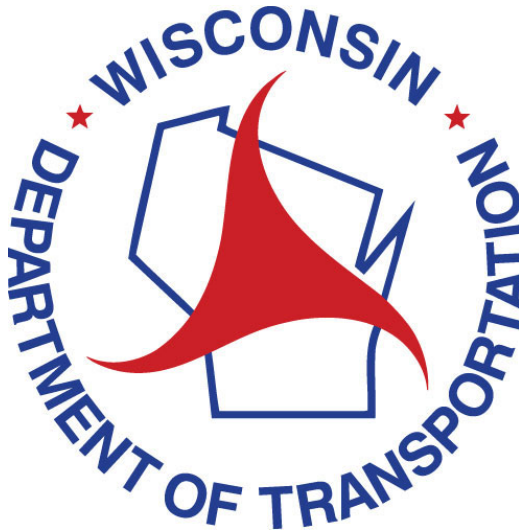


# WIS 50 Project

Public Involvement Meeting

September 26, 2019



# Meeting Purpose

- Introduce team
- Update on status of WIS 50
- Gather feedback from locals
- Please hold questions until the end



# Project Map





# Project Map





# Presentation Outline

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- Purpose and Need
- Existing Pavement
- Alternatives
- Geometric Improvements
- Traffic Signals
- Bike and Pedestrian Accommodations
- Retaining walls
- Drainage
- Access Removal
- Construction
- Utilities
- Local Development
- Real Estate
- Project Schedule
- Cost Share
- Local Events

# Project Purpose and Need

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- Improve safety, ride quality, and operation of traffic while also addressing the deficiencies of the existing facility and incorporating safe bicycle and pedestrian accommodations through the corridor.





# Existing Pavement

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- Pavement deteriorated beyond resurfacing
- Poor sub-base





# Existing Pavement

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- Previous Maintenance



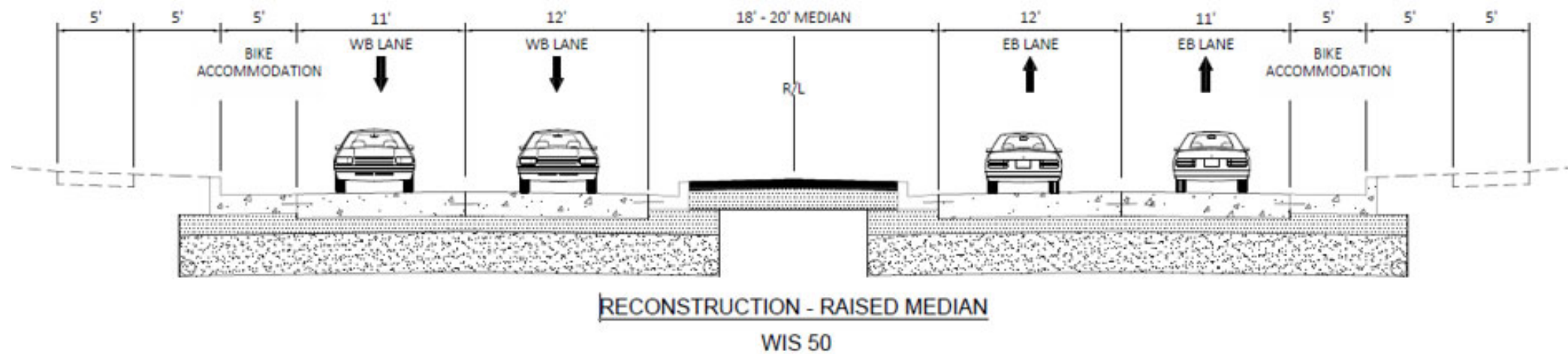


# Alternatives

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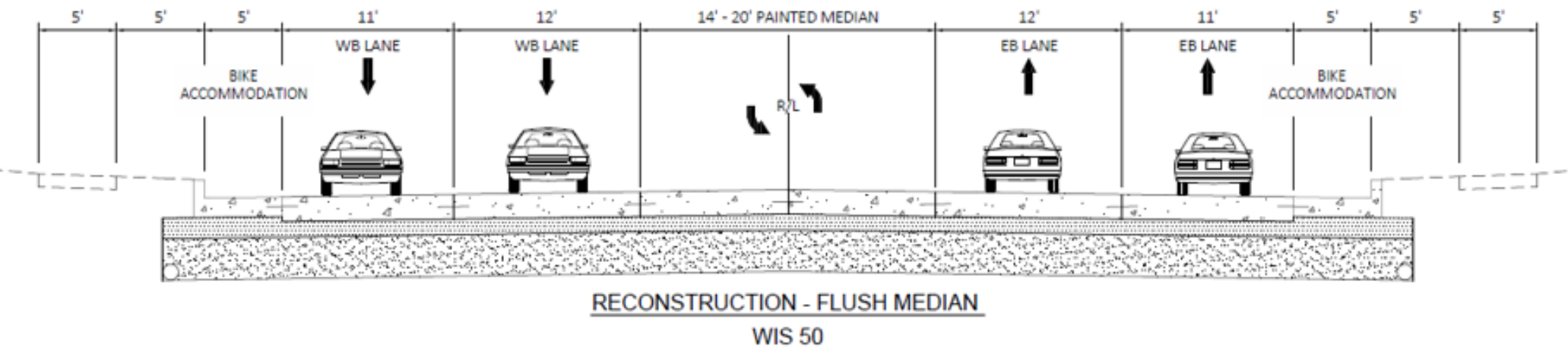
- Do nothing with annual maintenance
- Resurface with base patching
- Reconstruction - Preferred Alternative
- Corridor study - Bypass

# Alternative - WIS 50 Reconstruction

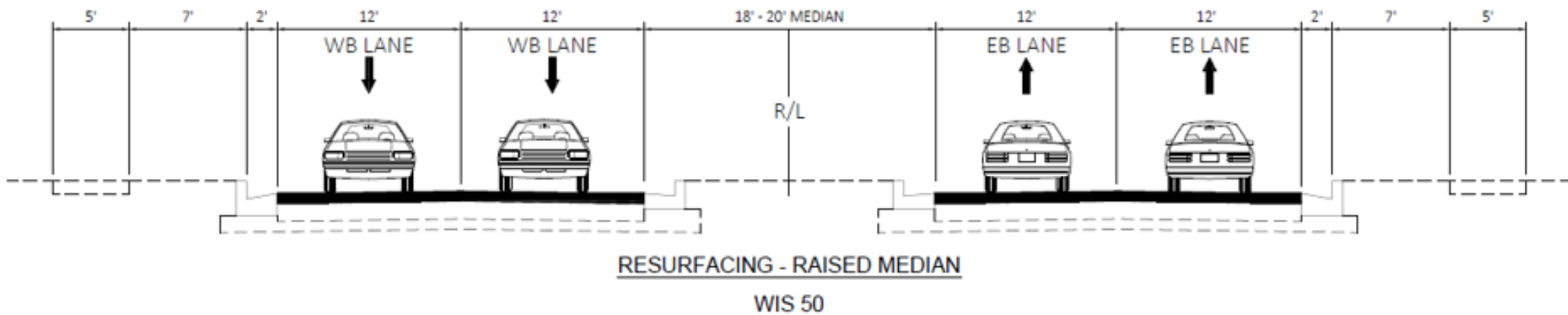




# Alternative - WIS 50 Reconstruction

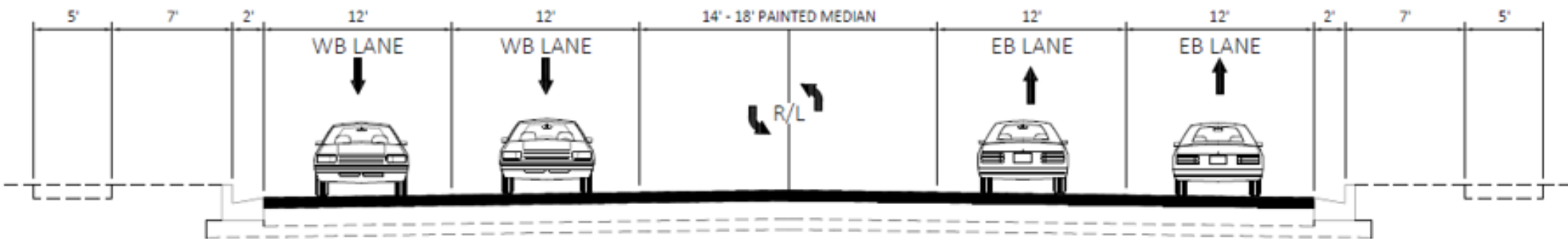


## Alternative - WIS 50 Resurfacing





## Alternative - WIS 50 Resurfacing



RESURFACING - FLUSH MEDIAN

WIS 50

# Geometric Improvements

---

- WIS 50 and WIS 83 intersection turn lanes
- WIS 50 and WIS 83 median closure alternative
- WIS 50 median at 250<sup>th</sup> Avenue
- WIS 50 median at 246<sup>th</sup> Avenue
- WIS 50 left turn lane east of 236<sup>th</sup> Avenue

# Geometric Improvements

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- WIS 50 & WIS 83 Median Opening Closure Alternative





# Geometric Improvements

---

- WIS 50 Median Opening Closure Alternative



# Geometric Improvements

---

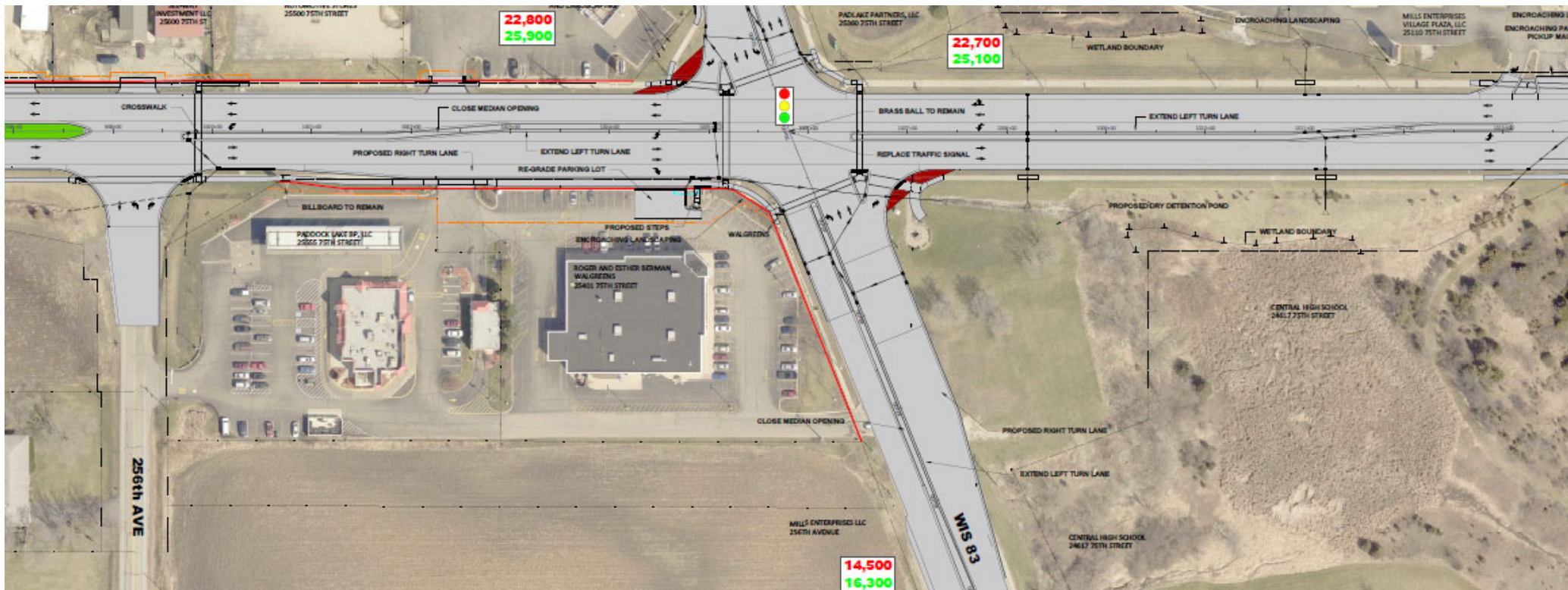
- WIS 83 Median Opening Closure Alternative





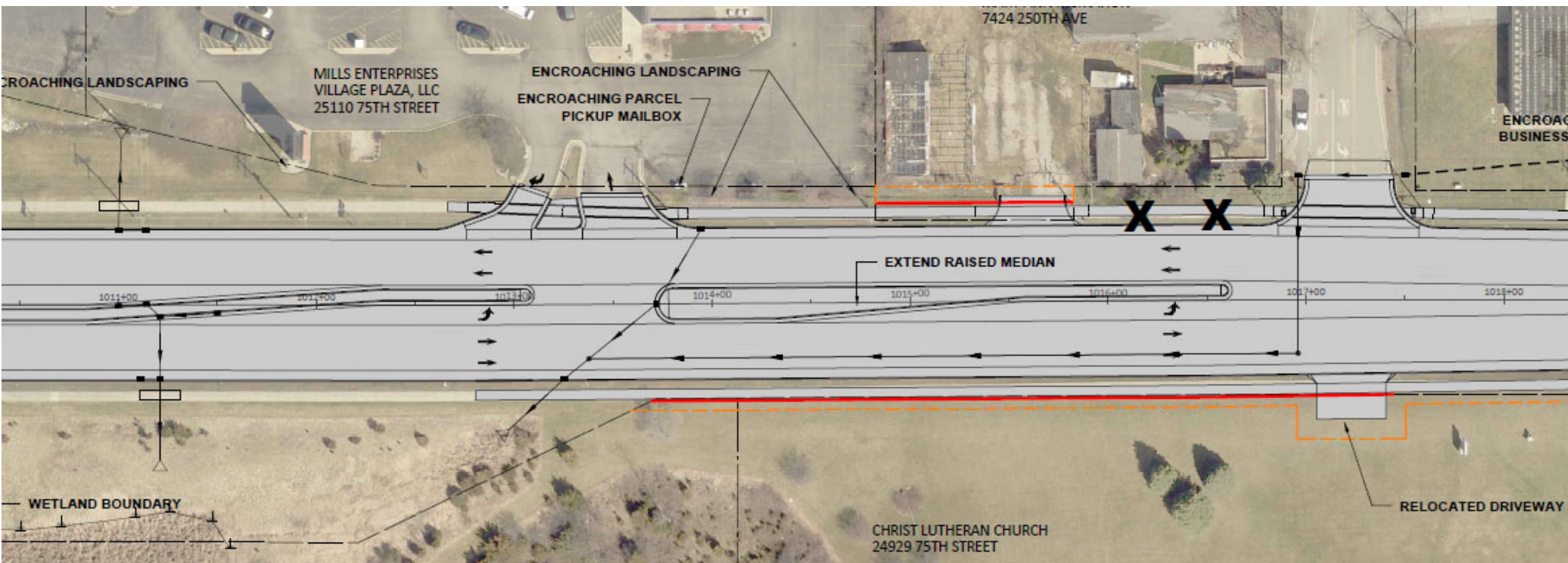
# Geometric Improvements

- WIS 50 and WIS 83 intersection turn lanes



# Geometric Improvements

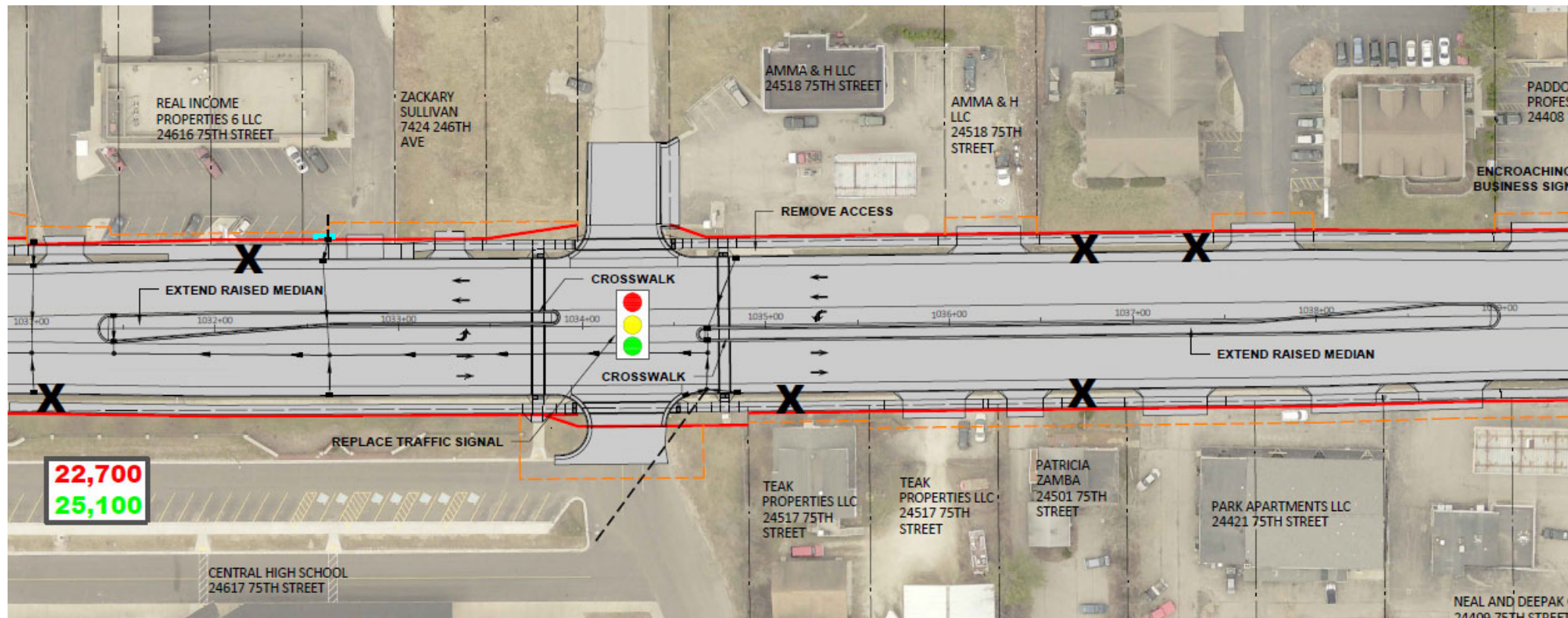
- WIS 50 median at 250<sup>th</sup> Avenue





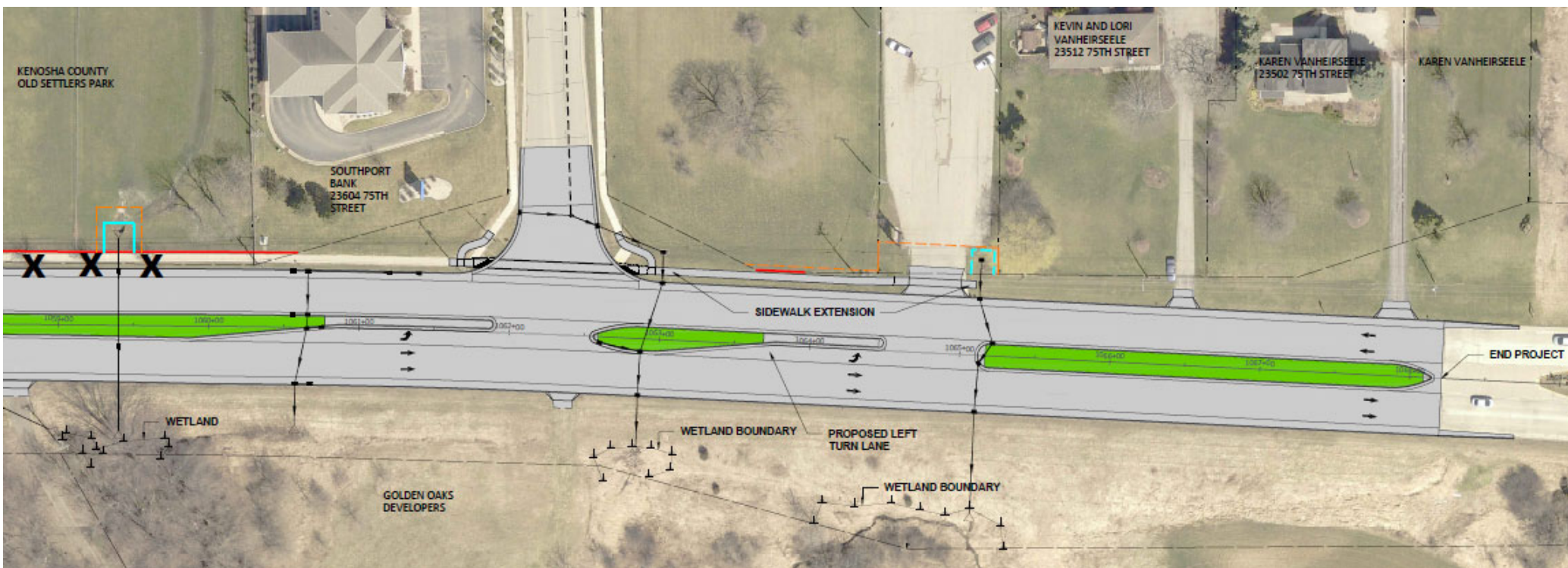
# Geometric Improvements

- WIS 50 median at 246<sup>th</sup> Avenue



# Geometric Improvements

- WIS 50 left turn lane east of 236<sup>th</sup> Avenue





# Traffic Signals

- Monotubes installed for better visibility
- WIS 50 / WIS 83
- WIS 50 / 246<sup>th</sup> Avenue



# Bike and Pedestrian Accommodations

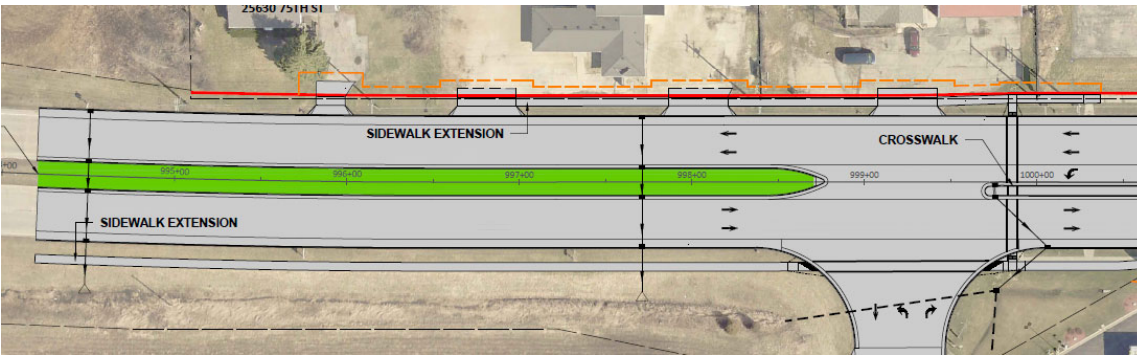
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- Sidewalk extension
- Replace sidewalk at driveways and intersections
- Replace sidewalk handicap ramps
- Replace curb and gutter with five foot gutter for bike accommodation
  - This is not a bike lane



# Bike and Pedestrian Accommodations

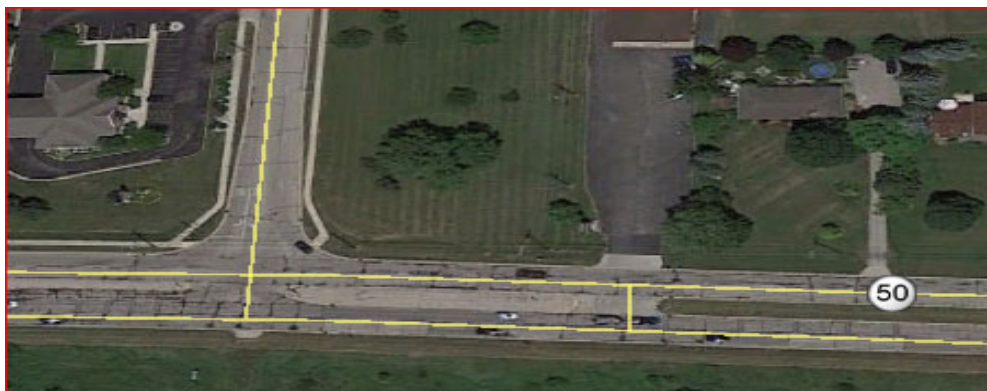
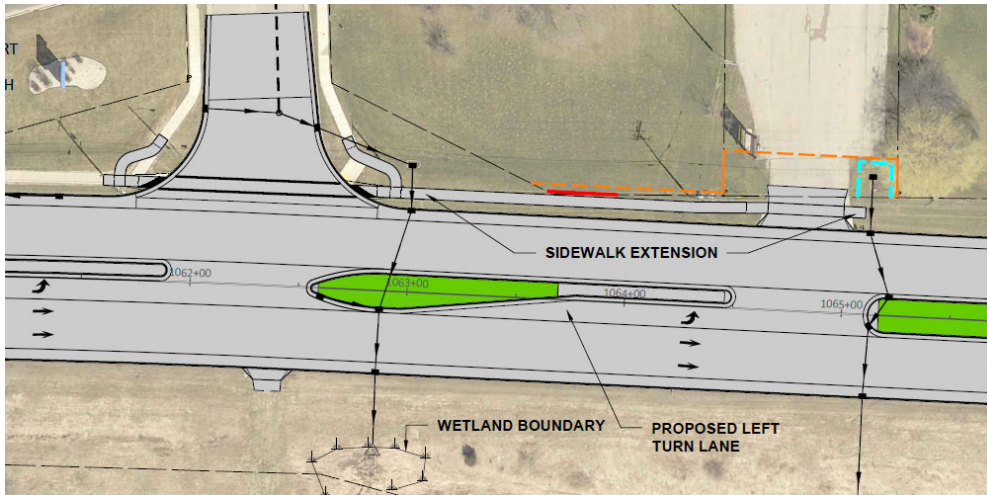
- Sidewalk extension - west end





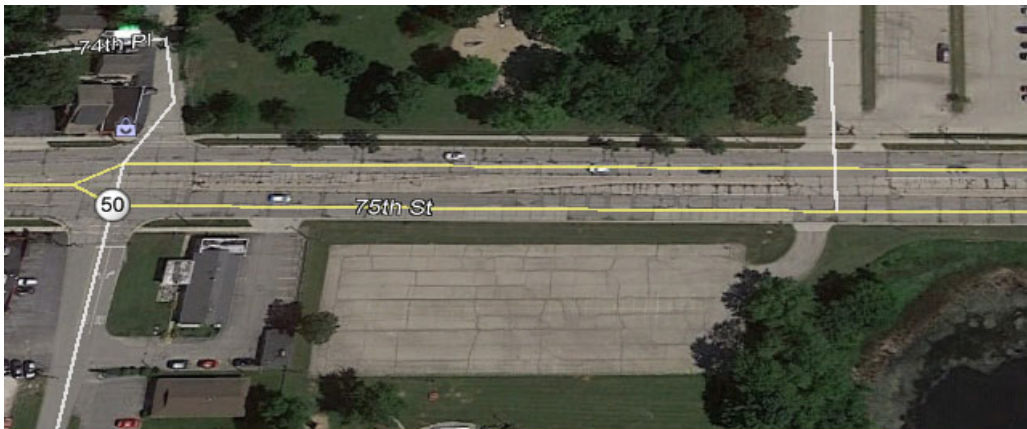
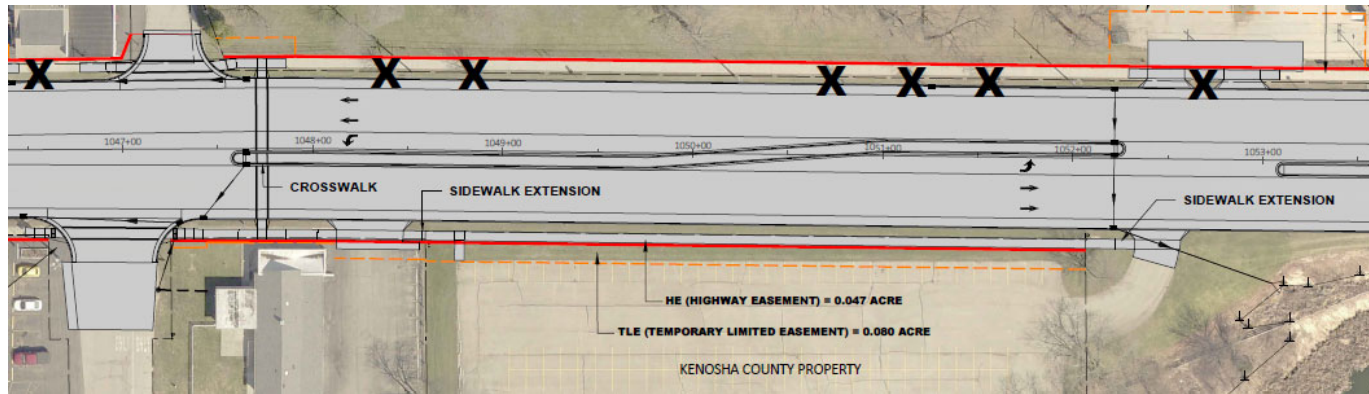
# Bike and Pedestrian Accommodations

- Sidewalk extension - east end



# Bike and Pedestrian Accommodations

- Sidewalk extension - east end (Old Settlers Park)





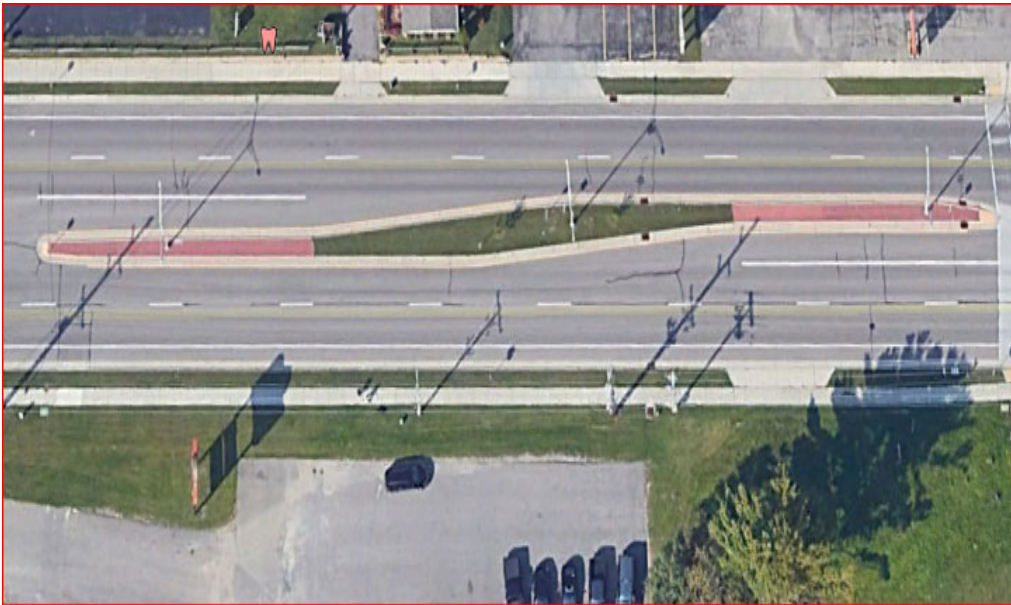
# Bike and Pedestrian Accommodations

- Replace sidewalk handicap ramps



# Bike and Pedestrian Accommodations

- Colored crosswalks; colored concrete sidewalk
- Paddock Lake Cost





# Bike and Pedestrian Accommodations

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- Crosswalks and flashing beacons
- 248<sup>th</sup> Ave and 242<sup>nd</sup> Ave





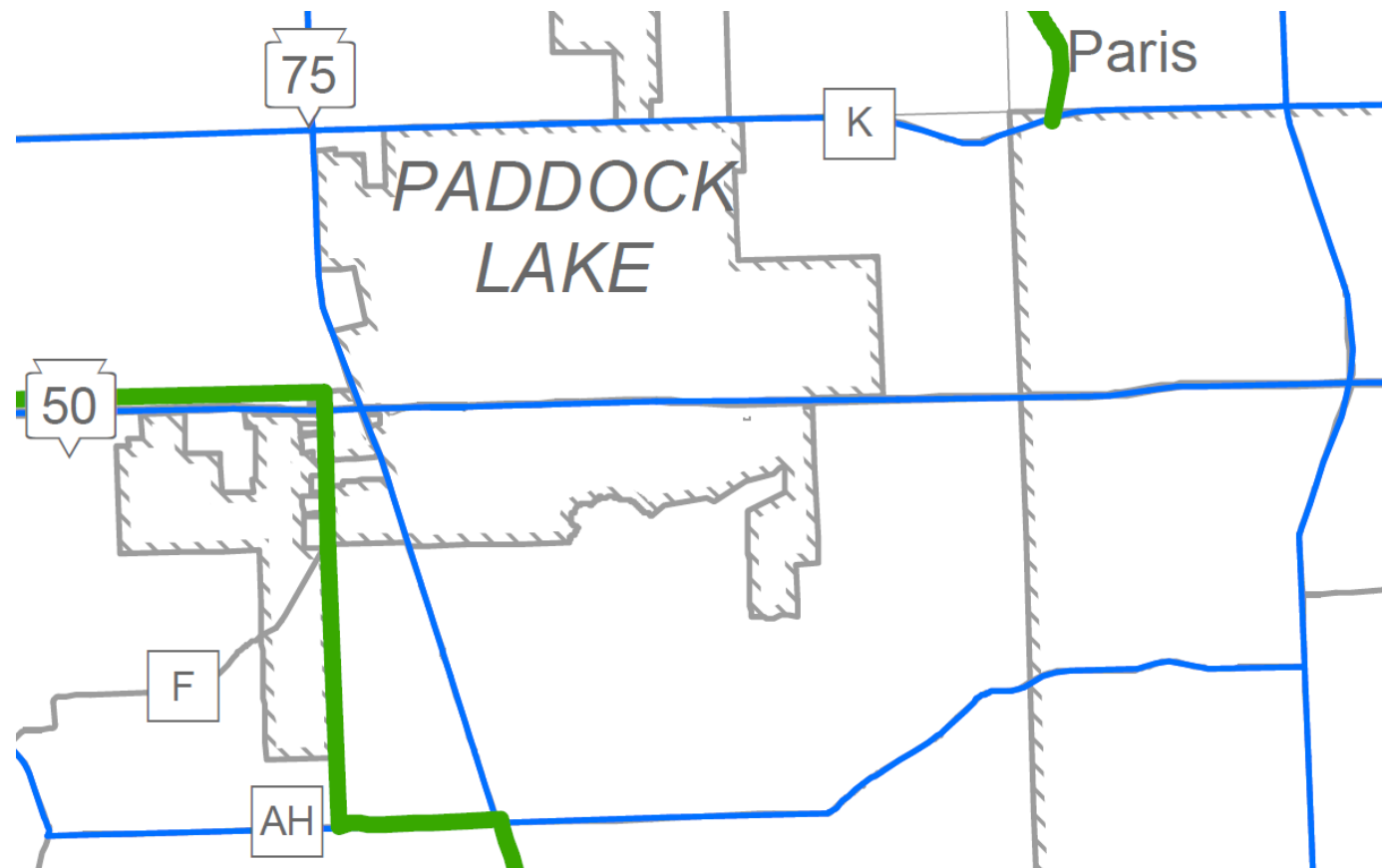
# Bike and Pedestrian Accommodations

- Southeast Wisconsin Regional Planning Commission Vision 2050 Bicycle Network Map

## BICYCLE FACILITIES

- OFF-STREET BICYCLE PATH
- ARTERIAL STREET OR HIGHWAY WITH BICYCLE ACCOMMODATION (IF FEASIBLE)
- NONARTERIAL STREET CONNECTION TO OFF-STREET BICYCLE NETWORK
- POTENTIAL CORRIDOR FOR ENHANCED BICYCLE FACILITY<sup>a</sup>

<sup>a</sup> Corridor would include an enhanced bicycle facility—such as a protected bike lane, a separate path within the road right-of-way, or a buffered bike lane—located on or along an arterial or, alternatively, a neighborhood greenway on a nearby parallel nonarterial.



# Bike and Pedestrian Accommodations

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- Five foot gutter for bike accommodation



## Retaining Walls

- Potential in southwest quadrant WIS 50 / WIS 83
- Replace retaining walls between 248<sup>th</sup> and 246<sup>th</sup> Avenue



# Retaining Walls

- Potential in southwest quadrant WIS 50 / WIS 83



# Retaining Walls

- Replace retaining walls between 248<sup>th</sup> and 246<sup>th</sup> Avenue





# Retaining Walls

- Replace retaining walls between 248<sup>th</sup> and 246<sup>th</sup> Avenue





# Drainage / Storm Sewer

- Storm sewer replacement
- Subgrade improvements and underdrain
- Dry detention pond in SE corner of WIS 50 / WIS 83
- Drainage into Paddock Lake
  - Catch Basins
  - Stormceptor
  - Dry Pond/swale
  - Bio-swale in median



# Access Removal

- La Cabaña Authentic Mexican Restaurant
- Citgo Gas Station near 246<sup>th</sup> Avenue



## Construction - Alternatives

---

- WIS 50 full closure
- Stage WIS 50 to WIS 83; WIS 50 full closure to east limits
- WIS 50 open to one lane in each direction
- WIS 50 one-way closure with detour (Directional Detour)
- Segments
  - West limit to WIS 83
  - WIS 83 to 246<sup>th</sup> Avenue
  - 246<sup>th</sup> Avenue to east limits
- WIS 83 short term full closure



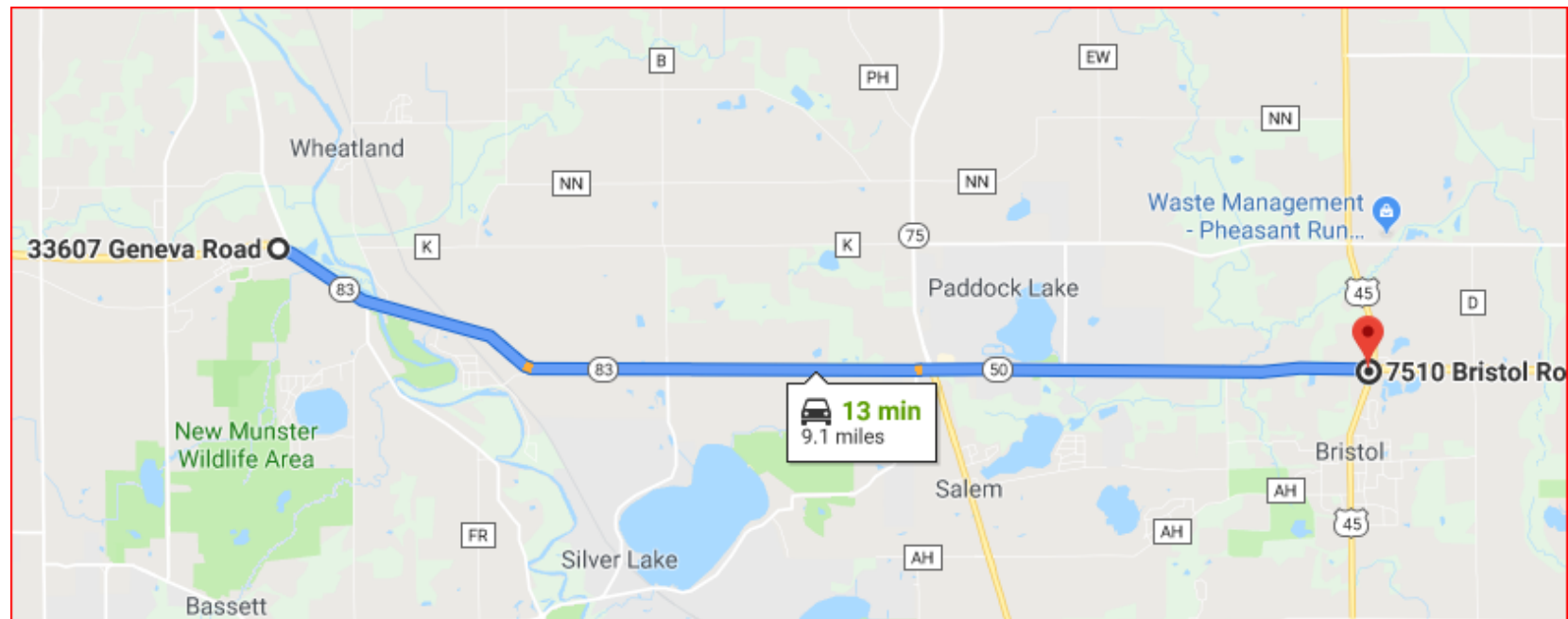
# Construction - WIS 50 Full Closure

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- Potential detour routes
  - EB - County W to County C to US 45
  - WB - US 45 to WIS 142 to WIS 11/36 to WIS 83

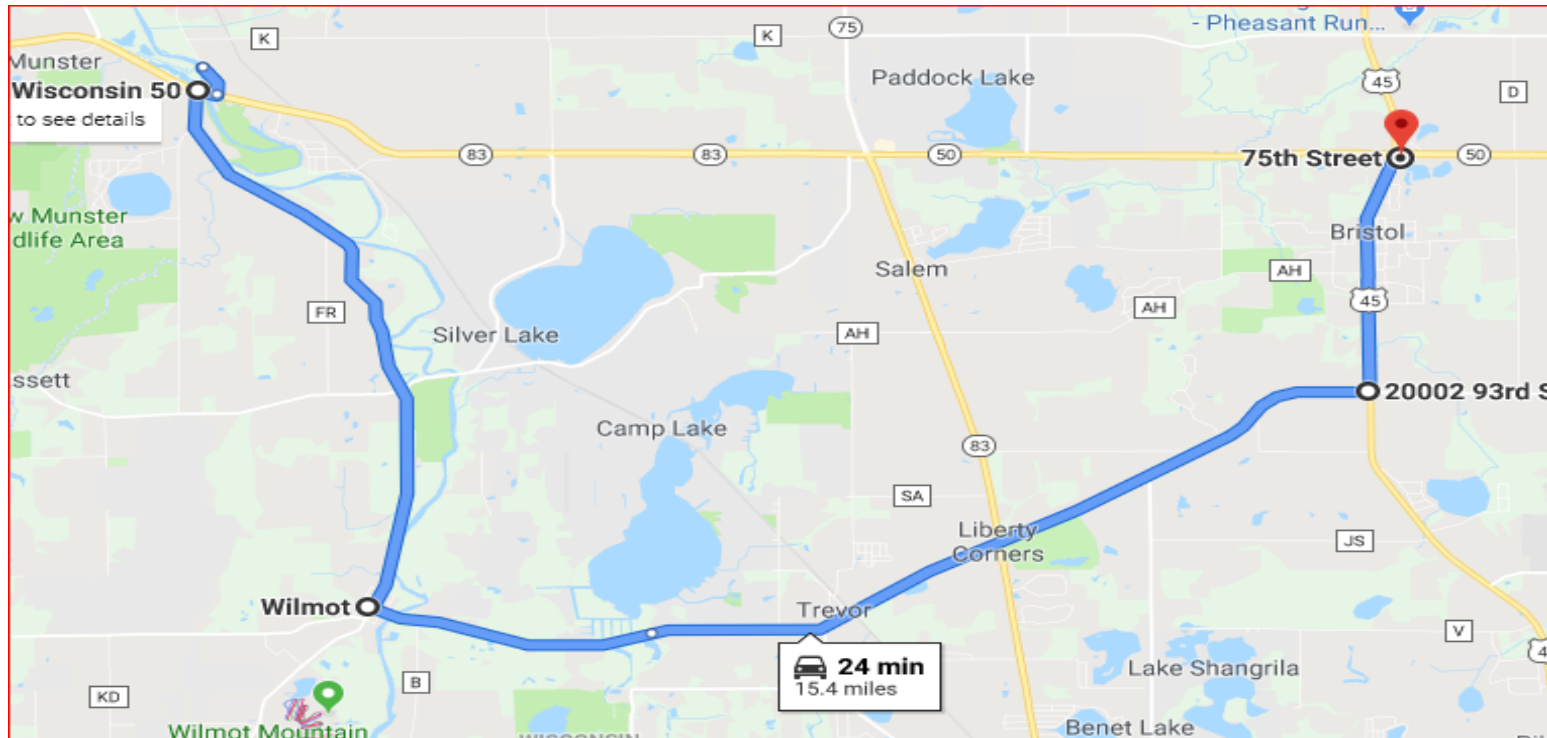
# Detour - WIS 50 Full Closure

- Normal travel time
  - WIS 50 from WIS 83 to US 45 - 9 miles, 13 minutes



# Detour - WIS 50 Full Closure

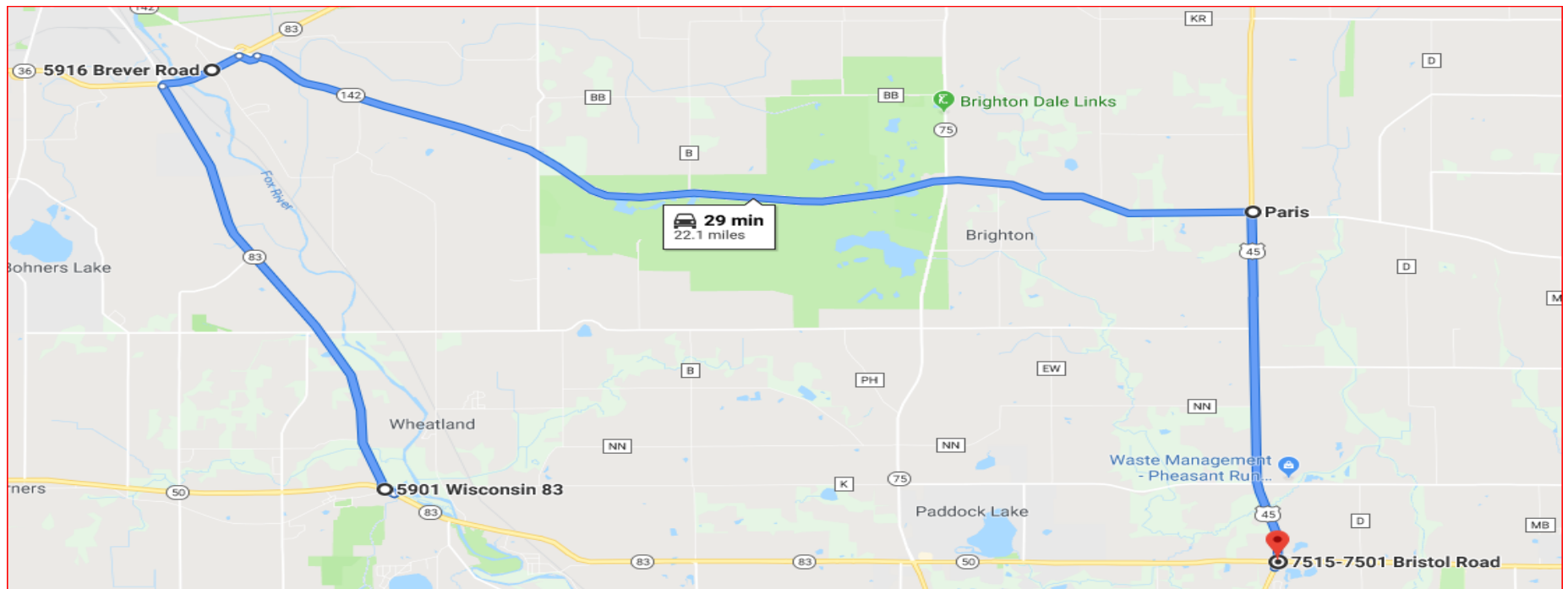
- EB Potential Detour Route
  - County W to County C to US 45 - 15 miles, 24 minutes





# Detour - WIS 50 Full Closure

- WB Potential Detour Route
  - US 45 to WIS 142 to WIS 11 to WIS 83 - 22 miles, 29 minutes



# Construction - Staged and Full Closure

---

- Stage WIS 50 to WIS 83
  - One lane each direction with crossover
- WIS 50 full closure to east limits
  - Detour Route
    - EB - WIS 83 to County C to US 45
    - WB - US 45 to County K to WIS 75

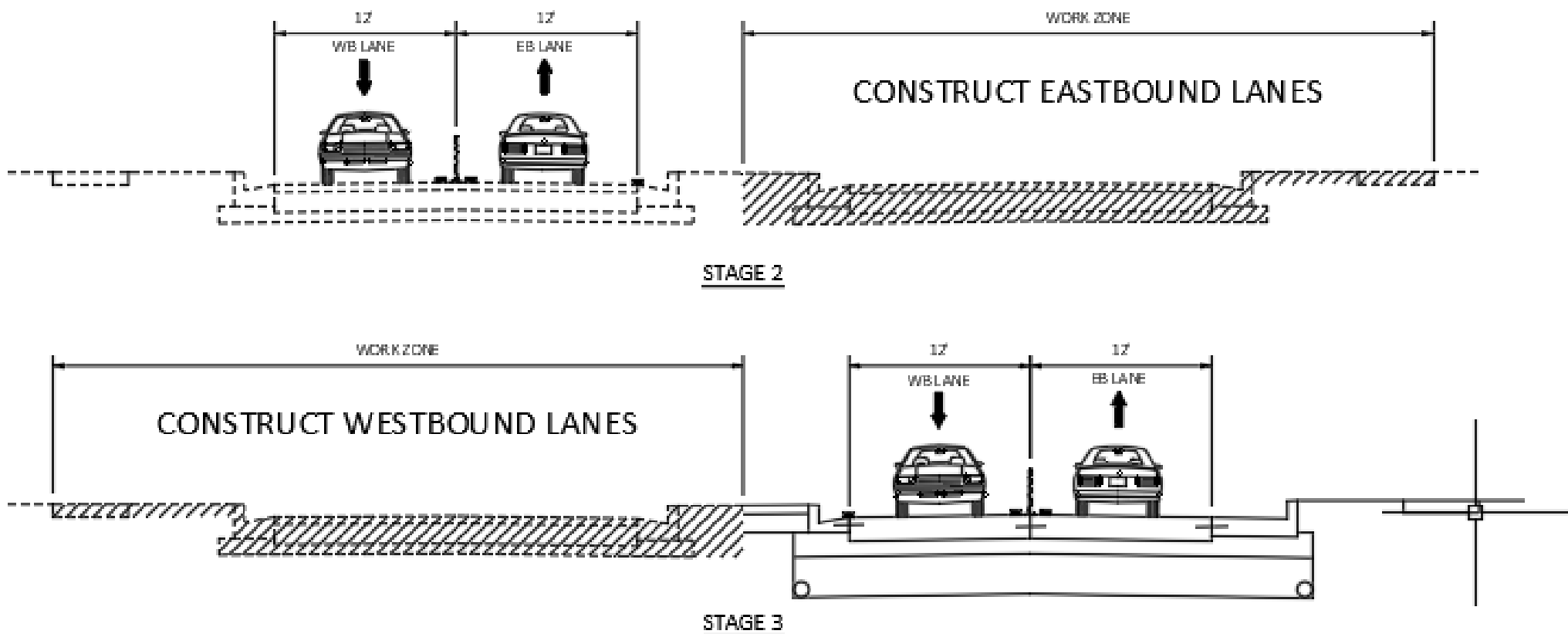
## Construction - One in Lane Each Direction

---

- Staged construction with one lane open in each direction
- Begin construction in May and end construction November
- Install cross overs and temporary signals
- Shift traffic to westbound while eastbound is constructed
- Shift traffic to eastbound while westbound is constructed
- Remove temporary signals and crossovers



# Staging - One Lane in Each Direction

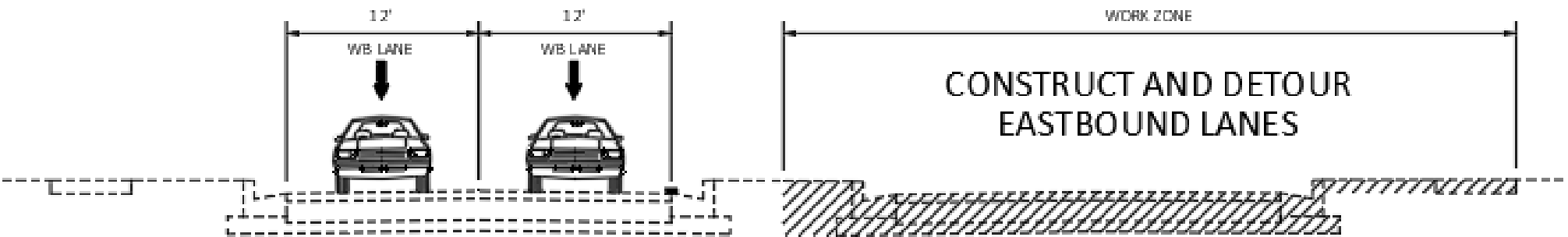


# Construction - Directional Detour

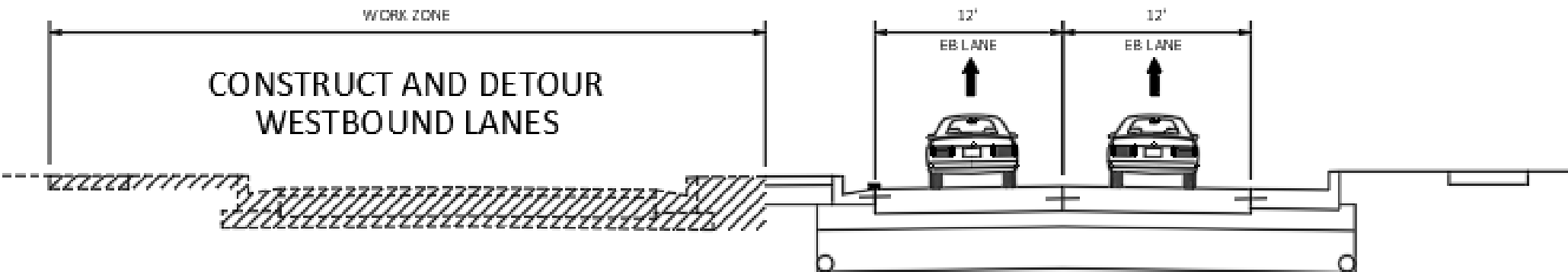
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- WIS 50 one way closure with detour
  - Close eastbound with westbound open
    - Detour - WIS 83 to County C to US 45
  - Close westbound with eastbound open
    - Detour - US 45 to County K to WIS 75

# Staging - Directional Detour



STAGE 2



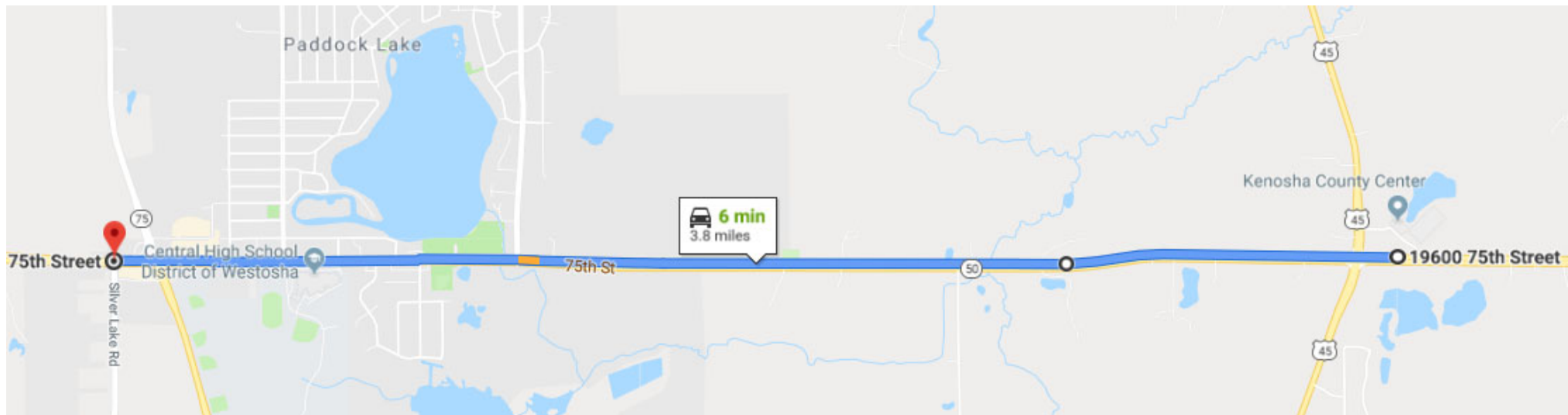
STAGE 3



# Alt Routes / Detour Routes

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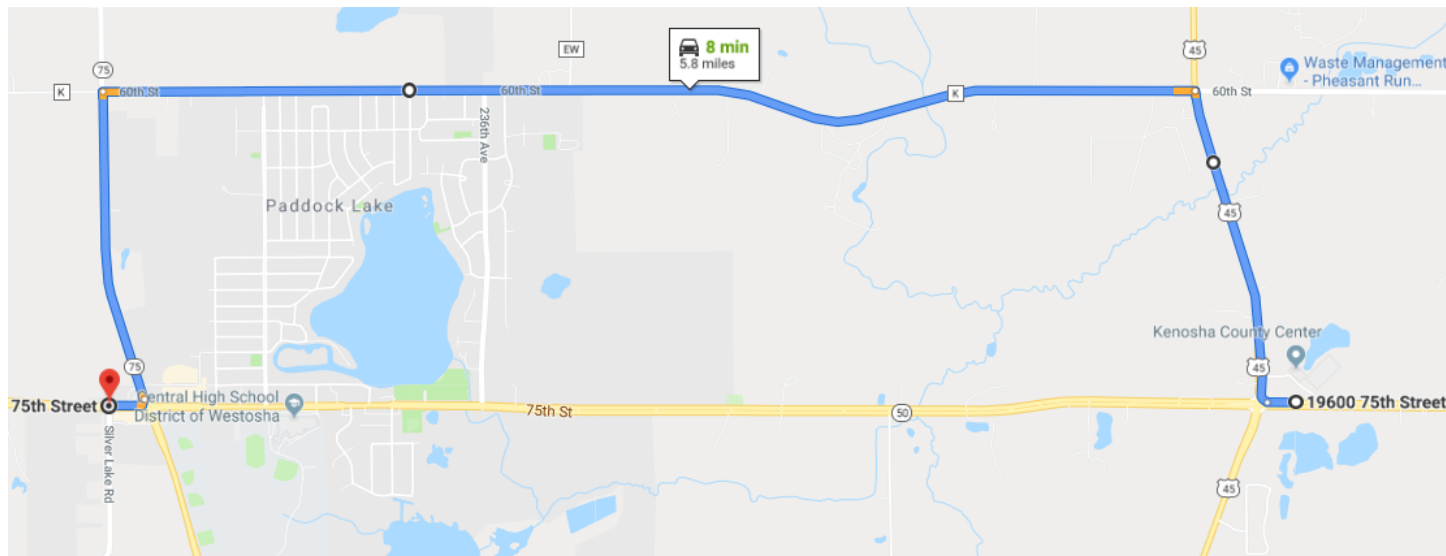
- Normal travel time
  - WIS 50 from US 45 to County F - 3.8 miles, 6 minutes



# Alt Routes / Detour Routes - Westbound

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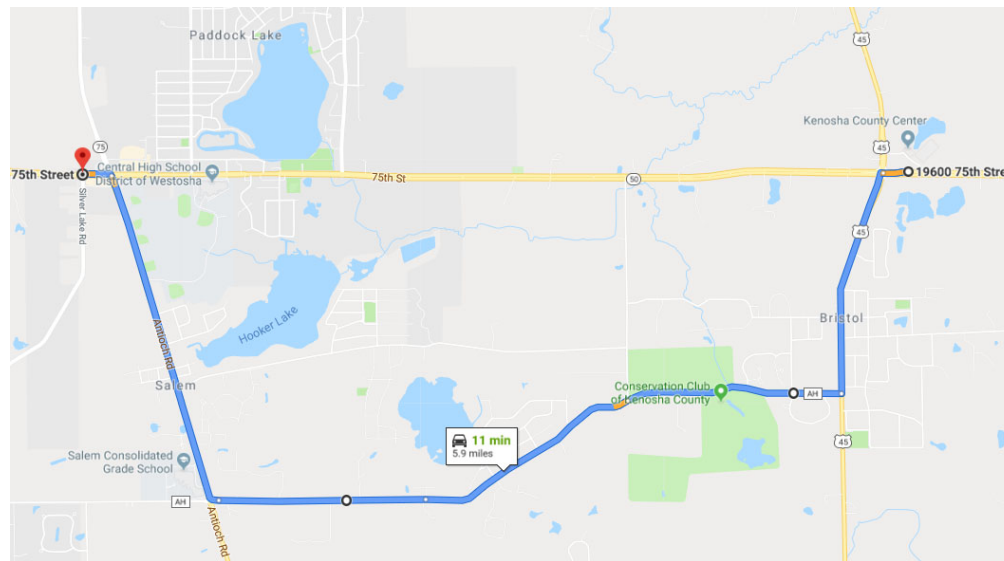
- US 45 to County K to WIS 75 - 5.8 miles
- Alt Route (One Lane in Each Direction)
  - Travel time with 20% diversion - 11 minutes (5 minute delay)
- Detour Route (Close WB lane)
  - Travel time with 80% diversion - 16 minutes (10 minute delay)



# Alt Routes / Detour Routes - Eastbound

---

- WIS 83 to County AH to US 45 - 5.9 miles
- Alt Route (One Lane in Each Direction)
  - Travel time with 20% diversion - 13 minutes (7 minute delay)
- Detour Route (Close EB lane)
  - Travel time with 80% diversion - 16 minutes (10 minute delay)

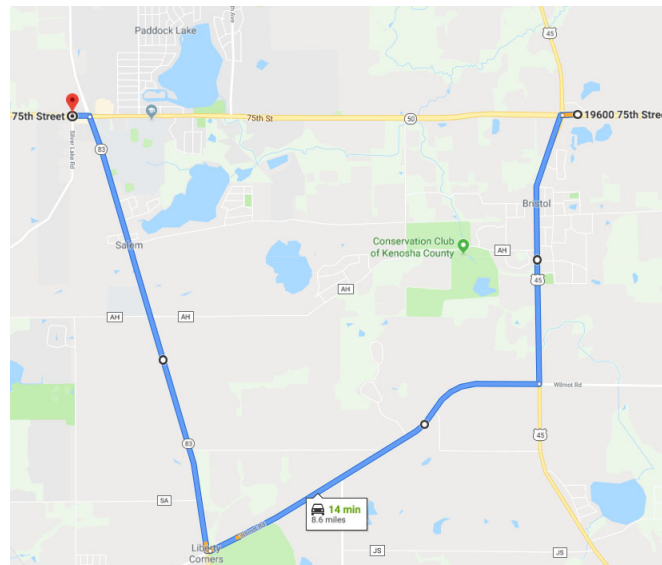




# Alt Routes / Detour Routes - Eastbound

---

- WIS 83 to County C to US 45 - 8.6 miles
- Alt Route (One Lane in Each Direction)
  - Travel time with 20% diversion - 16 minutes (10 minute delay)
- Detour Route (Close EB lane)
  - Travel time with 80% diversion - 22 minutes (16 minute delay)



# Construction - Segments

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- Segments
  - West limit to WIS 83
  - WIS 83 to 246<sup>th</sup> Avenue
  - 246<sup>th</sup> Avenue to east limits

## Construction - Access

- Business signing during construction
- School access
- Business access
- Emergency, garbage, postal
- Property owner access
- Western Kenosha County Transit
- Potential temporary signal at STH 83, 246<sup>th</sup> Ave, STH 83/Falcon Way



# Construction - Access



# Utilities

- Impacts and adjustments
  - Subgrade Excavation
  - Storm Sewer Depth
  - Monotube Bases
  - Aerial Utilities
- Abandoned gas main





# Local Development





# Real Estate

- Real estate process
- Fee acquisition
- Highway easement
- Permanent limited easement
- Temporary limited easement
- Appraisal staking
- Encroachments
- Acquisition start in spring 2020

# Real Estate - Appraisal Staking



# Real Estate - Encroachments

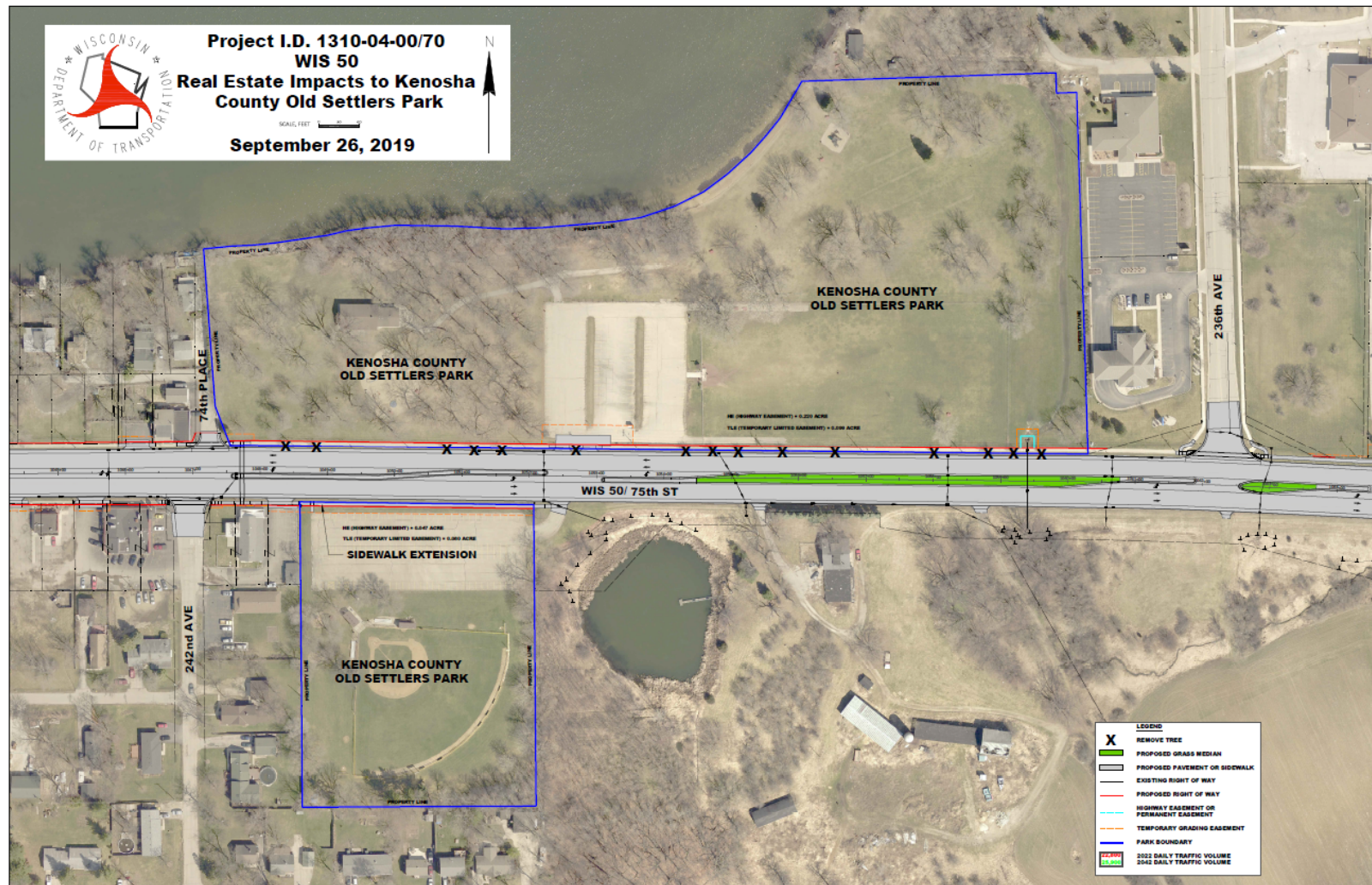
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## Potential Encroachments

- Parking Stalls/Parking Lot
- Landscaping
- Overhanging Billboard Signs
- Signs
- Retaining Walls



# Kenosha County Park Impacts



## Project Schedule

- Real estate acquisition start Spring 2020
- Final plans November 2021
- Begin construction - tentatively April 2022
- End construction - tentatively November 2022

## Cost Share / Funding

- Roadway - 100% Federal/State
- Curb & Gutter - 100% Federal/State
- Replace Sidewalk - 100% Federal/State
- Sidewalk Extension - 20% Paddock Lake



# Local Events

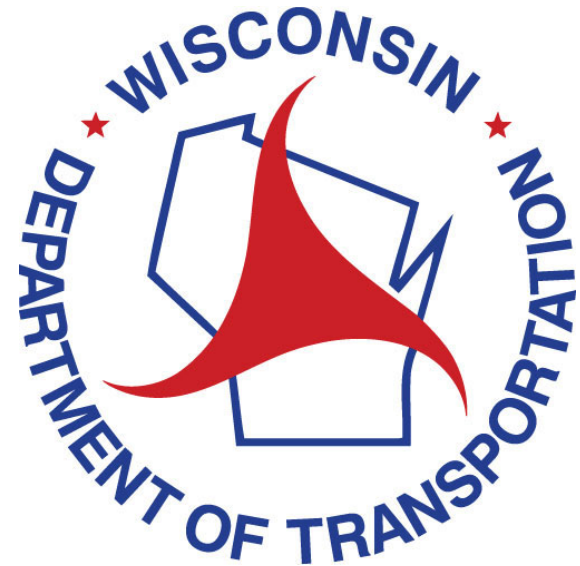
- Octoberfest, 2<sup>nd</sup> Saturday in September
- Home football games
- Homecoming parade
- Any other events?



# Thank You!

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WisDOT SE Region  
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Waukesha, WI 53187-0798  
  
262-548-6721  
Brian.pluemer@dot.wi.gov



Handouts and sign-in sheet are in the back of the room.  
Please see any of the team for comments or questions.