

COMMUNITY OPEN HOUSE

FEBRUARY 17, 2022





RESOURCES



Visit the website to view all the displays from the Innovate Mound 401 event and learn more about the project.

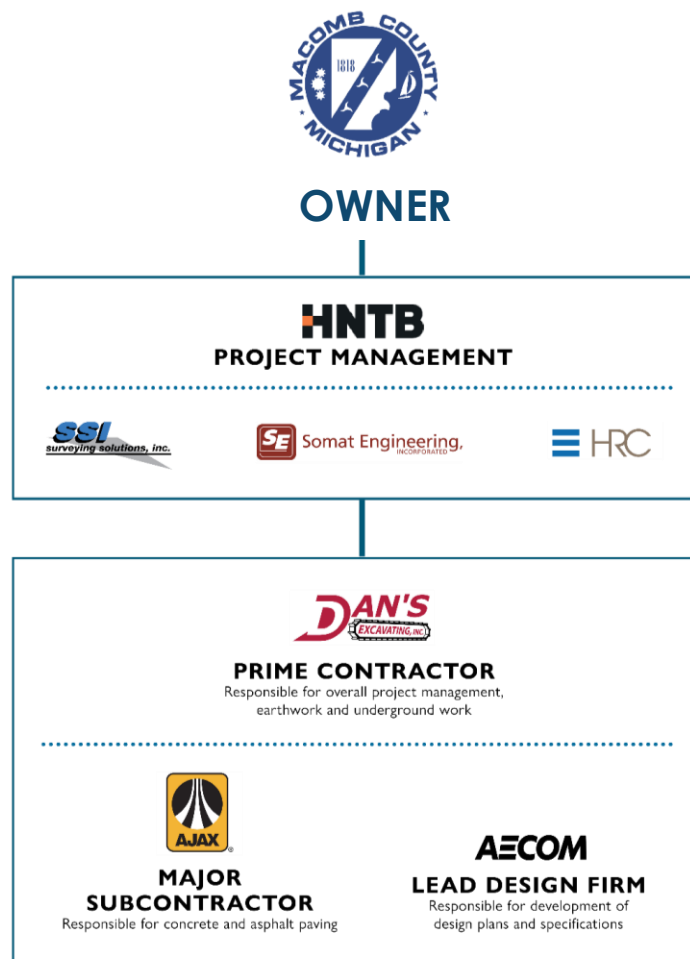
www.innovatemound.org

1-855-MOUND4U (668-6348)

Info@InnovateMound.org



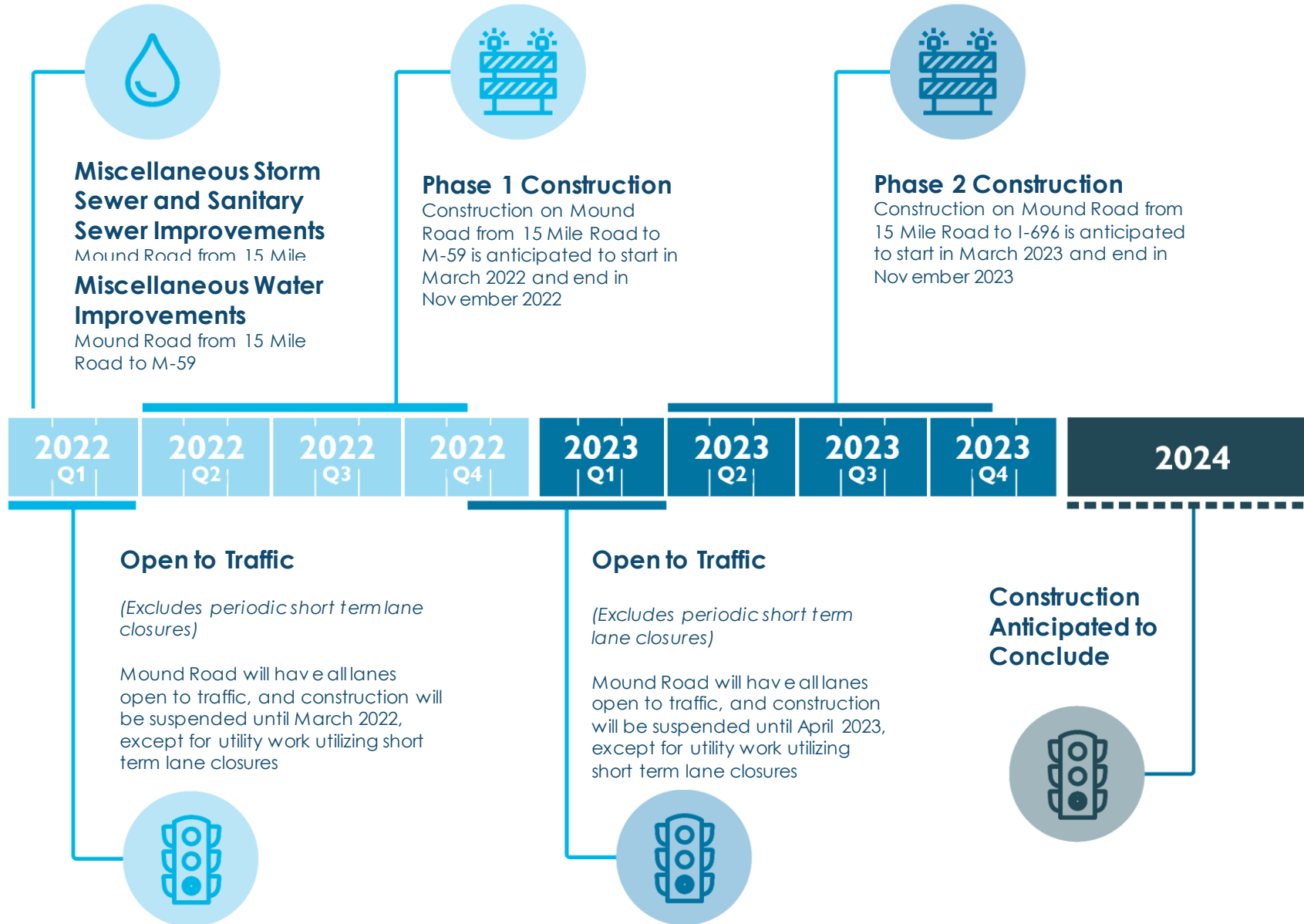
DESIGN-BUILDER TEAM



PROJECT PARTNERS



PROJECT TIMELINE



2022 CONSTRUCTION ACTIVITY

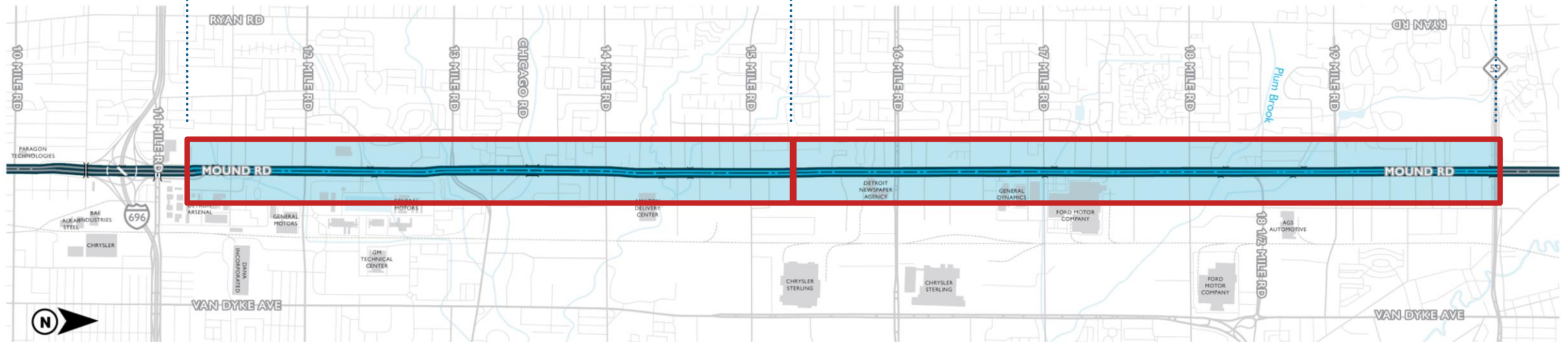
PERMANENT AND TEMPORARY CONSTRUCTION LIMITS

2022 TEMPORARY CONSTRUCTION LIMITS

North of I-696 to North of 15
Mile Road

2022 PERMANENT CONSTRUCTION LIMITS

North of 15 Mile Road to M-59

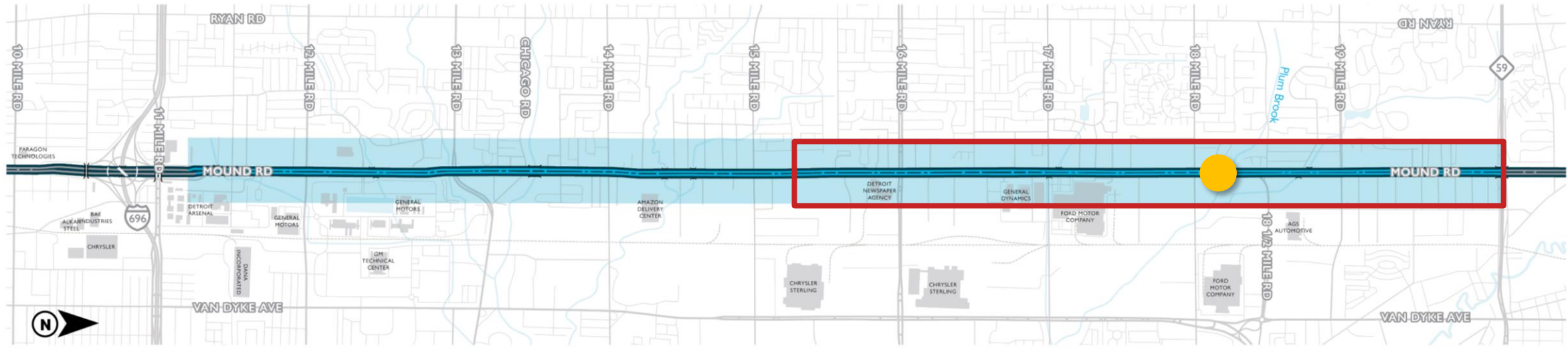


FULL RECONSTRUCTION
Mound Road from 11 Mile Road to M-59



PERMANENT CONSTRUCTION LIMITS

2022 CONSTRUCTION ACTIVITY



FULL RECONSTRUCTION

Mound Road from 11 Mile Road to M-59



2022 PERMANENT CONSTRUCTION LIMITS

North of 15 Mile Road to M-59



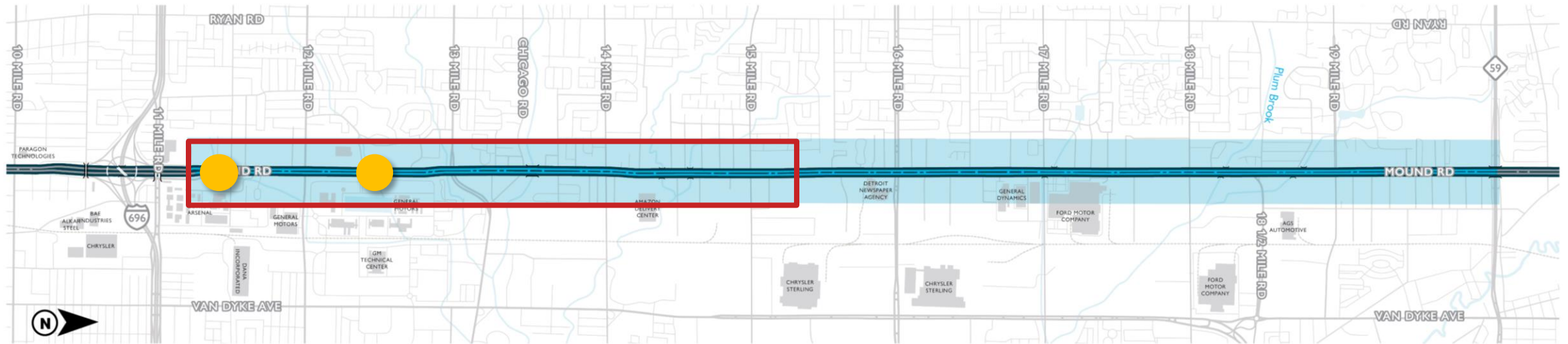
BRIDGE REHABILITATION WIDENING

Duration	March to December 2022	Construction Items	Reconstruction and Widening of Mound Road for 2022 Construction Permanent Traffic Signal Installation Storm Sewer Installation Water Main Installation Storm Sewer and Sanitary Sewer Repairs Permanent Bridge Widening of NB & SB Mound Road over Plum Brook
Major Intersections	19 Mile Road 18 1/2 Mile Road 18 Mile Road 17 Mile Road 16 Mile Road		
Bridge Work	NB Mound over Plum Brook SB Mound over Plum Brook		



TEMPORARY CONSTRUCTION LIMITS

2022 CONSTRUCTION ACTIVITY



FULL RECONSTRUCTION

Mound Road from 11 Mile Road to M-59



2022 TEMPORARY CONSTRUCTION LIMITS

North of I-696 to North of 15 Mile Road



BRIDGE/CULVERT REPLACEMENT

Duration	August to December 2022	Construction Items	Temporary Widening of Mound Road for 2022 Construction Temporary Traffic Signal Installation Miscellaneous Storm Sewer Installation Miscellaneous Water Main Installation Miscellaneous Storm Sewer and Sanitary Sewer Repairs Permanent Bridge Widening of NB & SB Mound Road over Plum Brook
Major Intersections	15 Mile Road 14 Mile Road 13 Mile Road 12 Mile Road		
Bridge/Culvert Work	Mound over Bear Creek Mound over McCoy Drain		

[illegible]

BIOSWALE/BASIN CONSTRUCTION

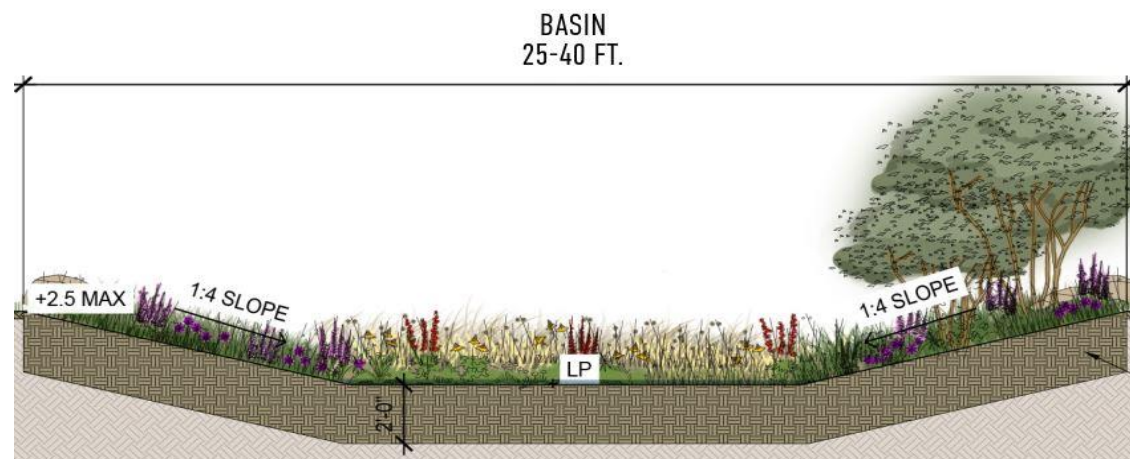
MOUND ROAD FROM NORTH OF 15 MILE TO M-59

Typical Work Zone

- ▶ Reduce total volume of runoff
- ▶ Increase infiltration
- ▶ Improved water quality

Eight (8) Bioswale/Basins Locations

- ▶ Native to Michigan plant palette
- ▶ Tolerant of both wet and dry conditions





UTILITY RELOCATIONS & UPGRADES

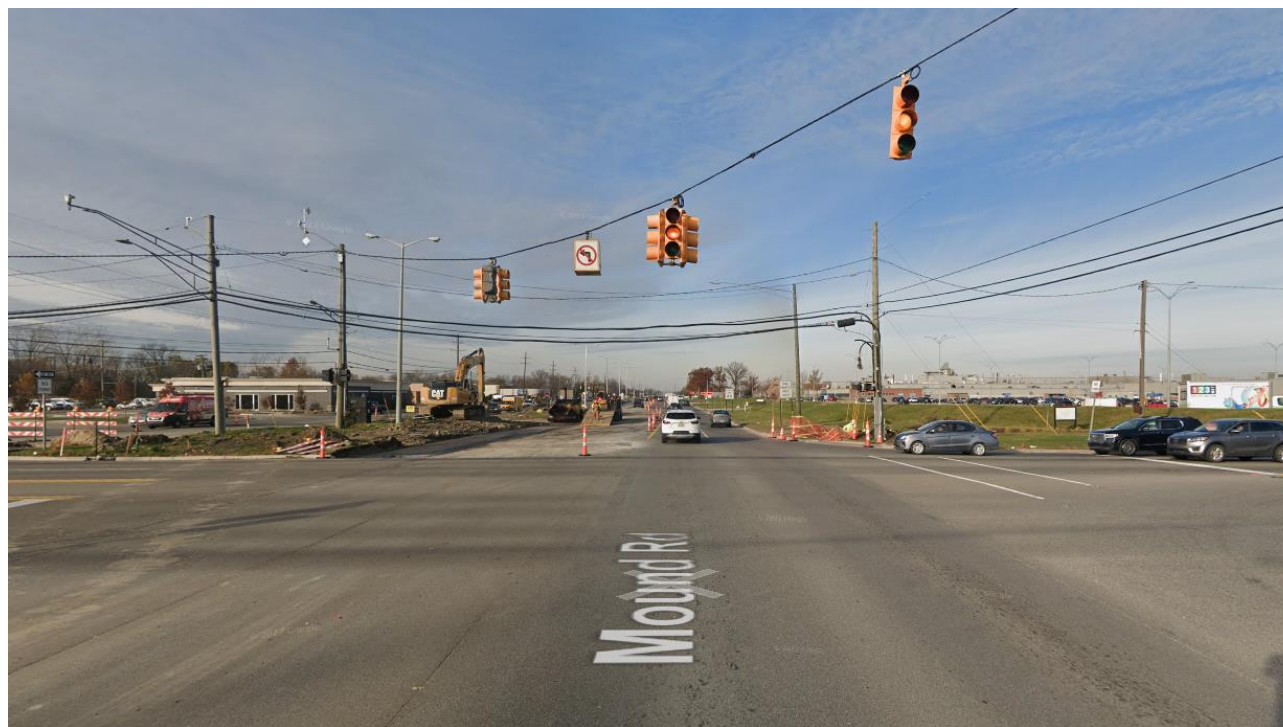
MOUND ROAD FROM NORTH OF 15 MILE TO M-59

Municipal Utility Upgrades Sterling Heights & Warren

- ▶ Watermain upgrades
- ▶ Sanitary sewer upgrades

Private Utility Relocations

- ▶ DTE, Consumers, AT&T, Comcast, and Other Communication Companies
- ▶ Gas relocations (underground)
- ▶ Power relocations (overhead)
- ▶ Street lighting (overhead and underground)
- ▶ Communications (overhead and underground)





TRAFFIC SIGNALS AND INTELLIGENT TRANSPORTATION SYSTEMS

MOUND ROAD FROM NORTH OF 15 MILE TO M-59

Permanent Traffic Signals

- ▶ Mast arm signals at all project signals
- ▶ Box span configuration
- ▶ Painted black for a consistent corridor
- ▶ Adaptive traffic signal control

Intelligent Transportation Systems

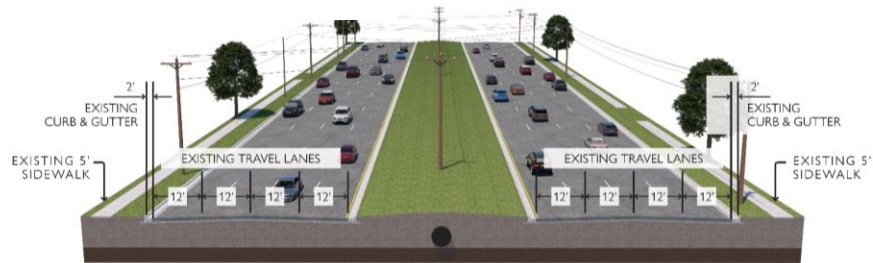
- ▶ Smart corridor with new infrastructure
- ▶ Multi-modal roadside units (RSU) deployment
- ▶ RWIS – atmospheric and pavement sensors
- ▶ WI-FI detectors
- ▶ Traffic monitoring cameras (CCTV)
- ▶ Data management system



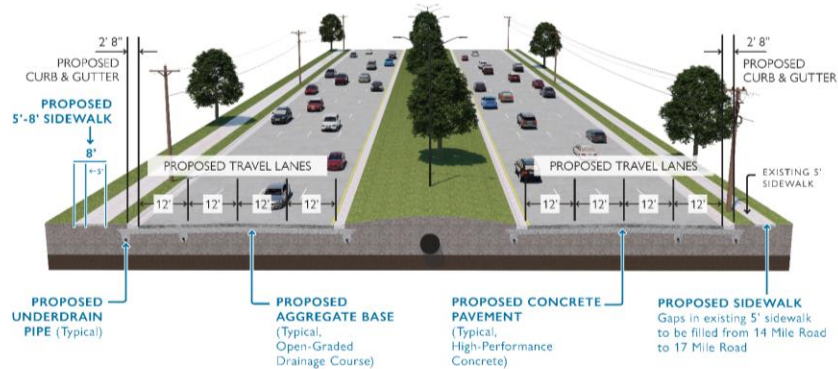
CROSS SECTIONS

11 Mile Road to 17 Mile Road

Existing

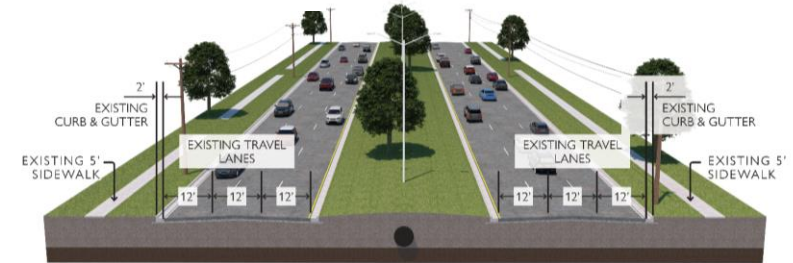


Proposed

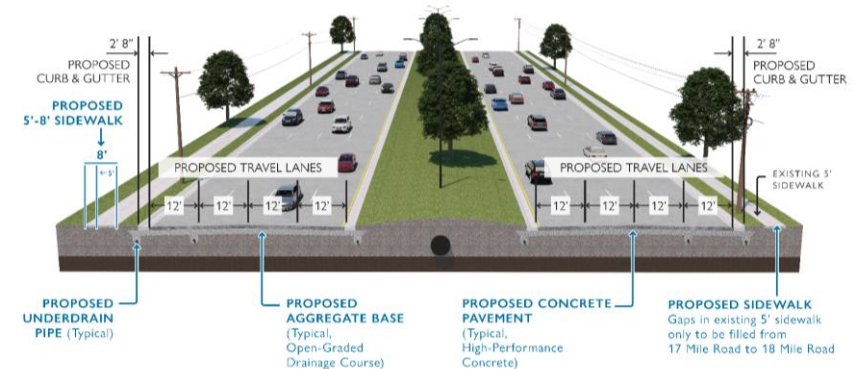


17 Mile Road to M-59

Existing



Proposed



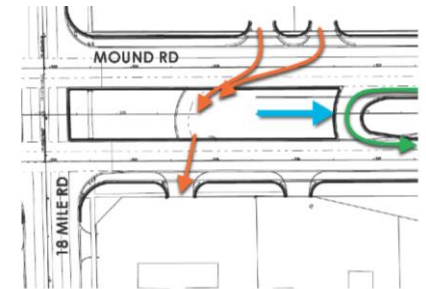
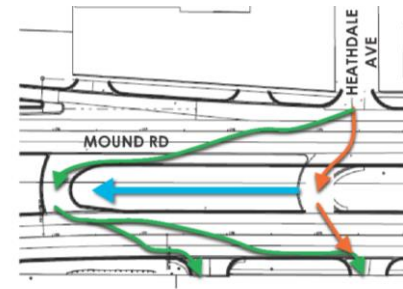
ACCESS MANAGEMENT

Crossover Changes



Crossover Change Examples

- Relocate Southbound-Northbound crossover at **HEATHDALE AVE.** further south of the intersection.
- Relocate Southbound-Northbound crossover **DIRECTLY NORTH OF 18 MILE RD.** further north.



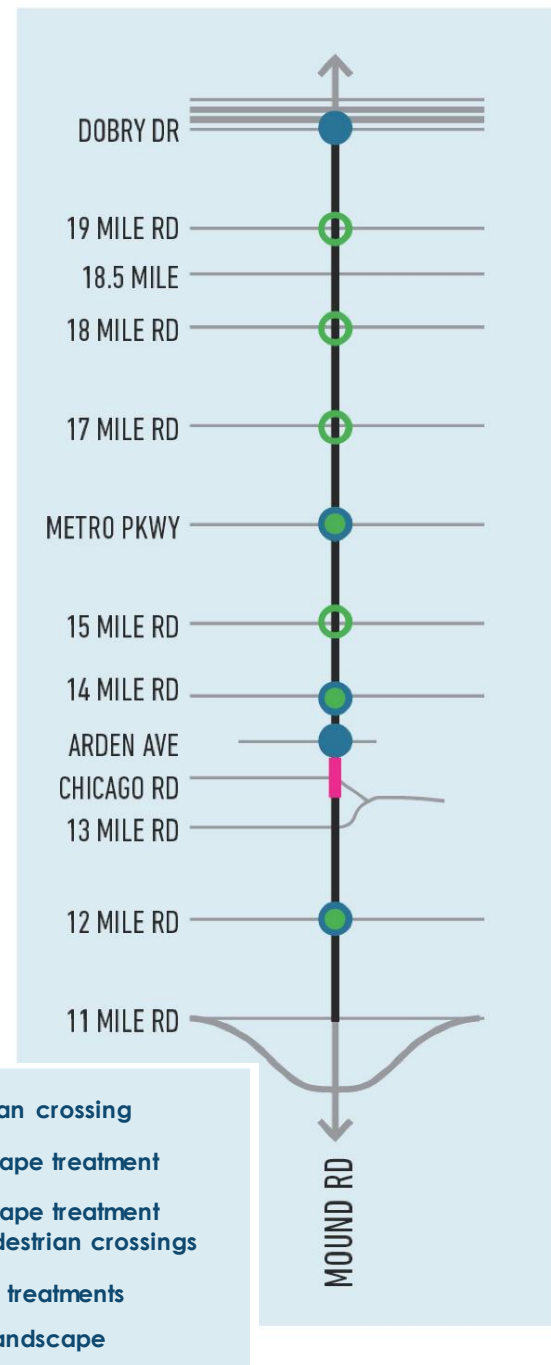
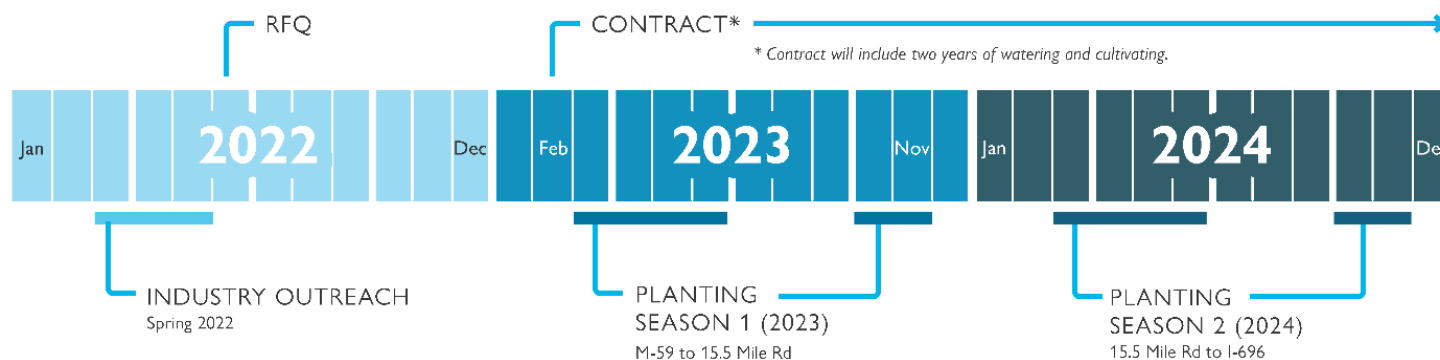
- Existing weaving conflict (Orange arrow)
- Crossover relocation (Blue arrow)
- Removal of weaving conflict with crossover relocation (Green arrow)



AESTHETIC IMPROVEMENTS

- ▶ Aesthetic improvements include:
- ▶ Village of warren landscape
 - ▶ Perennials and ornamental grasses
- ▶ Intersection landscape treatments
 - ▶ Enhanced planting
 - ▶ Lighting feature

- ▶ Enhanced pedestrian crossings
 - ▶ Colored crosswalks
- ▶ Median landscape treatments
 - ▶ Evergreen tree plantings
 - ▶ Ornamental tree plantings
- ▶ Aesthetic renderings available at innovatemound.org/401event



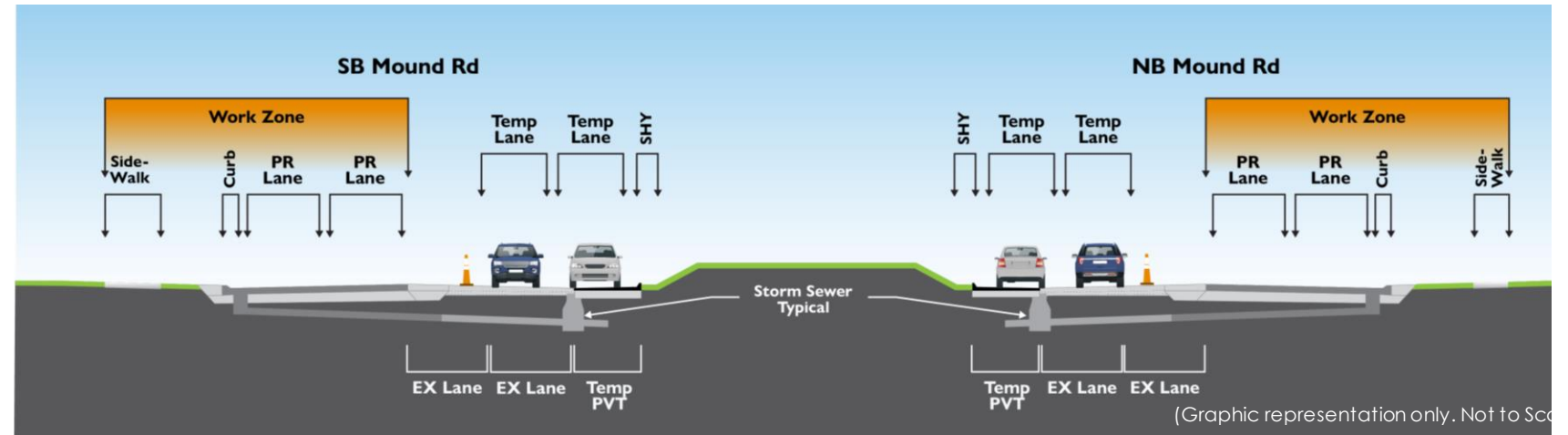
MARCH - NOVEMBER 2022

TYPICAL WORK ZONE

MOUND ROAD FROM NORTH OF 15 MILE TO M-59

Typical Work Zone March-August

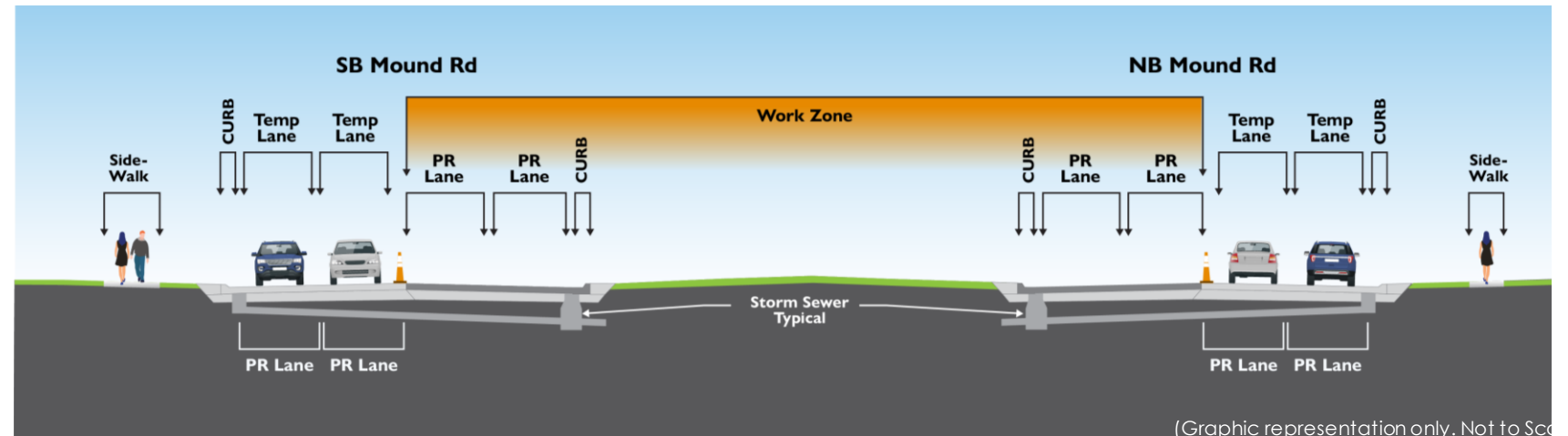
- Mound Road north of 15 Mile Road to M-59



(Graphic representation only. Not to Scale)

Typical Work Zone August – November

- Mound Road north of 15 Mile Road to M-59



(Graphic representation only. Not to Scale)

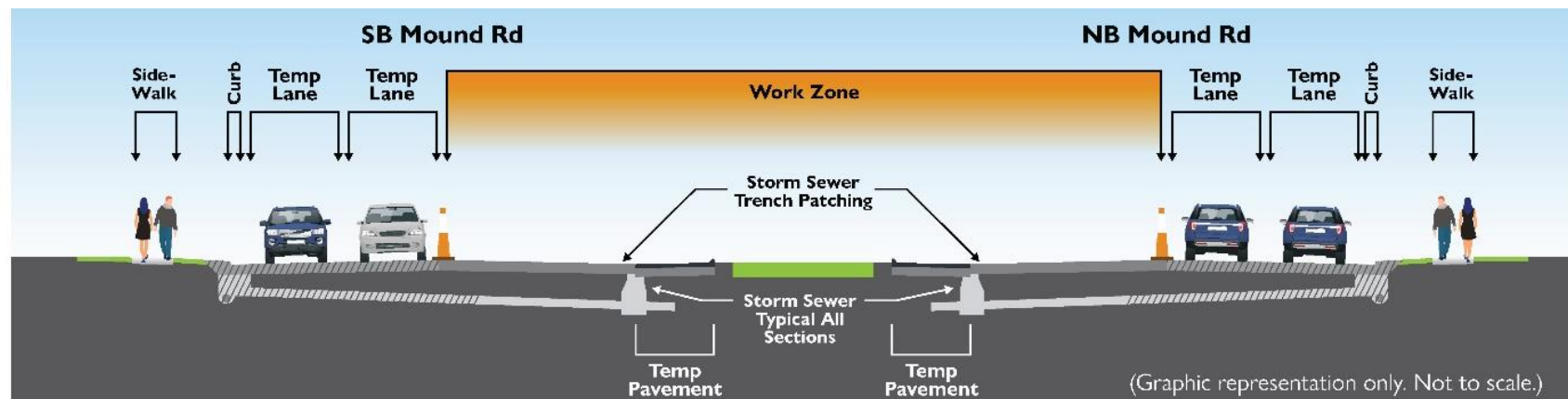
FALL/WINTER 2022-2023

TYPICAL WORK ZONE & WINTER CONFIGURATION

MOUND ROAD FROM I-696 TO NORTH OF 15 MILE

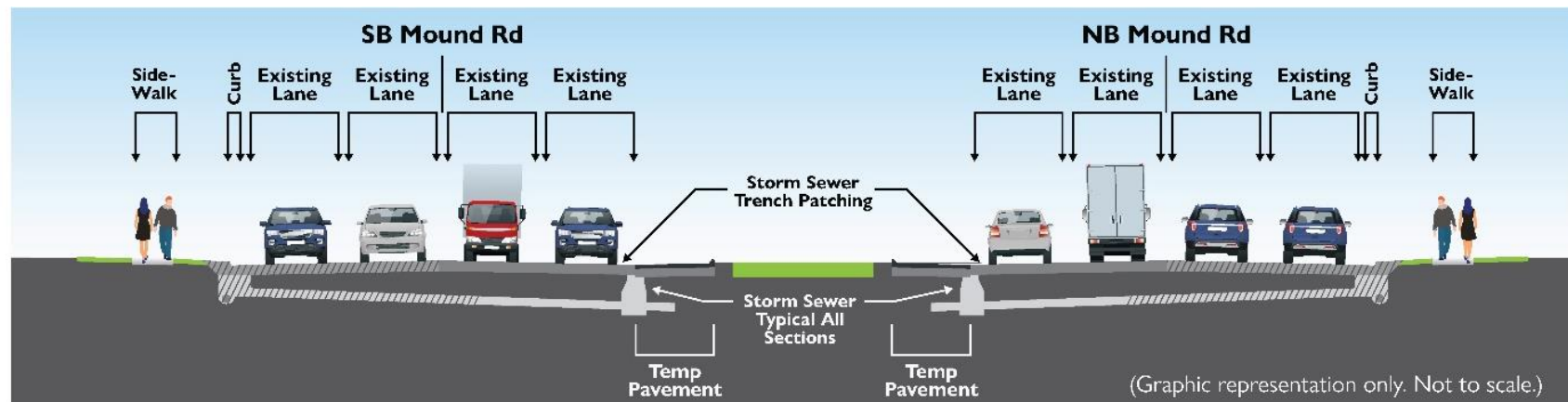
Typical Work Zone August – November

- Mound Road
I-696 to the north
of 15 Mile Road



Winter Configuration

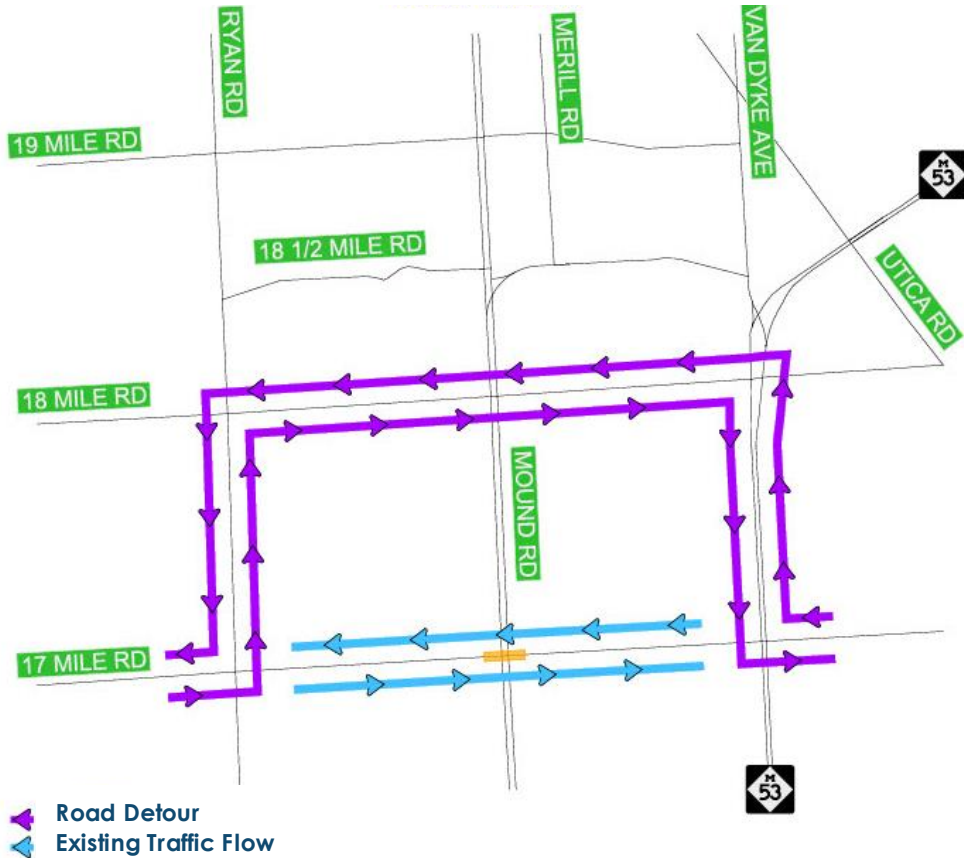
- Mound Road
I-696 to the north
of 15 Mile Road



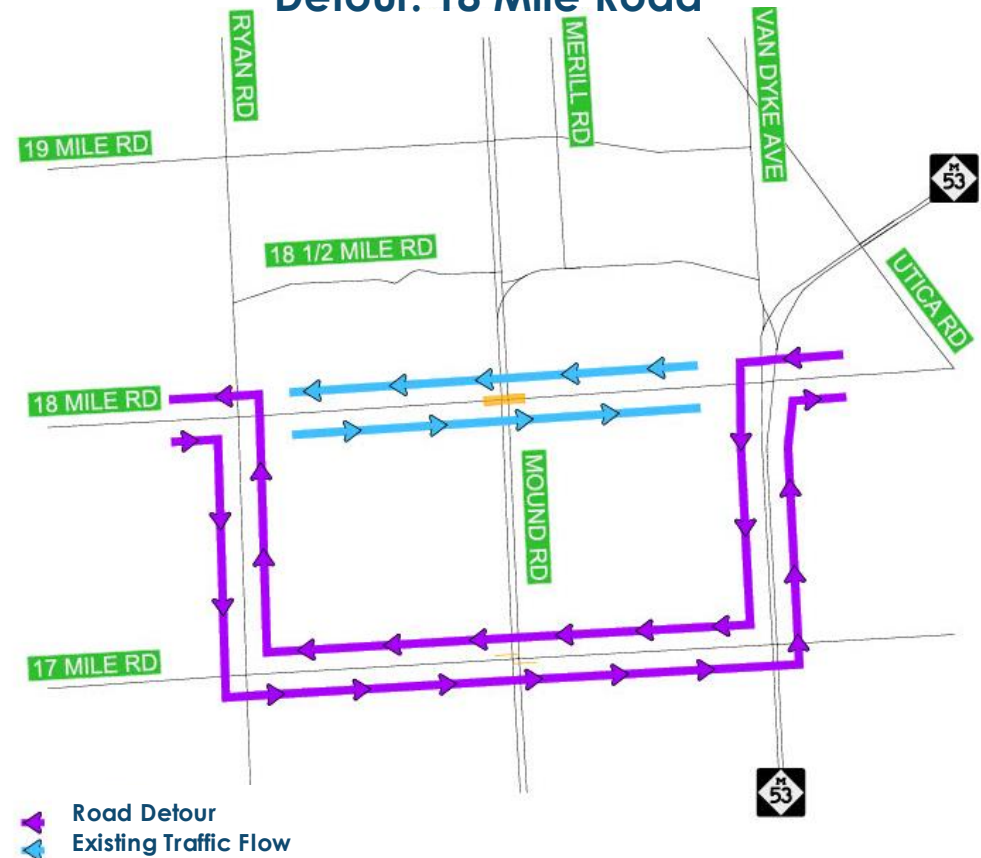
DETOUR ROUTES

17 MILE RD & 18 MILE RD

**Innovate Mound Road
North of I-696 to Dobry Drive
Detour: 17 Mile Road**



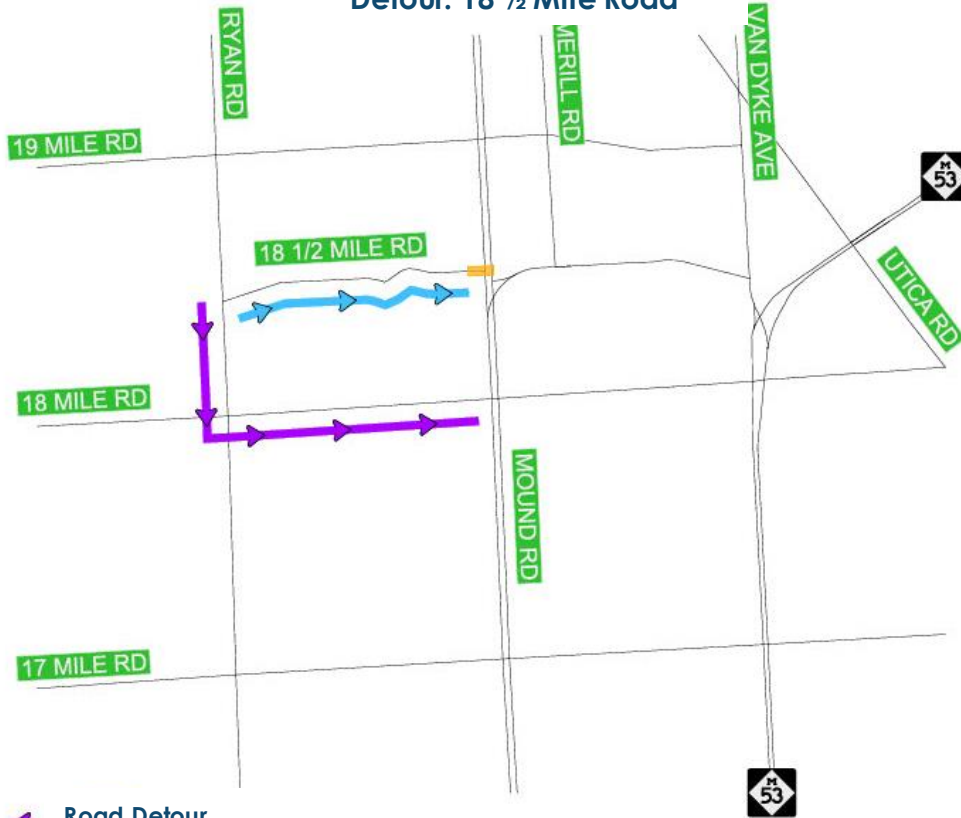
**Innovate Mound Road
North of I-696 to Dobry Drive
Detour: 18 Mile Road**



DETOUR ROUTES

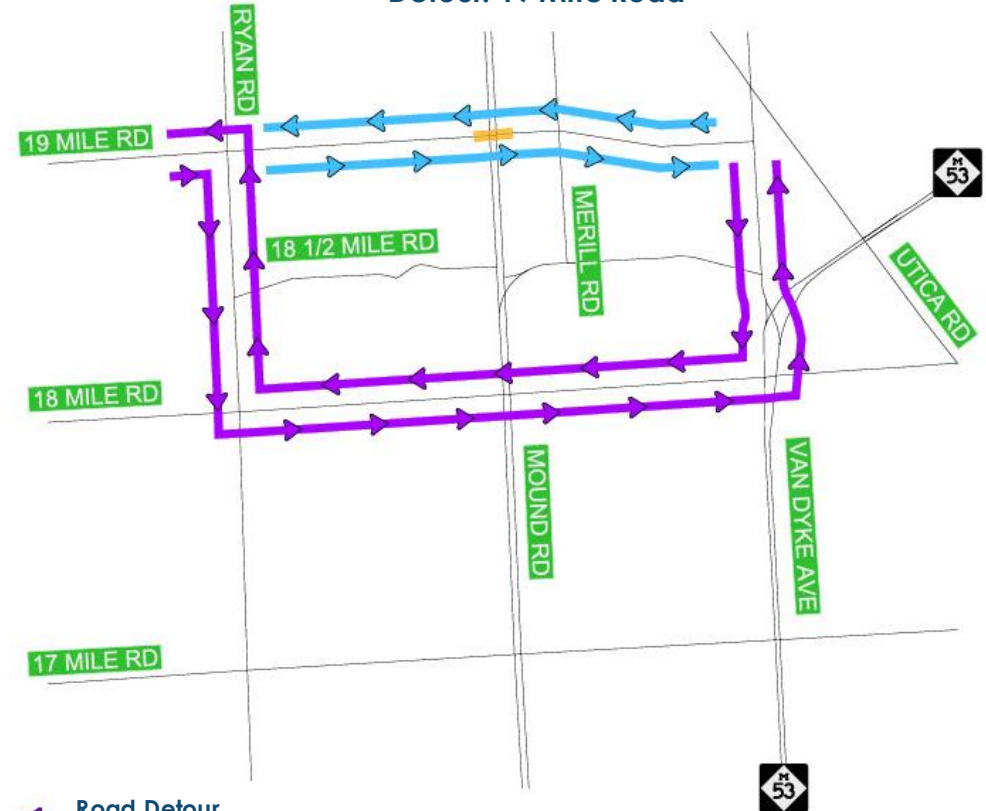
18 1/2 MILE RD & 19 MILE RD

Innovate Mound Road
North of I-696 to Dobry Drive
Detour: 18 1/2 Mile Road



 Road Detour
 Existing Traffic Flow

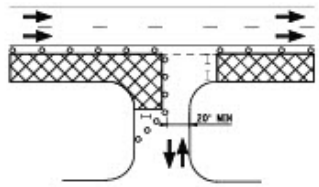
Innovate Mound Road
North of I-696 to Dobry Drive
Detour: 19 Mile Road



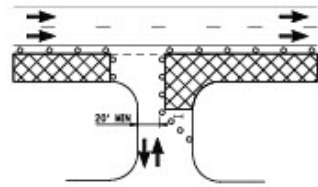
 Road Detour
 Existing Traffic Flow

MAINTENANCE OF TRAFFIC DRIVEWAYS AT MOUND ROAD

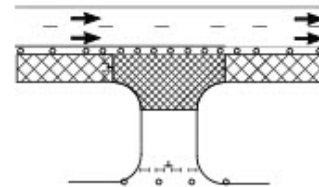
Commercial Driveway



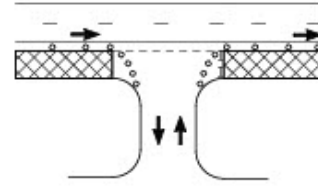
PHASE A



PHASE B

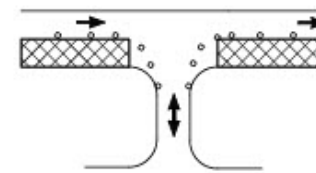


COMMERCIAL
DRIVEWAY CLOSED

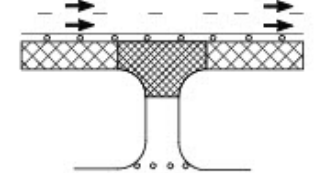


COMMERCIAL
DRIVEWAY OPENED

Residential Driveway

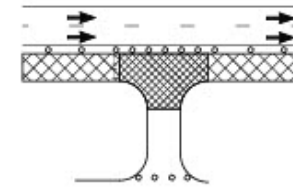


RESIDENTIAL
DRIVEWAY OPENED

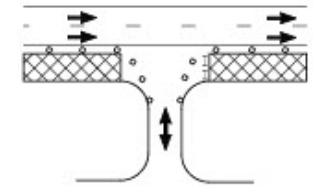


RESIDENTIAL
DRIVEWAY CLOSED

Directional Driveway



COMMERCIAL
DRIVEWAY OPENED



COMMERCIAL
DRIVEWAY CLOSED



PROJECT OMBUDSMAN



Project Ombudsman
JON BAILEY

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MEDIA INQUIRIES

Eric Dimoff, Macomb County Department of Roads

