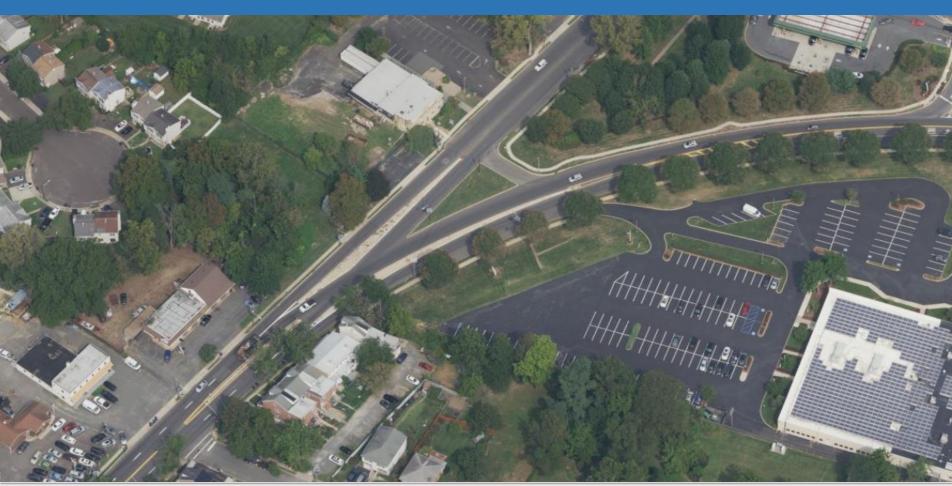
PUBLIC INFORMATION CENTER

Wednesday, January 12, 2022



Princeton Avenue (US206/CR 583) and Brunswick Circle Extension (CR 645/US 1B) Roundabout Project



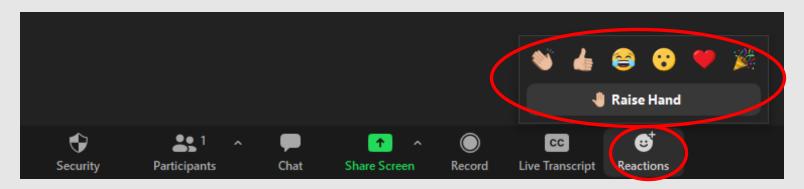




MEETING INFORMATION

How to ask a Question or Comment?

Raise Your Hand in the Zoom Call Press **REACTIONS** and **RAISE HAND** or press *9 on phone







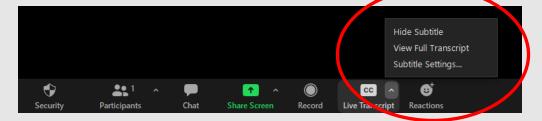


ZOOM INSTRUCTIONS

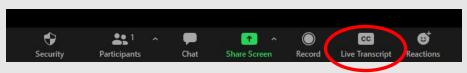
- Closed Captioning
 - Select LIVE TRANSCRIPT

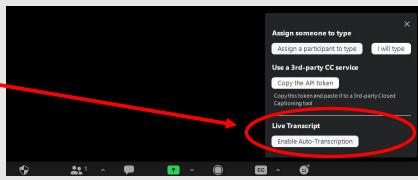
Select ENABLE LIVE TRANSCRIPT

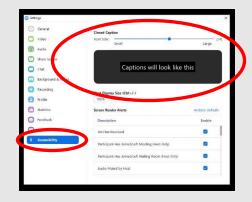
View or Change Settings



Select ACCESSIBILITY to change Live
 Transcript Text Size on Slider Bar













WECLOME & INTRODUCTIONS



Basit "Sunny" Muzaffar, PE
Mercer County



Caitlin Skocypec, PE Mercer County



John Coscia



Dan Hutton, AICP
Urban Engineers



Justin DiBiase, PE, PTOE
Urban Engineers



Adam Brown, PE Urban Engineers









AGENDA

- Project Background
- Proposed Improvements
 - Roundabout
 - Pedestrian
 - Lighting
 - Drainage
 - Landscaping/Hardscaping
 - Staging
- Right-of-Way
- Schedule
- Questions







Project Background

2008-2009 Princeton Avenue – Spruce Street Study

- Public Meetings held w/surveys (4/08, 5/08, 1/09)
- Recommendations for Road Diet on Princeton Avenue and Roundabout at Princeton Ave/Brunswick Circle Extension

2014-2015 DVRPC Highway Safety Improvement Program (HSIP)

- Funding for Safety Improvement Project with Roundabouts
- Mercer County proposed Roundabout design for the intersection of Princeton Ave and Brunswick Circle Extension
- FHWA and NJDOT performed Highway Safety Manual crash reduction benefit to improvement cost analyses
- Project was approved for funding and advanced to the Preliminary Engineering Phase

May 9th 2019 Public Information Center held at Trenton Farmers Market

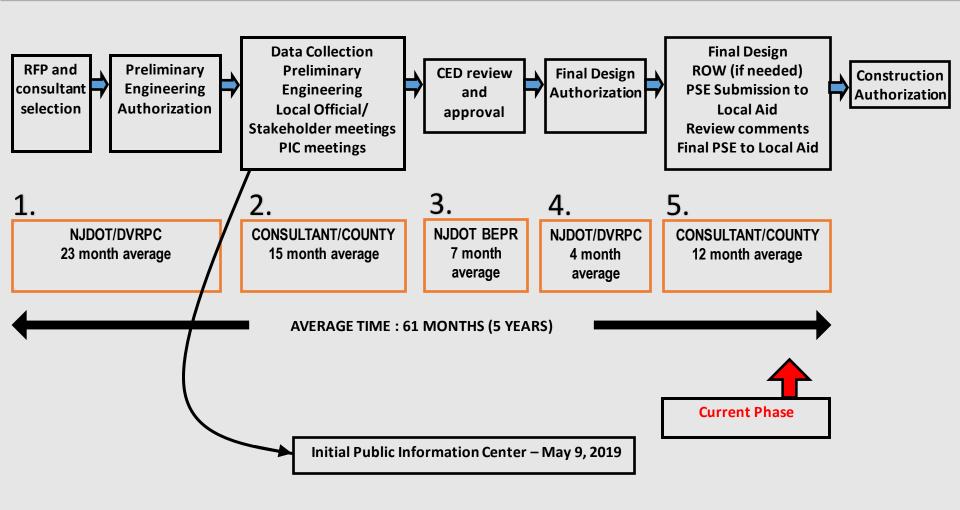
- Preliminary Design discussed
- Survey taken for public feedback







FEDERAL PROCESS AND PROJECT TIMELINE









PURPOSE AND NEED

Project Purpose

To provide safety and traffic improvements at the intersection of Princeton Avenue (US 206Z/CR 583) and Brunswick Circle Extension (CR 645/US 1B), with a focus on pedestrian and bicycle safety.

Project Need

- High frequency of sideswipe and encroachment crashes on Princeton Ave.
- Dangerous NB Princeton Ave. crossing maneuver
- Missing move SB Princeton Ave. to Brunswick Circle Extension
- Cut-thru traffic and dangerous access points
- Limited pedestrian & bicycle accommodations



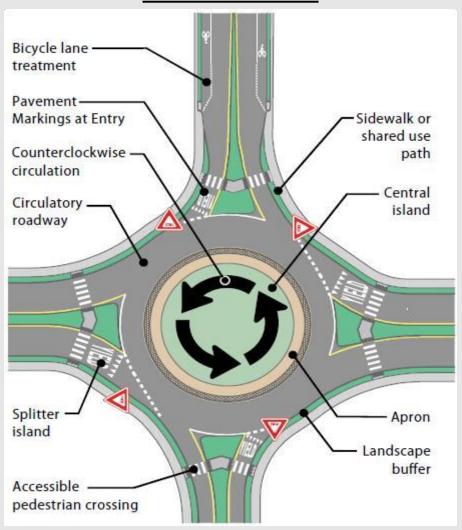




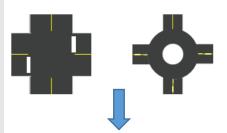


MODERN ROUNDABOUTS

DESIGN BASICS



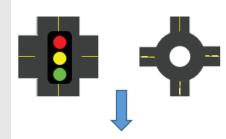
TWO-WAY STOP-CONTROLLED INTERSECTION TO A ROUNDABOUT



82%

Reduction in severe crashes

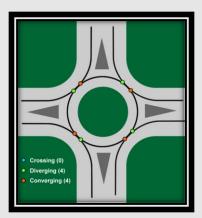
SIGNALIZED INTERSECTION TO A ROUNDABOUT



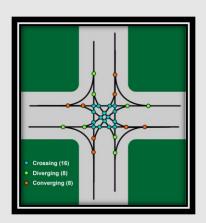
78%Reduction in severe crashes

1. AASHTO. The Highway Safety Manual, American Association of State Highway Transportation Professionals, Washington, D.C., (2010).

CONFLICT POINTS



Modern Roundabout



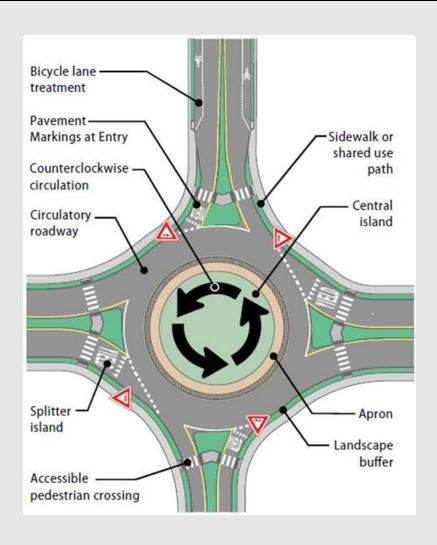
Traditional Intersection







Modern Roundabout Features



Are Modern Roundabouts Different than Traffic Circles?

- Yield on Entry
- Deflection on Entry
- Splitter islands on approaches
- Slow circulating speeds
- Central Island with truck apron
- Signing and pavement markings
- No Parking or Driveways
- Pedestrian Accommodations
- Landscaping

YES







Modern Roundabout Features

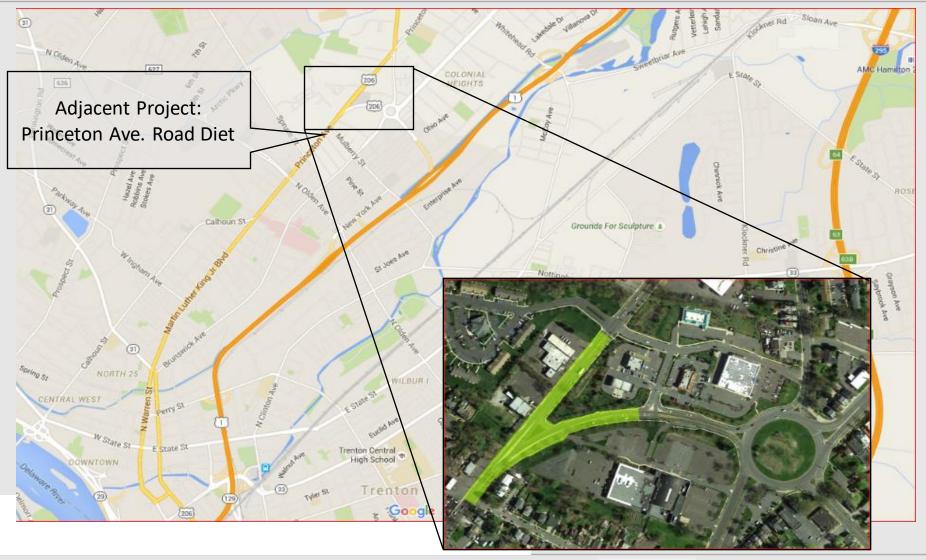
- Reduction of crashes by minimizing conflict points
- Reduction of severe crashes (injury & fatality crashes)
- Reduction of speeds on approach roadways & through intersection
- Removing driver confusion from multiple decision points
- Improving intersection congestion and overall delays
- Improving sight lines and sight distances







PROJECT LOCATION

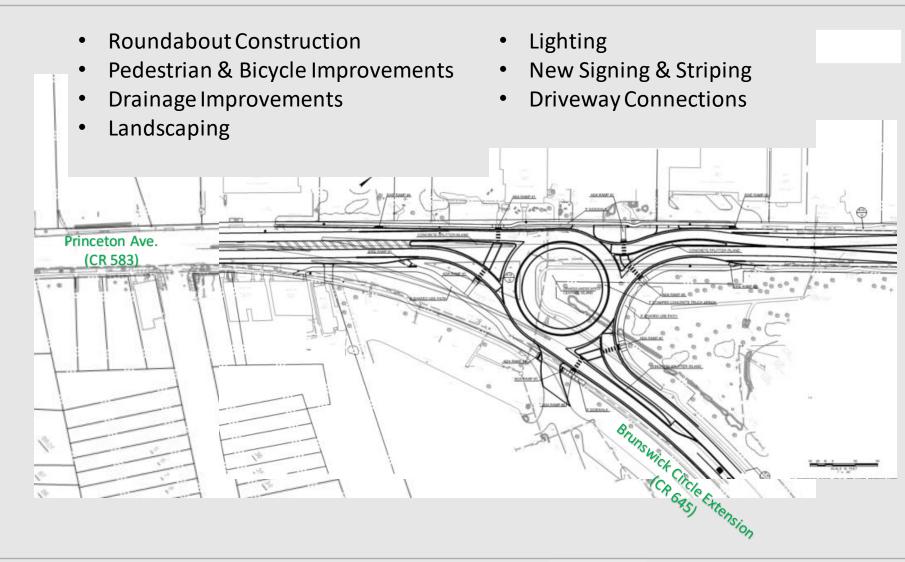


















Pedestrian & Bicycle Improvements

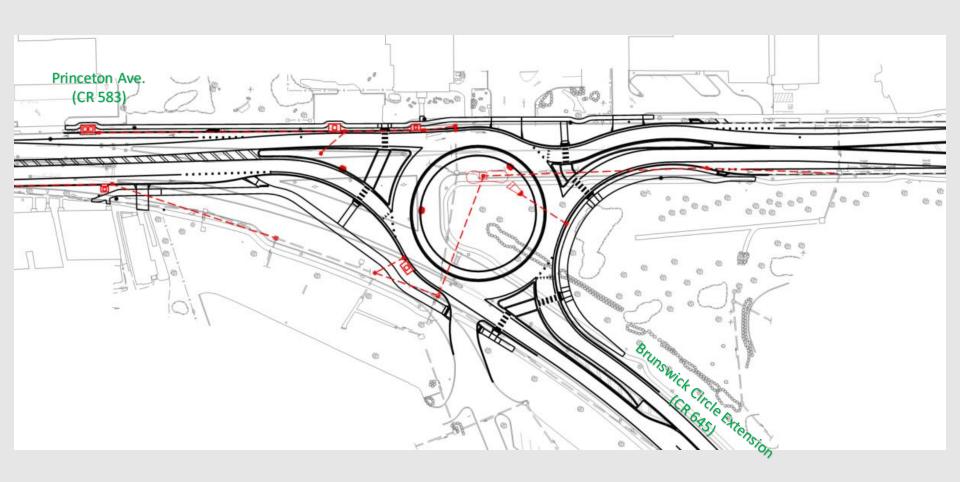








Drainage Improvements

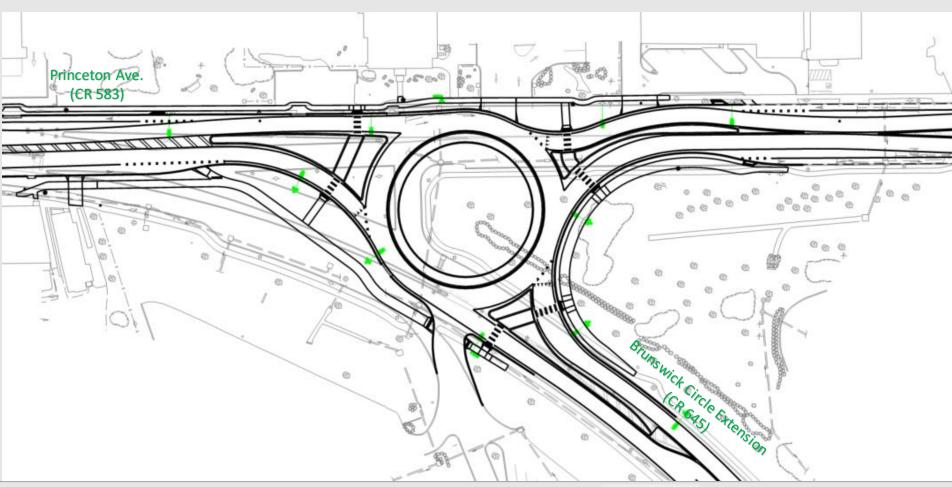








Lighting Improvements















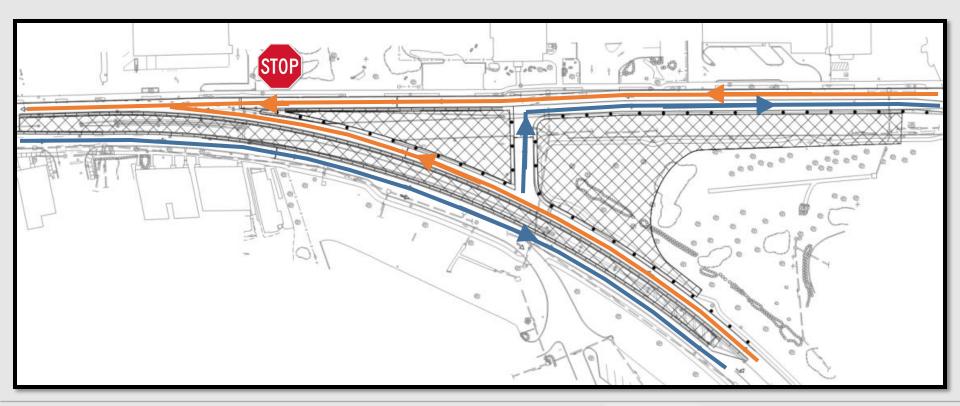


Stage 1

Estimated Duration: 4 Months

All Moves Available

Eastbound Princeton Ave. will use Circle to continue East















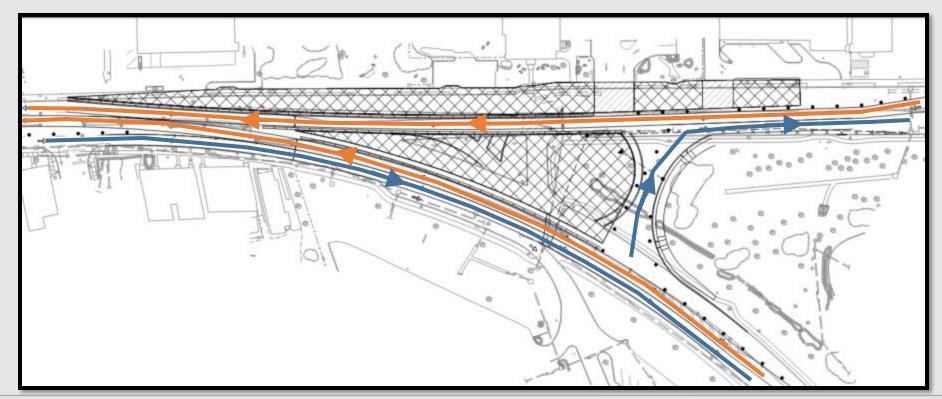


Stage 2

Estimated Duration: 3 Months

All Moves Available

Eastbound Princeton Ave. will use Circle to continue East









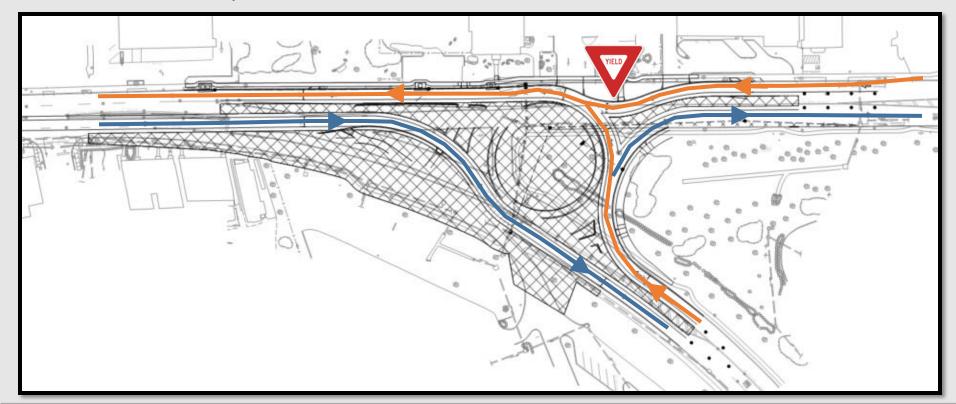
Stage 3

Estimated Duration: 3 Months

All Moves Available

Eastbound Princeton Ave. will use Circle to continue East

Truck Detour in place



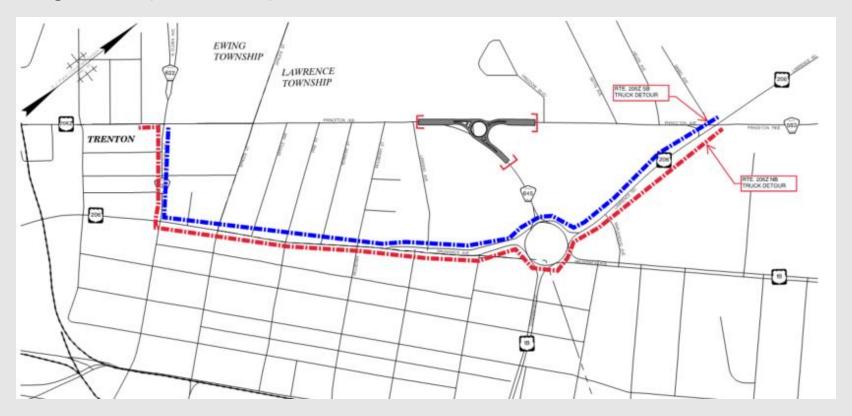






Truck Detour

Stages 3 & 4 (5.5 Months)









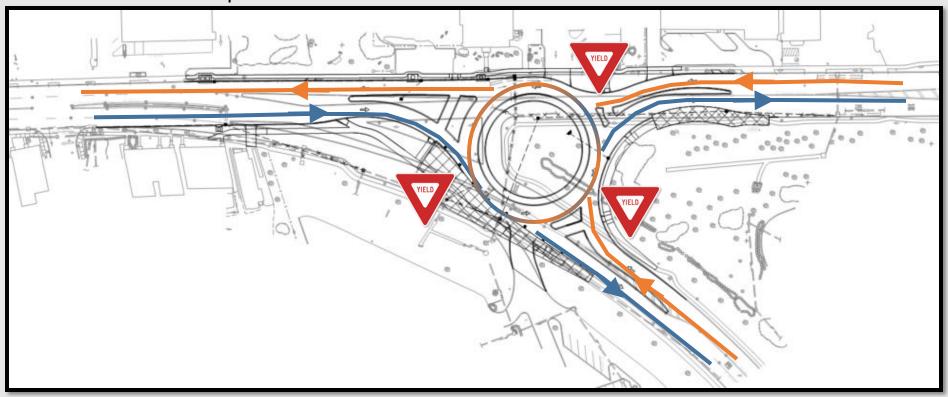
Stage 4

Estimated Duration: 2.5 Months

All Moves Available

Eastbound Princeton Ave. will use Circle to continue East

Truck Detour in place



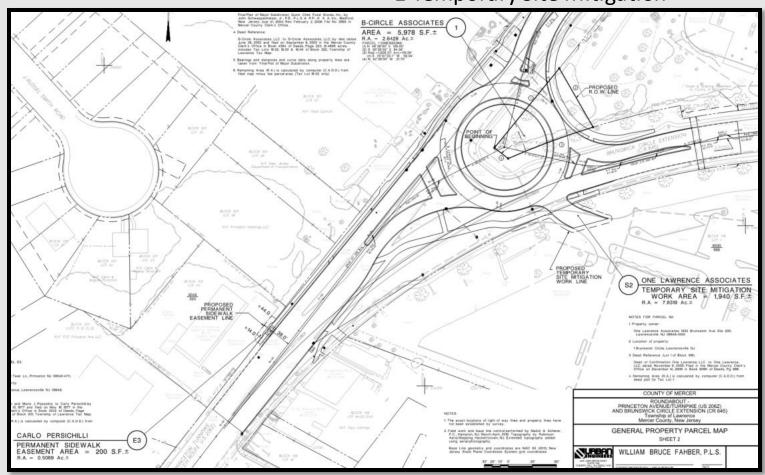






RIGHT-OF-WAY

- 1 Partial Acquisition
- 1 Sidewalk Easement
- 1 Temporary Site Mitigation









SCHEDULE

- ROW documents submitted to NJDOT ROW for review (Ongoing)
- Ongoing Tasks (Present 2022)
 - Preliminary Plans, Specifications & Estimate (PS&E) to NJDOT Local Aid
 - County ROW Acquisition Process
 - Final PS&E Submission to Local Aid
 - Construction Authorization (2022)
- Construction (Spring 2023, 9-12 months)



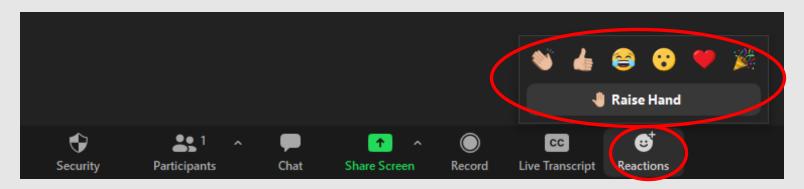




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QUESTIONS?

To Leave a Comment, email

cskocypec@mercercounty.org





