



M-59 at Crooks Interchange Project

City of Rochester Hills Council Meeting

July 12, 2010



Why Design-Build?

- Accelerated delivery method
- MDOT has a proven design-build delivery method in place
- Obligation of funds required by August 31, 2010
- Crooks bridge in poor condition



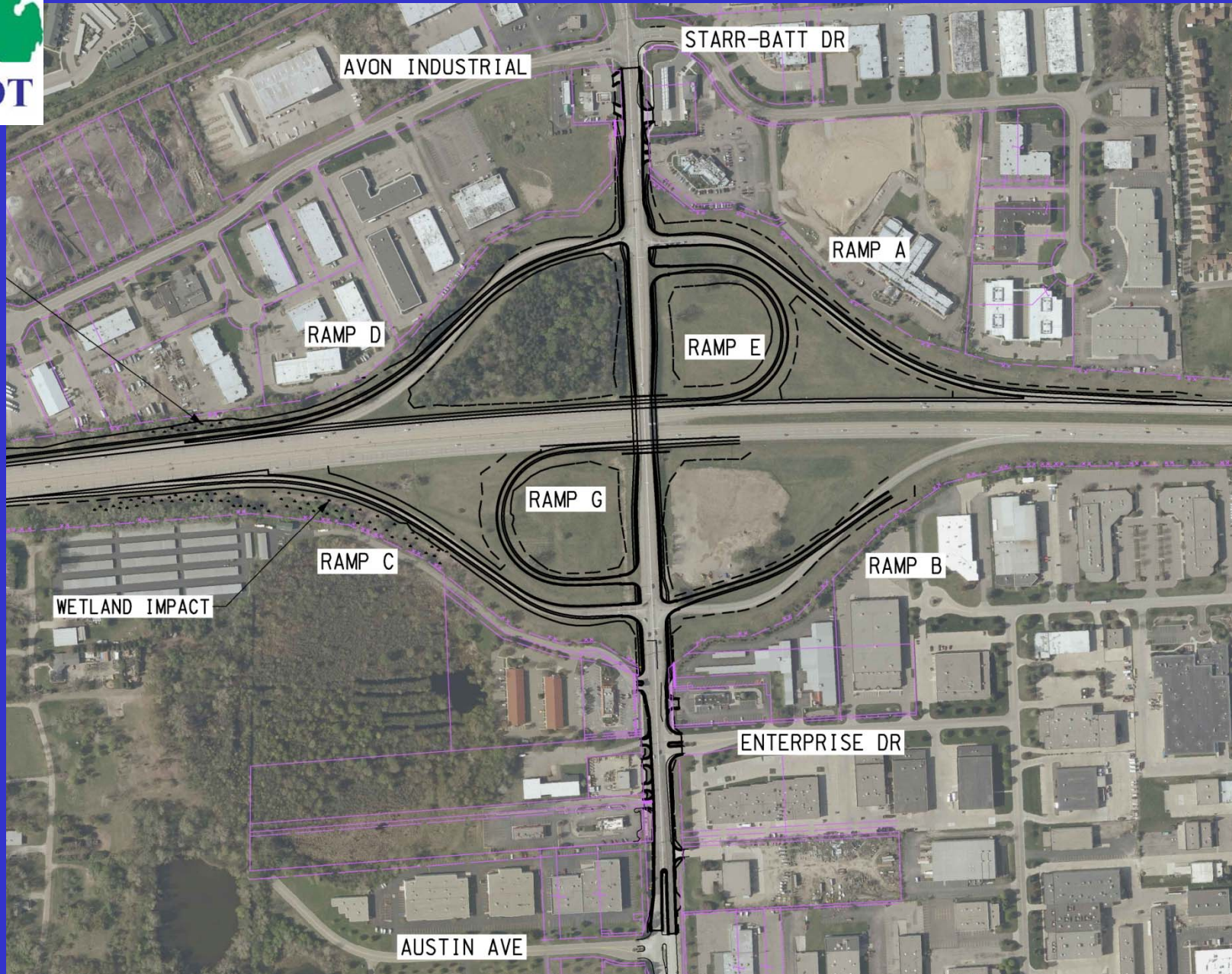
M-59 at Crooks

Interchange Improvements

- 5 lanes north and south of interchange
- Extends RCOC improvements north
- Adds loop ramps at Crooks for M-59 movements (no more left turns)



Proposed M-59/Crooks Road Interchange





Proposed Crooks Road

Ramp C Ramp G

M-59

Crooks



Ramp B



M-59 at Crooks

Interchange Improvements (cont'd)

- Improves geometry of interchange
 - Curves
 - Superelevations
 - Underclearance
 - Ramp tangents and tapers



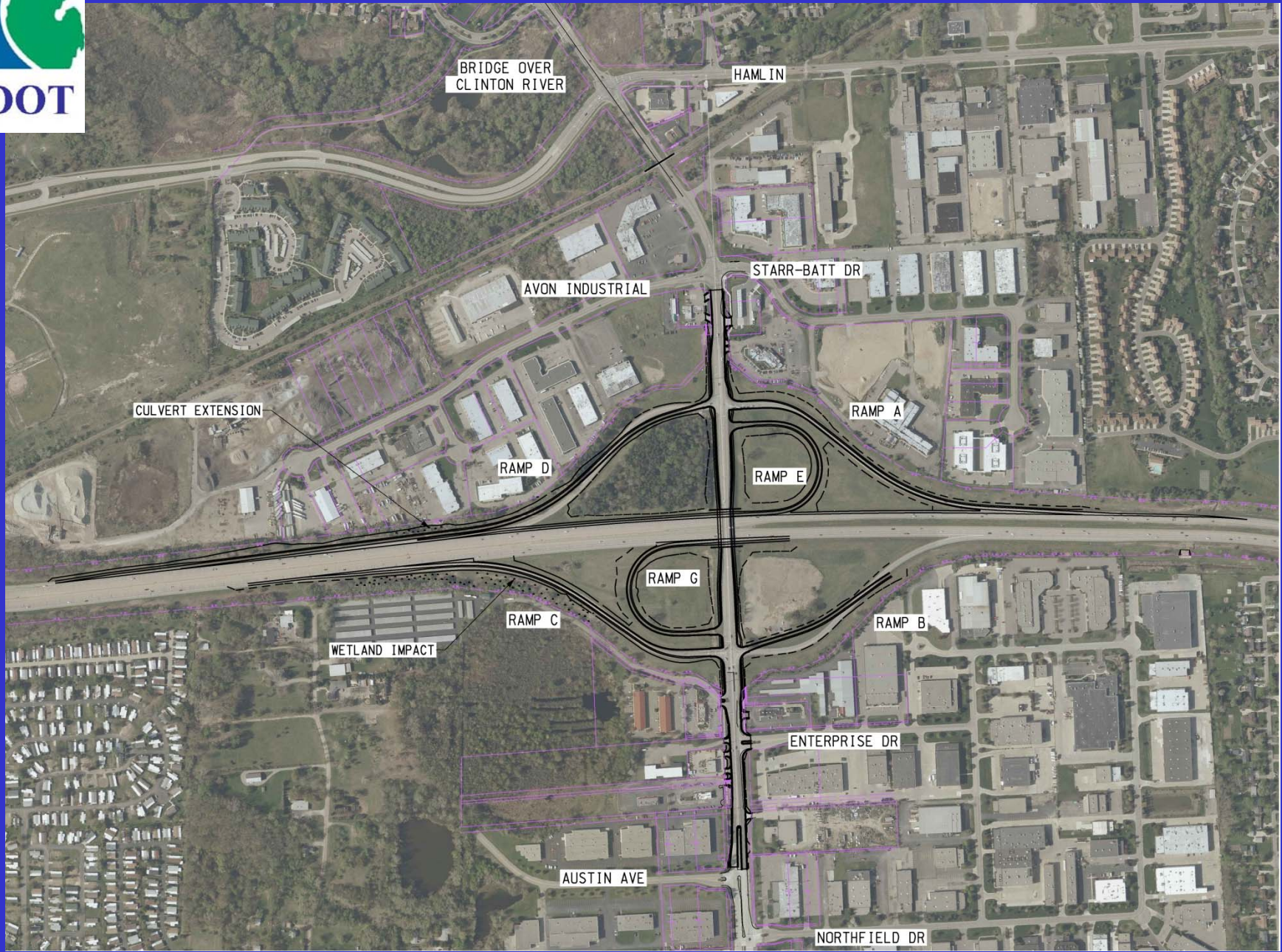
M-59 at Crooks

Interchange Improvements (cont'd)

- Sidewalks improved
- Sidewalks extended through interchange to Hamlin
- Sidewalks on both sides



Proposed M-59/Crooks Road Interchange





M-59 at Crooks

Interchange Improvements (cont'd)

- Avon Industrial / Star-Batt at Crooks Improved
 - Add pedestrian ramps
 - Upgrade traffic signal
 - Improve pavement condition
 - Improve SE corner curb radius



M-59 at Crooks

Interchange Improvements (cont'd)

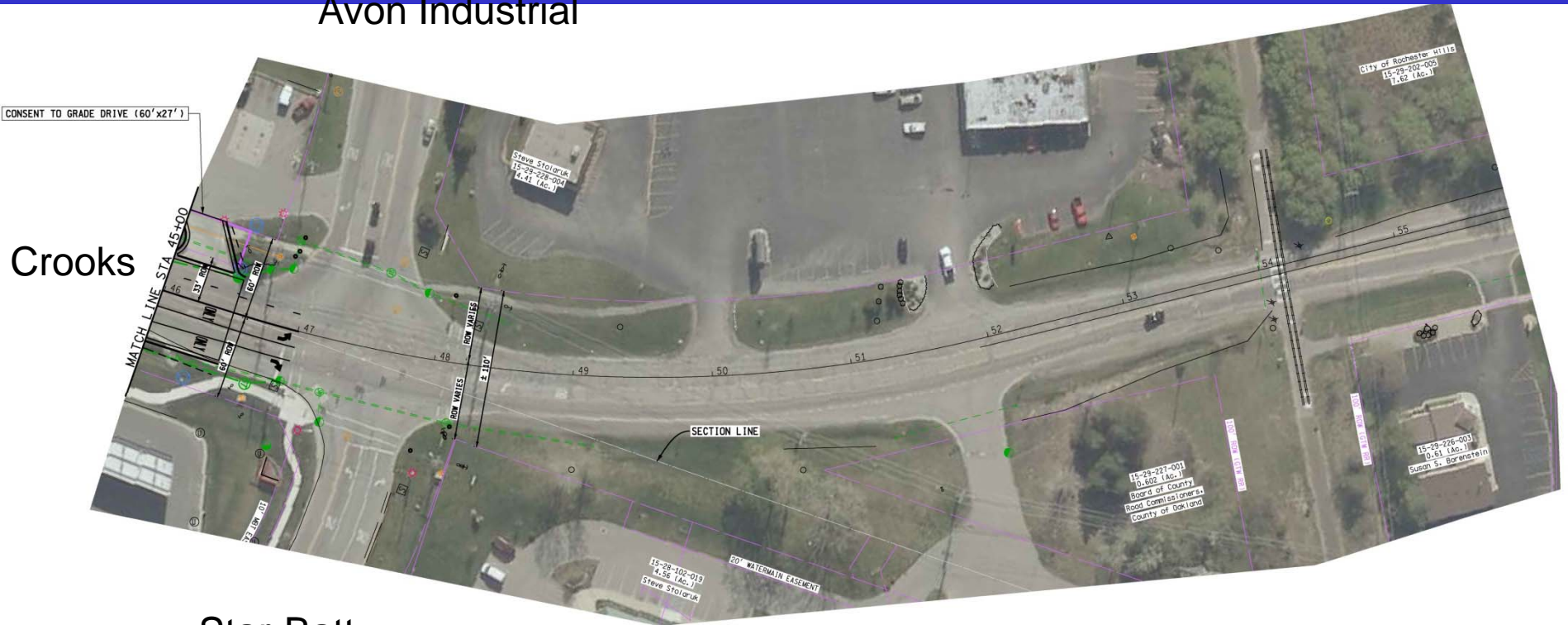
- Commercial drives replaced
 - Drive configuration replaced in kind
 - Concrete pavement with curb to ROW line
 - Access will be maintained



Proposed Crooks Road

Clinton River Trail

Avon Industrial



Star-Batt



M-59 Construction

- Crooks to east reconstructed in 2010
- Crooks to west reconstructed in 2011
- Crooks interchange will coordinate with west project
- Two lanes on M-59 maintained in each direction during construction



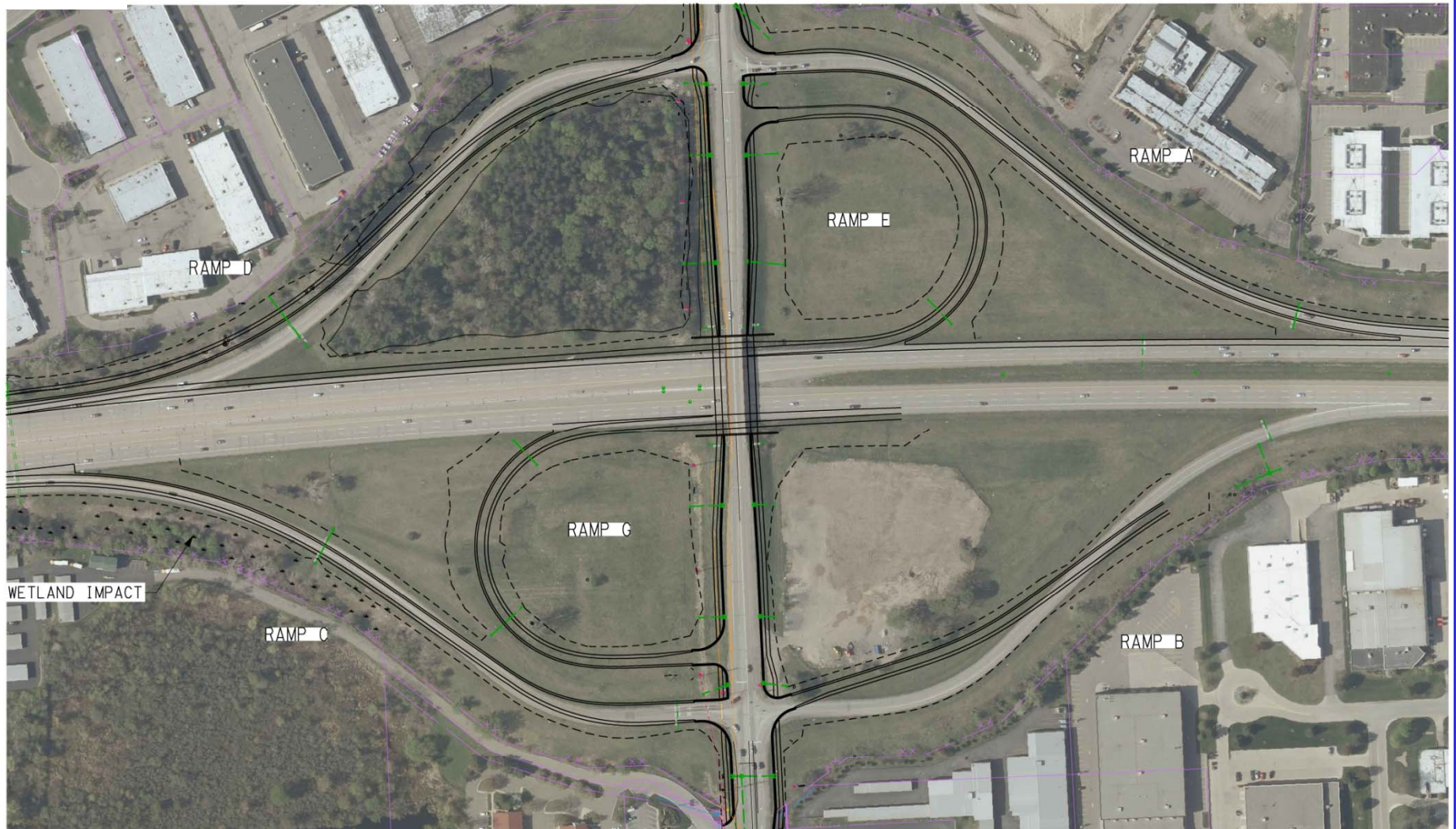
Proposed M-59/Crooks Ramps





MDOT

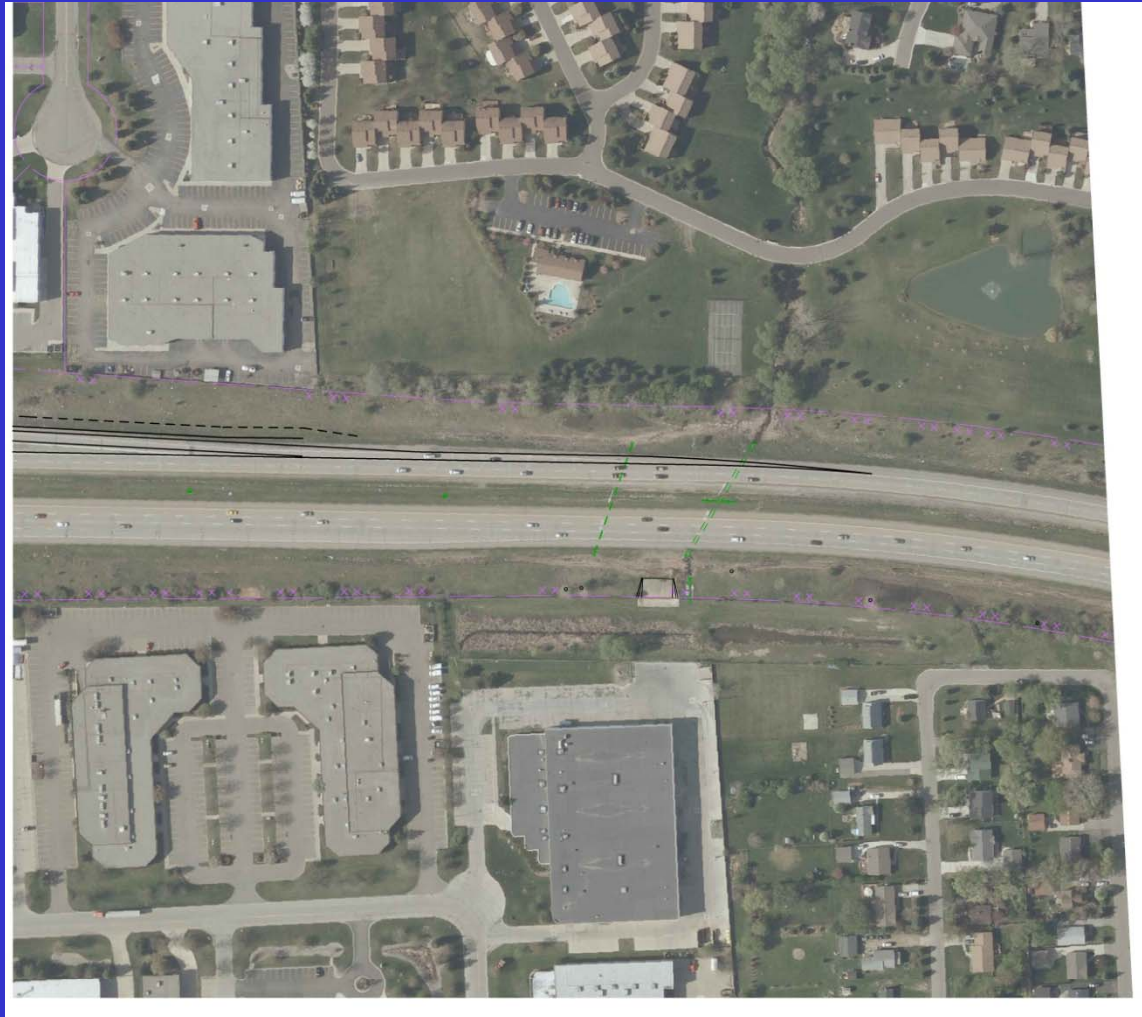
Proposed M-59/Crooks Ramp Close-up





MDOT

Proposed M-59/Crooks Ramps





Procurement Schedule

August 31	Obligation / Advertisement
September-October	One-on-one meetings
October 28	ATC submittal deadline
November 11	Clarification submittal deadline
November 17	Technical proposal due date
November 18	Price proposal due



MOT Options

- Total closure at bridge
- Part-width at bridge



Total Closure at Bridge

- Three lanes on Crooks to north & south
 - Temporary widening to east or west
 - Opposite side constructed first
- Ramp movements always maintained
- South detour Auburn to Adams
- North detour Hamlin to Adams



Total Closure at Bridge (cont'd)

- Access to businesses always maintained
- Avon Industrial / Star-Batt movements maintained



Part-width at Bridge

- Three lanes on Crooks to north & south
 - Temporary widening to east or west
 - Opposite side constructed first
- Two lanes across bridge
- Left turns at ramps maintained



Part-width at Bridge (cont'd)

- Ramp movements closed temporarily
 - Up to three weeks per movement
 - One of two on south side at one time
 - One of two on north side at one time

Total Closure

- 2 to 3 months to build bridge concurrent
- 4 to 5 months to build Crooks part -width (bridge open with Crooks construction continuing)

Part-Width

- 6 months to build bridge concurrent
- 6 months to build Crooks concurrent