



# TRI-COUNTY EXPANSION



U.S. Department of Transportation  
Federal Highway  
Administration

# WIS 441 Tri-County Project

## Business Meeting

June 14, 2018

# Presentation Outline

- Introductions
- Project schedule
- Construction update
- Diverging Diamond Interchange
- Work zone safety
- Community outreach and business resources

# Introductions

- WIS 441 Tri-County Project team
  - Will Dorsey, Northeast Region Director
  - Tom Buchholz, Project Development Manager
  - Chad DeGrave, Design Supervisor
  - Scott Ebel, Design Project Manager
  - Tammy Rabe, Construction Supervisor
  - Kurt Peters, Construction Project Manager
  - Melissa Kok, Northeast Region Assistant Communication Manager

# Project Schedule

Function	2012	2013	2014	2015	2016	2017	2018	2019
Design								
Real Estate								
Utilities								
Construction								

# 2018 Construction Updates



- I-41 System interchange
- LLBDM crossing
- Racine Road interchange
- Midway Road interchange
- Oneida Street Interchange

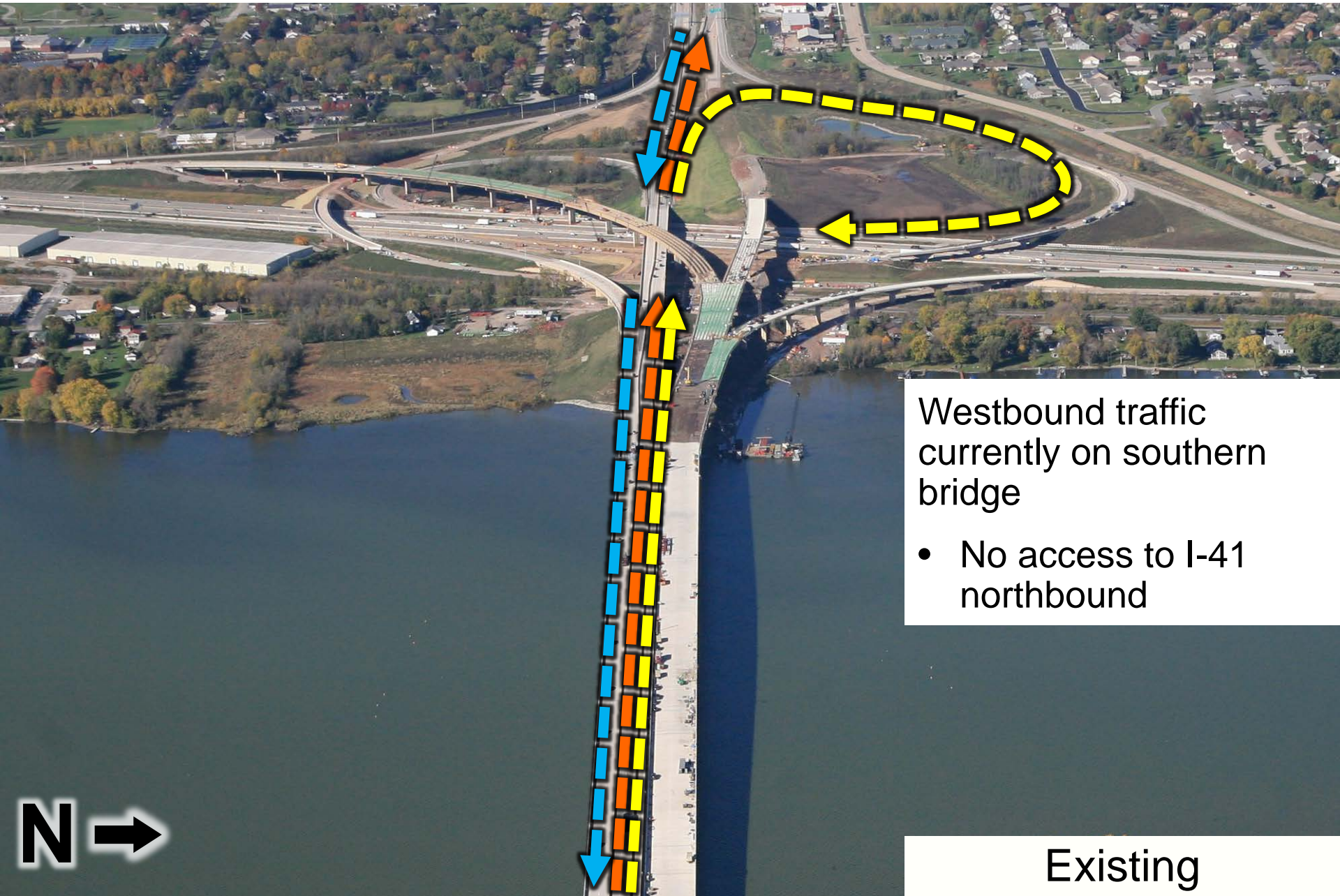


# Restore Ramp Movements





# LLBDM Crossing Traffic Switch



Westbound traffic  
currently on southern  
bridge

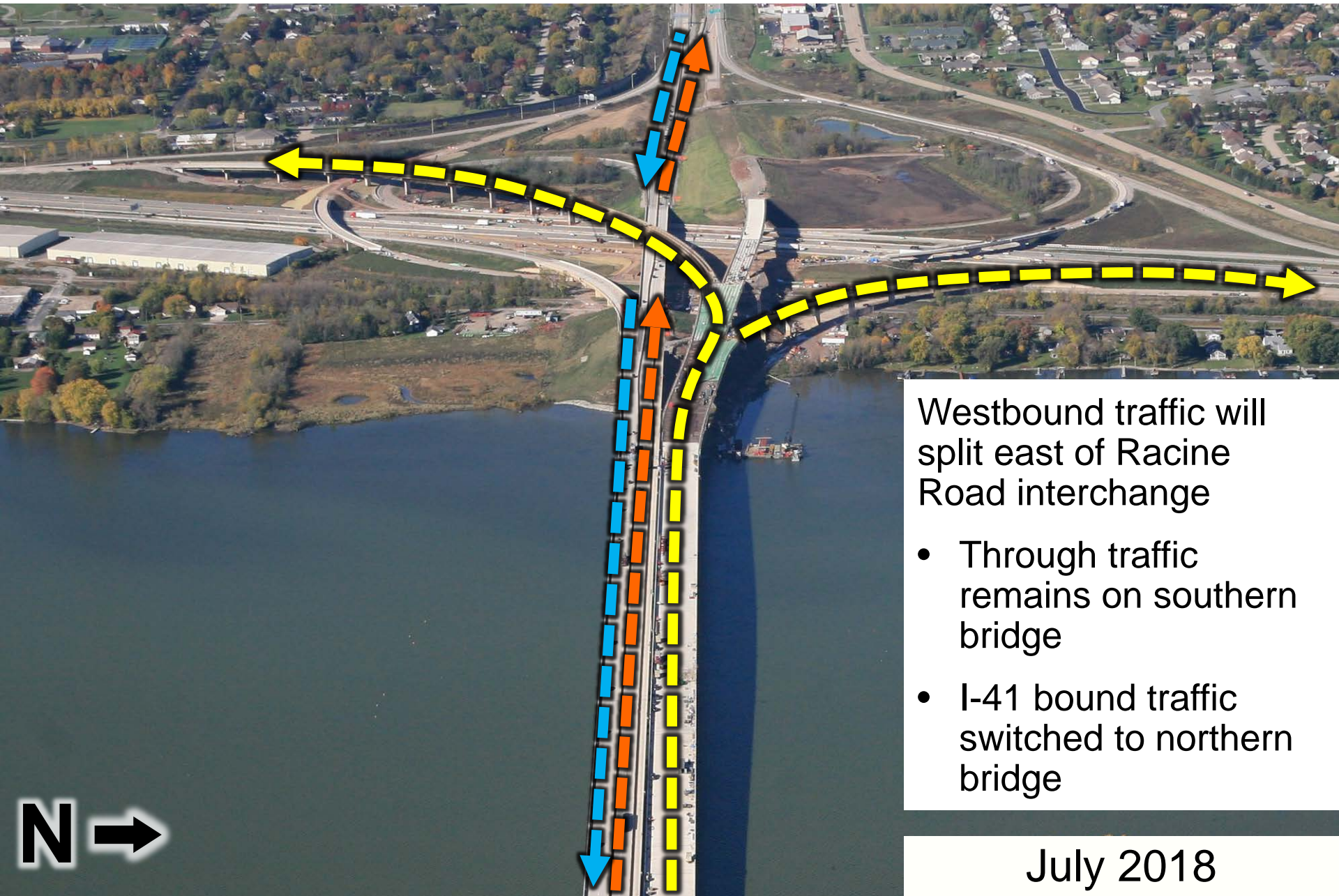
- No access to I-41  
northbound

N →

Existing



# LLBDM Crossing Traffic Switch



Westbound traffic will split east of Racine Road interchange

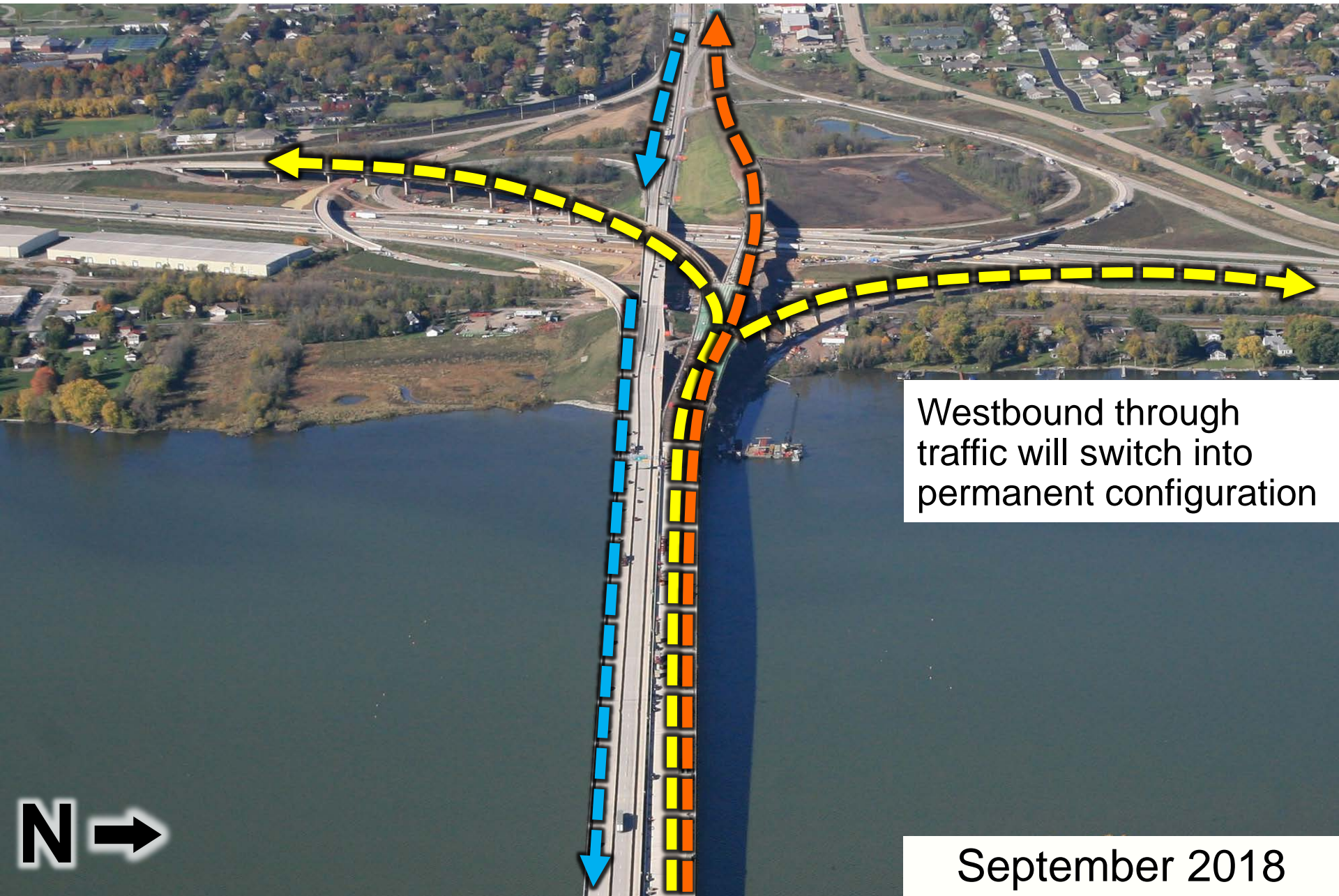
- Through traffic remains on southern bridge
- I-41 bound traffic switched to northern bridge

July 2018





# LLBDM Crossing Traffic Switch



Westbound through traffic will switch into permanent configuration



September 2018



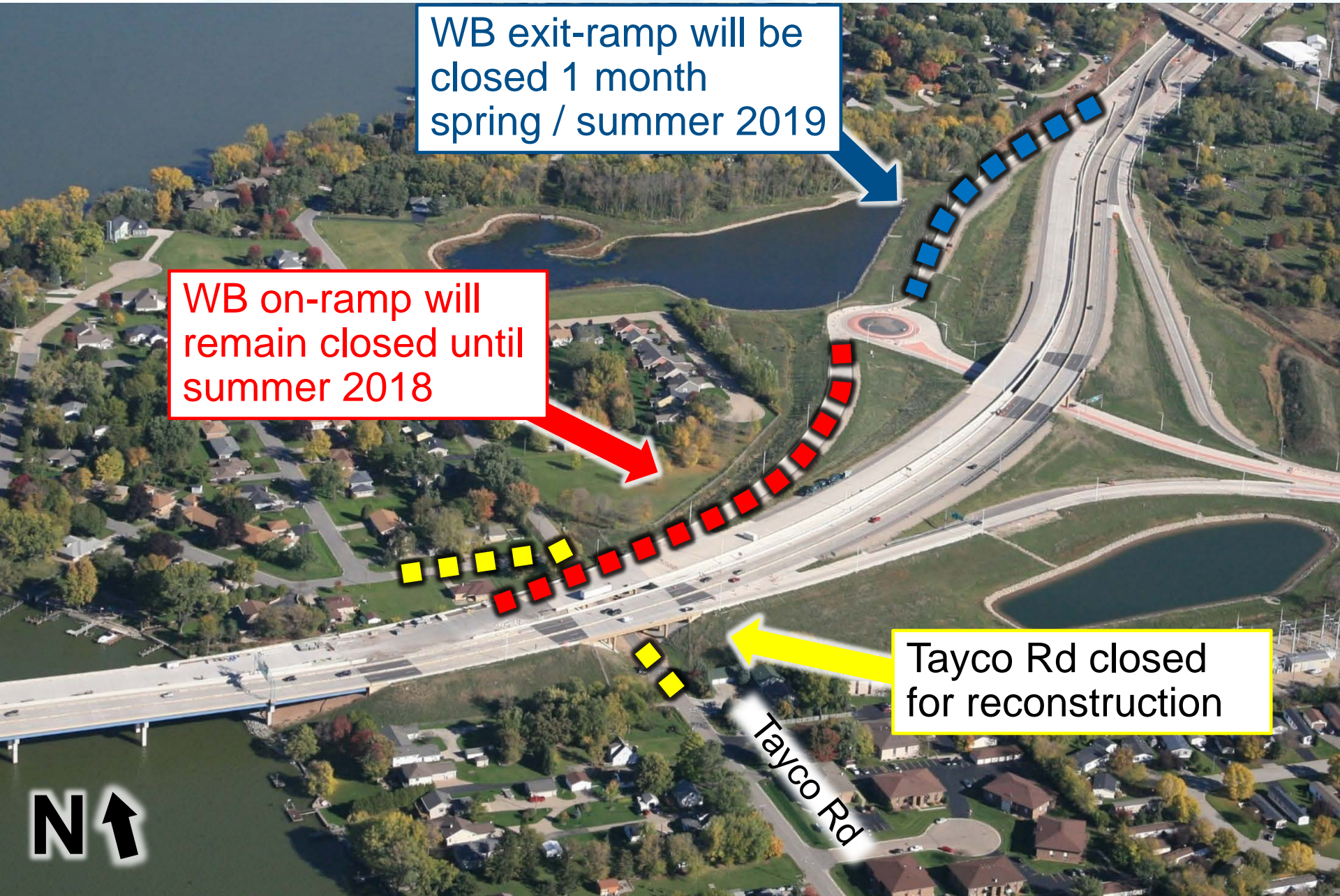
# Racine Road Interchange

WB exit-ramp will be  
closed 1 month  
spring / summer 2019

WB on-ramp will  
remain closed until  
summer 2018

Tayco Rd closed  
for reconstruction

Tayco Rd





# County AP/Midway Rd Interchange

Midway Road  
and Racine  
Road  
**CLOSURES** in  
summer 2019

**CLOSED**  
July 2017 to  
summer 2019

Racine Rd

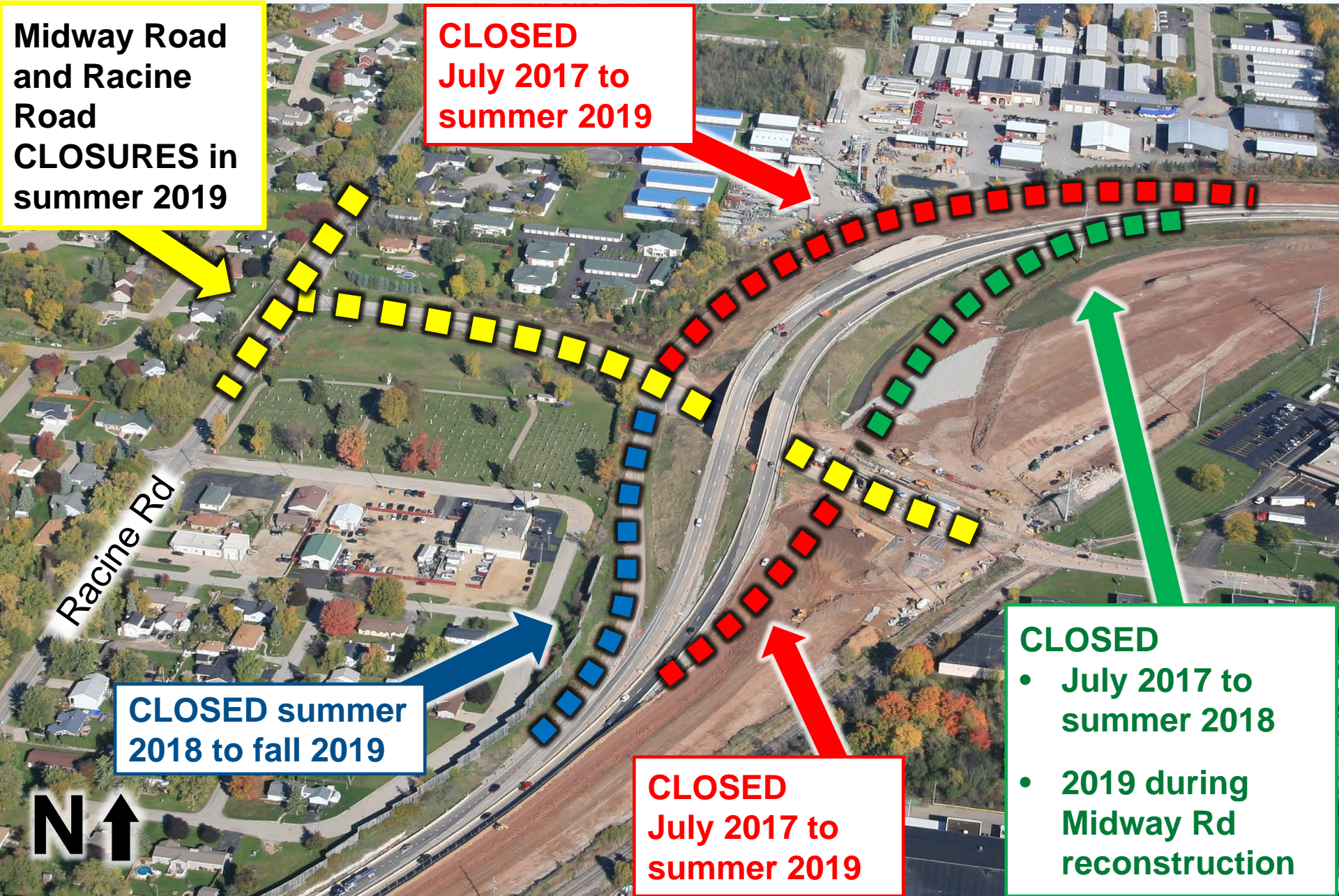
**CLOSED** summer  
2018 to fall 2019

N ↑

**CLOSED**  
July 2017 to  
summer 2019

**CLOSED**

- July 2017 to summer 2018
- 2019 during Midway Rd reconstruction



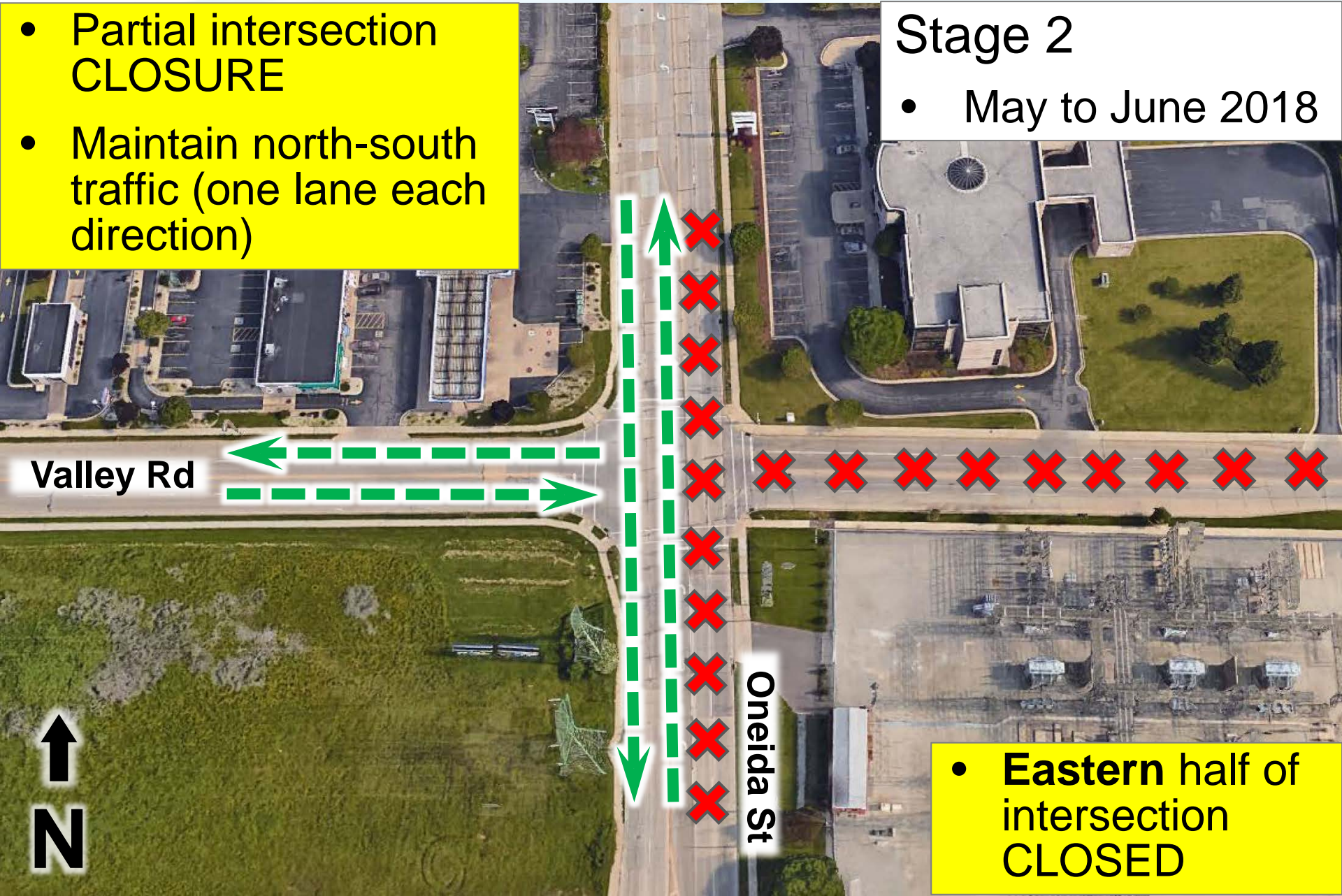


# Oneida St & Valley Rd Intersection

- Partial intersection CLOSURE
- Maintain north-south traffic (one lane each direction)

Stage 2

- May to June 2018



Valley Rd

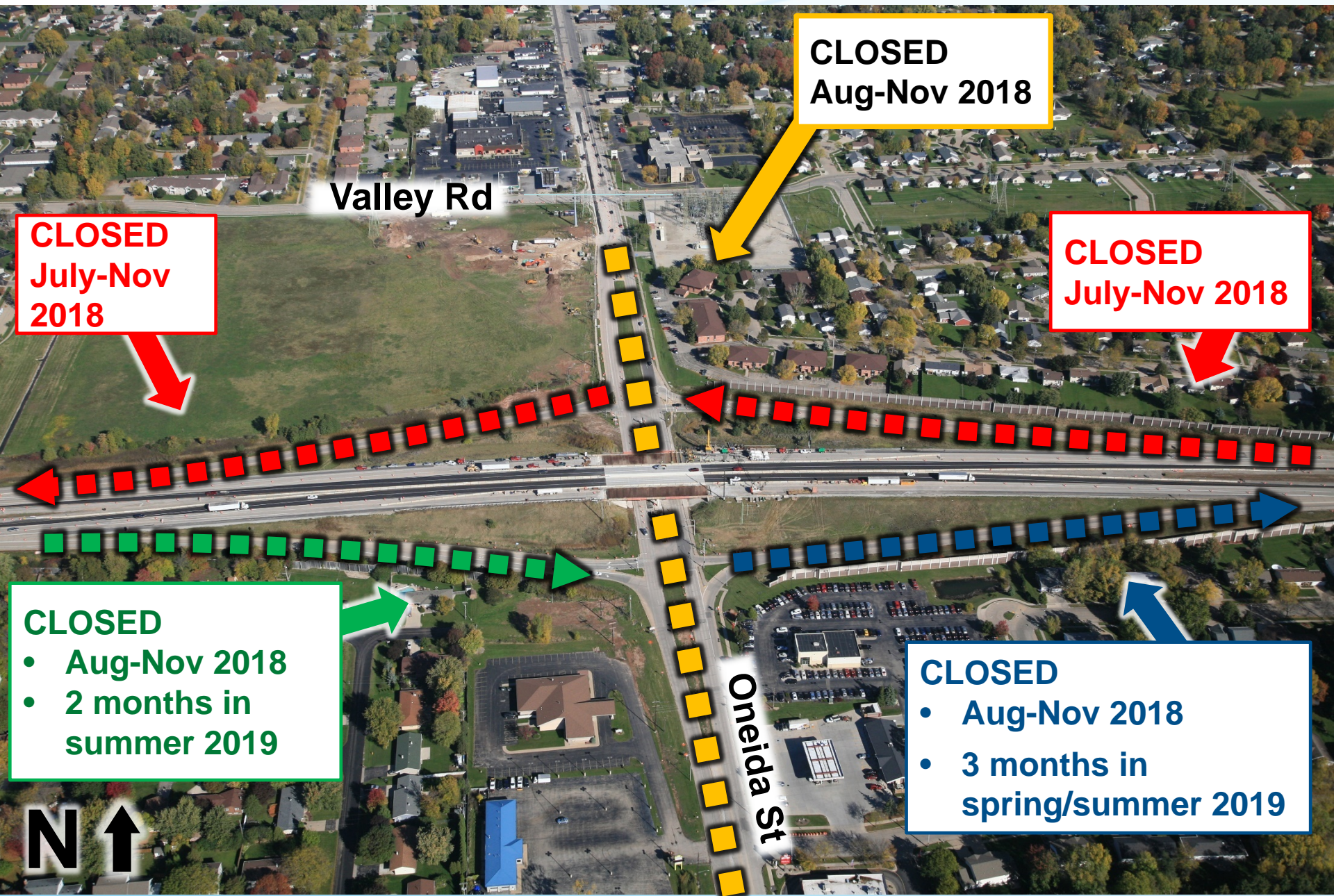
Oneida St

↑  
N

- Eastern half of intersection CLOSED



# Oneida Street Interchange



**CLOSED**  
Aug-Nov 2018

**CLOSED**  
July-Nov  
2018

**CLOSED**  
July-Nov 2018

**CLOSED**  
• Aug-Nov 2018  
• 2 months in  
summer 2019

**CLOSED**  
• Aug-Nov 2018  
• 3 months in  
spring/summer 2019

**N** ↑

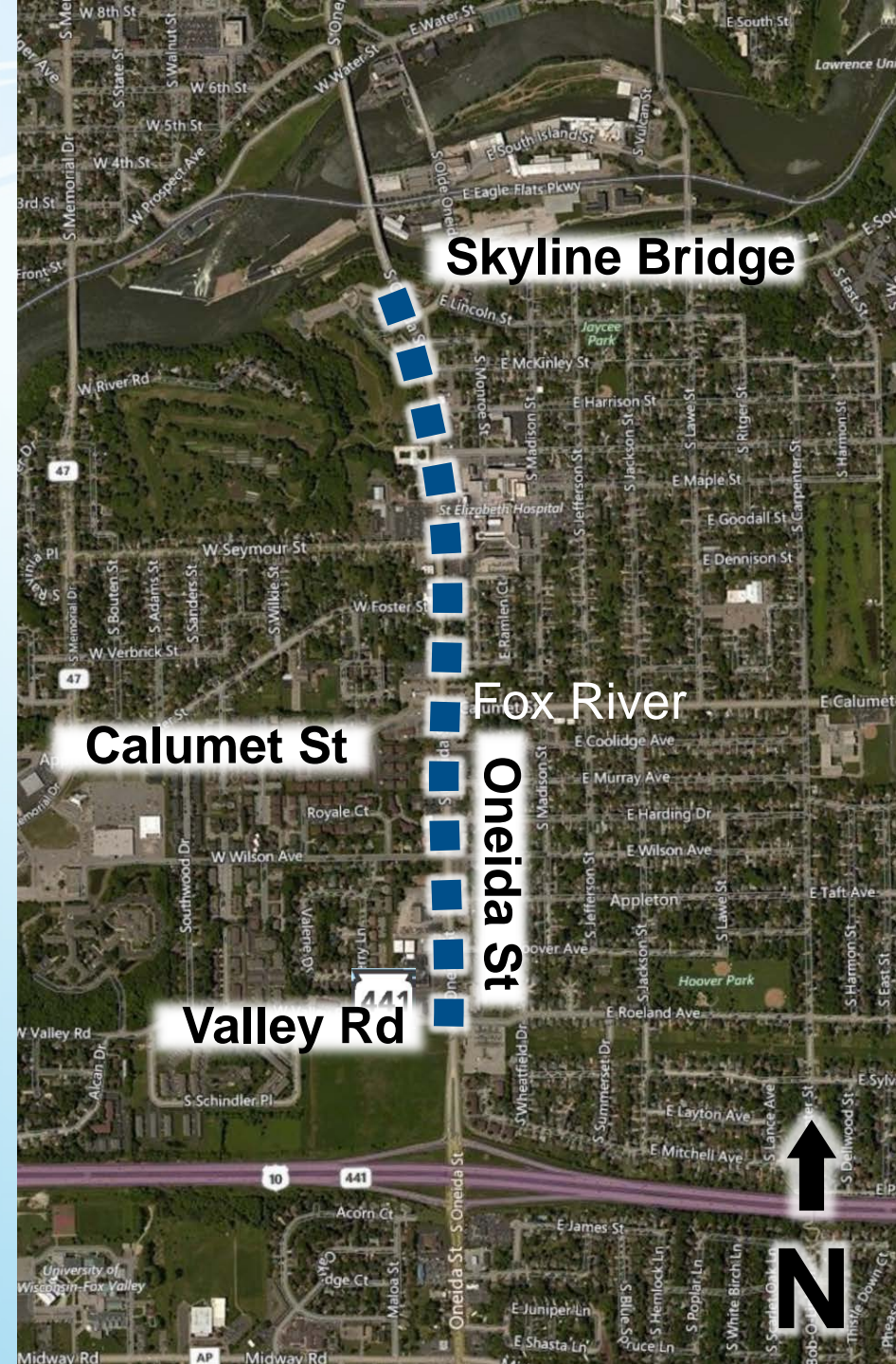
Valley Rd

Oneida St



# Other work in area

- City of Appleton
  - Roeland/Valley Road to Skyline bridge
  - Reconstruction of concrete pavement
  - April to Nov 2018
- Coordinated with WIS 441 project



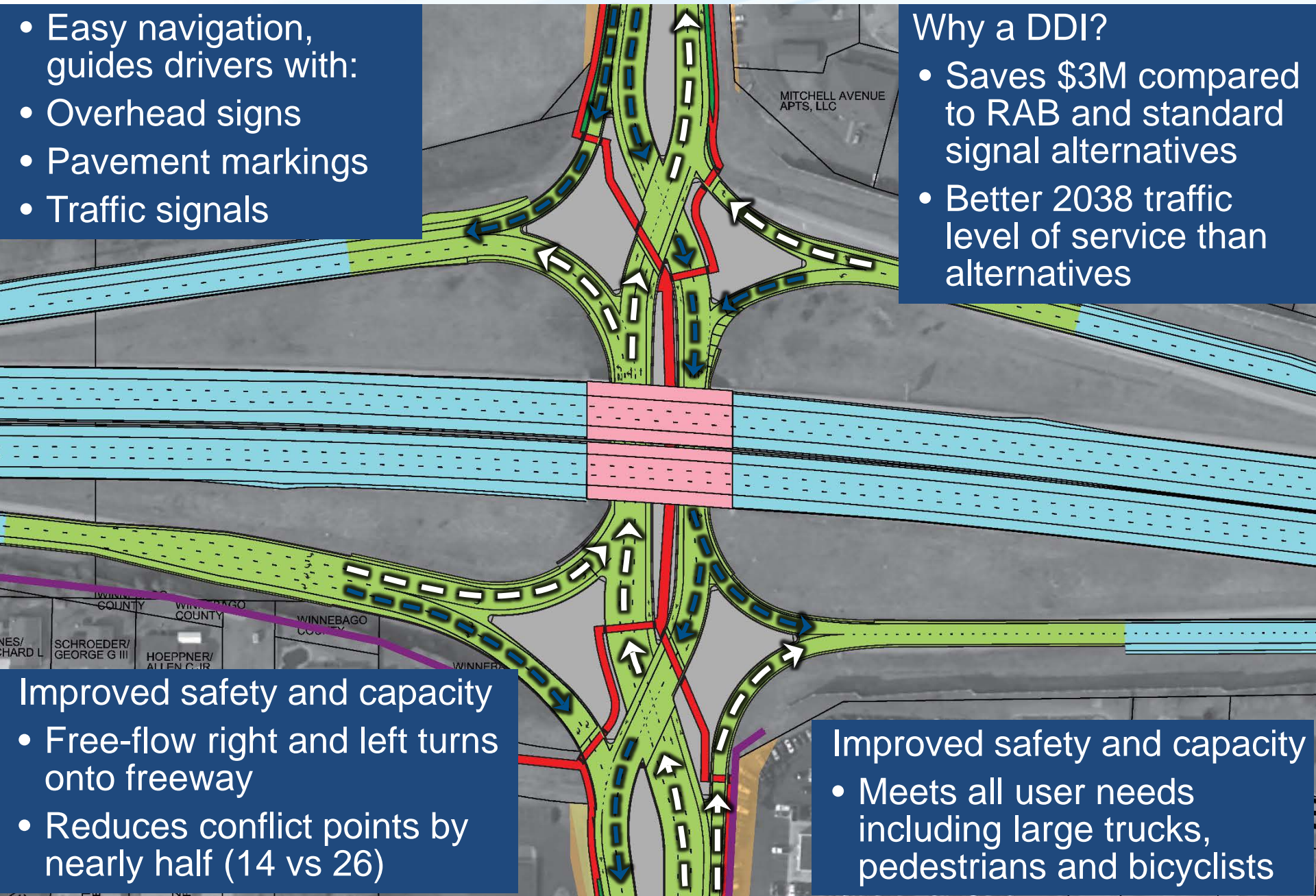


# Diverging Diamond Interchange

- Easy navigation, guides drivers with:
- Overhead signs
- Pavement markings
- Traffic signals

## Why a DDI?

- Saves \$3M compared to RAB and standard signal alternatives
- Better 2038 traffic level of service than alternatives



## Improved safety and capacity

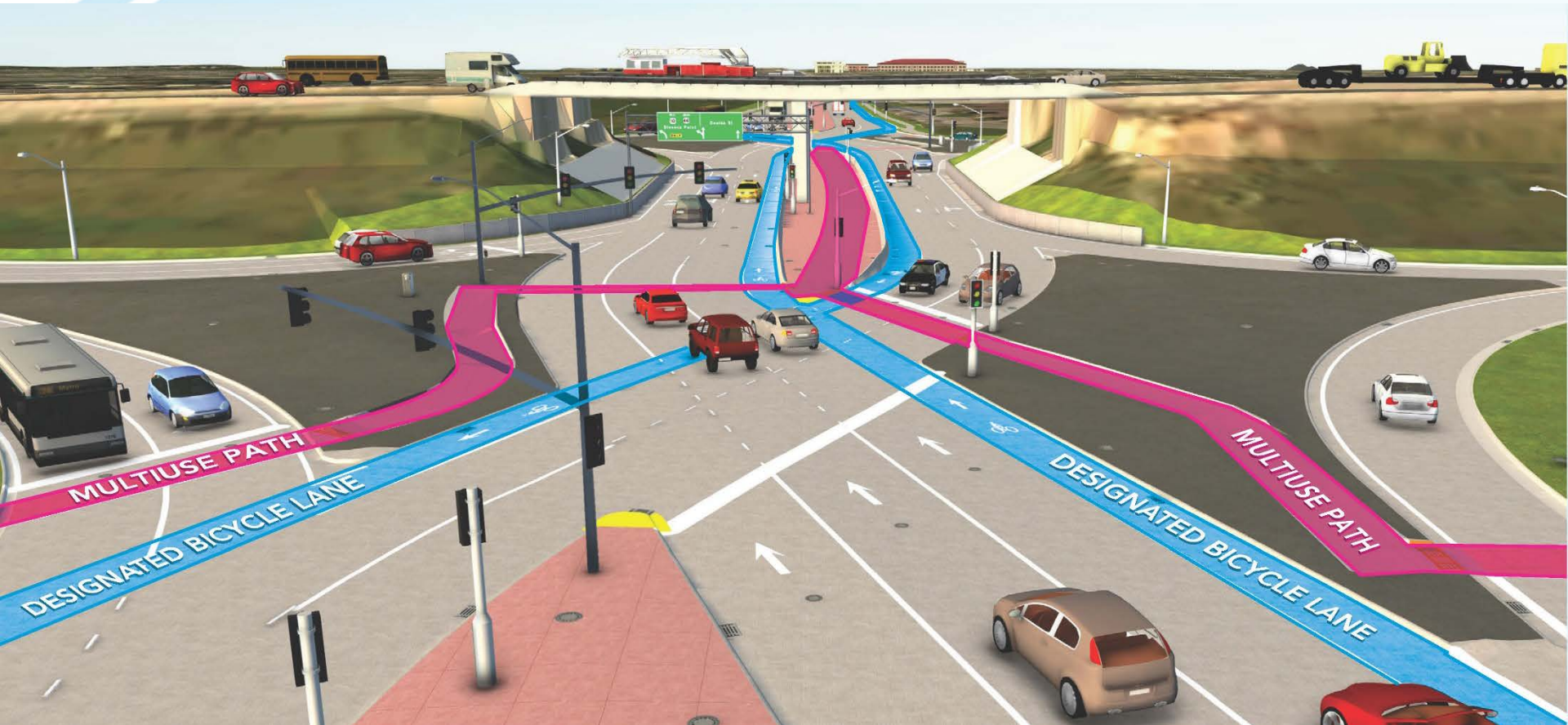
- Free-flow right and left turns onto freeway
- Reduces conflict points by nearly half (14 vs 26)

## Improved safety and capacity

- Meets all user needs including large trucks, pedestrians and bicyclists

# DDI – Bike and Pedestrians

- **Bikes:** Use designated bicycle lane or multi-use path and crosswalks
- **Pedestrians:** Stay on the designated multi-use path and cross at the crosswalks; follow walk signals when present





# DDI – Oneida Street Northbound to US 10 Westbound



# Business Resources - DDI

WIS 441 TRI-COUNTY PROJECT

## How to drive the DIVERGING DIAMOND INTERCHANGE

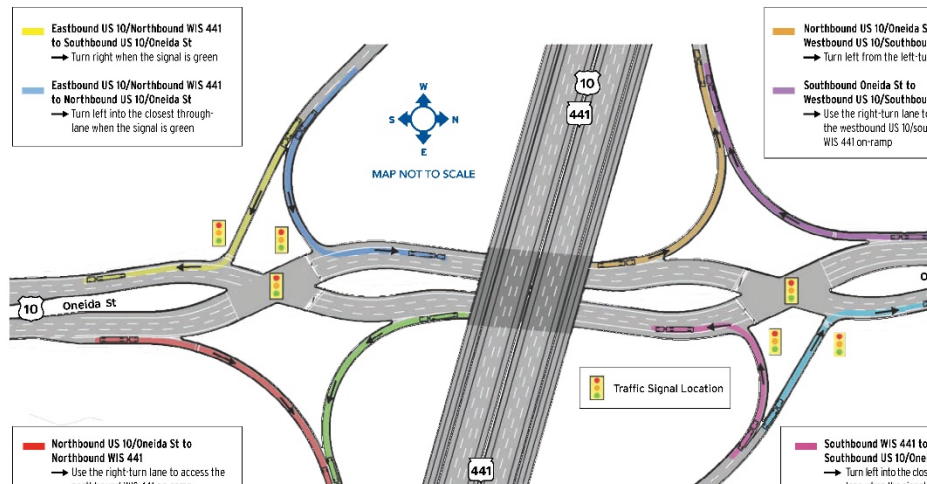
### *a guide for LARGE TRUCKS*

A Diverging Diamond Interchange (DDI) will be completed in late 2018 at the WIS 441 and US 10 (Oneida Street) interchange. The DDI is being constructed as a part of the WIS 441 Tri-County Expansion Project. Construction will begin in fall 2018.

Within the interchange, traffic on Oneida Street briefly crosses over and travels on the left side of the road to allow left turn movements to occur without crossing oncoming traffic or stopping. A DDI has fewer conflict points, reducing the opportunities for crashes, and there is greater capacity for vehicles at the interchange.

US 10 (Oneida Street) handles large volumes of traffic moving to and from WIS 441. During the morning peak hour, more than 825 vehicles per hour are projected to turn left from northbound Oneida Street onto westbound US 10/southbound WIS 441. The DDI will safely and efficiently accommodate these left turns along with all other traffic movements.

As drivers approach a DDI, it's important to follow the overhead signs and pavement markings to choose the appropriate lane. The graphic and narrative below show how to navigate the US 10 (Oneida Street) DDI.



### DIVERGING DIAMOND INTERCHANGE (DDI)

#### ADVANTAGES of a DDI

DDIs are an alternative to roundabouts, traffic signals and stop signs to control traffic, have many operational and safety benefits, and are designed to meet the needs of all road users.

##### SAFETY

Reduces the number of ways vehicles can collide by almost half (14 compared to 26 for a conventional diamond interchange).

##### GREATER CAPACITY AND EFFICIENCY

Accommodates more traffic than conventional designs. Drivers make free-flow, left turns onto the Freeway.

##### REDUCES BACKUP CONGESTION

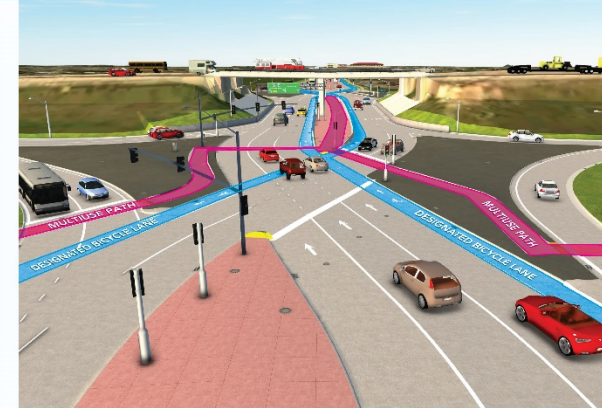
At intersections where there is a high volume of left turns onto the Freeway, DDIs reduce traffic backups because the free-flow left turns mean vehicles do not have to stop to access the ramp.

##### EASY NAVIGATION

Guides drivers with overhead signs, pavement marking and traffic signals.

##### MEETS THE NEEDS OF ALL ROAD USERS

Accommodates large trucks, vehicles, pedestrians and bicyclists.



#### NAVIGATING the DDI

**BICYCLISTS** on the road  
Use the designated bicycle lane to navigate through the DDI.

**crossing as a PEDESTRIAN**

Always stay on the designated multiuse path and cross only at the crosswalks following walk signals when present.



# Business Resources

## 'In this together' kit

- Partnership with businesses
- Tools to maintain connection with customers
- Print ad templates
- Web banner ads
- Web site button

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## In This Together

In This Together

Workbook

Case studies

Promotional samples

WisDOT recognizes businesses located in work zones have special needs. It's critical that customers have access to businesses and that they continue to visit them, regardless of any road work inconvenience.

The In This Together program includes:

- Workbook and
- Case studies that demonstrate techniques that have been successfully used in communities throughout Wisconsin.
- Promotional samples showing a variety of examples of how businesses have promoted their businesses during construction.





# Work Zone Safety

- Recognizing work zones
  - Flashing lights
  - Orange signs
  - Barrels and flags
- Driving
  - Slow down
  - Follow the law
  - Plan ahead
  - **Handheld devices are now illegal in work zones**
  - Expect the unexpected
- Consequences

- Freeway Service Team
- Intelligent Transportation Systems (ITS)
- Emergency responder meetings



# Construction Communication

- Traffic impacts
  - Nighttime lane closures
  - Ramp closures
- Changeable message boards
- News / media alerts
- Website





# Project Website

## WIS 441 Tri-County Project

Tri-County Expansion



[www.projects.511wi.gov/wis441/](http://www.projects.511wi.gov/wis441/)

OVERVIEW

SCHEDULE

MAP

CLOSURES

NEWS RELEASES

PHOTOS

RESOURCES ▸

CONTACT

### Overview

Welcome to the WIS 441 Tri-County Project construction website! The WIS 441 Project will reconstruct and expand approximately 6 miles of US 10 / WIS 441 from 4 lanes to 6 lanes between Cold Spring Road (County B) and Oneida Street (US 10) in Winnebago County and reconstruct five interchanges and the Roland Kamp Bridge.

Need daily road closures for the WIS 441 Project?

Follow us on social media!

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FULL OVERVIEW



- Keeping public informed
  - Project web presence
  - Media outreach
  - Newsletters
  - Public meetings
  - Social media
- Feedback



# Questions?





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