

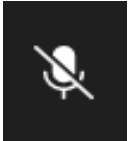


SR 0070, Section 10K *Bentleyville to Belle Vernon* *Bridge Reconstruction*

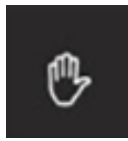
Stakeholder Meeting #2
October 30, 2024

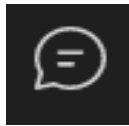
Welcome!

Ground Rules

 Please keep your microphone muted during the presentation

Two ways to provide feedback or ask question

 During facilitated discussion, use the 'raise hand' tool to have your microphone unmuted

 Use the chat box to ask questions during the meeting

Rachel Duda, P.E.

District Executive

PennDOT District 12-0



Introductions



Introductions

Stakeholders



**Economic
Development**



**Public
Officials**



**Environmental
Agencies**



**Emergency
Services**



Schools



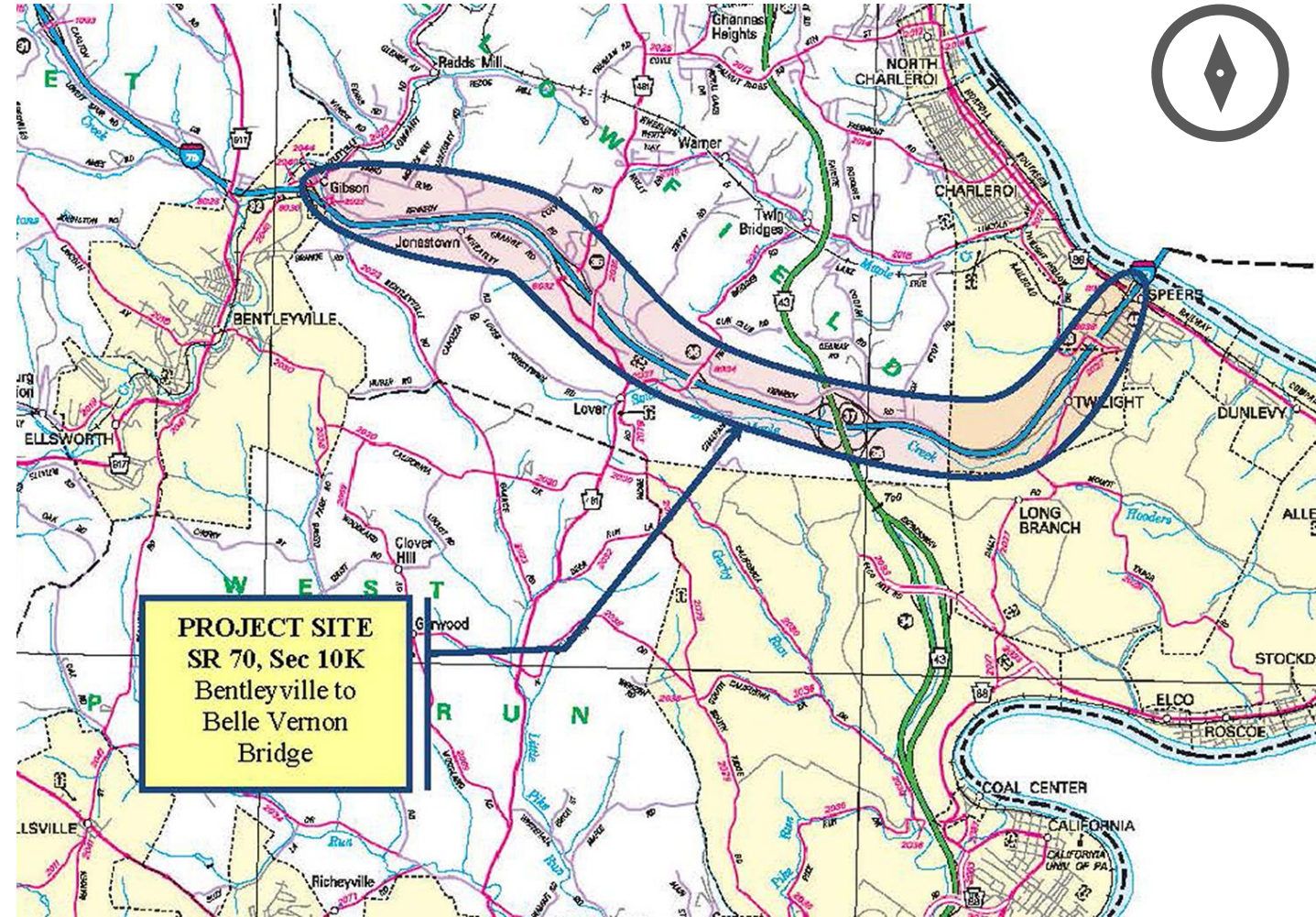
**Transportation
Partners**

Project Update

Project Update

Project Limits

Bentleyville Interchange to Belle Vernon Bridge



Project Update

Environmental Clearance Received: August 2024

✓ Features Evaluated:

- *Natural Resources (wetlands, streams, farmland, etc.)*
- *Community Resources (environmental justice communities, potential displacements, etc.)*
- *Cultural Resources (archaeology, historic resources)*
- *Potential hazardous waste, air quality, noise*



Project Update

Public Involvement Plan

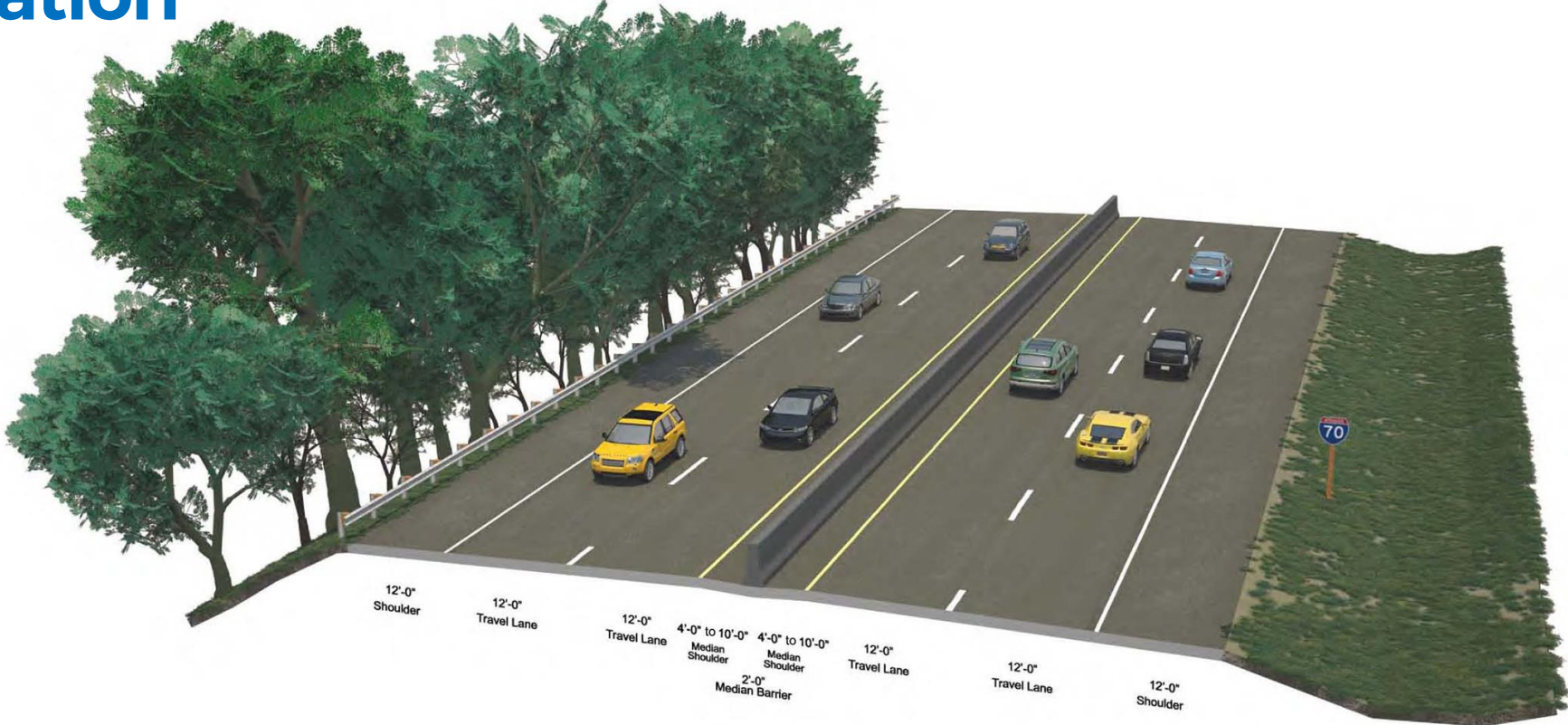
- ✓ **Public feedback collected**
 - *Community Context Assessment – April 2021*
 - *Community Stakeholder Virtual Meeting – September 2021*
 - *Public Meeting – May 2023*
 - *Community Stakeholder Virtual Meeting – October 2024*
 - *Public Meeting #2 – TBD*
 - *I-70projects.com*



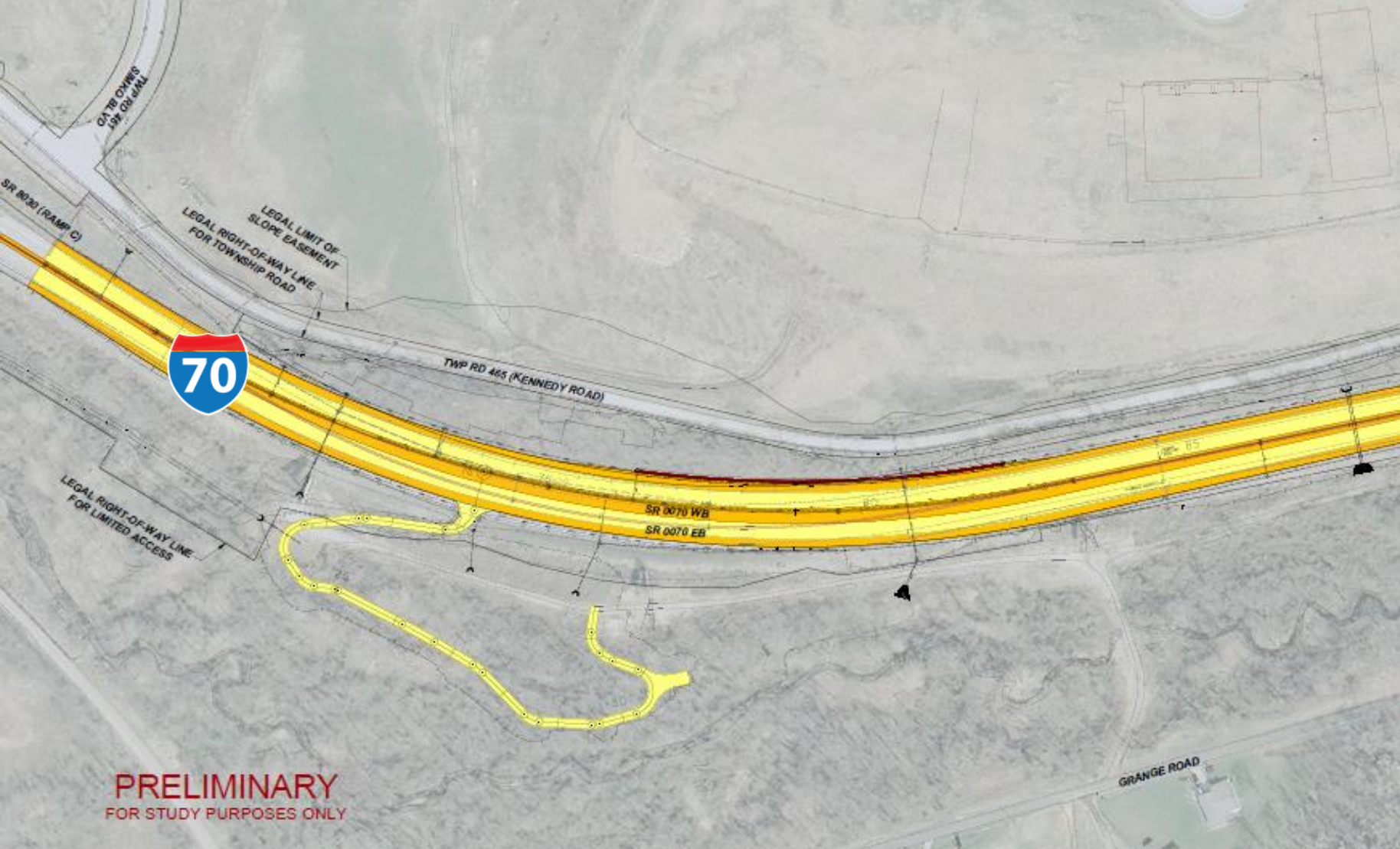
Plan Review

Plan Review

Typical Section/ I-70 Modernization



Plan Review



Plan Review

Questions & Answers 

Noise Considerations

Noise Considerations

Federal Traffic Noise Abatement Policy

✓ 23 CFR 772 (2011)

- *Noise Project Definitions*
- *Identify Noise Impacts for the Worst Noise Hour*
- *Noise Abatement Criteria (NAC) by Land Use*
- *Require State DOTs to set Feasible and Reasonable Criteria*

Noise Considerations

Tasks Completed to Date

- ✓ **Preliminary Design Noise Analysis & Noise Technical Report**
 - *Existing Noise Monitoring*
 - *Noise Impact Evaluation*
 - *Noise Abatement Determination*
 - *Construction Noise Considerations*
 - *Land Use/Local Officials Coordination*



Noise Considerations

- ✓ **Noise studies are performed for any new proposed highways, or when proposed improvements to an existing highway increase the capacity of the roadway and/or substantially alters an existing highway footprint.**
- ✓ **State and Federal Guidelines require PennDOT to use a standardized process to identify locations that are eligible for noise abatement, considering peak hour noise levels and the potential effectiveness of noise abatement measures. This process includes the following:**
 - *Identify land uses within the project area that are most sensitive to noise, such as homes and parks*
 - *Measure existing noise levels and develop acoustical models to predict future conditions*
 - *Evaluate future noise levels after the highway project is constructed and identify locations where noise impacts are anticipated*
 - *Identify areas where proposed noise abatement (sound walls) are effective and meet state federal criteria: Warranted, Reasonable, Feasible*

Noise Considerations

PennDOT's Policy & Process Requires a 3-phased Analysis

WARRANTED

Is there an impact?

Noise abatement is warranted in areas approaching or exceeding the threshold to traffic noise at within certain location in the project corridor.

FEASIBLE

Can abatement (noise walls) be constructed to meet noise reduction criteria?

Where warranted, noise abatement feasibility looks at the effectiveness of a noise barrier in reducing noise, and the ability to construct without introducing substantial engineering or safety problems to the project.

REASONABLE

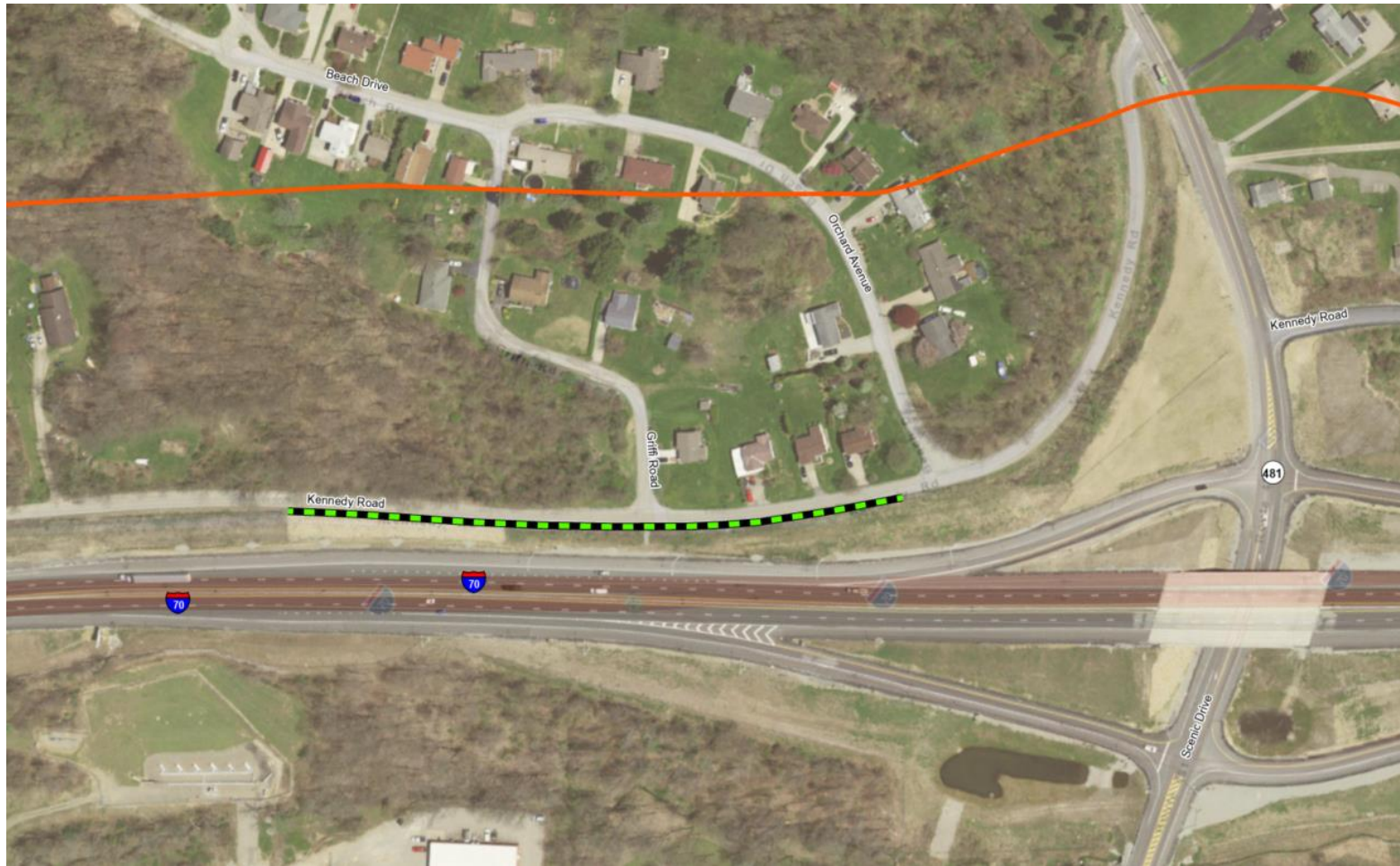
Will the abatement provide sufficient benefit for the size of the noise wall required?

If noise abatement passes the feasibility test, the reasonableness is evaluated to ensure that a noise barrier is appropriate for a given area or project by assessing cost/benefit, noise reduction goals, and the consideration of viewpoints from the benefitted receptors.

For abatement measures (noise walls) that meet all three of these criteria, coordination will be conducted during final design with affected property owners. The analysis also considers construction noise and ways to minimize noise during construction.

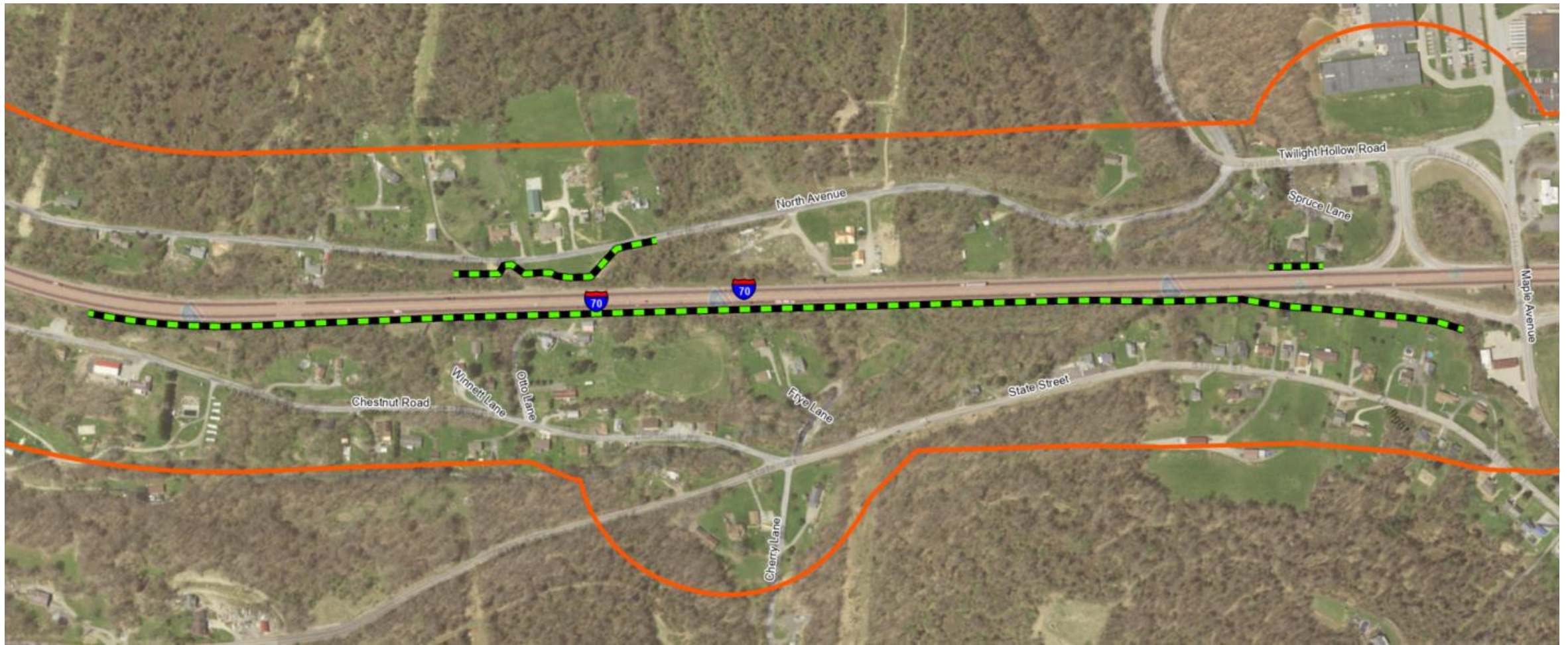
Noise Considerations

Preliminary Design – Potential Noise Wall Locations



Noise Considerations

Preliminary Design – Potential Noise Wall Locations



Noise Considerations

Final Design Noise Process



- ✓ Feasible and Reasonable – Diminishing Returns Analysis

Noise Considerations

Final Design Noise Process

- ✓ **Noise Abatement Design and Evaluation**
- ✓ **PUB 24. (PennDOT Noise Guidance) –**
 - *“Both recommended and non-recommended noise barriers may change between the environmental document and final design as a result of changes in the transportation improvement project design”*
 - ◆ *All barriers are reevaluated, not just the reasonable ones*
 - ◆ *New reasonable barriers may be recommended because of the Final Design Process*
 - ◆ *Previously identified reasonable barriers may be eliminated from consideration*
 - ◆ *Partial abatement may occur based on Public Involvement*

Noise Considerations

Final Design Noise Process

✓ Noise Abatement Design and Evaluation

- *Resolve conflicts with construction of proposed noise abatement features*
 - ◆ *PennDOT design criteria*
 - ◆ *“Final determinations on any absorptive barrier surface treatments will be made during the Final Design Phase”*
 - ◆ *Noise Barrier Reflections*
 - ◆ *TNM Barrier Analyses can only be conducted for approved noise barrier materials and products listed in Bulletin 15 (Pub 35) that meet acoustic performance specifications in 3.6.4.14. of PennDOT’s Design Manual*

Noise Considerations

Noise-Related Public Outreach for Qualifying Locations

- ✓ Noise meetings with benefitted communities
- ✓ Noise Barrier voting effort for benefitted Public
 - *Collecting feedback on preferences*
 - *No barriers remains an option*



Noise Considerations

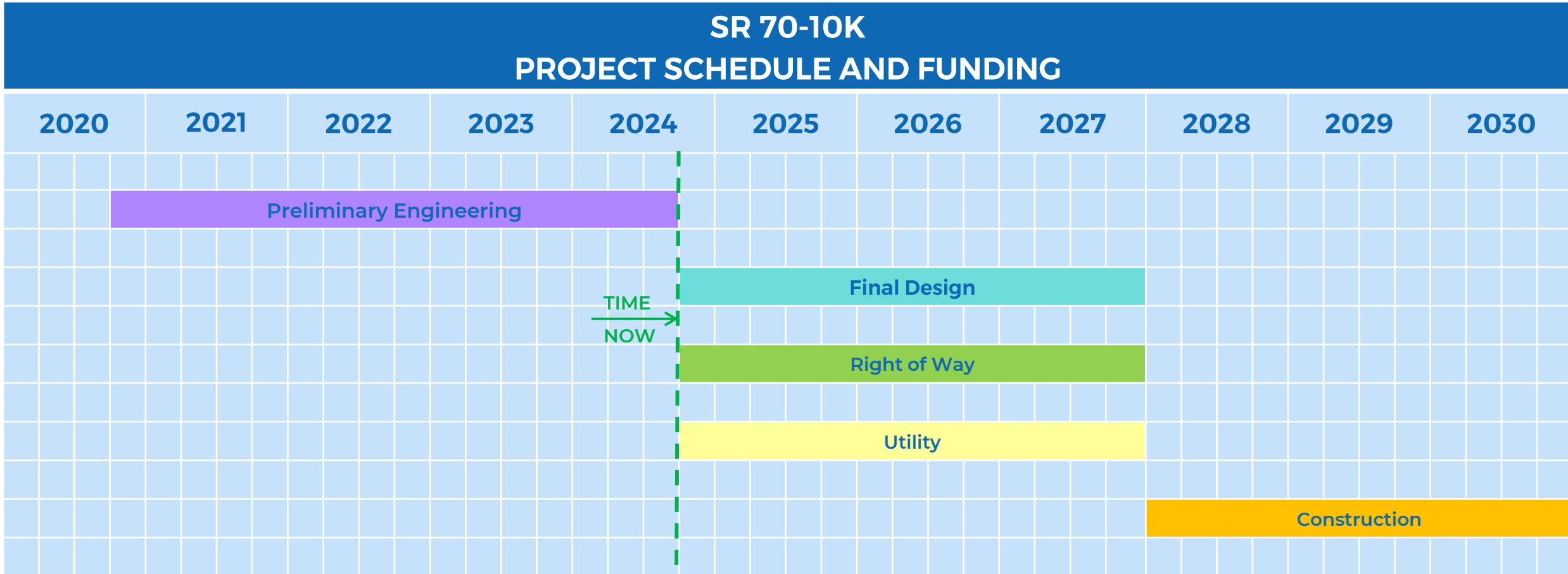
Questions & Answers 

Project Next Steps

Key Tasks of Final Design

- ✓ **Construction Plan Development**
- ✓ **Right-of-Way Acquisition**
- ✓ **Noise**
- ✓ **Permitting and Storm Water Management**
- ✓ **Core Drilling (Finalize slope designs and structures)**
- ✓ **Utility Coordination**
- ✓ **Traffic Control (Specifically the Belle Vernon Bridge)**
- ✓ **Highway Lighting**
- ✓ **Maple Creek Bridge No. 7 Replacement**

Project Schedule and Funding

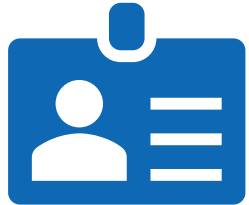


\$200 Million to \$250 Million Construction Estimate

Questions & Answers



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