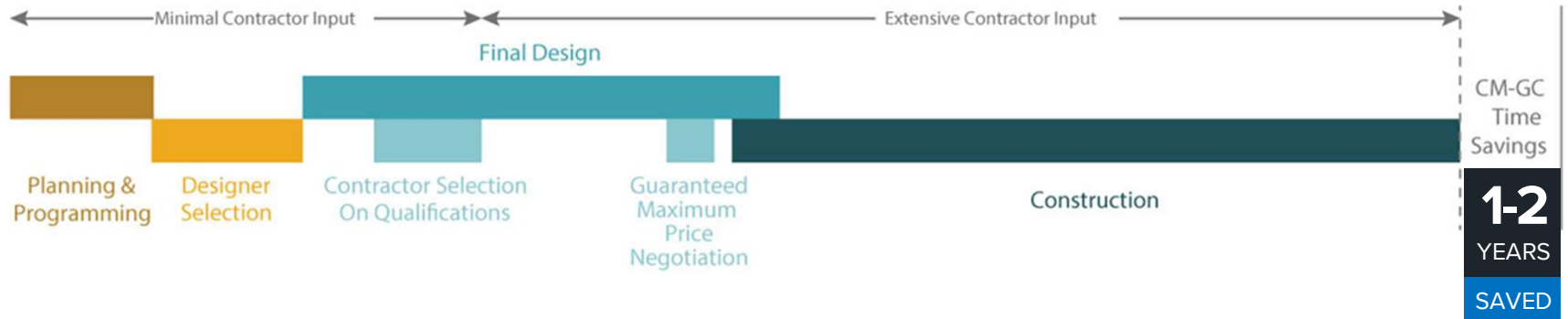
[www.tn.gov/tdot/projects/region-2/i-75-interchange-at-i-24](http://www.tn.gov/tdot/projects/region-2/i-75-interchange-at-i-24)



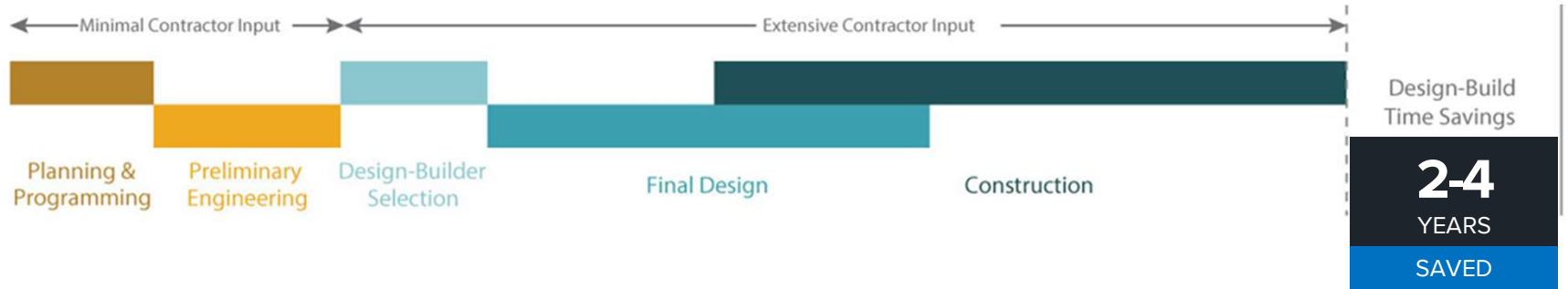
**Design-Bid-Build**



**Construction Manager/General Contractor**



**Design-Build**





# Project Purpose

## Safety

- Update weave at Welcome Center
- Left-hand ramp exits
- Improve substandard ramp geometry

## Capacity

- Decrease congestion
- Increase interstate capacity
- Improve traffic operations



# Project Team





## Operating Division:

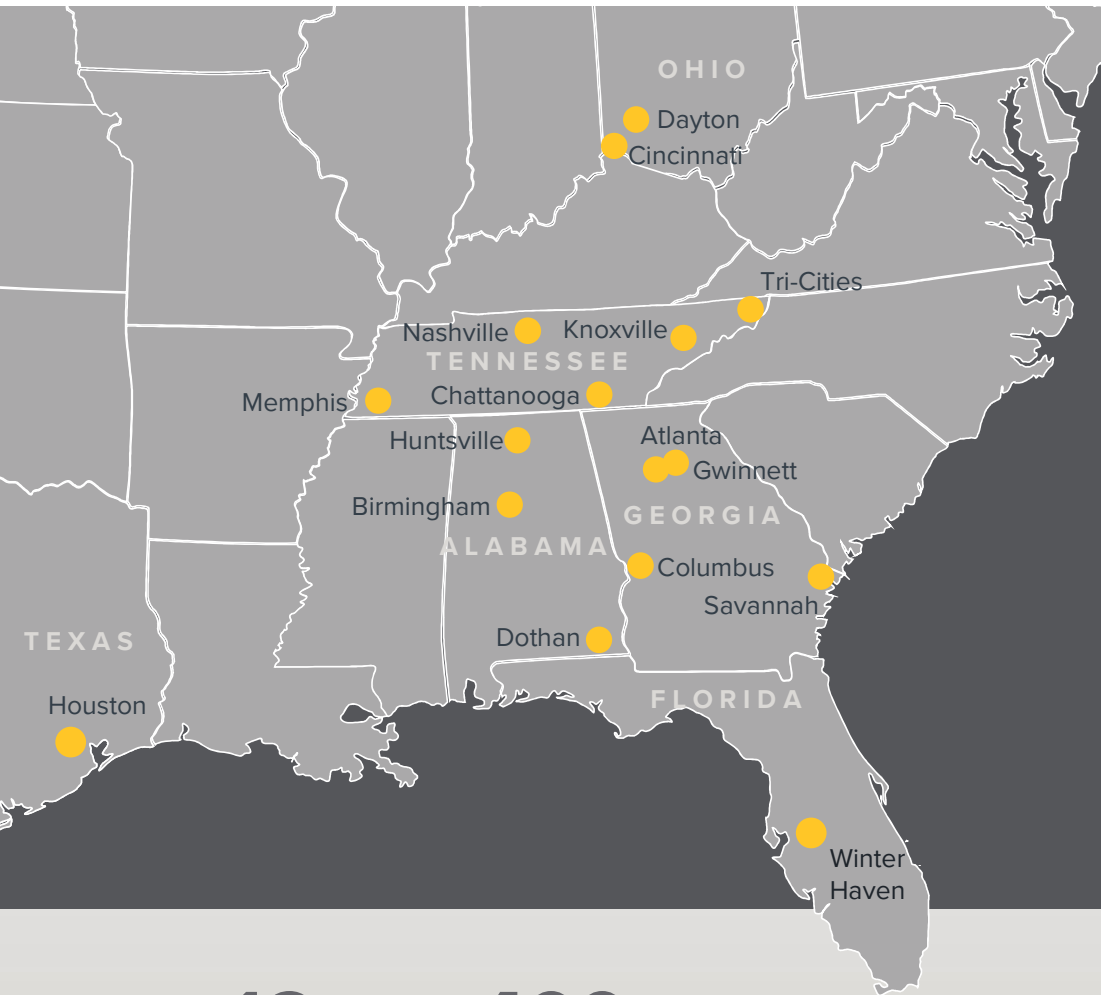
- Asphalt construction
- Asphalt plans
- Roadway construction
- Bridge construction
- Concrete construction
- Major projects

**Established**

1946

**5.5 million**

TONS OF ASPHALT / YEAR



# **BARGE**

**DESIGN SOLUTIONS**

## **SPECIALIZING IN**

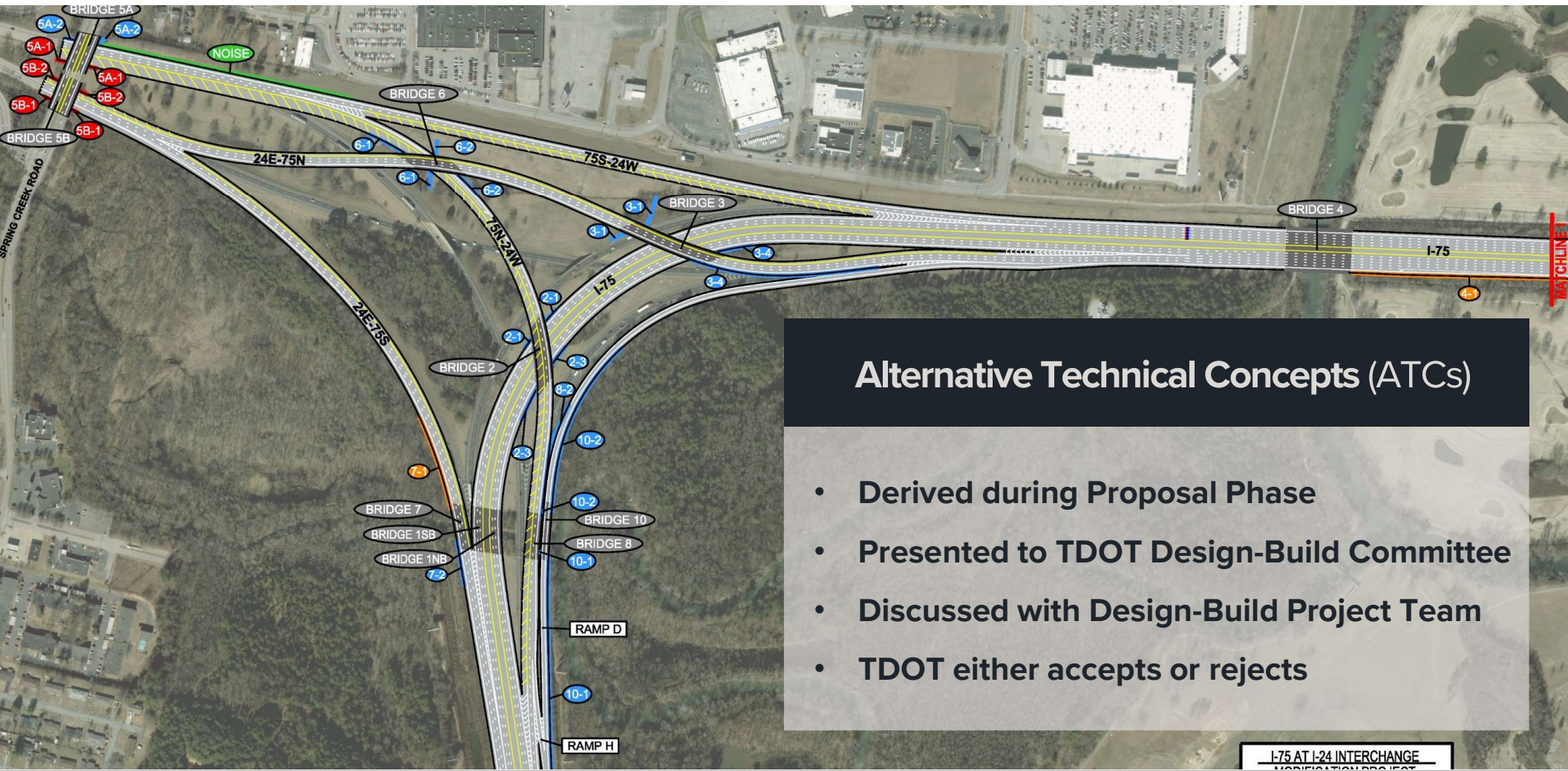
TRANSPORTATION // WATER SERVICES  
FACILITIES // LAND RESOURCES  
ENVIRONMENTAL & WATER RESOURCES

**16**  
OFFICES

**400+**  
EMPLOYEES

**Employee Owned**  
ESTABLISHED 1955



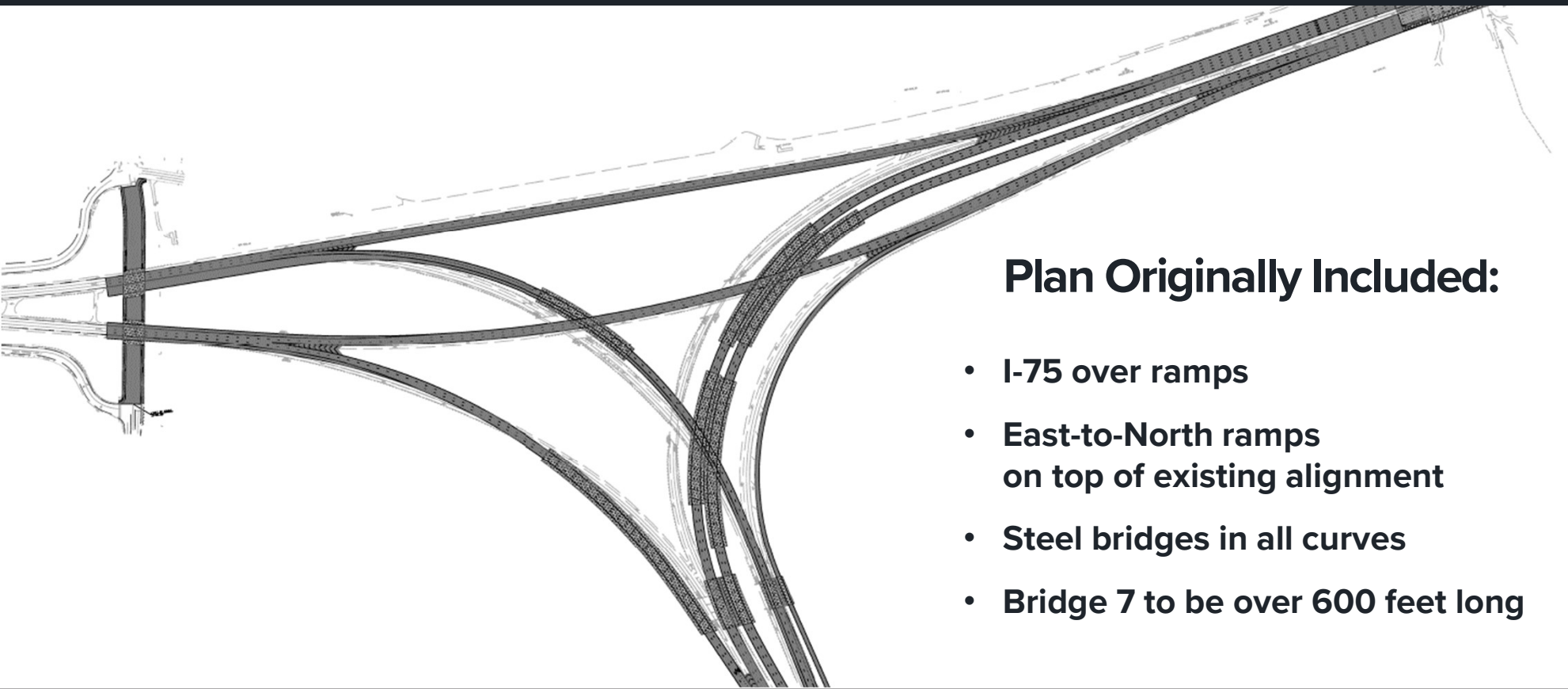


## Alternative Technical Concepts (ATCs)

- Derived during Proposal Phase
- Presented to TDOT Design-Build Committee
- Discussed with Design-Build Project Team
- TDOT either accepts or rejects



# Before: Original Functional Design Plan



## Plan Originally Included:

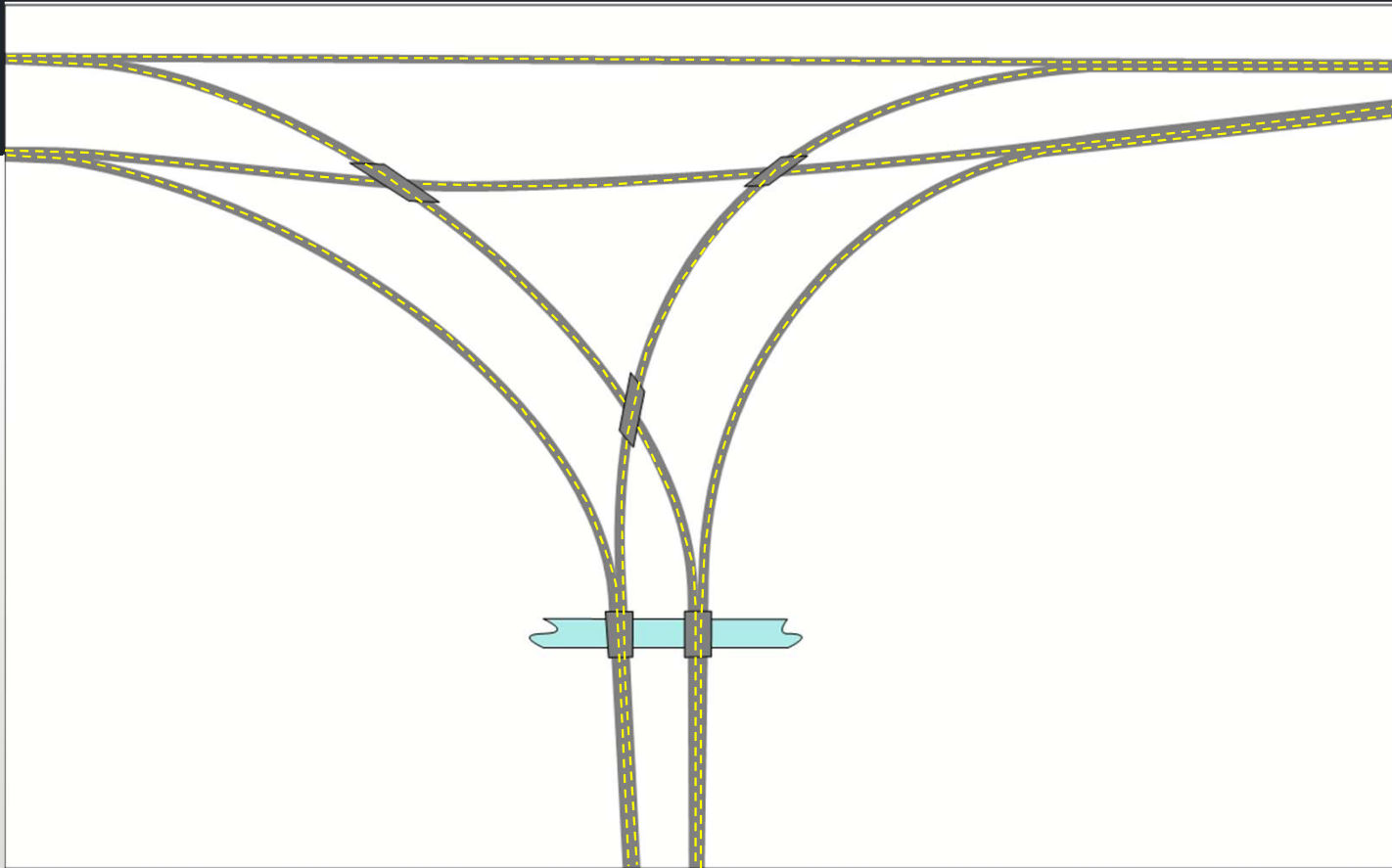
- I-75 over ramps
- East-to-North ramps on top of existing alignment
- Steel bridges in all curves
- Bridge 7 to be over 600 feet long

## After: Our Proposed Design



- No ramps on existing alignments (reducing construction time)
- All bridges are concrete
- 11 of 14 new bridges are single span
- I-75 at grade

# Traffic Control

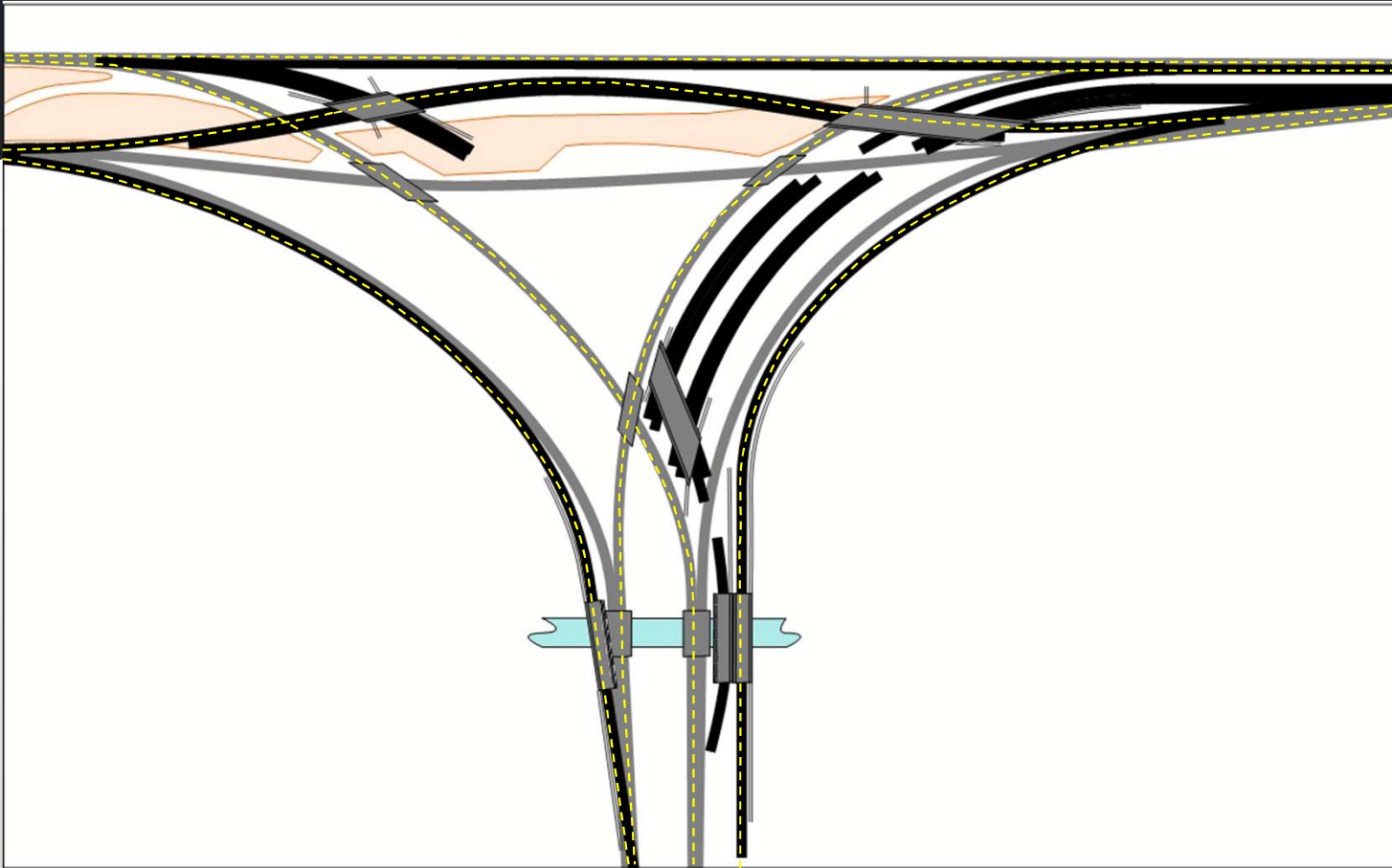


**PHASE 1**  
**Work outside  
of traffic**

PHASE 2  
I-75 North Traffic  
Shift to Ramp D

PHASE 3  
Completion

# Traffic Control

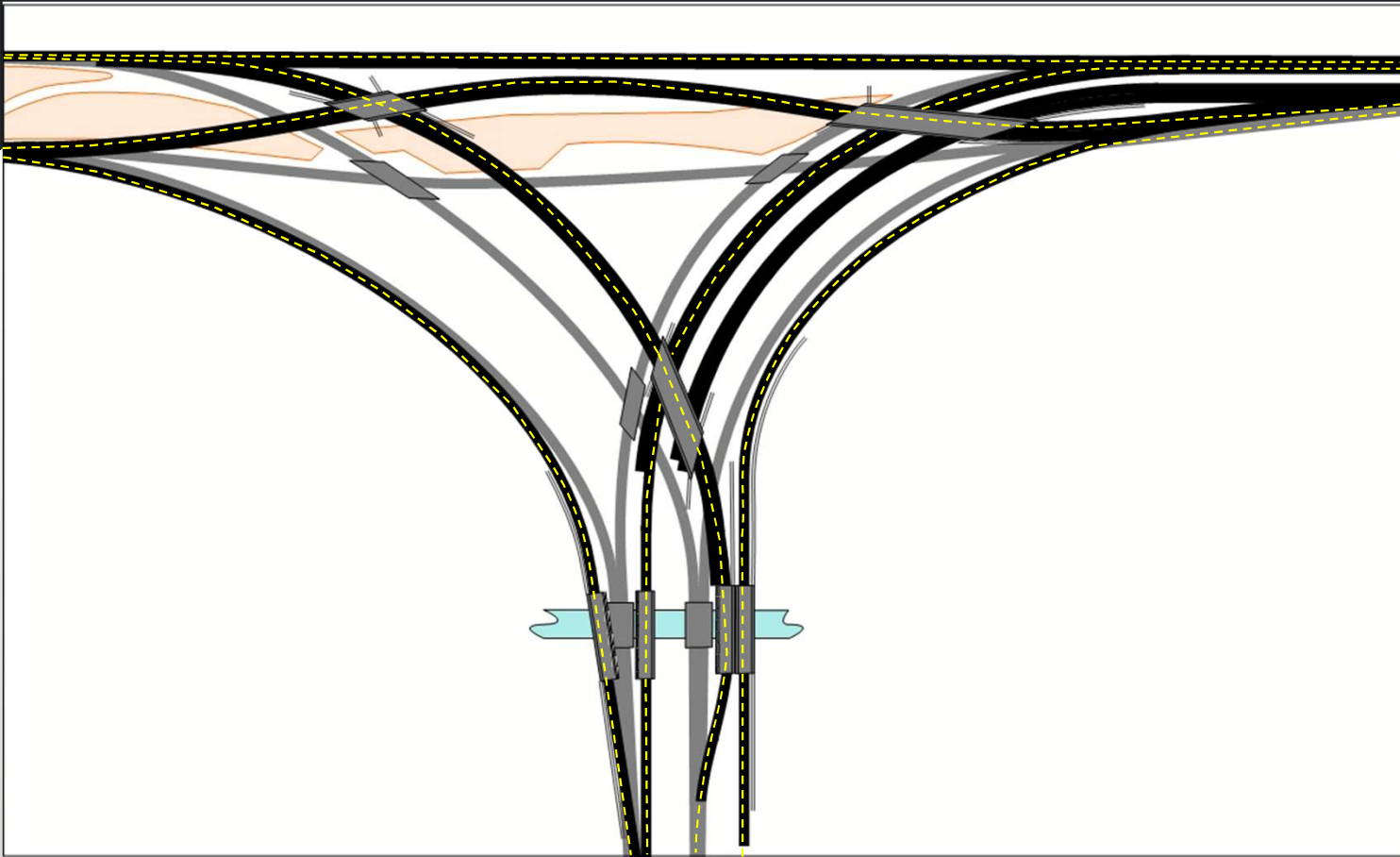


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**I-75 North Traffic  
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## Traffic Control

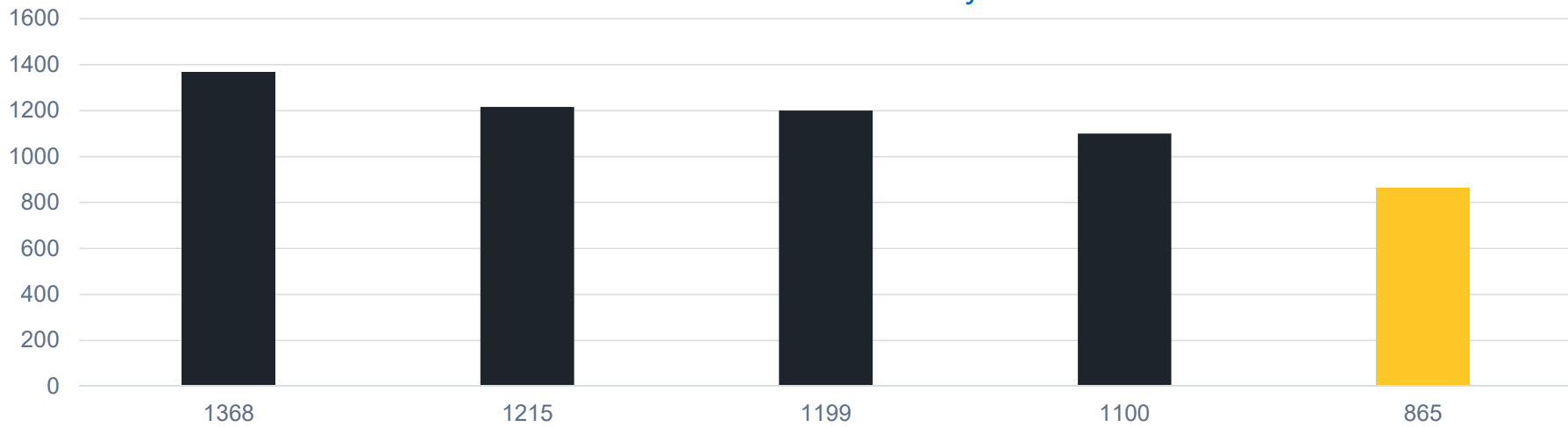
PHASE 1  
Work outside  
of traffic

PHASE 2  
I-75 North Traffic  
Shift to Ramp D

PHASE 3  
Completion

# 500+ Days Saved

Number of Contract Days





**14** new bridges

**20** retaining walls

**7.5** miles of interstate

**14** high mast lights

**92** light standards

**15** smart work zone signs

**20** months to build



# Northwest Section



**I-75 AT I-24 INTERCHANGE  
MODIFICATION PROJECT**

	Ramp
	Bridge
	MSE Wall
	CIP Wall
	Soldier Pile Wall
	Noise Wall





# Northeast Section

MATCHLINE (NORTHWEST SECTION)

BRIDGE 4

I-75

I-75



I-75 AT I-24 INTERCHANGE  
MODIFICATION PROJECT



CIP Wall



**BARGE**  
DESIGN SOLUTIONS





# Southern Section



I-75 AT I-24 INTERCHANGE  
MODIFICATION PROJECT

RAMP Ramp

# 9.38 acres

of permanent wetland impacts

# 2.23 acres

of temporary wetland impacts

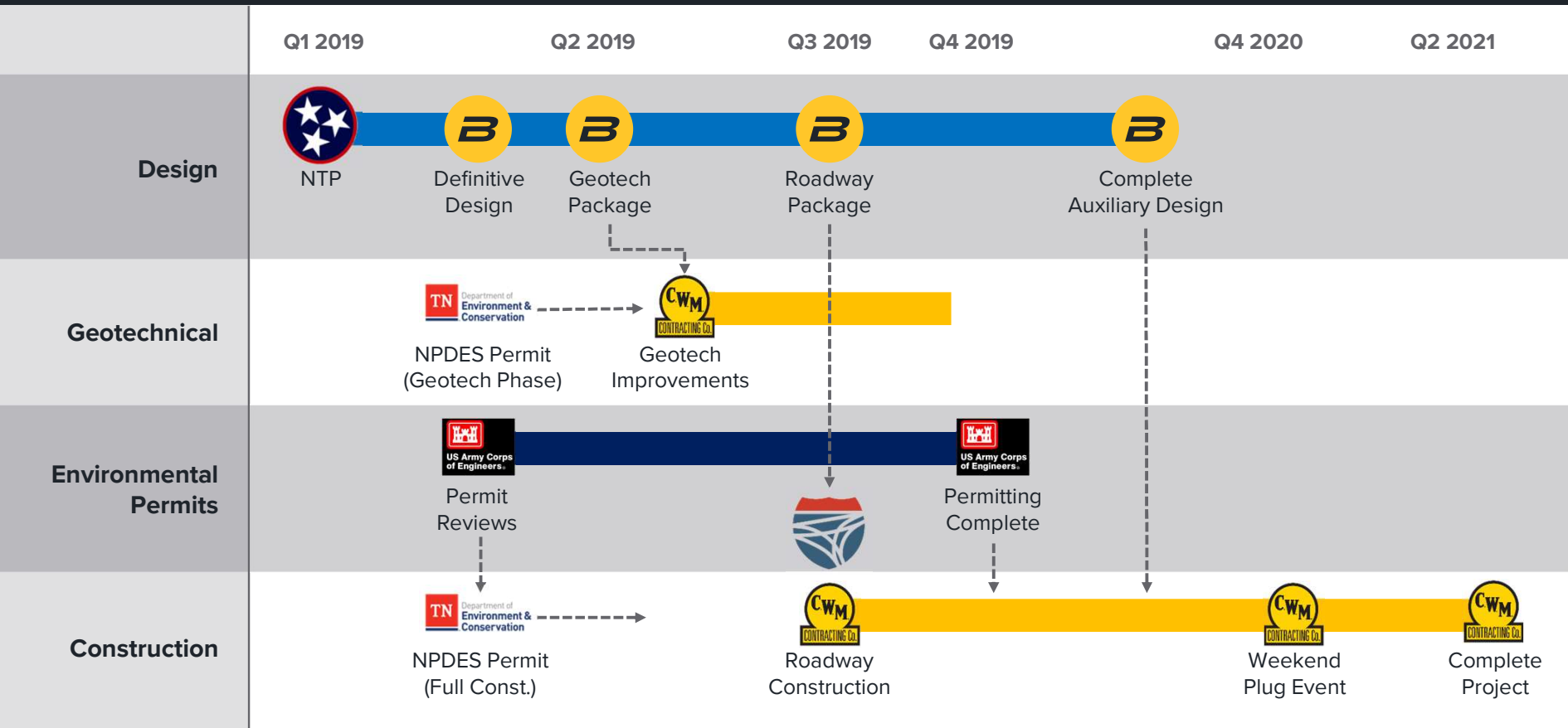
# 295 feet

 of shading  
(stream impacts)

## Permitting



# Project Phasing



## Legend



TODAY



DESIGN



BUILD



PERMITTING



# Construction Update

MARCH 2019

SEPTEMBER 2019

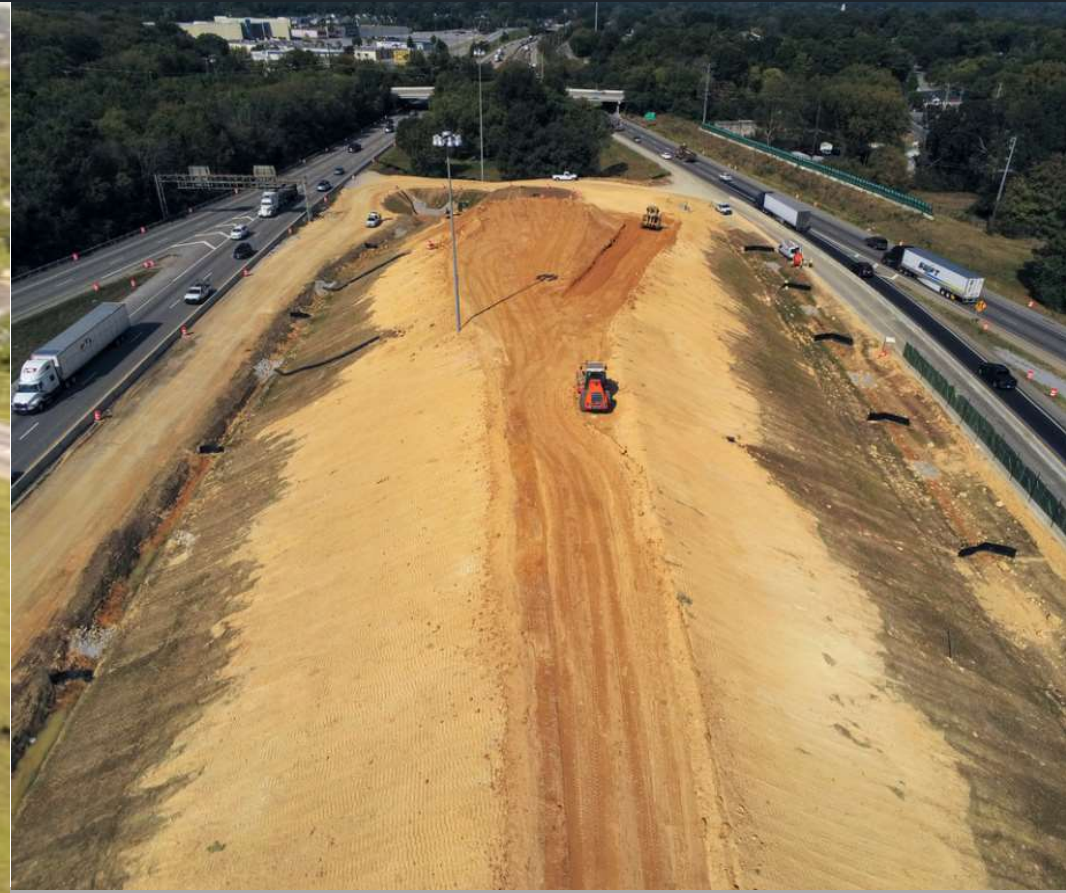




# Construction Update

MARCH 2019

SEPTEMBER 2019





MARCH 2019

# Construction Update

OCTOBER 2019





# Construction Update

JUNE 2019

OCTOBER 2019





WELCOME CENTER

# Construction Update

OCTOBER 2019



## Questions? Contact us!



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## Thank you.

<https://www.tn.gov/tdot/projects/region-2/i-75-interchange-at-i-24.html>