

January 22, 2024
PLEASE NOTE THIS MEETING IS BEING RECORDED



Intersection Improvements

Project Overview

- 1. Geometric issues causing traffic safety concerns:
 - 1. Existing "Y" configuration
 - 2. Multiple Conflict Points
 - 3. Insufficient Sight Distance for WB Esworthy Road LT onto SB MD 112



WB LT – Looking north along MD 112

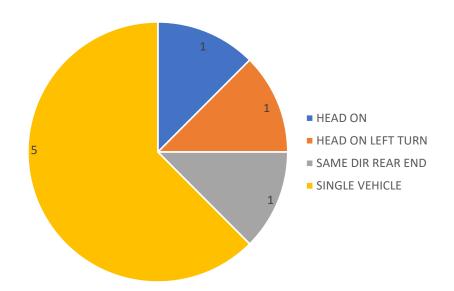


Intersection Improvements

Existing Crash History Data

- 1. 5-year review Nov. 2016 to Nov. 2020
- 2. 8 Total Crashes Reported
 - 5 Injury Crash
 - 3 Property Damage
- 3. Weather Conditions
 - 5 Clear Conditions
 - 1 Cloudy
 - 1 Raining
 - 1 Snow
- 4. Time of Day
 - 6 Daylight
 - 1 Dark (No Lights)
 - 1 Dawn

Count of Collision Type



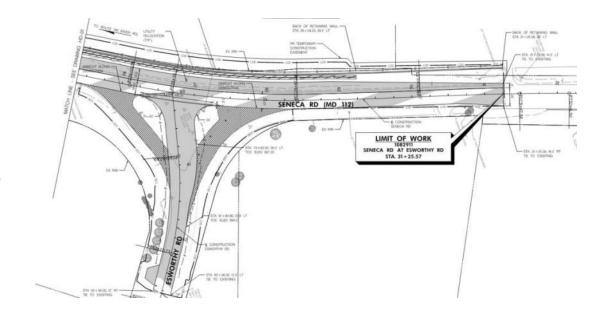
Intersection Improvements

PROS

- 1. Replaces existing "Y" intersection with traditional "T" intersection
- 2. Provides By-Pass lane for SB MD 112

CONS

- 1. Requires Right-of-Way on the west side of MD 112
- 2. Significant grading along the west side of MD 112 requires retaining wall up to 10 ft. high
- 3. Intersection Sight Distance does not meet AASHTO guidelines



"T" Intersection Design



Intersection Improvements

Proposed Roundabout

- 1. Reduces Speed at the intersection
- 2. Mitigates Intersection Sight Distance issues
- 3. Improves Traffic Safety by reducing total vehicle conflict points
- 4. Improves Traffic Operations by eliminating the unnecessary stops



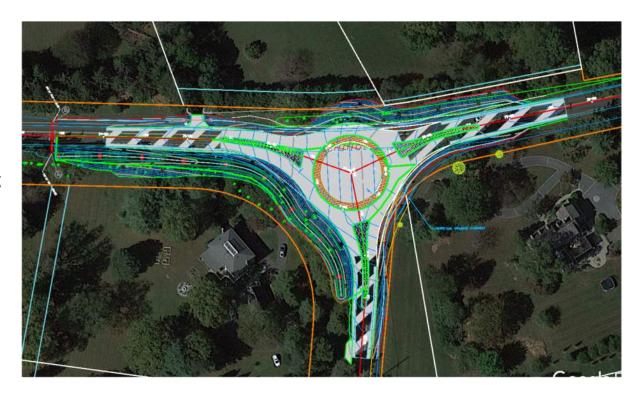
Roundabout Concept Design



Intersection Improvements

Roundabout Design

- 1. Inscribed Diameter = 120 ft.
- Travel lane width 15 ft.
- Truck Apron Width 8 ft.
- Concrete Splitter Islands on all approaches
- **New Streetlighting**
- Existing tree clearing and new Landscaping
- 7. Re-grading existing roadside conveyance ditches
- 8. Construction of a new Stormwater Management Facility in SE corner
 - 1. Bio-swale



Current Design



