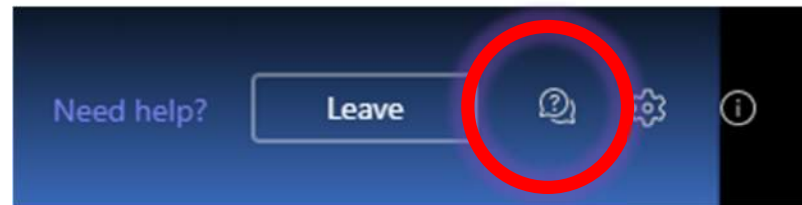


STATE ROUTE 113 AND MINSI TRAIL ROUNDABOUT TRAFFIC SAFETY PROJECT

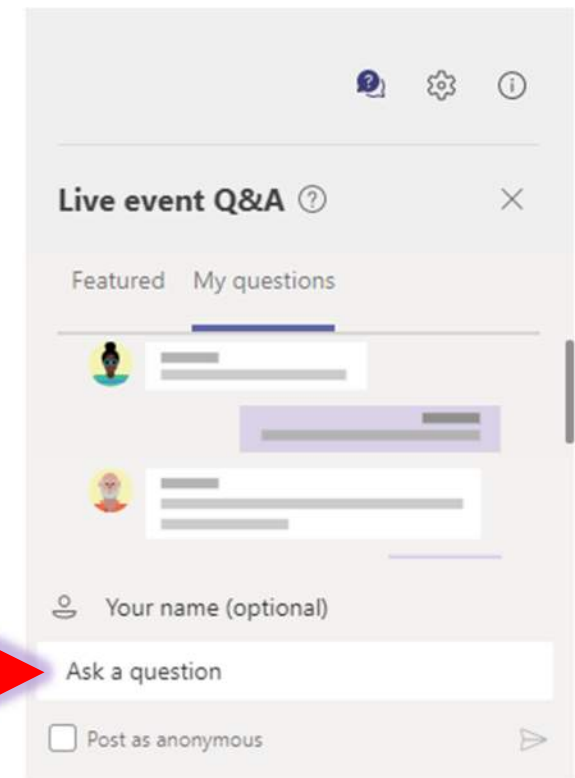
PUBLIC MEETING – JANUARY 12, 2023

Meeting Instructions:

- If you have a question during the presentation, use the **Q&A Button** at the top of the Microsoft Teams window to input and post your question



- Questions will be answered at the end of the presentation



Agenda:

- Project Location
- Project Purpose
- HSIP Funding
- Roundabout Safety Aspects and Statistics
- Proposed Improvements
- Video of the Traffic Model
- Safety Benefit
- Temporary Traffic Control
- Project Schedule
- Questions

Project Location

State Route 113 and Minsi Trail
Hilltown Township, Bucks County



PLAN VIEW

Souderton Road (State Route 113)

- 45 mph Posted Speed
- Current Average Daily Traffic = 6,231 (Year 2023)
- Design Year Average Daily Traffic = 6,641 (Year 2045)
- Truck Percentage = 11%



Minsi Trail (State Route 4019)

- 40 mph Posted Speed
- Two-way Stop Controlled
- Current Average Daily Traffic = 2,719 (Year 2023)
- Design Year Average Daily Traffic = 2,898 (Year 2045)
- Truck Percentage = 9%



Project Purpose

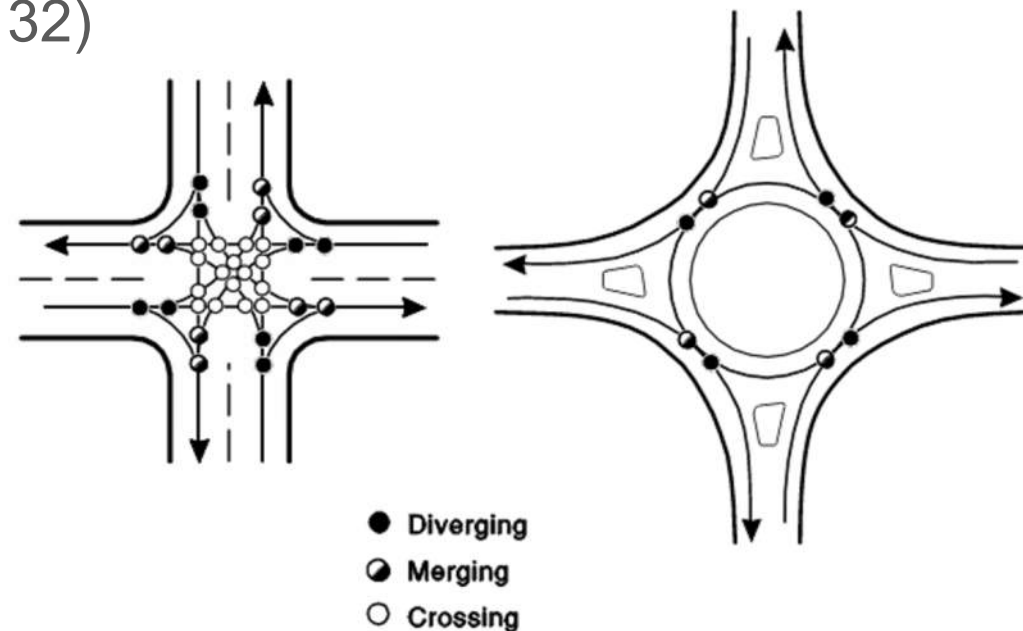
- The intersection has a history of severe crashes.
 - 31% of reported crashes had suspected serious, minor, or possible injury
- The intersection has a history of angle crashes.
 - 78% reported crashes were angle crashes.
 - 94% of crashes had no weather or environmental factors

Highway Safety Improvement Program (HSIP) Funding

- PennDOT receives federal funding from FHWA for its Highway Safety Improvement Program (HSIP).
- HSIP funding is based upon projected reductions in fatal and injury crashes.
- Data driven safety analysis using the federal Highway Safety Manual (HSM)
- Overall purpose is to achieve a significant reduction in traffic fatalities and serious injuries on state roads through implementation of infrastructure-related highway safety improvements and countermeasures

Roundabout Safety Aspects

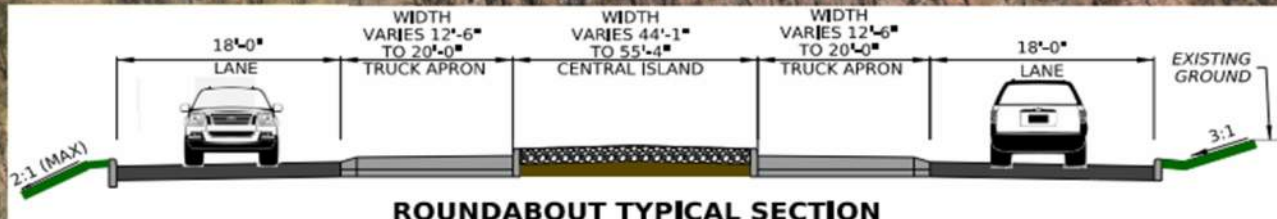
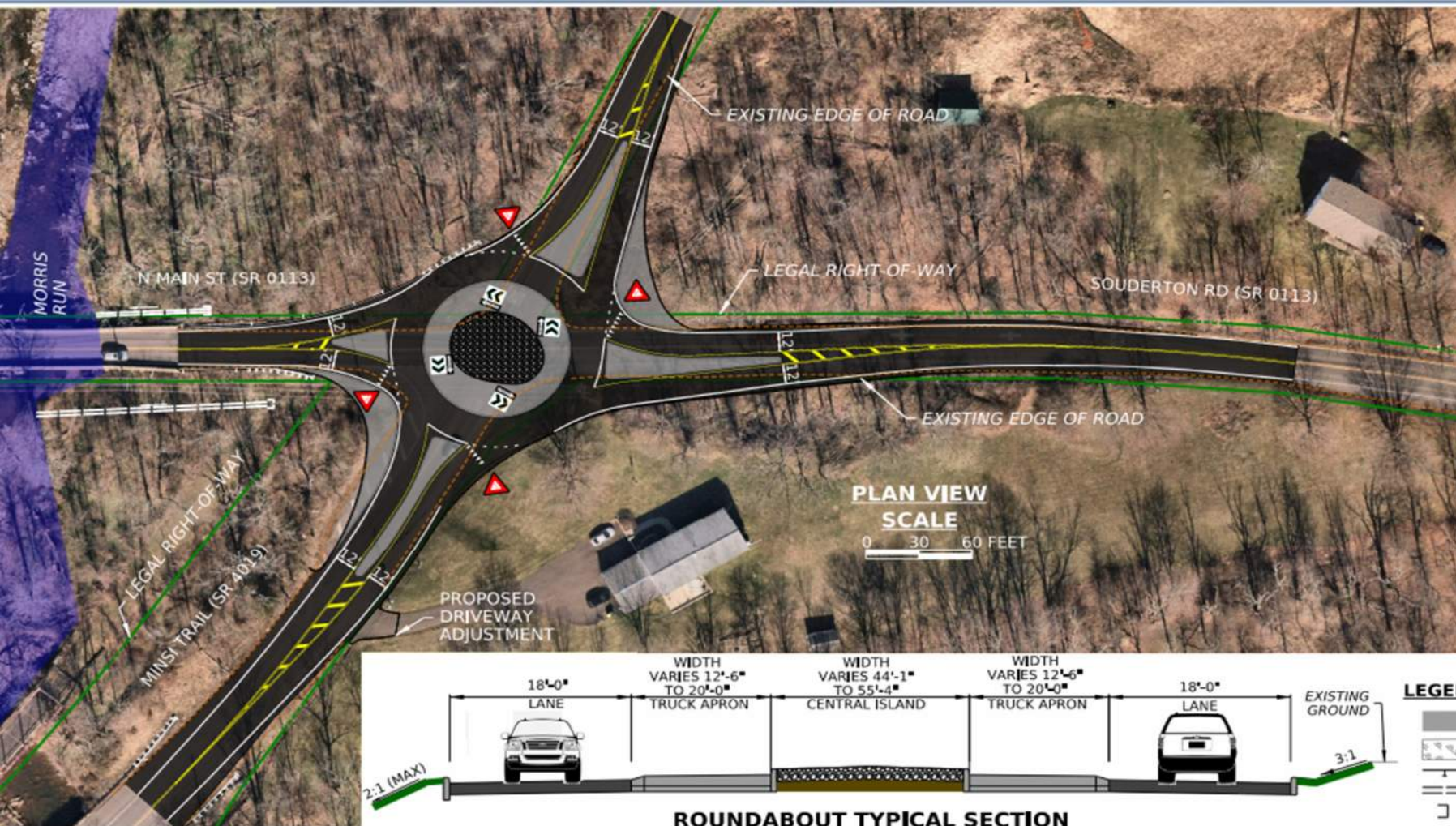
- FHWA Proven Safety Countermeasure (2008)
- Geometrically Designed for Safety
 - Reduces vehicle speeds (20-25 mph)
 - All turns are right turns
 - Simplifies decision making
- Compared to traditional intersections:
 - Reduces conflict points (8 vs. 32)
 - Eliminates crossing conflicts
 - Reduces crash severities



Roundabout Safety Statistics

- National Statistics:
 - 90% reduction in fatal crashes
 - 75% reduction in injury crashes
- PennDOT Statistics (09/2022 Case Study)
 - 36 roundabouts on State Routes
 - Intersections were converted from Stop- or Signal-Controlled
 - Serious Injuries reduced by 76%
 - Minor Injuries reduced by 22%
 - Other Injury Crashes reduced by 70%

Proposed Improvements



LEGEND

	PROPOSED TRUCK APRON/SPLITTER ISLAND
	EXISTING WETLAND
	PROPOSED GUIDE RAIL
	PROPOSED DRAINAGE DITCH
	PROPOSED DRAINAGE OUTFALL

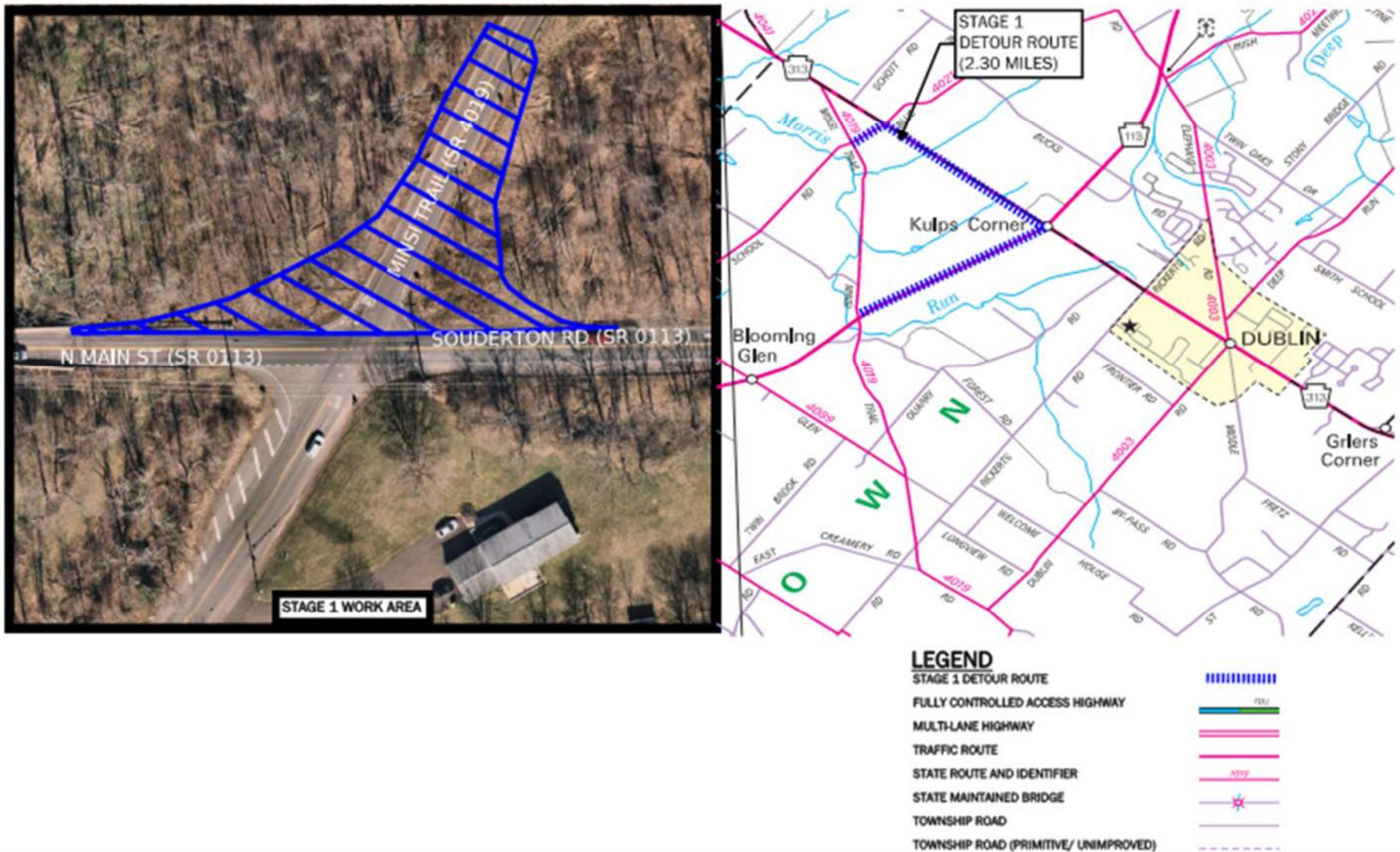
Video of the Traffic Model



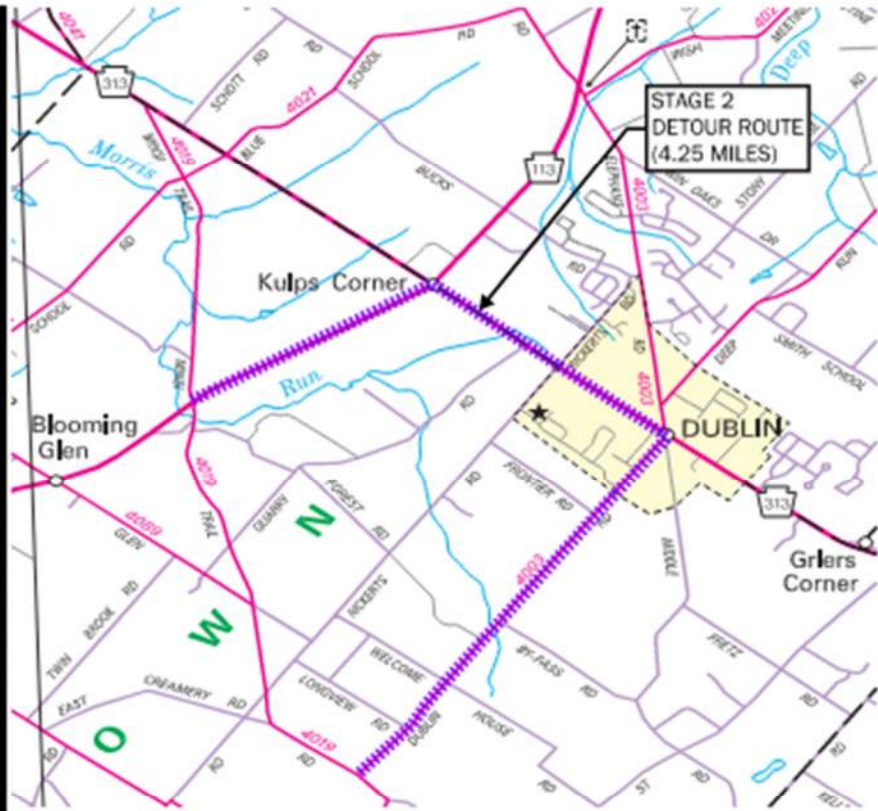
Safety Benefit

- The Highway Safety Manual (HSM)
 - 51 Reportable Crashes (5-Year Study Period)
 - 78% Reported Crashes were Angle Crashes.
 - 82% Reduction in Crashes
 - 82% Reduction in Fatal and Injury Crashes

Proposed Detour – Stage 1



Proposed Detour – Stage 2

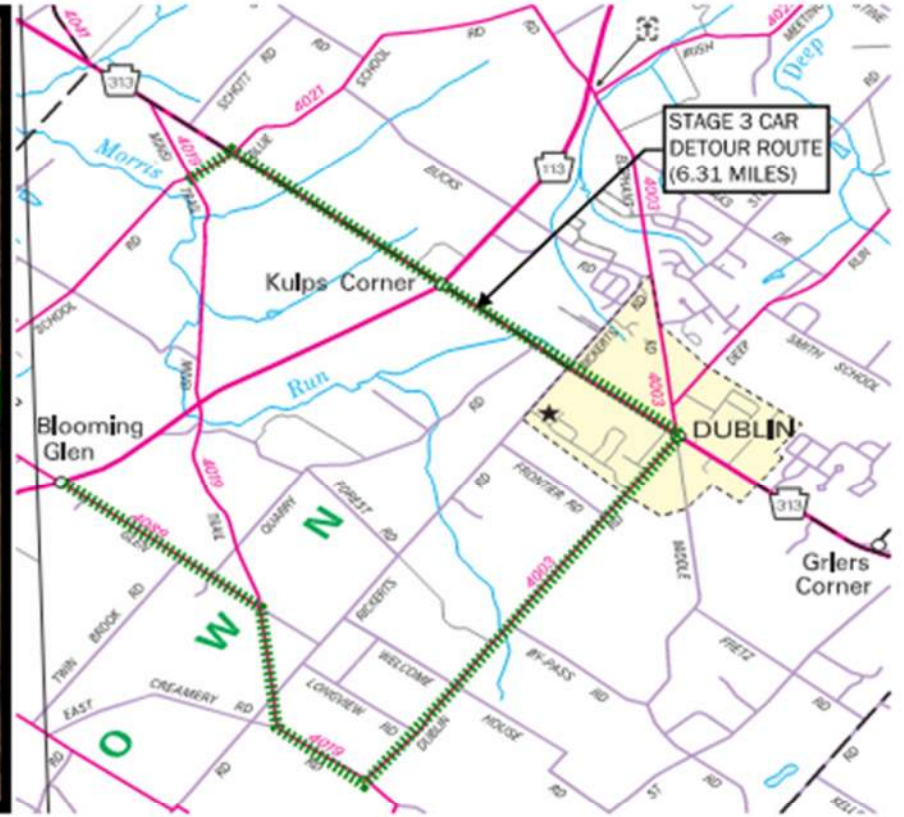


LEGEND

- STAGE 2 DETOUR ROUTE
- FULLY CONTROLLED ACCESS HIGHWAY
- MULTI-LANE HIGHWAY
- TRAFFIC ROUTE
- STATE ROUTE AND IDENTIFIER
- STATE MAINTAINED BRIDGE
- TOWNSHIP ROAD
- TOWNSHIP ROAD (PRIMITIVE/ UNIMPROVED)
- OTHER ROAD



Proposed Detour – Stage 3

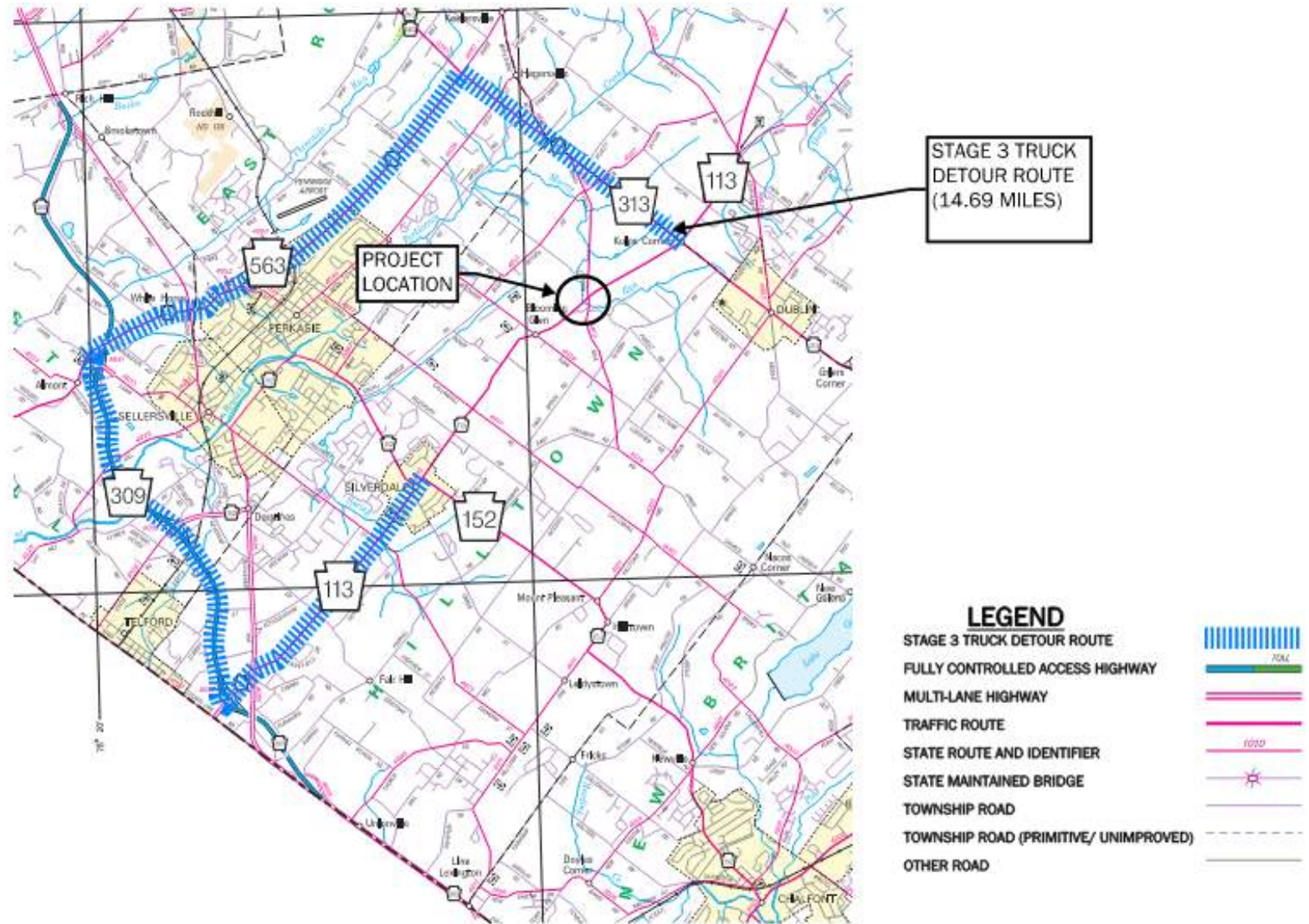


LEGEND

- STAGE 3 DETOUR ROUTE
- FULLY CONTROLLED ACCESS HIGHWAY
- MULTI-LANE HIGHWAY
- TRAFFIC ROUTE
- STATE ROUTE AND IDENTIFIER
- STATE MAINTAINED BRIDGE
- TOWNSHIP ROAD
- TOWNSHIP ROAD (PRIMITIVE/ UNIMPROVED)
- OTHER ROAD



Proposed Truck Detour

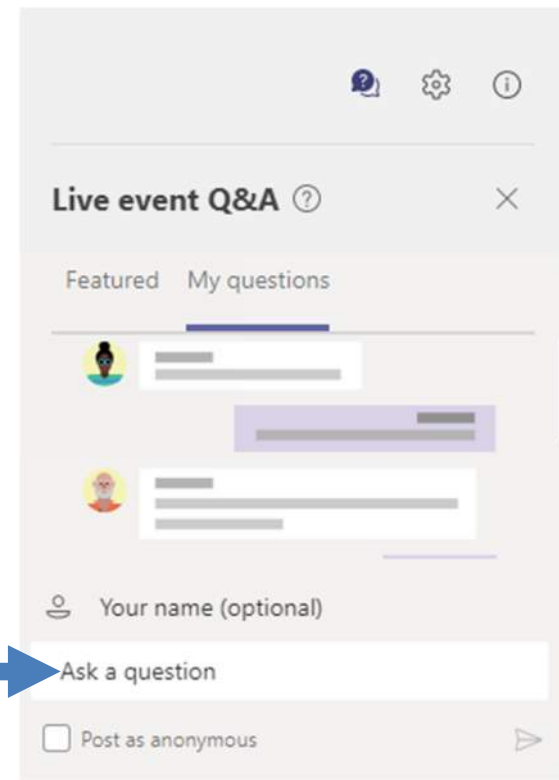
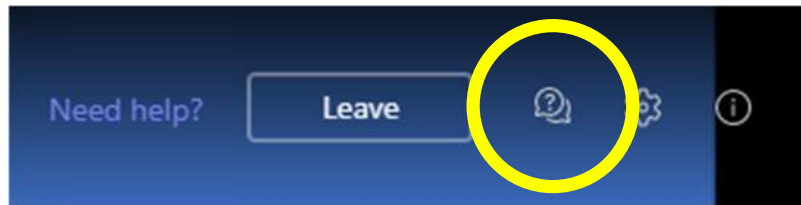


Project Schedule

- Final Design – Summer/Fall 2023
- Construction – Summer 2025

QUESTIONS

Please use **Meeting chat** at the top of the Microsoft Teams window to type & post your question.



Comment Response Form

Please take a few minutes to fill out this comment form so that we may better understand your concerns and improve these meetings for the future. When you are finished, please submit it electronically.

Link Provided in Q&A

Please visit the project website for more information:

Link Provided in Q&A