

January 16, 2024









Agenda

- I-496/US-127 from I-96 to I-69
- Project Overview
- Proposed Operational Improvements
- Preliminary Maintenance of Traffic scheme





I-496 & US-127 Construction Work

I-496 & US-127 proposed construction work by year:

2023 Construction (COMPLETE):

EB I-496 to NB US-127 Ramp and SB US-127 to WB I-496 Ramp bridge and roadway reconstruction

2023 to 2025 Construction (begin work late in 2023):

Reconstruction of I-496/US-127 from I-96 to I-496

2026 to 2027 Construction (begin work early in 2026): Rehabilitation of US-127 from I-496 to I-69





I-496/US-127 Reconstruct from I-96 to I-496

Project information:

Reconstruction of 3.7 miles of roadway from I-96 to I-496

Reconstruction of the Dunckel Rd and Trowbridge Rd interchange ramps

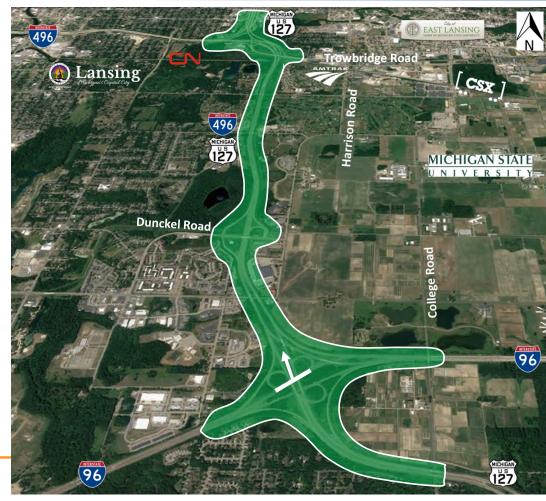
Work on 18 bridges

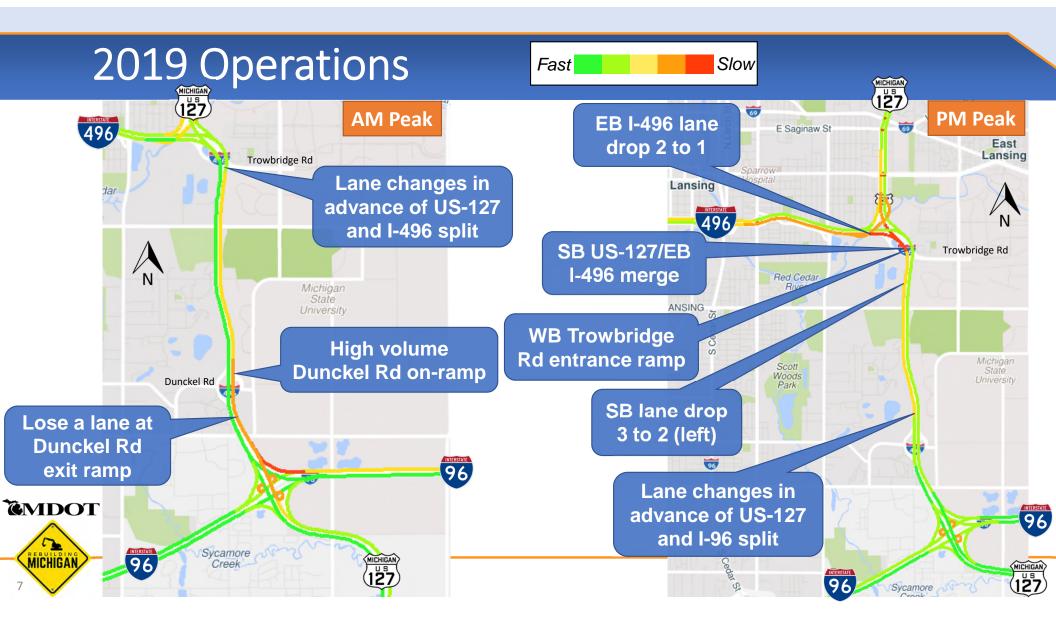
Reconstruction of Trowbridge Rd

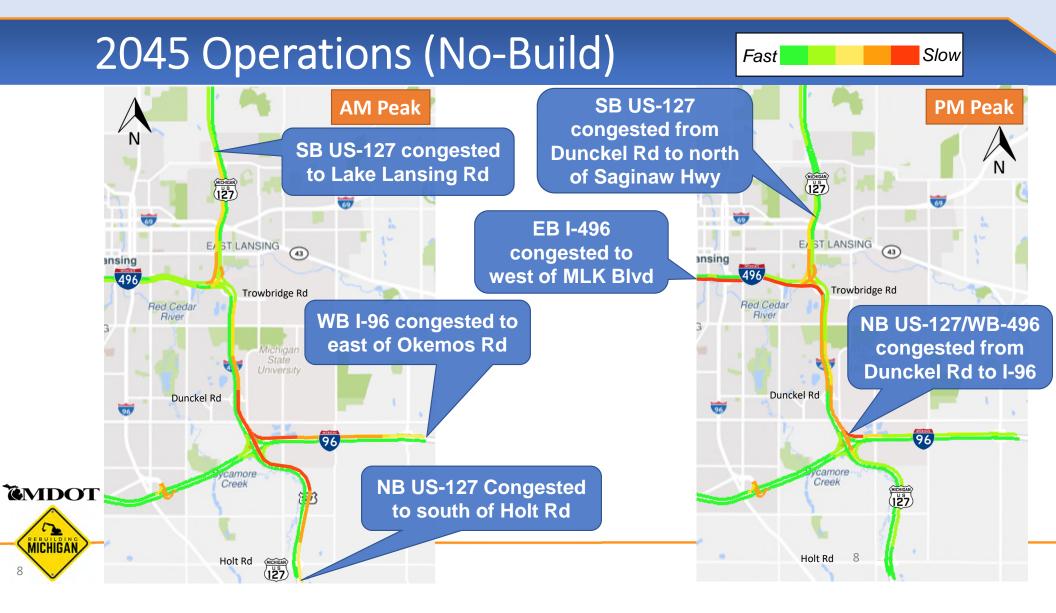
Addition of freeway lighting from Dunckel Rd to Trowbridge Rd

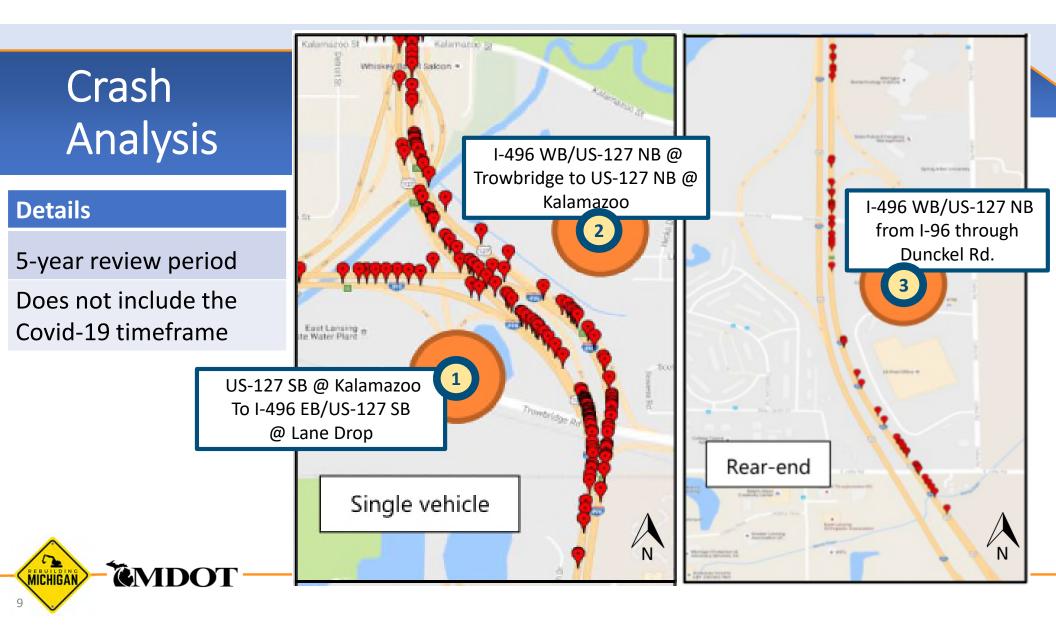
Rebuilding to occur from late 2023 through the end of 2025











Key takeaways from the "Operations" slides

"Operations" slide key takeaways:

AM Peak issues are due to lane drops at Dunckel Rd, high traffic volumes entering NB US-127 from Dunckel Rd and lane configuration issues at I-496 and US-127 split.

PM Peak issues are due to lanes drops along EB I-496 and SB US-127 and freeways merging in with each other.

Traffic operations worsen if the roadway is not upgraded in future years.

NB US-127 begins to see congestion at Dunckel Rd in the PM Peak in the future.



Proposed Roadway Fix

Roadway fix based on Operational Analysis

WB I-496 / NB US-127:

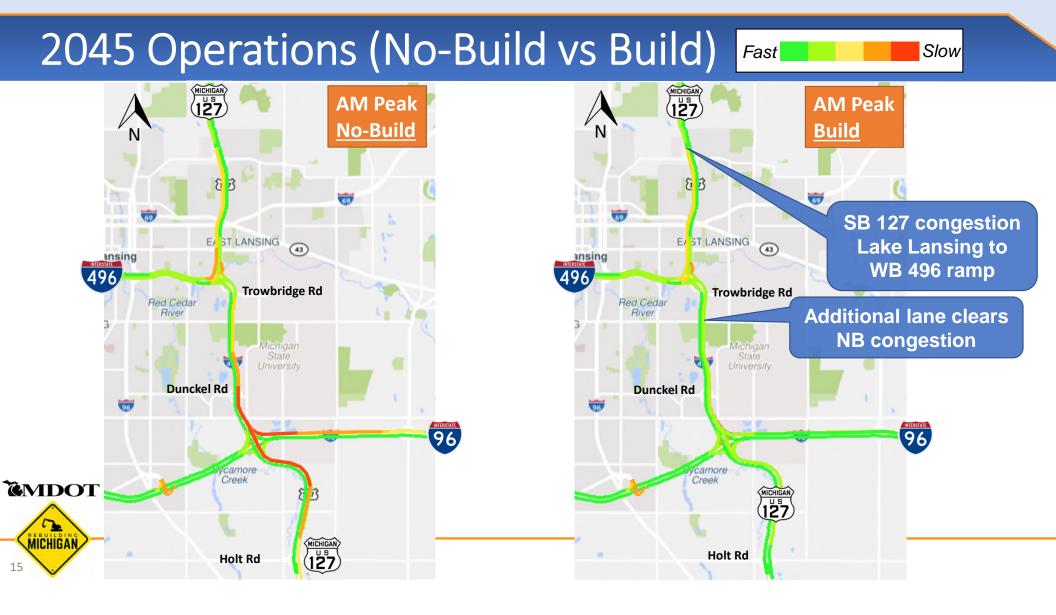
- Add a 3rd lane from Dunckel Rd to I-496
- Extend the NB Dunckel on-ramp acceleration lane
- 2 dedicated lanes to both NB US-127 & WB I-496

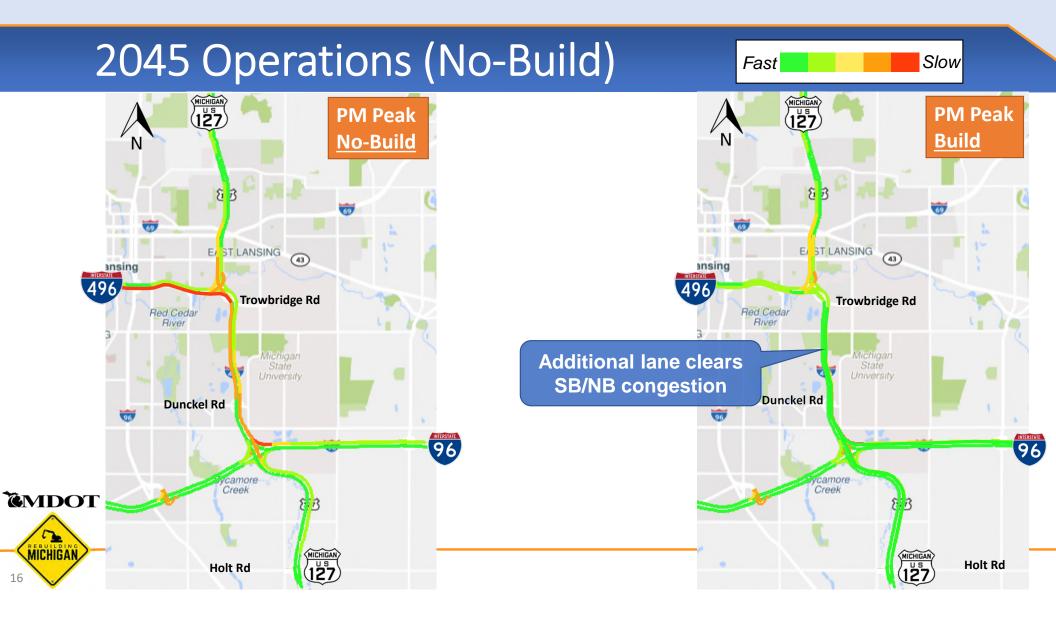
EB I-496 / SB US-127:

- Add a 3rd lane from EB I-496 to Dunckel Rd
- Extend the SB US-127 median lane drop
- 2 dedicated lanes to both SB US-127 & EB I-96

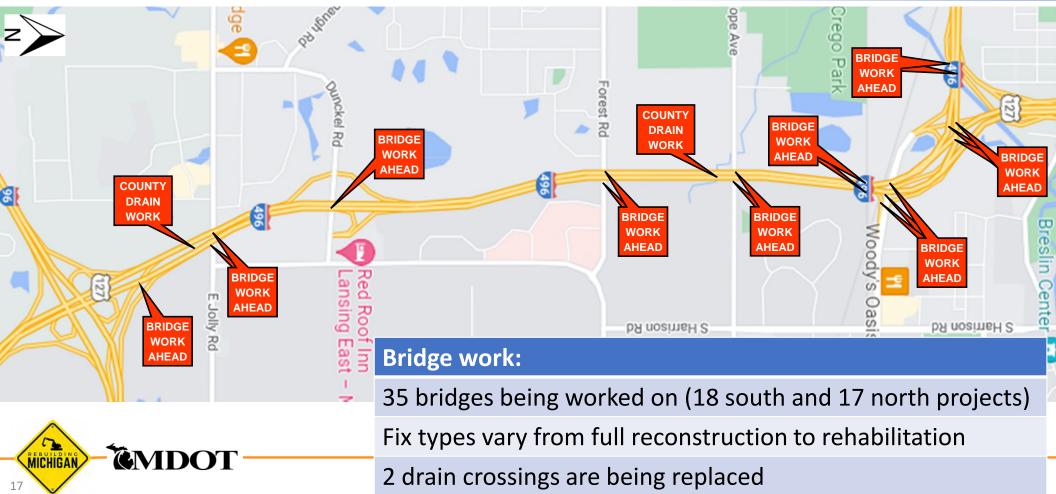








Bridge Work



NB US-127 & WB I-496 exit ramp to Trowbridge Rd





NB US-127 & WB I-496 exit ramp to Trowbridge Rd



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NB US-127

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Project information:

NB US-127 horizontal curve to meet 70 mph design speed

WB Trowbridge ramp to NB US-127 to move approx. 150 ft west

Note: NB US-127 and WB I-496 proposed roadway highlighted in yellow.



Realign and Reconstruct the NB US-127 horizontal curve to meet 70 mph speed (existing speed is 60 mph)

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US 127 Existing ramp and mainline to be relocated west of current location

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Trowbridge Rd

2023 Construction Work Tasks

2023 Construction work tasks:

Preparation work in advance of 2024 construction.

Shoulder upgrades to accommodate temporary traffic during 2024 construction.

Construction of temporary crossovers to maintain traffic during construction.

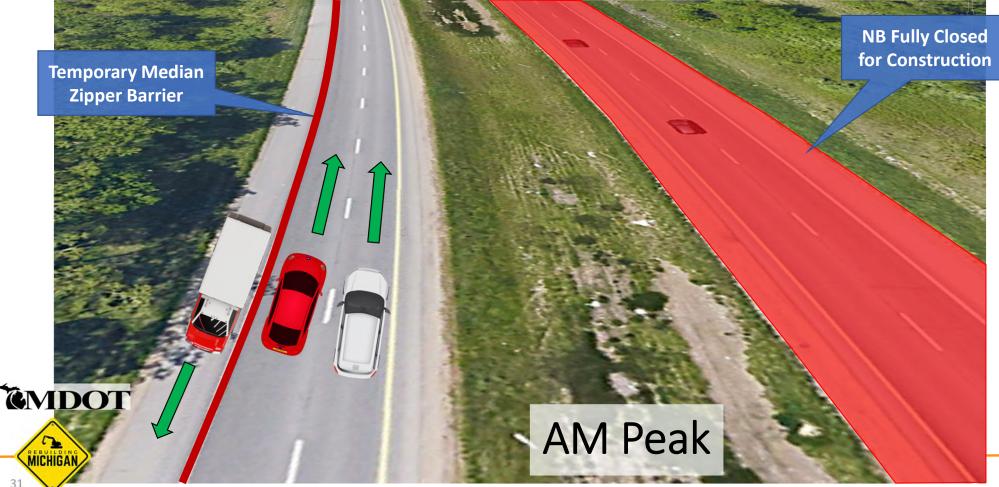


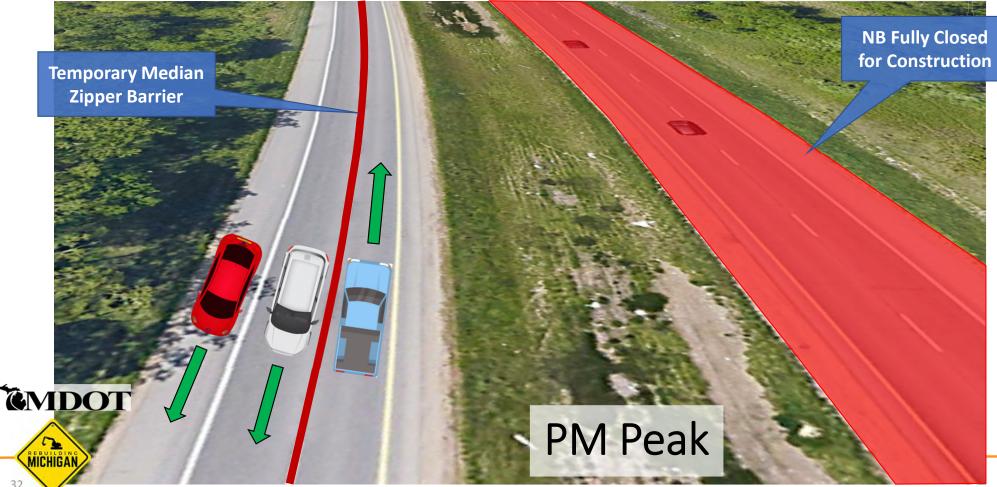












Zipper Barrier

video of how zipper barrier works -Google Search







NB US-127 to Dunckel Rd Exit Ramp Detour



SB US-127 to Dunckel Rd Exit Ramp Detour

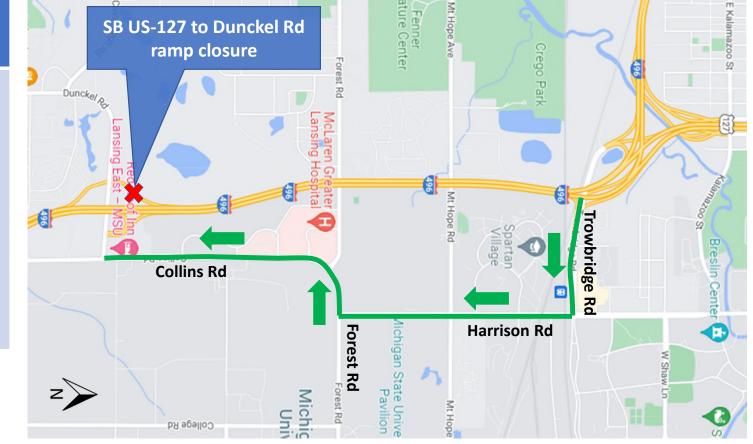
SB US-127 to Dunckel Rd Detour:

- SB US-127 to Trowbridge Rd
- East on Trowbridge Rd to Harrison Rd
- South on Harrison Rd to Forest Rd
- West on Forest Rd to Collins Rd

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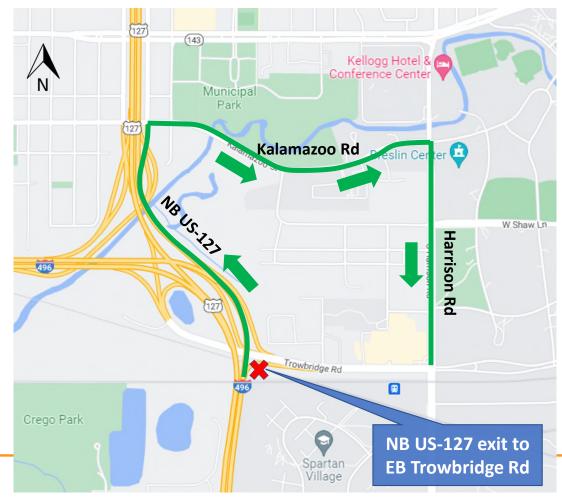
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NB US-127 to EB Trowbridge Exit Ramp Detour

NB US-127 to Trowbridge Rd Detour:

- NB US-127 to Kalamazoo Rd
- East on Kalamazoo Rd to Harrison Rd
- South on Harrison Rd to Trowbridge Rd





NB US-127 to EB Trowbridge Exit Ramp Detour

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SB US-127 to EB I-96 Detour:

• SB US-127 to the Holt Rd exit ramp



Outreach

Future Public Outreach:

- Additional meetings as-needed/requested throughout the project and based on the proposed construction schedule.
- Currently scheduling public meeting for mid-February 2024
- Other ways of connecting on this project include:
- Website: <u>https://www.michigan.gov/127Corridor</u>
 - Check website for updates, presentation slides, future meeting links, dates and times, and
 - o Subscribe to US-127 updates on the website above

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Questions?

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