

ITEM 9B



Delaware Department  
of Transportation

February 6<sup>th</sup>, 2023

Westown Transportation Improvement District (TID)

# Town Council Briefing

Presented to: Town of Middletown Town Council



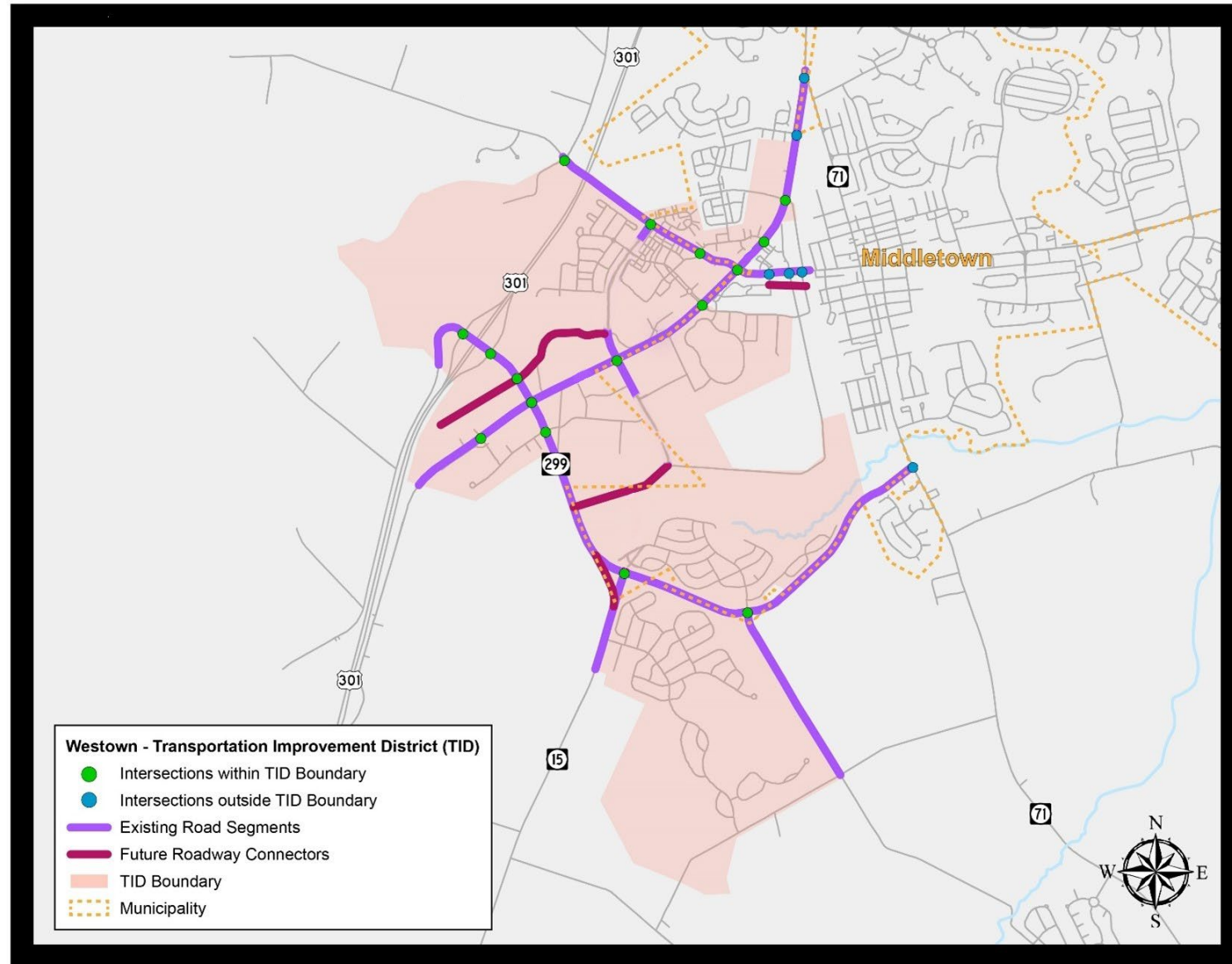


# Agenda

1. Background
2. Middletown Warwick-North Broad Street Connector
3. LOS E Scenario
4. SR 71 & St Annes Church Road
5. Project Prioritization
6. Next Steps

# Westown TID - Background

- Project Area
  - 4.5 square miles
  - 8 roadway segments covering 8 miles
  - 24 intersections in total
    - 9 signalized intersections
    - 3 roundabouts
- 2030 Horizon Year
  - 22 committed developments
  - Additional roadway connections
  - LOS D Service Standard





# Westown TID – Middletown Warwick-North Broad St Connector



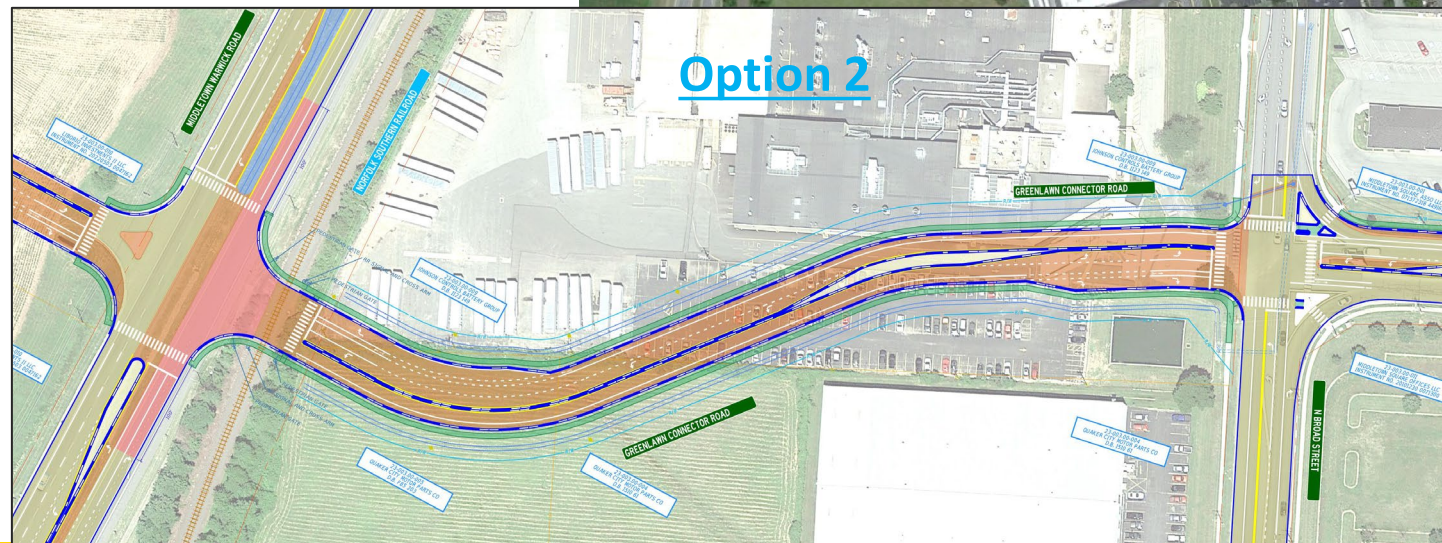
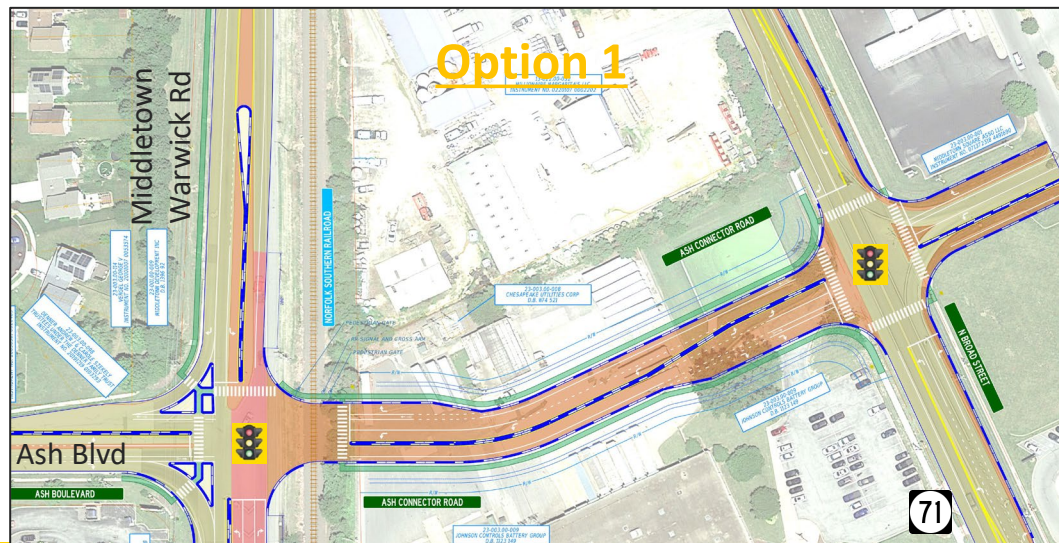
- Redevelopment of Johnson Controls property
- 2 roadway alignments considered
  - Option 1 - Ash Boulevard Connector
    - Ash Boulevard to Middletown Square Entrance
  - Option 2- Greenlawn Boulevard Connector
    - Greenlawn Boulevard to Popeye's Driveway





# Westtown TID – Middletown Warwick-North Broad St Connector

- Features of Option 1:
  - Shorter roadway section
  - Avoids RR geometric challenges present with Option 2
  - Estimated Cost = \$5.8 million
- Features of Option 2:
  - RR geometric challenges (curvature and superelevation)
  - May provide more desirable access for the Johnson Controls property
  - Estimated Cost= \$7.8 million







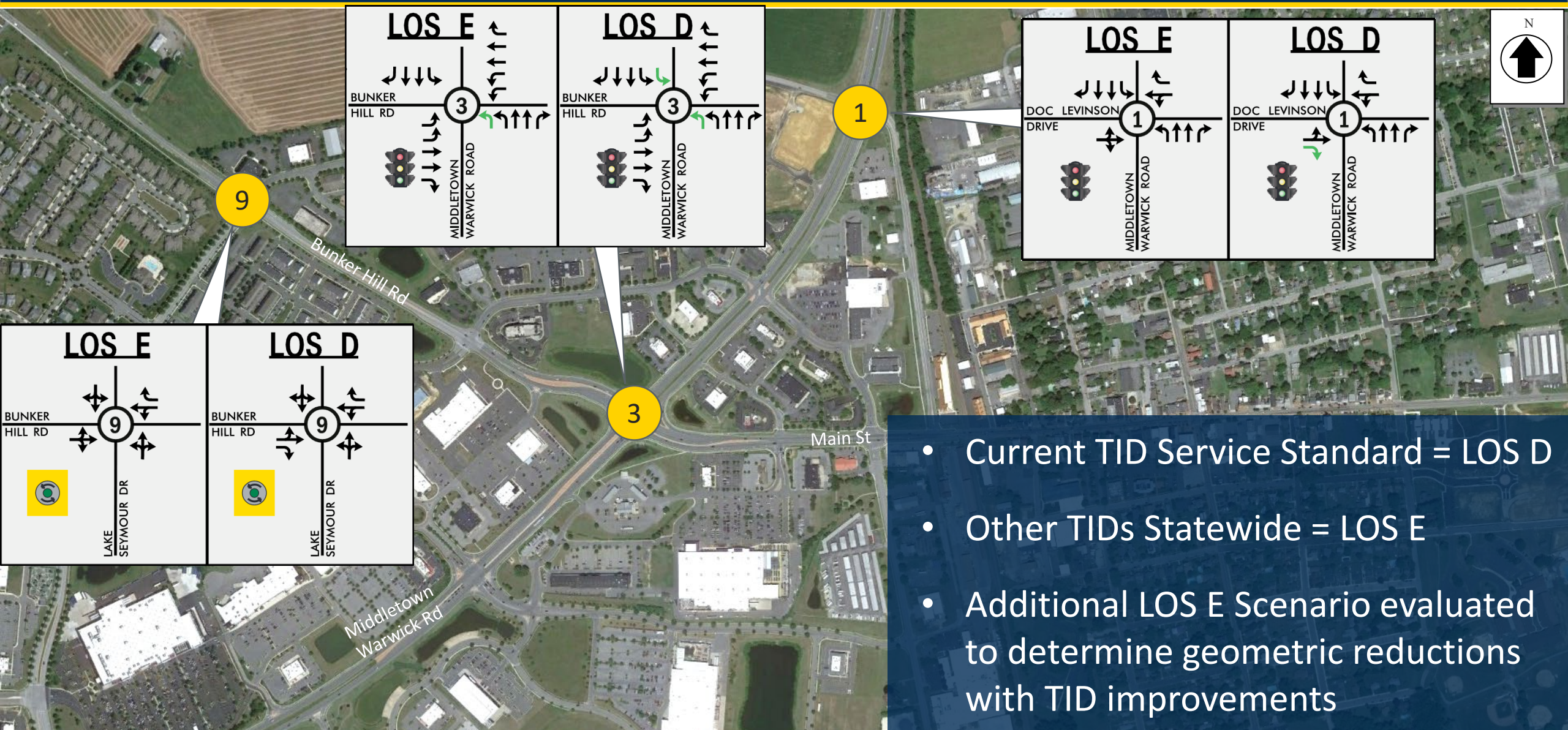
# Westown TID – Middletown Warwick-North Broad St Connector

- Either alignment allows for:
  - Elimination of widening along Middletown Warwick Rd
  - Elimination of one RR crossing (NB SR 71 left turns and NB Middletown Warwick Rd right turns) and partial removal of traffic signal
  - Relieves pressure at Cedar Lane Rd & SR 71
- Add to Eastown TID Improvements via amended agreement



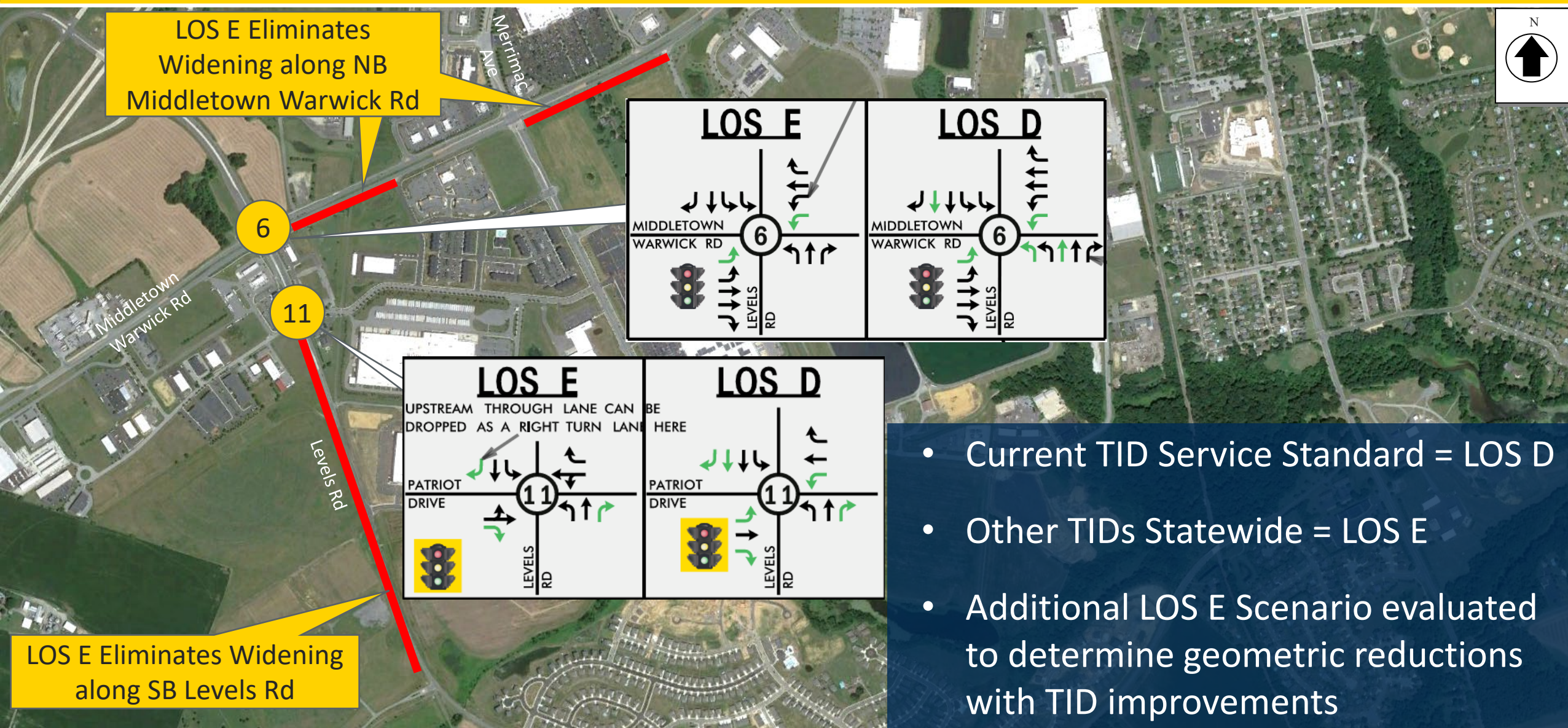


# Westtown TID – LOS E Scenario





# Westown TID – LOS E Scenario







# Westown TID – LOS E Scenario

Westown TID - Cost Summary				
Corridor	Intersection #	Name	Conceptual Cost	
			LOS D	LOS E
A	1	Middletown Warwick Road & Doc Levinson/Peterson Drive	\$ 1,550,278.00	\$ 835,055.00
	2	Middletown Warwick Road & Sand Hill Drive	\$ -	\$ -
	3	Middletown Warwick Road & Bunker Hill Rd./Main St.	\$ 3,245,608.00	\$ 2,272,565.00
	20/21	Middletown Warwick Road & SR 71	\$ -	\$ -
	22	Middletown Warwick Road & Ash Boulevard	\$ -	\$ -
	4	Middletown Warwick Road & Diamond State Blvd	\$ 792,765.00	\$ 268,285.00
	*5	Middletown Warwick Road & Merrimac Avenue	\$ 3,733,338.00	\$ 428,325.00
	*6	Middletown Warwick Road & Levels Road	\$ 6,012,185.00	\$ 2,144,785.00
	18	Middletown Warwick Road & United Drive	\$ 1,660,893.00	\$ 1,660,893.00
B	7/8/19	Main Street Intersections	\$ 1,269,060.00	\$ 1,269,060.00
	8a	Future Connector to Industrial Drive	\$ 1,720,715.00	\$ 1,720,715.00
	9	Bunker Hill Road & Lake Seymour/Sand Hill Drive	\$ 2,348,975.00	\$ 1,517,195.00
	10	Bunker Hill Road & Merrimac Avenue	\$ 2,363,733.00	\$ 2,363,733.00
	17	Bunker Hill Road & Choptank Road	\$ -	\$ -
C	11	Levels Road & Patriot Drive	\$ 3,722,315.00	\$ 1,855,038.00
	24	Levels Road & Future Merrimac Avenue	\$ 3,665,395.00	\$ 3,142,500.00
	*12	Levels Road & St. Annes Church Road	\$ 4,328,650.00	\$ 3,475,065.00
	23	Levels Road & Poole Property Access	\$ 1,544,640.00	\$ 1,544,640.00
	15	Levels Road & US 301 SB Off Ramp	\$ -	\$ -
	16	Levels Road & US 301 NB Off Ramp	\$ -	\$ -
D	13	St. Annes Church Road & SR 71	\$ 2,623,318.00	\$ 2,623,318.00
	14	St. Annes Church Road & Wiggins Mill Road	\$ 1,435,458.00	\$ 1,435,458.00
		Wiggins Mill Road	\$ 4,120,475.00	\$ 4,120,475.00

## Total Costs

**LOS D = \$54 million**

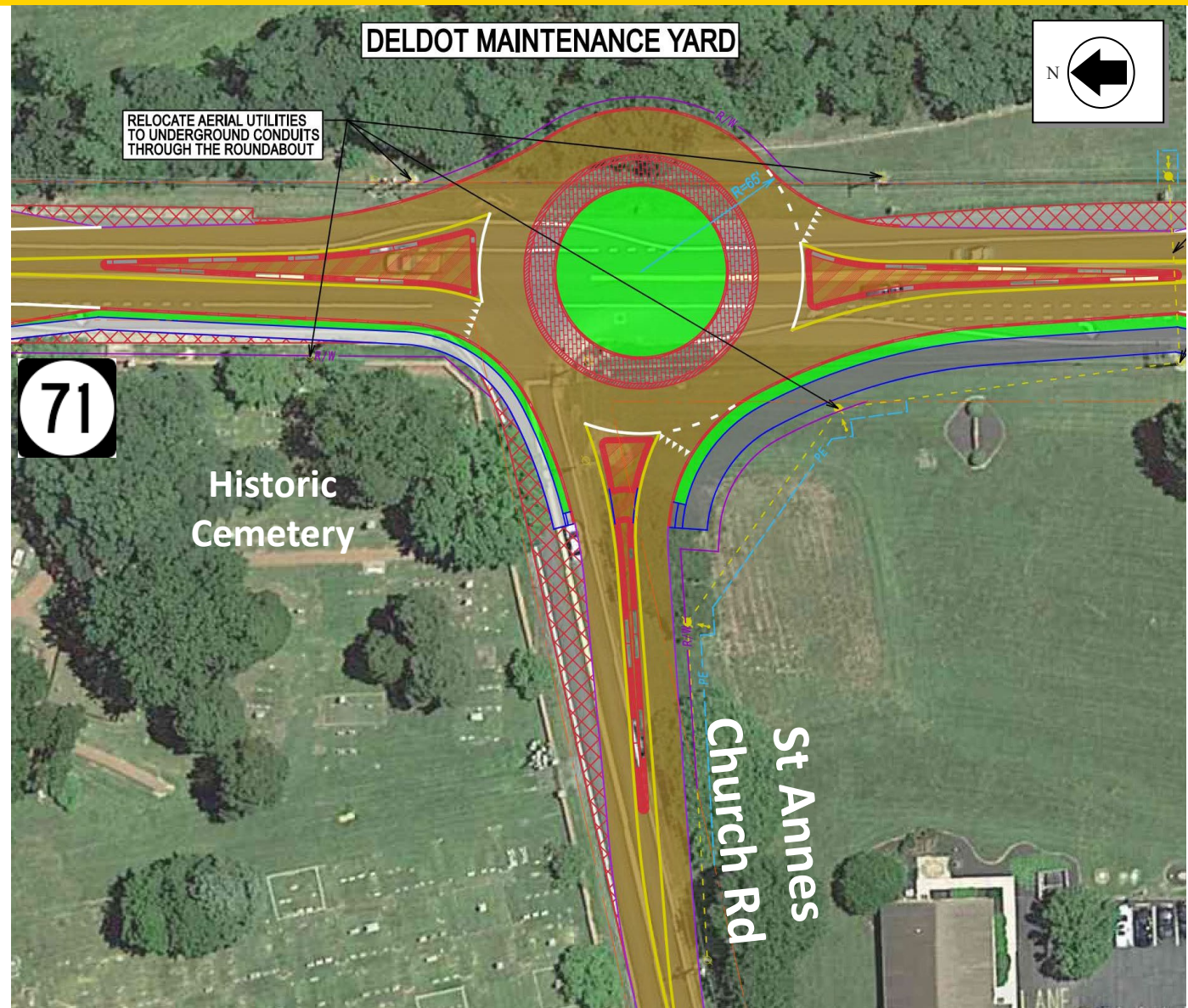
**LOS E = \$40.5 million**





# Westown TID – SR 71 & St Annes Church Road (Long-term)

- Long-Term Alternatives:
  - Single Lane Roundabout
  - Traffic Signal w/ separate turn lanes along all approaches
- Roundabout is preferred option:
  - Safety benefits
  - Traffic calming
- Roundabout design being investigated;  
Expected Construction Schedule =  
Approx. 2030





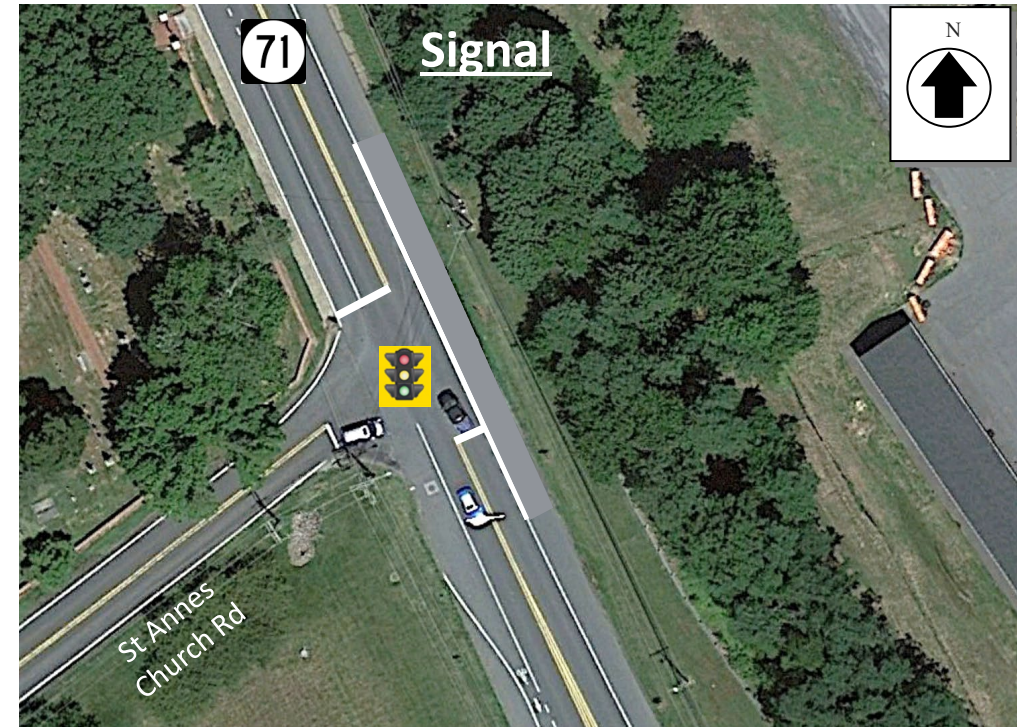


# Westown TID – SR 71 & St Annes Church Road (Interim)

Due to existing safety concerns, interim alternatives being considered. Either option would maintain existing intersection geometry and remove bypass lane along NB SR 71.



- Quick implementation
- Congestion expected during peak hours (no congestion expected during off-peak hours)

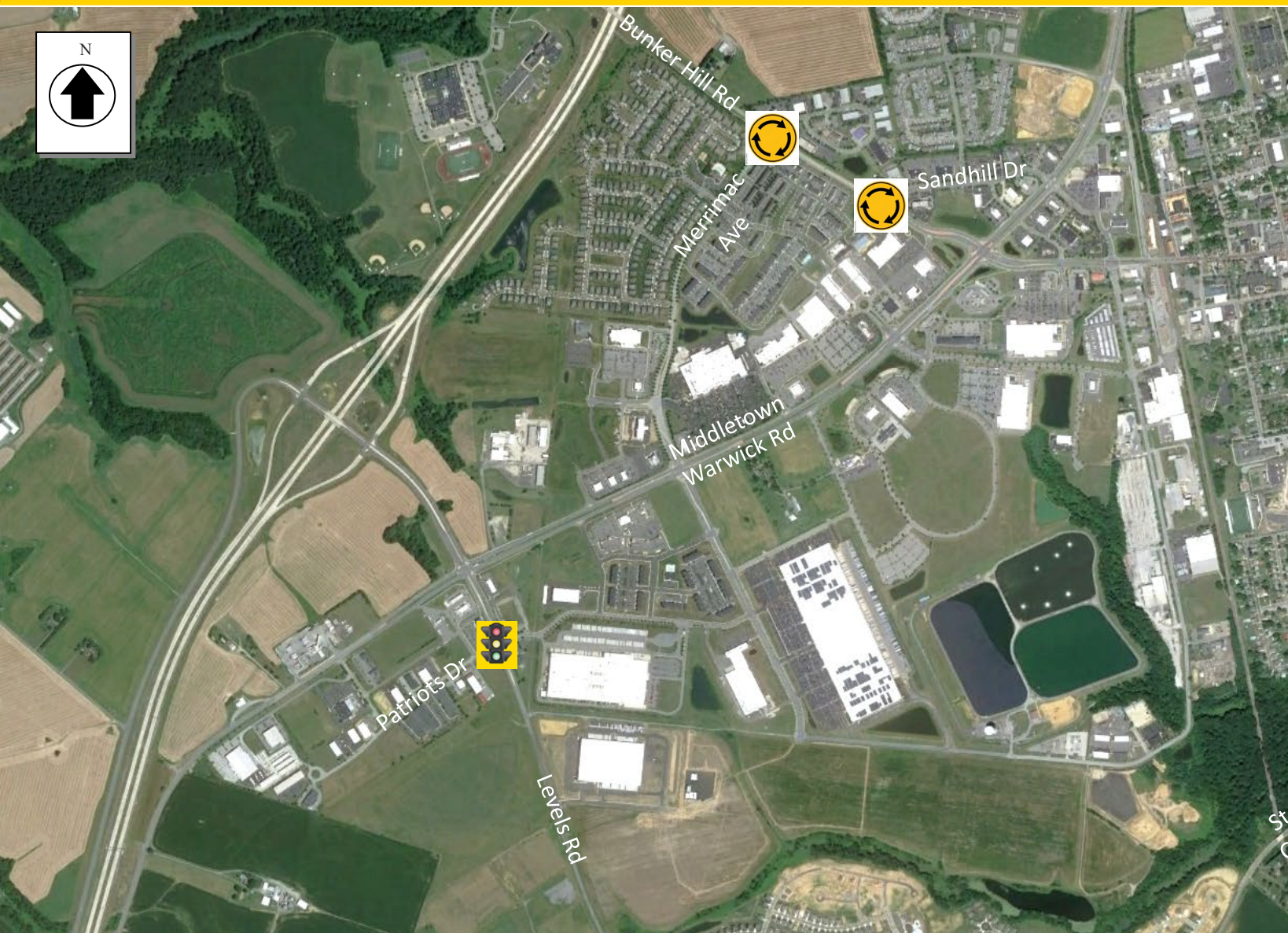


- Estimated 2-3 years to implement from start of design
- Congestion not expected with this option
- Due to greater cost of signal, could delay or eliminate the roundabout alternative in the future





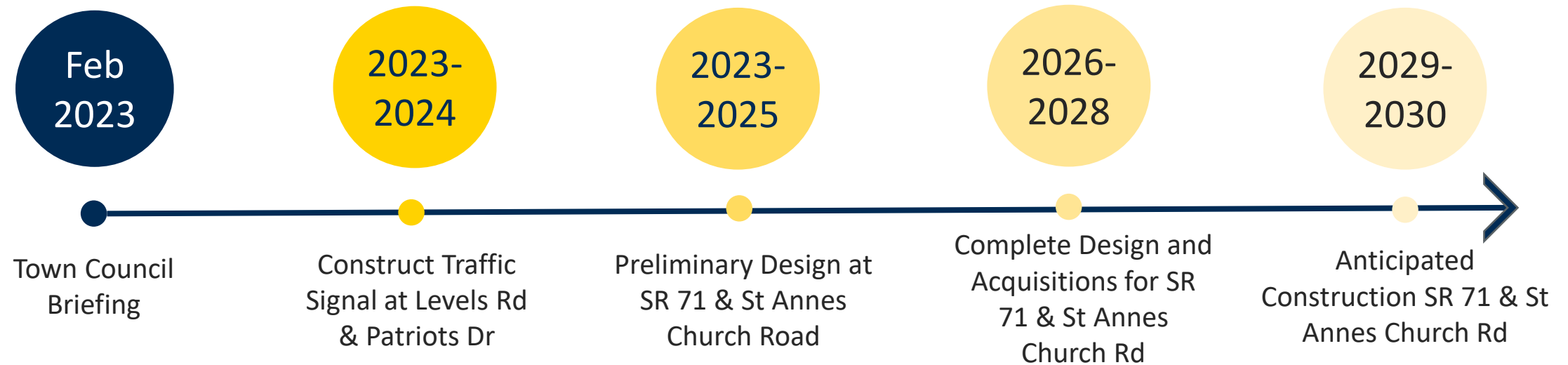
# Westtown TID – Project Prioritization



- Levels Road & Patriots Drive Signalization
- SR 71 & St Annes Church Rd (Town feedback needed)
- Bunker Hill Road Single Lane Roundabouts
  - Merrimac Avenue
  - Sandhill Drive



# Next Steps for TID improvements







# Town Council Action Items

1. Add Middletown Warwick-North Broad Street Connector to Eastown TID
2. Agree on using LOS E Scenario for Westown TID update
3. Agree with Project Prioritization
4. Consider modifying escalation in Eastown TID agreement to 5-year rolling average of CPI with no cap





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# Questions

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