

# Virtual Public Involvement Meeting

WisDOT ID: 1090-09-06/76

I-43 Rock Freeway

WIS 164 to Moorland Rd

Waukesha County

Evan Limberatos, P.E.  
WisDOT Project Manager



**November 2021**

# I-43 – WIS 164 to Moorland Rd

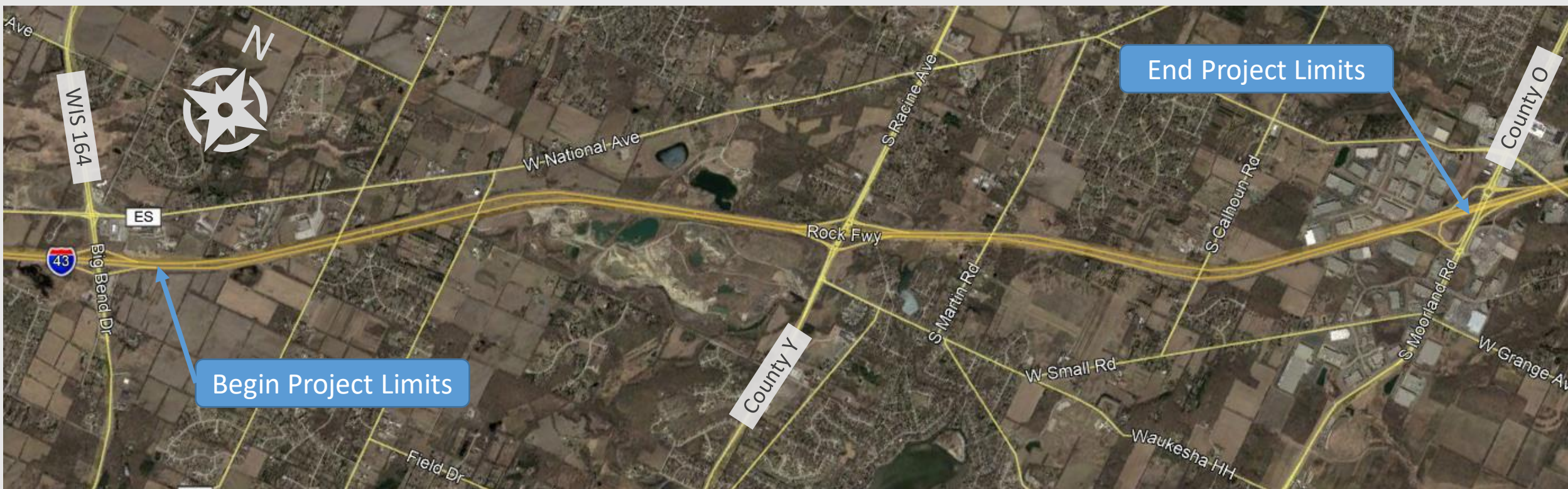
## Agenda

- Project Overview
- Project Purpose and Need
- Traffic
- Project Scope Overview
- Construction Staging
- Project Schedule
- Contact Information



# I-43 – WIS 164 to Moorland Rd

## Project Overview



# I-43 – WIS 164 to Moorland Rd

## Project Purpose and Need

- Purpose:

- Address the deteriorating pavement condition and extend the pavement life of the corridor
- Preserve the condition and extend the service life of the existing box culvert and retaining wall structures
- Address guardrail and high friction surface treatment deterioration and deficiencies
- Address drainage needs



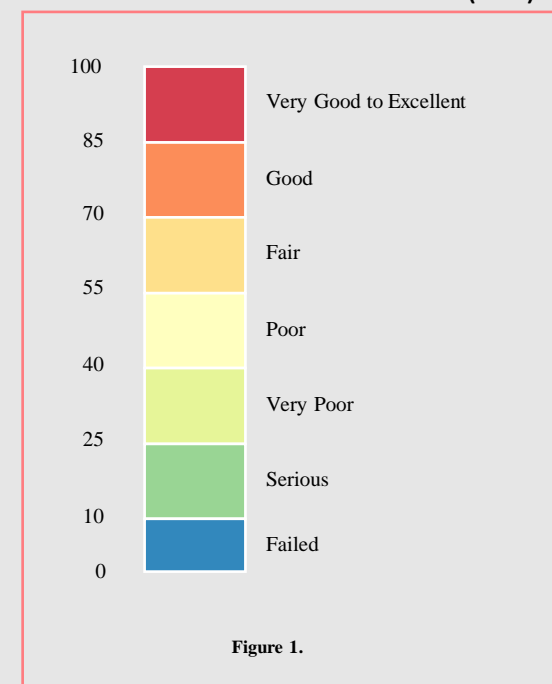
# I-43 – WIS 164 to Moorland Rd

## Project Purpose and Need

### • Need (Pavement):

- The pavement is beginning to deteriorate and experiencing transverse and longitudinal cracking
- At the time the project is scheduled for construction, the pavement will be in fair to poor condition
  - Pavement Condition Index (PCI) between 56 – 50 in 2026
- The last rehab was completed in 2011 and the pavement will be nearing the end of its service life

Pavement Condition Index (PCI)





# I-43 – WIS 164 to Moorland Rd

## I-43 NB between WIS 164 and Racine Ave/County Y



September 2018





# I-43 – WIS 164 to Moorland Rd

## I-43 NB between Racine Ave/County Y and Moorland Rd/County O



September 2019





# I-43 – WIS 164 to Moorland Rd

## I-43 SB between WIS 164 and Racine Ave/County Y



September 2019





# I-43 – WIS 164 to Moorland Rd

## I-43 SB between Racine Ave/County Y and Moorland Rd/County O



September 2019



# I-43 – WIS 164 to Moorland Rd

## Project Purpose and Need

- Need (Structures):

- R-67-87 (I-43 west of Moorland Rd) and R-67-80 (I-43 east of Moorland Rd) were constructed in 2008 and are beginning to experience spot concrete delamination, spalling and cracking in the wall panels
- C-67-24 (I-43 NB on ramp and County Y over Drainage Way) was constructed in 1968 and was extended in 2009. The structure is experiencing spot concrete delamination and spalling which is exposing reinforcement steel
- C-67-12 (I-43 over Drainage Ditch, east of Racine Ave) was constructed in 1963 and is experiencing spot concrete delamination, spalling and cracking within the culvert. The northwest wingwall is tipped outward from its original constructed location



# I-43 – WIS 164 to Moorland Rd

## Project Purpose and Need

- Need (Ancillary Scope):

- Most of the guardrail along the corridor was last replaced in 2011 and at some locations the hardware is determined to be operationally deficient/missing.
- The high friction surface treatment located at the roundabouts at County Y/Racine Ave was installed in 2015 and is beginning to peel from the pavement surface. High friction surface treatments typically have a service life of 7-12 years so replacement is within the service life window.
- There are four culvert pipes along I-43 where the end wall has separated from the pipe.
- There are three culvert pipes along I-43 where the pipe is in poor condition. The ends of the pipes have deteriorated which is not allowing proper drainage and collecting silt and vegetation.





# I-43 – WIS 164 to Moorland Rd

## Traffic



# I-43 – WIS 164 to Moorland Rd

## Project Scope Overview

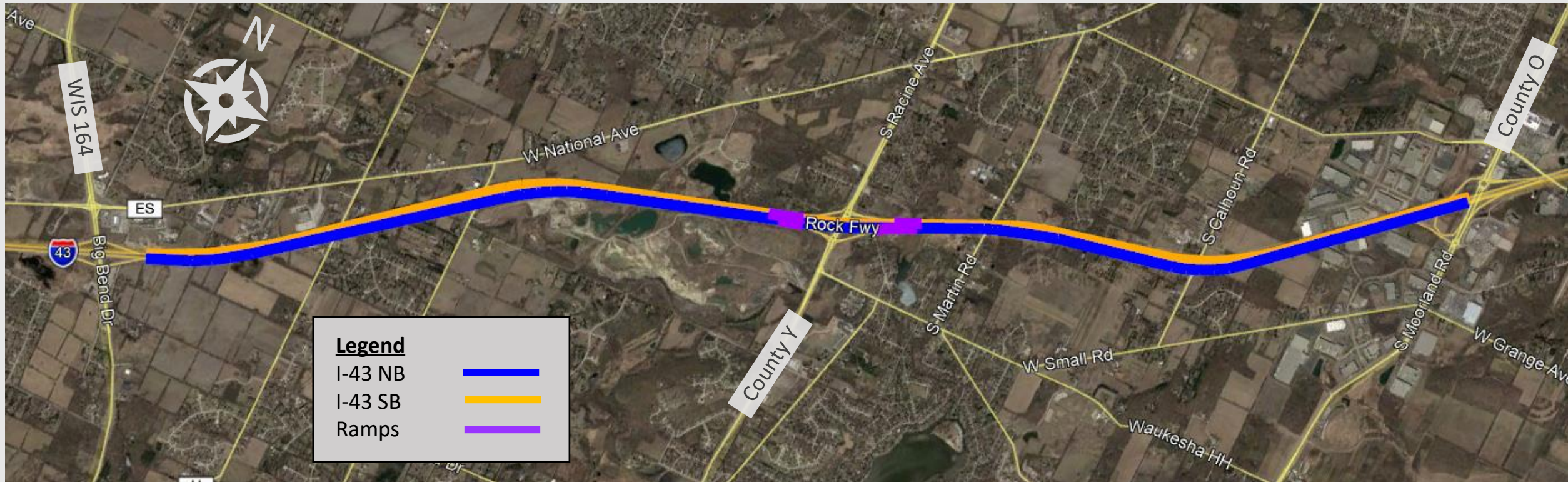
- Resurfacing of I-43 between WIS 164 and Moorland Rd with base patching and joint & crack repair as needed
  - Travel Lanes: Mill 3 ¼" to 3 ½" existing asphalt, place 3 ½" new asphalt
  - Shoulders: Mill 1 ¾" existing asphalt, place 1 ¾" new asphalt
- Guardrail replacement
- Culvert pipe repair/replacement
- Replace high friction surface treatment at County Y roundabouts
- Replace existing signing and pavement marking





# I-43 – WIS 164 to Moorland Rd

## Project Scope Overview





# I-43 – WIS 164 to Moorland Rd

## Project Scope Overview - Structures

- R-67-87: Concrete surface repairs
- R-67-80: Seal leaking joint in MSE wall
- C-67-24: Patch spall on south wall
- C-67-12: Replace NW wingwall



# I-43 – WIS 164 to Moorland Rd

## Construction Staging

- The construction work along I-43 would be performed during nighttime hours with single lane closure.
- The posted speed along I-43 within the project limits is 70 mph and to enhance traffic and worker safety, the speed will be reduced to 55 mph when construction is present during the scheduled working time.
- The proposed work along Racine Ave/County Y roundabouts would be performed overnight utilizing a full closure for a few separate nights. The project construction is anticipated to last for 5 to 6 months.
- Access for residents, businesses, and emergency services will be coordinated and maintained throughout the project limits during construction. Paving and repair work will need to be constructed in stages. Lane closures will be communicated closely with local officials and will be restricted during holiday and special event periods.



# I-43 – WIS 164 to Moorland Rd

## Project Schedule

- Environmental Document: January 2022
- Preliminary Plans: February 2022
- Design Study Report: May 2022
- Final Plans: May 2024
- Construction: Summer 2025





# I-43 – WIS 164 to Moorland Rd

## Contact Information

Project Manager

Evan Limberatos, P.E.

(262)548-8797

[Evan.Limberatos@dot.wi.gov](mailto:Evan.Limberatos@dot.wi.gov)

Design Unit Supervisor

Wafa Elqaq, P.E.

(414)750-1506

[Wafa.Elqaq@dot.wi.gov](mailto:Wafa.Elqaq@dot.wi.gov)



# I-43 – WIS 164 to Moorland Rd

## Thank You!

- Review exhibits
- Provide written input
- Ask written questions
- Provide written comments

