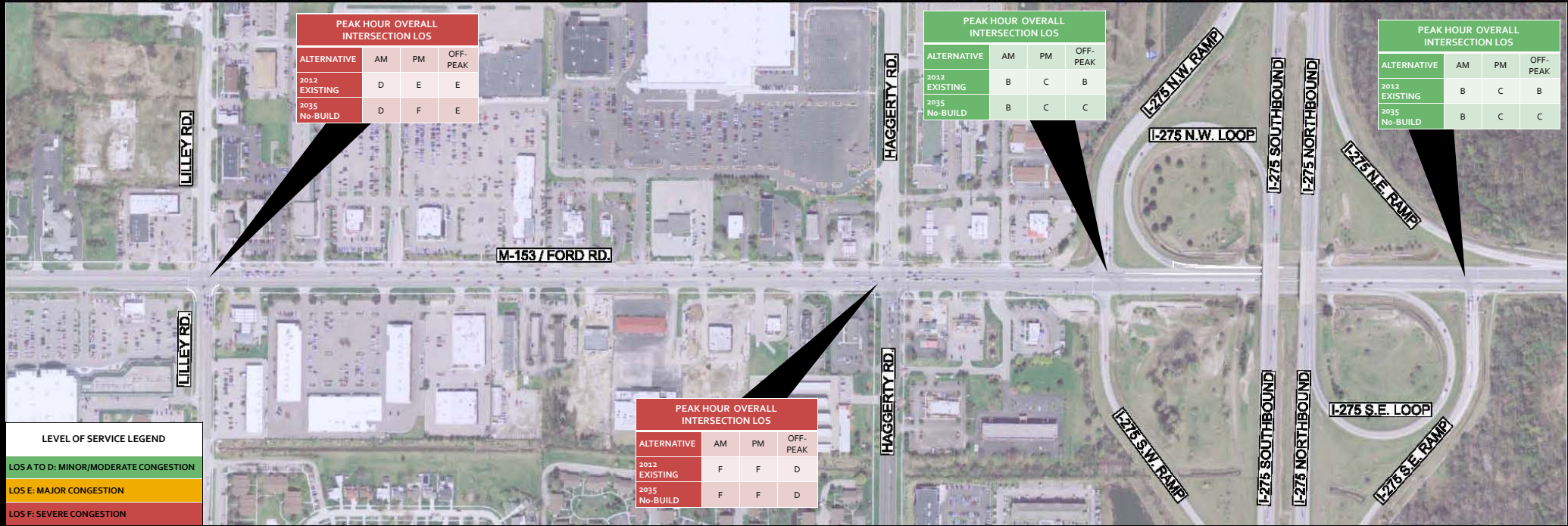


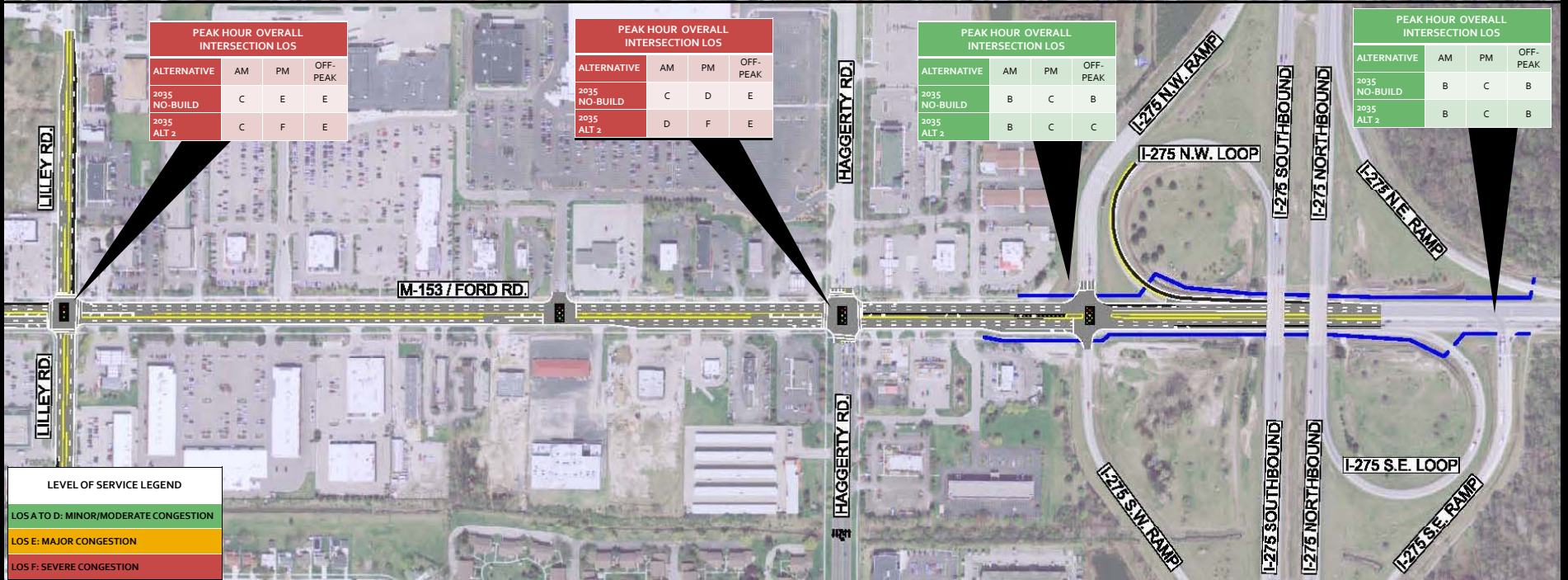
Alternative 1 - No-Build



No-Build Illustrative Alternative

- **Description:**
 - No change from current traffic operations
- **Advantages:**
 - No additional right of way or environmental impacts
- **Disadvantages:**
 - Does not address operational deficiencies along Ford Road
 - Ford Road at capacity for 2012 traffic, which consistently gets worse through 2035 study year
 - Traffic backups continue at each intersection and on southbound I-275 ramp at Ford Road
 - Does not improve existing Ford Road pavement condition

Alternative 2 – Operational Improvements



LOS A TO D: MINOR/MODERATE CONGESTION
LOS E: MAJOR CONGESTION
LOS F: SEVERE CONGESTION



Operational Improvements Illustrative Alternative

■ Description:

- Addition of westbound through-lane on Ford Road from I-275 to Sheldon Road and conversion of existing eastbound right-turn lane at Haggerty Road to shared right through-lane
- Additional pedestrian and safety improvements

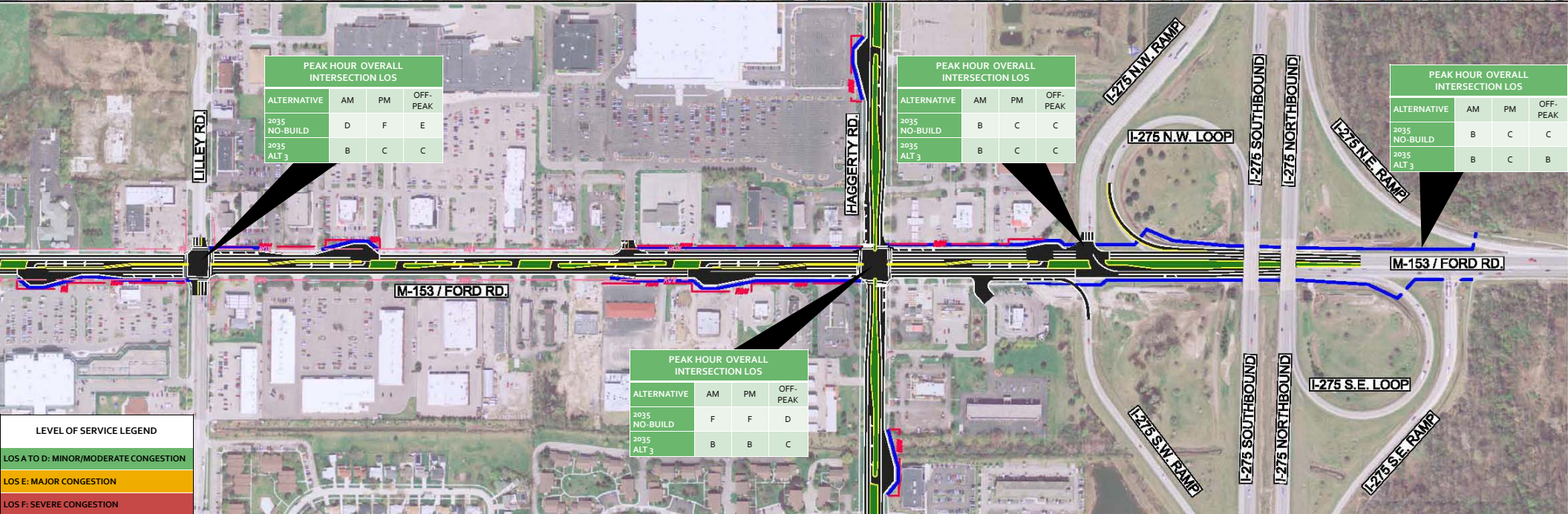
■ Advantages:

- Low construction impact relative to other options
- Low construction cost relative to other options
- Provides short-term relief and some additional safety improvements, such as sidewalk and pushbutton pedestrian signals

■ Disadvantages:

- Attracts approximately 15 to 25 percent more vehicles with an added lane on Ford Road
- Quickly reaches capacity and only achieves minor levels of service improvement relative to existing condition
- Traffic backups continue on southbound I-275 ramp at Ford Road
- Does not improve existing Ford Road pavement condition

Alternative 3 – Boulevard



LEVEL OF SERVICE LEGEND

LOS A TO D: MINOR/MODERATE CONGESTION
LOS E: MAJOR CONGESTION
LOS F: SEVERE CONGESTION

Boulevard Illustrative Alternative

- **Description:**
 - Provides a Ford Road and/or Haggerty Road boulevard with two through-lanes in each direction, with restricted left turns at intersections, numerous passenger vehicle turnarounds, and truck turnarounds (loons) where necessary
 - Additional pedestrian and safety improvements
 - Other boulevard options may also be investigated, such as adding boulevards to other major north/south crossings, limiting truck turnarounds, or a modified roadway alignment

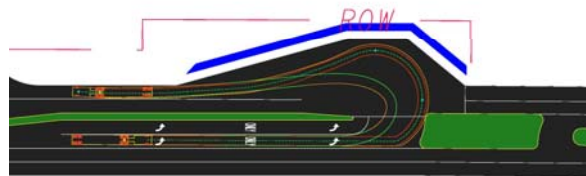
- **Advantages:**
 - Moderate construction impacts relative to other options
 - Moderate construction cost relative to other options
 - Low/moderate right of way impacts
 - Improved safety (restricted left turns) – safer access to businesses
 - Minimal environmental impacts
 - Improved level of service throughout
 - Continuity of sidewalks and improved safety by providing crossings and pedestrian islands
 - Reduction in traffic backups on southbound I-275 at Ford Road due to improved Ford Road operations

- **Disadvantages:**
 - Limited truck turnarounds along Ford Road and/or Haggerty Road
 - Indirect access to businesses

Boulevard Details/Options

Boulevard Details

Commercial Vehicle Turnaround



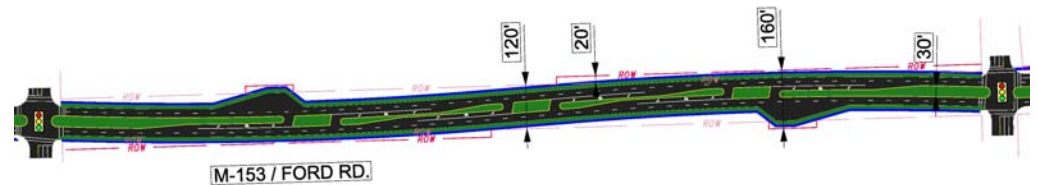
Passenger Vehicle Turnaround



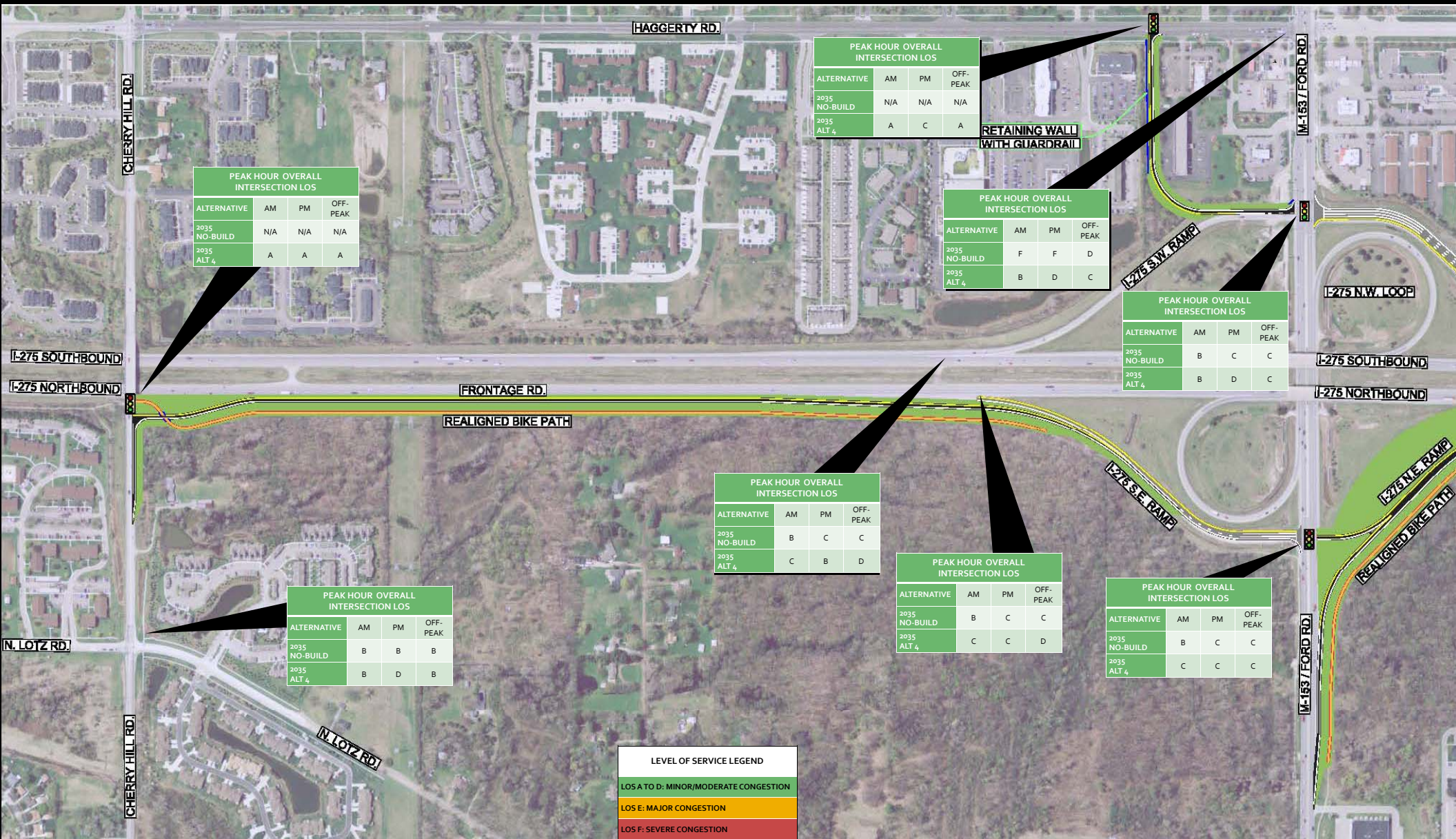
Boulevard Options

~ Restrict commercial turnarounds to specified locations along the corridor

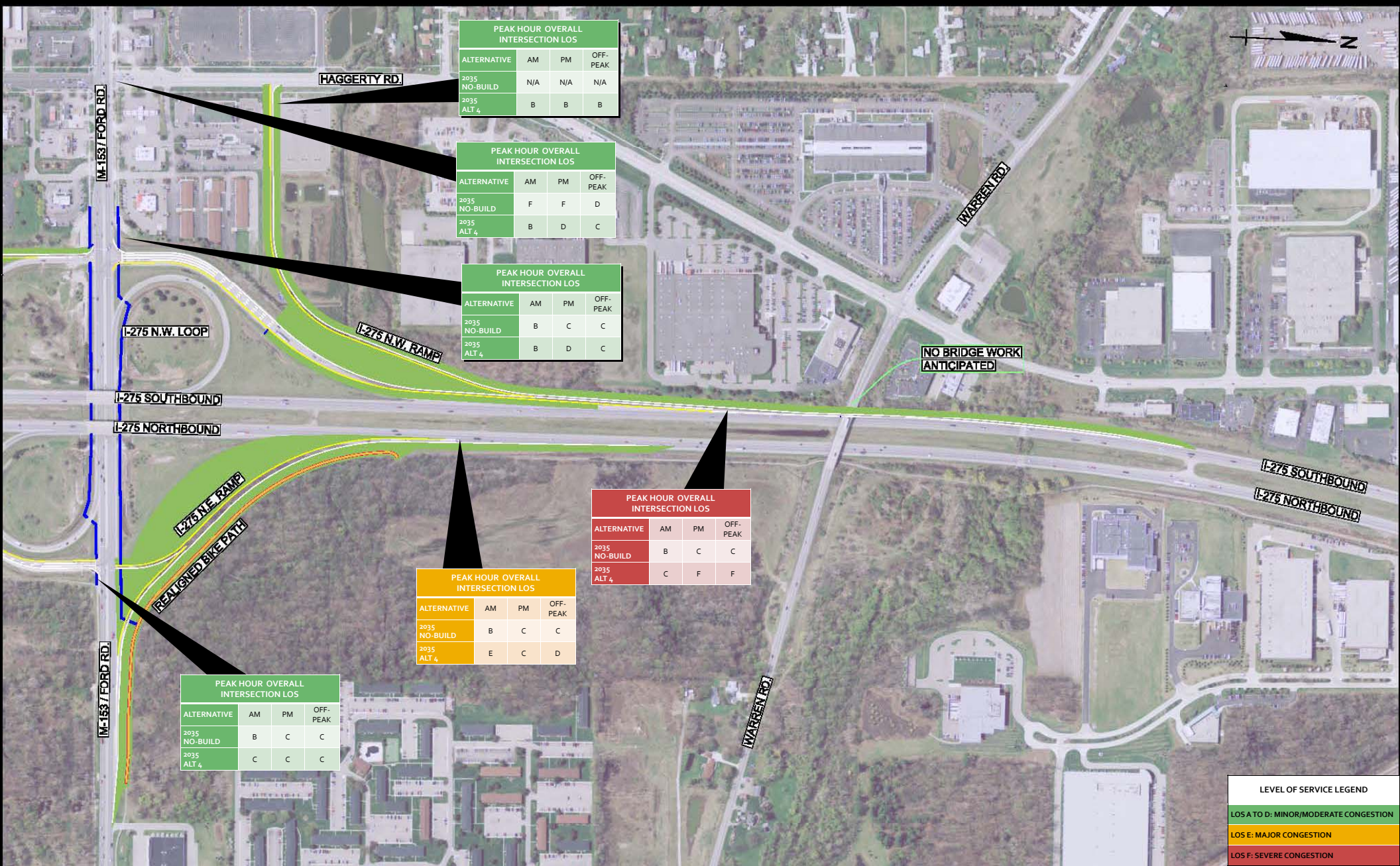
Modified Alignment Boulevard



Alternative 4 – Western Wayne Transportation Improvement Plan (WWTIP)



Alternative 4 – Western Wayne Transportation Improvement Plan (WWTIP)



PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 4	B	B	B

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	F	F	D
2035 ALT 4	B	D	C

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	B	C	C
2035 ALT 4	B	D	C

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	B	C	C
2035 ALT 4	C	F	F

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	B	C	C
2035 ALT 4	E	C	D

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	B	C	C
2035 ALT 4	C	C	C

LEVEL OF SERVICE LEGEND

LOS A TO D: MINOR/MODERATE CONGESTION
LOS E: MAJOR CONGESTION
LOS F: SEVERE CONGESTION

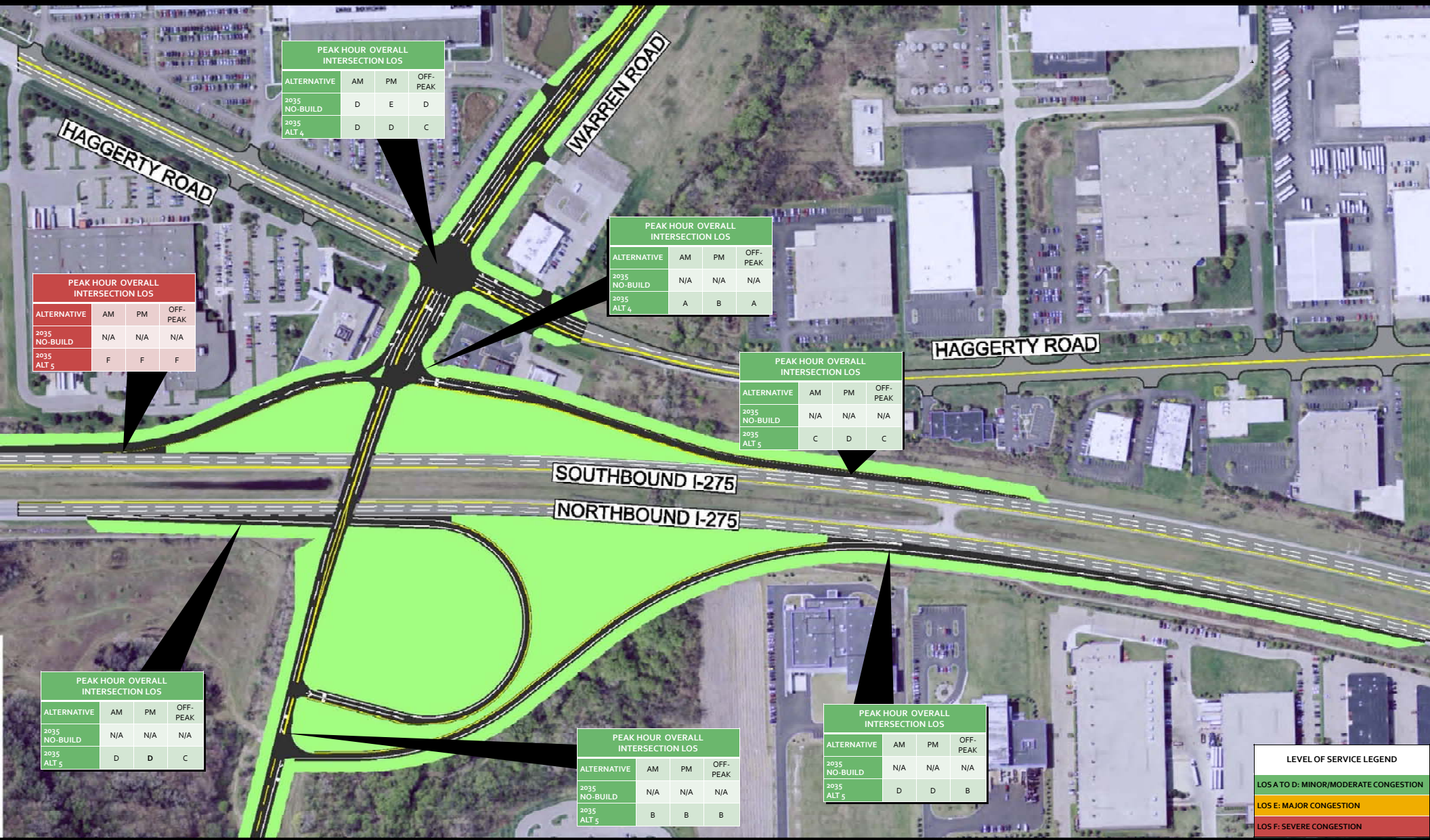
Western Wayne Transportation Improvement Plan (WWTIP) Illustrative Alternative

- **Description:**
 - Provides direct southbound I-275 ramp access to Haggerty Road north and south of Ford Road, reducing congestion at the Ford Road/Haggerty Road intersection. Includes a frontage road from Cherry Hill Road north to Ford Road and a modification of the northbound I-275 entrance ramp
 - Additional pedestrian and safety improvements

- **Advantages:**
 - Minimal construction impacts to Ford Road(off alignment)
 - Improvement in level of service at Ford Road/Haggerty Road
 - Draws traffic away from Haggerty Road
 - Safety improvements, such as sidewalk and pushbutton pedestrian signals along Ford Road

- **Disadvantages:**
 - Many right of way and environmental impacts anticipated
 - Moderate to high construction cost compared to other alternatives
 - Does not address congestion on Ford Road except at Haggerty Road
 - All other intersections similar to no-build
 - No change to Ford Road relative to safety, difficult access to businesses during peak times, etc.
 - Confusing interchange ramp operations and geometric configuration with multiple decision points
 - Increased maintenance costs due to addition of pavement, retaining walls, and bridge widening
 - Does not improve existing Ford Road pavement condition

Alternative 5 – New Interchanges



PEAK HOUR OVERALL INTERSECTION LOS			
ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	D	E	D
2035 ALT 4	D	D	C

PEAK HOUR OVERALL INTERSECTION LOS			
ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 4	A	B	A

PEAK HOUR OVERALL INTERSECTION LOS			
ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	C	D	C

PEAK HOUR OVERALL INTERSECTION LOS			
ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	F	F	F

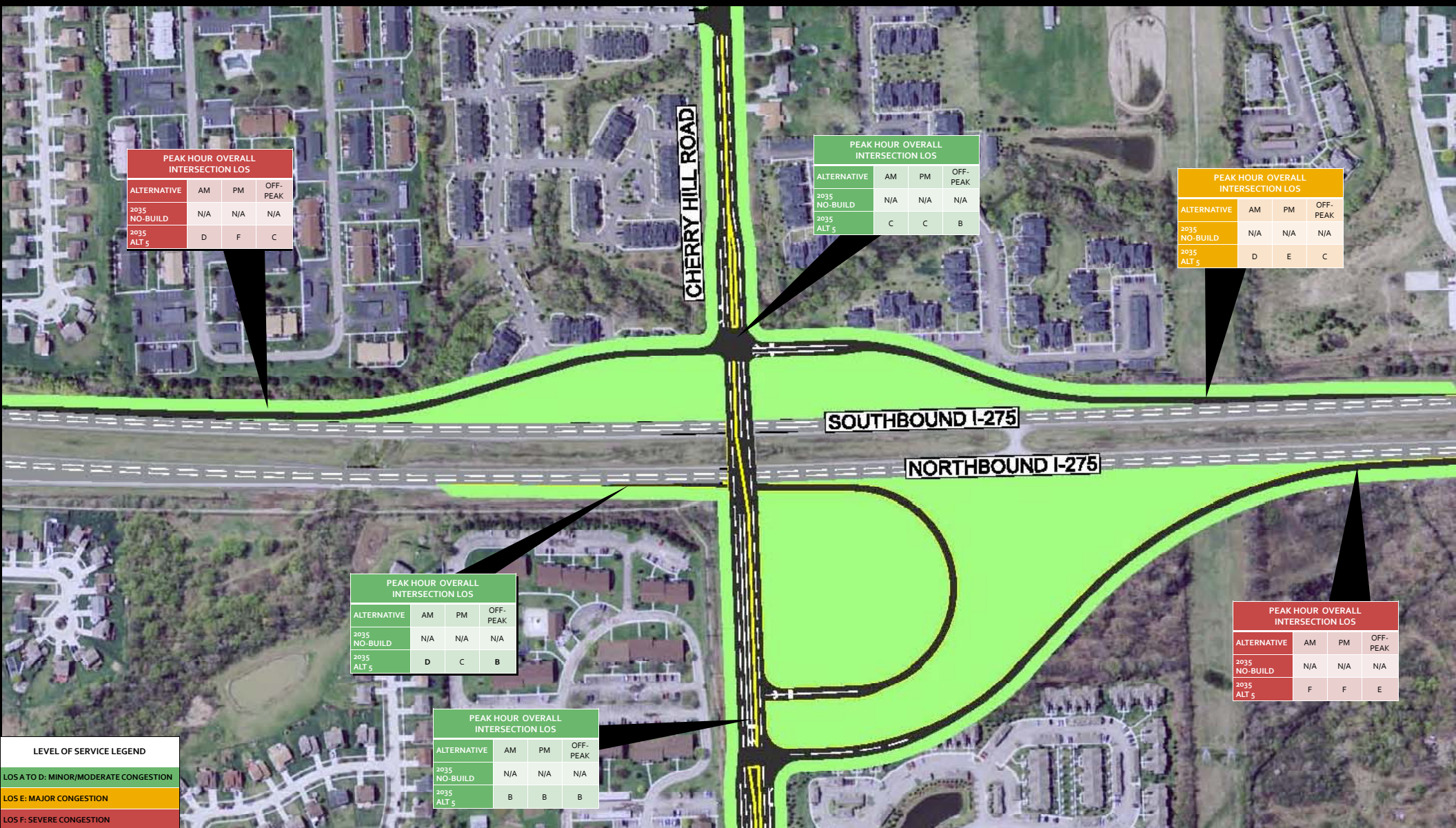
PEAK HOUR OVERALL INTERSECTION LOS			
ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	D	D	C

PEAK HOUR OVERALL INTERSECTION LOS			
ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	B	B	B

PEAK HOUR OVERALL INTERSECTION LOS			
ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	D	D	B

LEVEL OF SERVICE LEGEND			
LOS A TO D:	MINOR/MODERATE CONGESTION		
LOS E:	MAJOR CONGESTION		
LOS F:	SEVERE CONGESTION		

Alternative 5 – New Interchanges



PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	D	F	C

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	C	C	B

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	D	E	C

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	D	C	B

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	B	B	B

PEAK HOUR OVERALL INTERSECTION LOS

ALTERNATIVE	AM	PM	OFF-PEAK
2035 NO-BUILD	N/A	N/A	N/A
2035 ALT 5	F	F	E

New Interchanges Illustrative Alternative

- **Description:**
 - Provides full access interchanges at Cherry Hill Road and Warren Road to alleviate traffic at the Ford Road/Haggerty Road intersection as well as the Ford Road/I-275 interchange
 - Additional pedestrian and safety improvements
- **Advantages:**
 - Provides full access to and from Cherry Hill Road and Warren Road
 - Diverts traffic away from Haggerty Road
 - Safety improvements, such as sidewalk and pushbutton pedestrian signals along Ford Road
- **Disadvantages:**
 - High construction cost and future maintenance costs
 - Major right of way impacts
 - Many environmental impacts anticipated
 - Introduces conflicts with existing ramps to Ford Road which makes the freeway less safe
 - Cherry Hill Rest Area entrance ramp to northbound I-275 too close to proposed exit ramp to Cherry Hill Road
 - Minimal diversion of traffic from Ford Road and Haggerty Road
 - Does not improve existing Ford Road pavement condition

Additional Improvements (Alt's 1-5)

- ❖ Intersection improvements along Cherry Hill Road
- ❖ Pave Lotz Road and improve Lotz Road/Ford Road intersection
- ❖ Additional pedestrian crossings with pushbuttons
- ❖ Provide bike crossings at bike path
- ❖ Provide overhead lighting at signals
- ❖ Access management (shared drives)

Draft Project Costs

Alternative	Est. Construction Cost	Potential ROW Impacts/Costs	Est. Additional Maintenance Cost
1 – No-Build	Moderate	Moderate	Low
2 – Operational Improvements	Moderate	Moderate	Low
3 – Boulevard	Moderate	Moderate	Low
4 – WWTIP Study	High	High	Moderate
5 – New Interchanges	High	High	High

I-275 at M-153
(Ford Road) Area
Traffic and
Environmental Study

Possible Factors For Further Consideration

Alternative	Transportation Factors (Mobility, Safety)		Environmental Factors (Habitat Protection, Wetlands, Air Quality)			Community Factors (Title VI/Environmental Justice)			Cost Factors (Cost, Cost Effectiveness)		Other
	LOS	Crashes	Wildlife Habitat Impacts	Wetland Impacts	Air & Water Quality	Pedestrian and Bike Access	Emergency Resp. Time	Property Impacts	Approx Const. Cost	Benefit Cost Analysis	
1 – No-Build											
2 – Operational Improvements											
3 – Boulevard											
4 – WWTIP Study											
5 – New Interchanges											