

# Noise Barrier Replacement

**I-41/I-894/US 45**  
Cold Spring Rd to Howard Ave

Virtual Public Involvement Meeting

Fall 2020



# THIS PRESENTATION

- **THANK YOU** for taking the time to review this information regarding the noise barrier replacement located on the west side of I-41/I-894/US 45.
- The Wisconsin Department of Transportation (WisDOT) welcomes your feedback on this project.

# Project Location



# NOISE BARRIER REPLACEMENT PROCESS

- The new noise barrier will be built in a similar footprint and height to the existing barrier.
  - The new noise barrier will be constructed out of concrete similar to the other noise barriers in the area.

# WHY DO WE NEED TO REPLACE THE NOISE BARRIER?

## Purpose & Need

- The current noise barrier is experiencing deterioration and section loss
- The sound panels exhibit heavy corrosion, rust scaling, and section loss.
  - As a result, the sound panels are losing absorptive material and soon will not be able to block the freeway noise as much as before.

# WHY DO WE NEED TO REPLACE THE NOISE BARRIER?

## How We Measure Noise

- The decibel (abbreviated dB) is the unit used to measure the intensity of a sound.
- Distance affects the intensity of sound... if you are far away, the power is greatly diminished.



# WHY DO WE NEED TO REPLACE THE NOISE BARRIER?

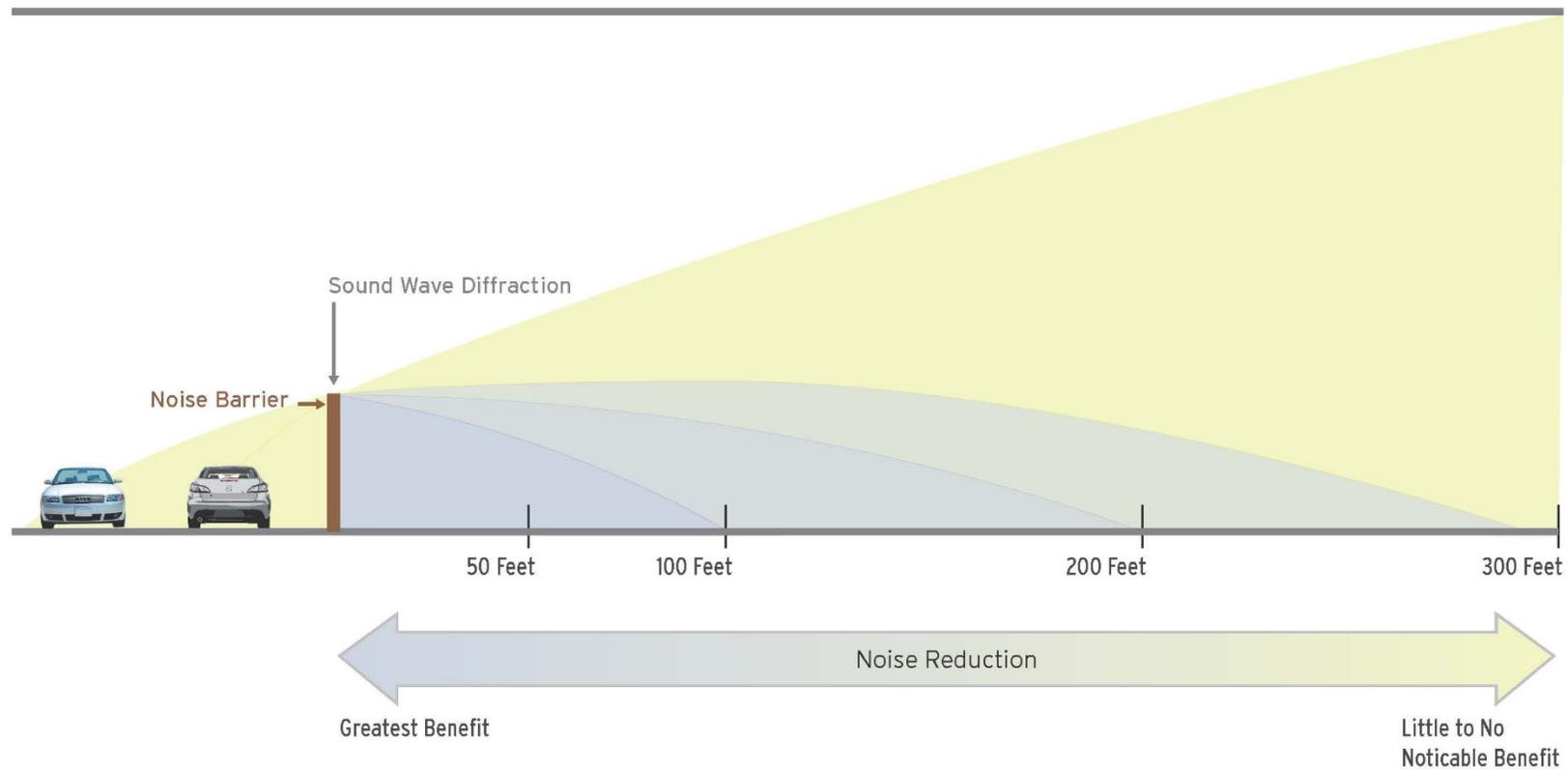
## Understanding Noise Levels

Common Outdoor Noise Levels	Noise Level (dBA)	Common Indoor Noise Levels
Jet flyover at 1000 feet	110	Rock band
Gas lawn mower at 3 feet	100	Inside a subway train
Diesel truck at 50 feet	90	Blender at 3 feet
Noisy urban daytime	80	Garbage disposal at 3 feet Shouting at 3 feet
Gas lawnmower at 100 feet	70	Vacuum cleaner at 10 feet
Commercial area	60	Normal speech at 3 feet Large business office
Quiet urban daytime	50	Dishwasher next room
Quiet urban nighttime Quiet suburban nighttime	40	Small theater (background)
Quiet rural nighttime	30	Library Bedroom at night
	20	Concert hall (background)
	10	Broadcast and recording studio
		Threshold of hearing

# WHY DO WE NEED TO REPLACE THE NOISE BARRIER?

## Understanding How Effective Noise Barriers are at Blocking Freeway Noise

Noise Barrier Effectiveness



# WHAT WILL THE NOISE BARRIER LOOK LIKE?

Here are some before/after renderings of what the new noise barrier may look like

## Residential Side



Similar to the other walls in the area

# WHAT WILL THE NOISE BARRIER LOOK LIKE?

Freeway side (similar to the barrier built south of Cold Spring Rd in 2019)



# PROJECT TIMING

- Begin Construction
  - 2021 or 2022, pending funding
  - Overnight lane closures on the freeway
  - Overnight closures on Cold Spring Road



# SEND US YOUR FEEDBACK!

**Comments on the noise barrier process are welcomed and needed.**  
***Please provide your input.***

- Amanda Johansen, P.E. (Project Manager)

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# THANK YOU!

- Thank you for your interest in the noise barrier wall replacement project.

