



> LESS STOP,
> MORE GO



I-80/94 BORMAN EXPRESSWAY

FlexRoad Project Update

March 21, 2024

Toby Randolph, Parsons, Project Manager



AGENDA

- Project Overview
- Traffic Systems Management and Operations (TSMO) Strategies
- Follow Our Progress

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PROJECT OVERVIEW



PROJECT AT A GLANCE

- Is Indiana's busiest interstate corridor
- Extends from IL-394 on the west to I-65 in IN on the east
- Will improve traffic flow and safety
- Will include innovative strategies that work within the existing system
- Construction to begin in late 2026 and last up to two years



PROJECT OVERVIEW

- The Planning and Environment Linkages (PEL) study was completed in April 2022.
- The PEL study determined the Purpose and Need for the project and developed four alternatives to be studied in greater detail.
- Each alternative includes a set of TSMO (Transportation Systems and Management Operations) strategies.
- The project is currently in its environmental and preliminary design stage.



THE BORMAN EXPRESSWAY

IL 394 to I-65

80/94

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IMPROVEMENTS MAP

80/94 FlexRoad is analyzing four alternatives with a range of TSMO strategies to maximize the efficiency and safety of existing transportation systems.



THE BORMAN EXPRESSWAY

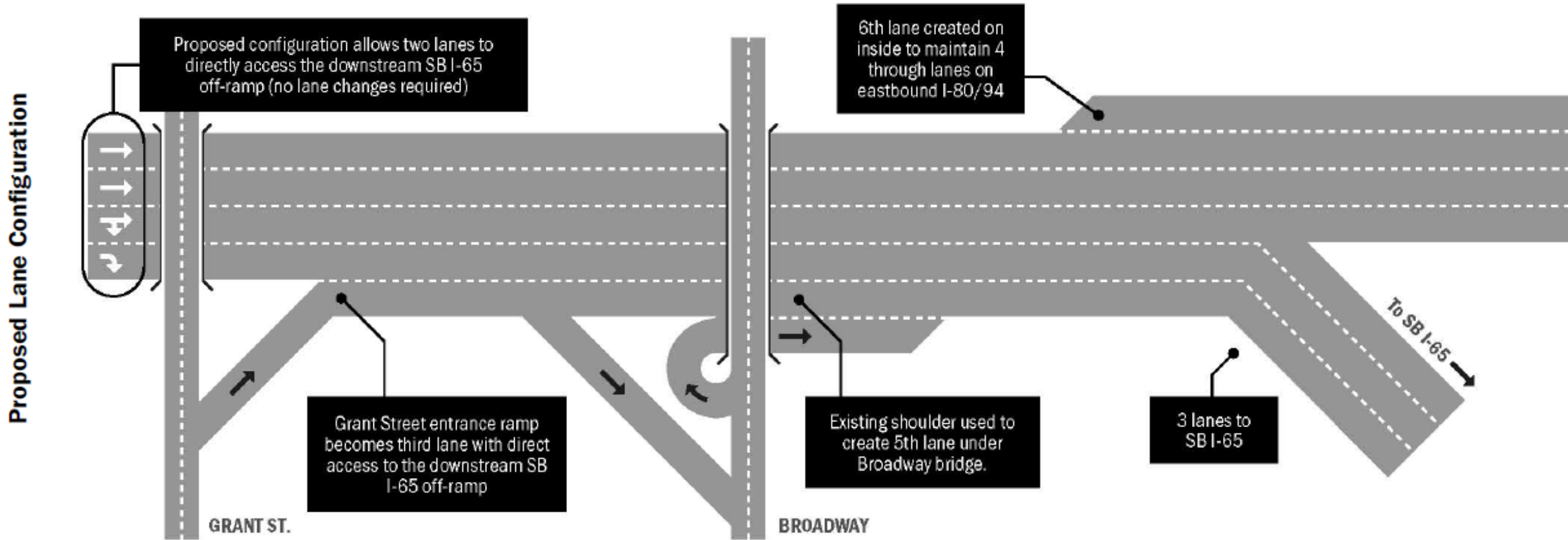


BROADWAY AVENUE AND I-65 INTERCHANGE

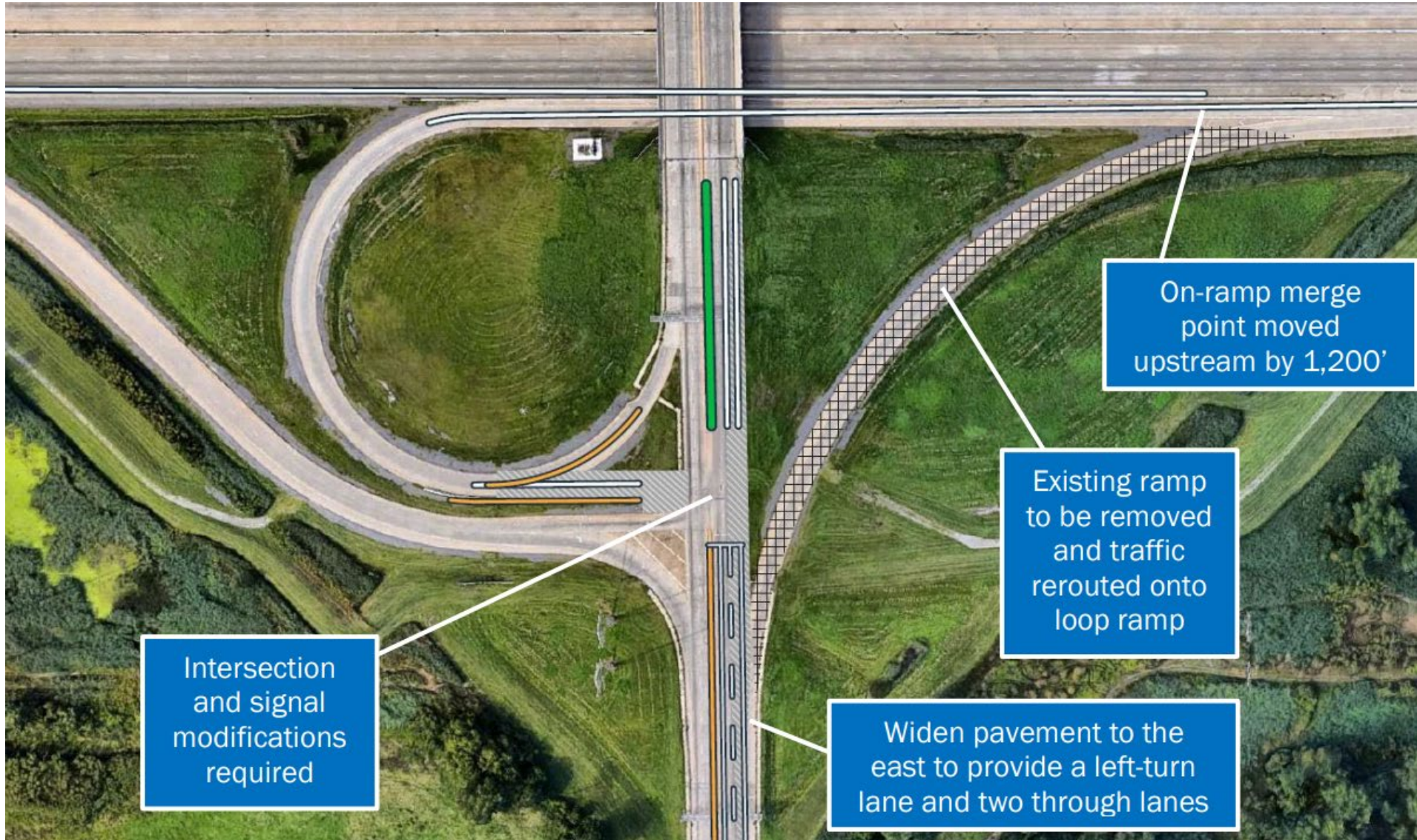
- Modifications complement TSMO strategies
- Resolves I-65 eastbound ramp bottlenecks
- Broadway Avenue improvements provide additional capacity
- Two through lanes on I-80/94 to SB I-65 eliminate weaving and lane changes



BROADWAY AVENUE AND I-65 INTERCHANGE

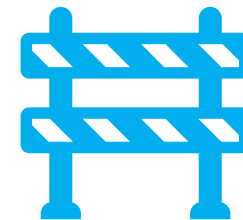
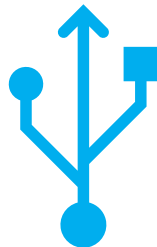


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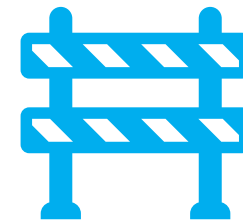
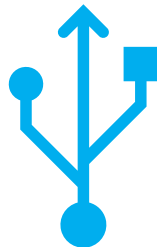
CONTRACT PACKAGING

- Advanced Preservation Contract (Letting March 2025)
 - New fiber optic cables are also part of FlexRoad.
 - Existing cable will be replaced along both sides of the road, ensuring redundancy.
 - Cables will support additional gantries and electronic transportation communication.
 - Minimal impacts to traffic are anticipated.



CONTRACT PACKAGING

- Main Contract (Letting November 2025)
 - Interchange Improvements at Broadway and I-65 EB exit ramp.
 - Concrete Pavement Restoration – 5 miles starting at IL/IN border east into Indiana
 - Reconstruction of inside shoulders throughout curves
 - All TSMO work included overhead gantry structures, ramp metering components, signing, markings, etc.



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TSMO STRATEGIES

















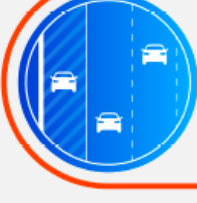









Transportation Systems Management Operations (TSMO)

- Innovative strategies that focus on operational improvements to maximize efficiency and safety
- Strategies get the most out of existing transportation systems
- Focus on improvements largely within existing footprint
- Improve reliability for motorists



ALTERNATIVES STUDIED

	Dynamic Shoulder Lane	Event Management	Improved Signage	Interchange Improvements	Ramp Metering	Variable Speed	Dynamic Lane Control	Queue Warning
Alternative 1 Base Package								
Alternative 2 Base Package + Ramp Metering								
Alternative 3 Base Package + Mainline Safety Bundle								
Alternative 4 All Options								

DYNAMIC SHOULDER LANES/LANE CONTROL

- Temporary use of shoulders during peak congestion
- Conditions
 - Peak periods
 - Demand response
 - Incident response
- Considerations
 - Physical obstructions (e.g., bridges)
 - Shoulder debris/snow removal
 - Drainage



VARIABLE SPEED LIMITS (VSLs)

- Speed limit adapts to changing traffic conditions, including
 - Congestion
 - Incidents
 - Work zones
 - Weather
- Reduces crashes and increases safety
- Signage and gantries show current speed limits



GANTRY CONCEPT – DYNAMIC SHOULDER & VSLs

2A. FULL MATRIX 11' x 64' DISPLAY
3 LINES OF CENTERED SUPPLEMENTAL TEXT (NEVADA, OHIO)
WALK-IN GANTRY STRUCTURE



GANTRY CONCEPT – DYNAMIC SHOULDER & VSLs



RAMP METERING

- Signals installed at on-ramps control vehicles entering the roadway
- Monitors breaks in traffic on the roadway
- Reduces crash rates and improves travel time
- Sensors monitor traffic on both highway and ramps
 - Trigger metering system
 - Select appropriate flow rate



QUEUE WARNING

- Real-time messaging alerts drivers of conditions ahead
- Avoids secondary incidents
- Improves safety
- Improves travel times



EVENT MANAGEMENT

- Improve operations and maintenance
- Incentivize towing companies to remove disabled vehicles quickly
- Increase Hoosier Helper staff



TSMO in the Region

TSMO Strategies in Operation Today

- Illinois Tollway – I-90
 - Bus on Shoulder
 - Dynamic Shoulder Lane
 - Lane Control
- Chicago Area (IDOT)
 - Ramp Metering
- Indiana Toll Road
 - Queue Warning
 - Variable Speed Limits
- US 23 (Michigan)
 - Dynamic Shoulder Lane
 - Lane Control
 - Queue Warning
 - Variable Speed Limits



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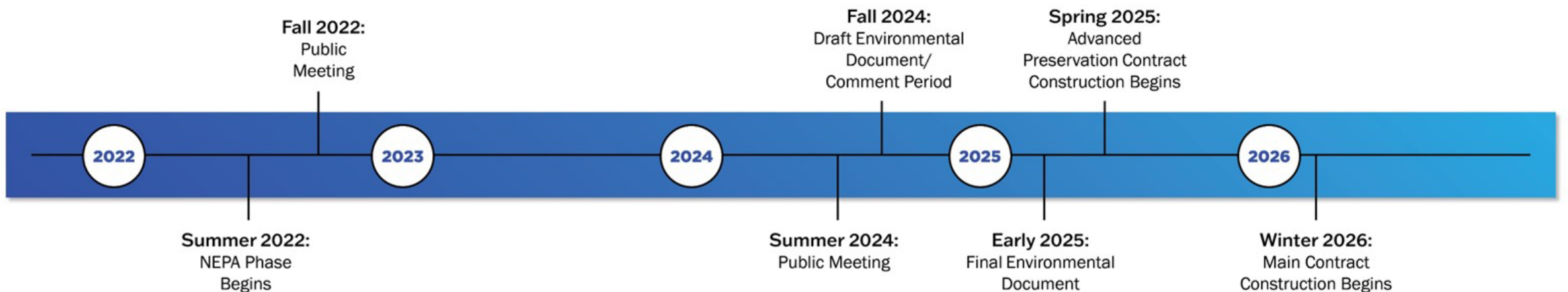
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FOLLOW OUR PROGRESS

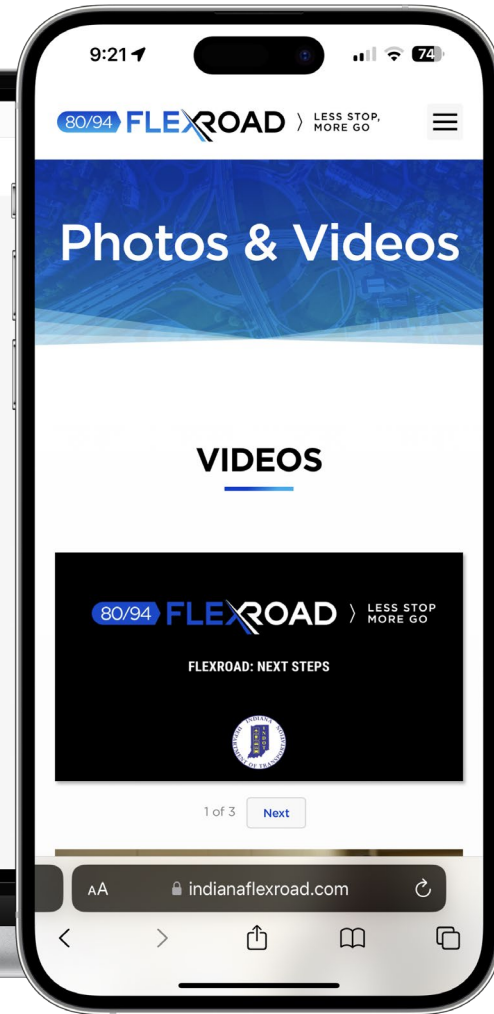
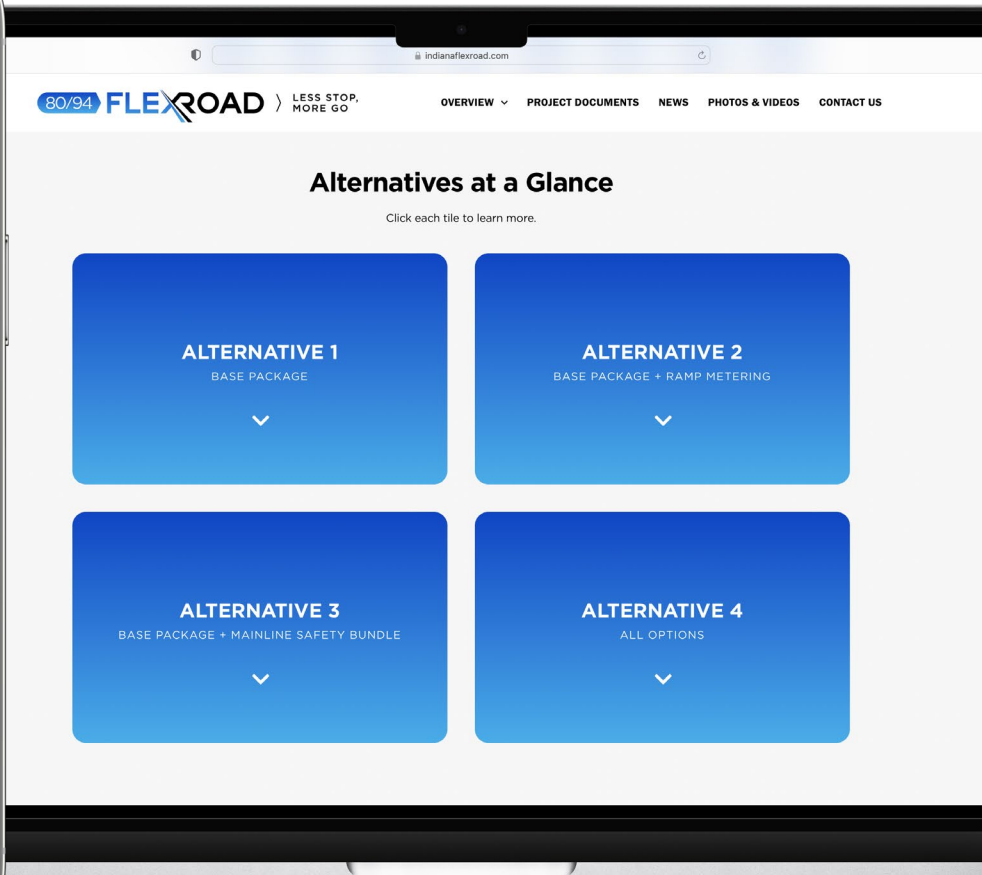


NEXT STEPS

- Public meetings are anticipated this summer.
- The NEPA Study is expected to be finalized in early 2025.
- It will identify a preferred alternative.
- A formal comment period and public hearing will be held.
- Construction is expected to begin in winter 2026.



LEARN MORE ON OUR WEBSITE



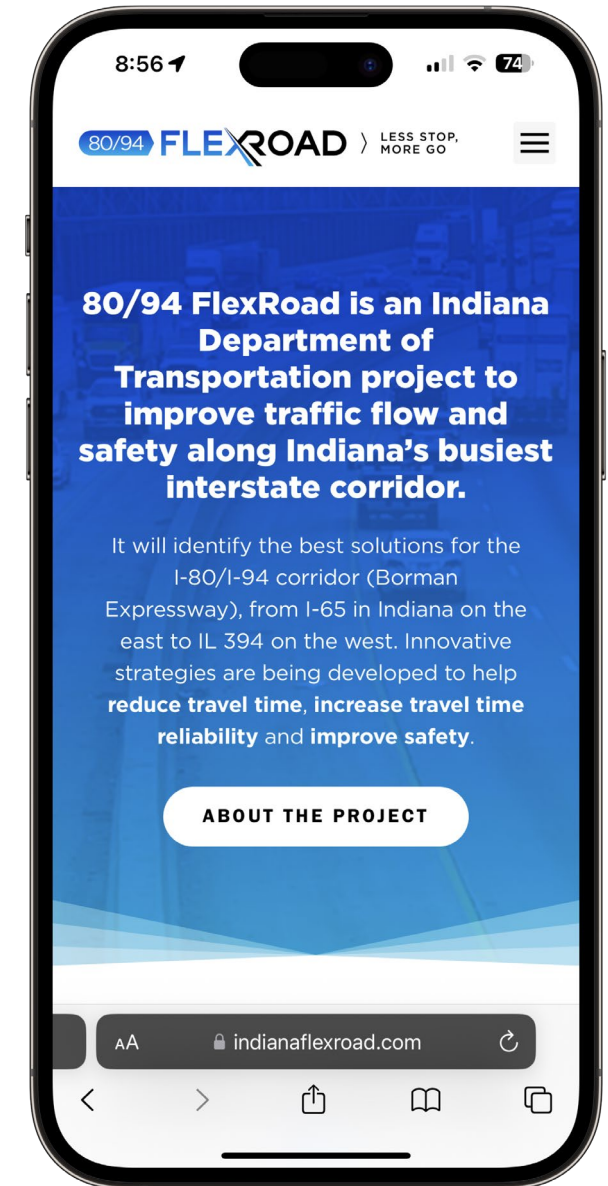
Find additional TSMO materials, information about alternatives and more at [IndianaFlexRoad.com](https://www.IndianaFlexRoad.com).

FOLLOW OUR PROGRESS

- Text “INDOT 8094 FlexRoad” to 468311
- Sign up for email updates on website
- Social Media

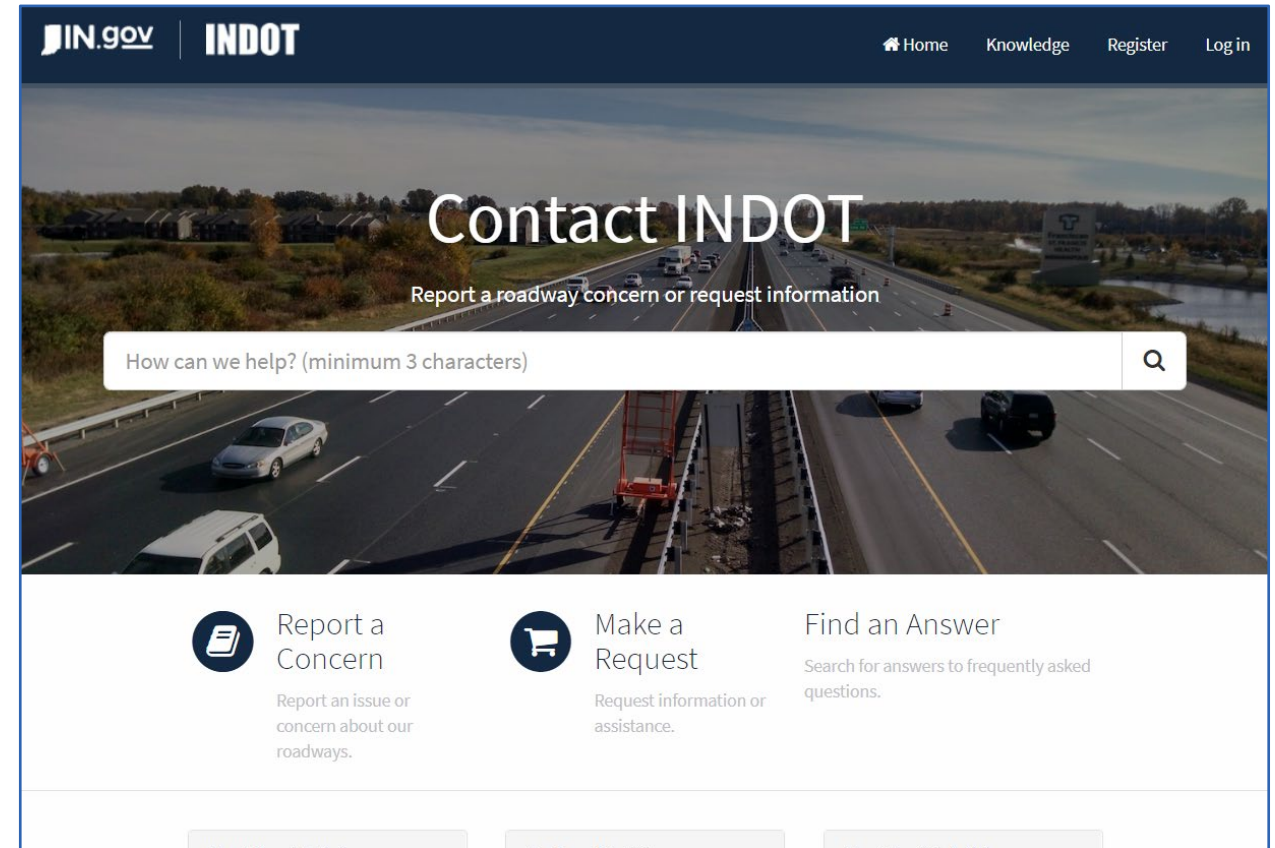
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QUESTIONS AND COMMENTS

- INDOT4U.com
- 855-INDOT4U (468-6848)
- INDOT@indot.in.gov
- Reference FlexRoad



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THANK YOU



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