

## **APPENDIX J**

### **TURN LANE WARRANT ANALYSIS**

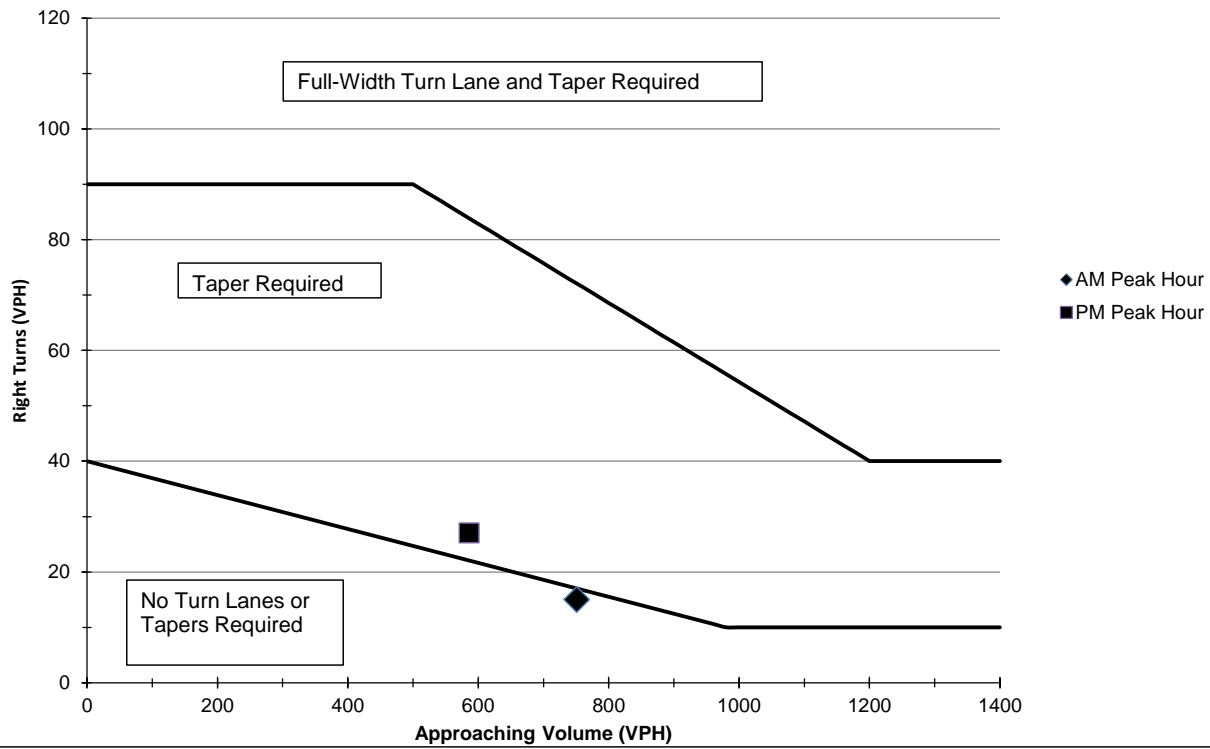
- J.1 Right-Turn Lane Warrant Analysis Worksheets**
- J.2 Left-Turn Lane Warrant Analysis Worksheets**

## **APPENDIX J.1**

### **Right-Turn Lane Warrant Analysis Worksheets**

## Right Turn Lane Warrant (4-Lane Highway)

Figure 3-27 from VDOT RDM Appendix F

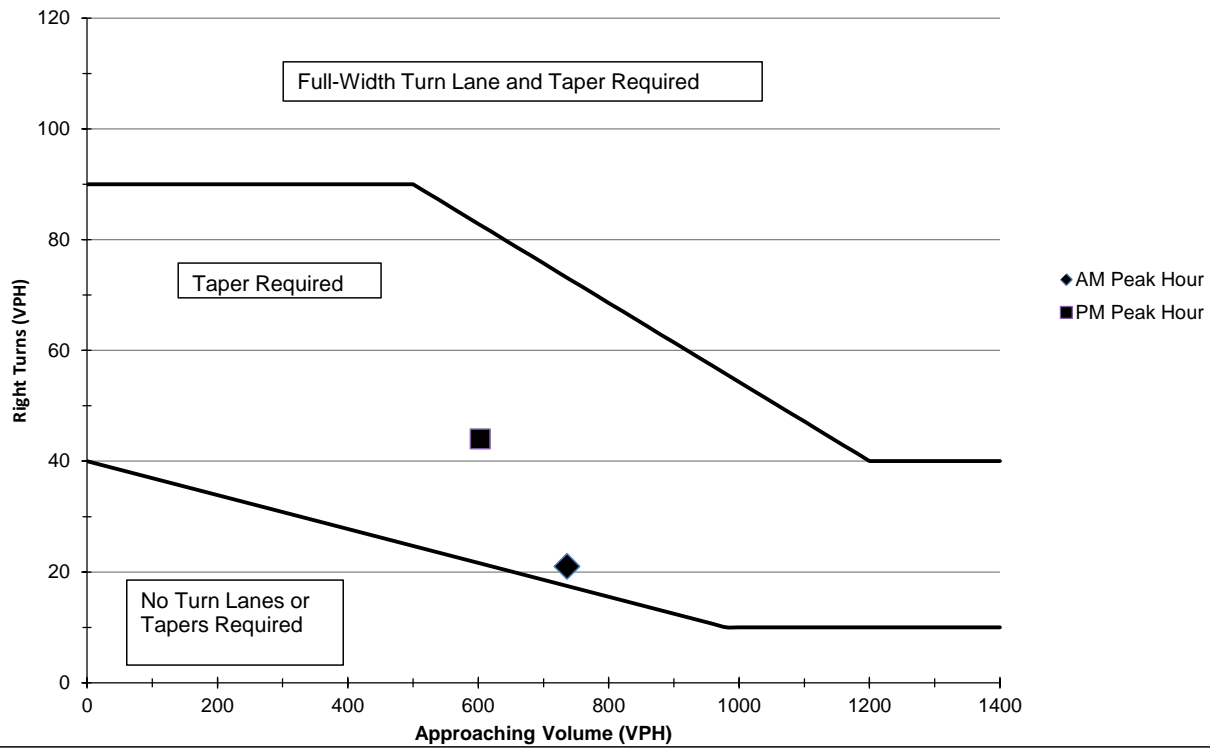


Intersection: U.S. Route 1 (N-S)/Jason Lane (E-W)  
 Approach: Northbound Right  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
Approaching Volume	751	586
Right Turns	15	27

## Right Turn Lane Warrant (4-Lane Highway)

Figure 3-27 from VDOT RDM Appendix F

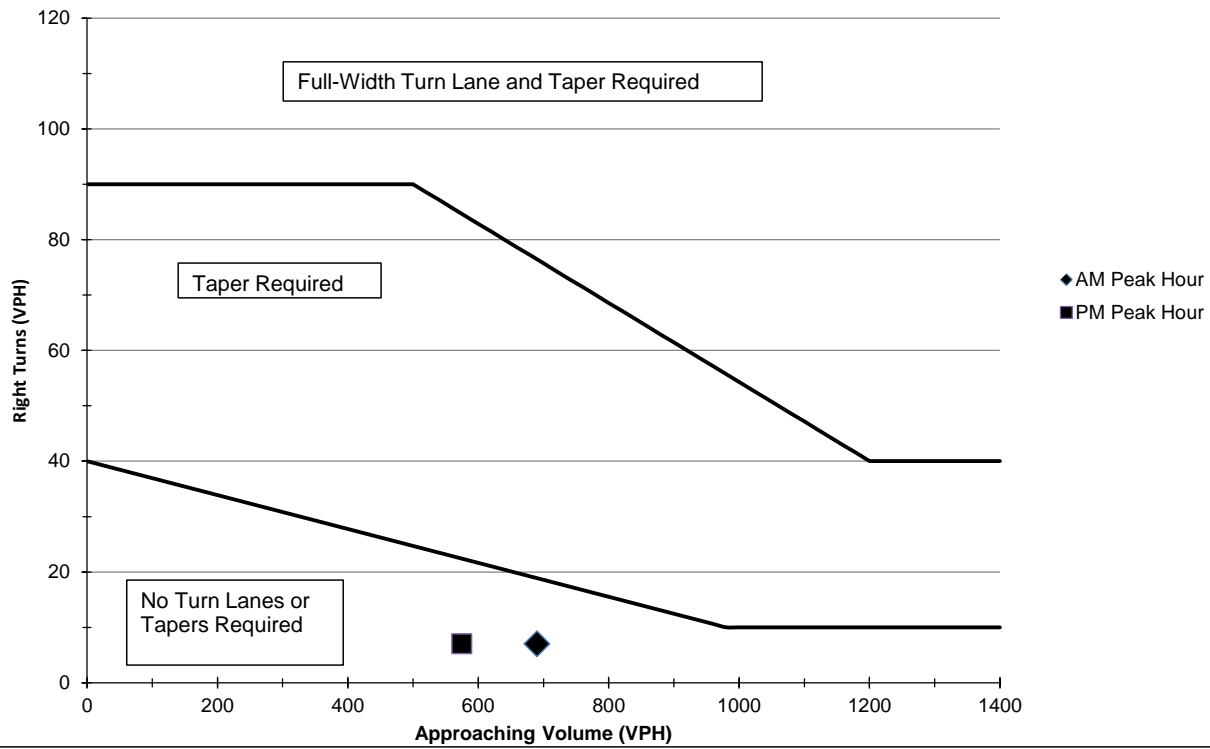


Intersection: U.S. Route 1 (N-S)/Allatoona Lane (E-W)  
 Approach: Northbound Right  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
Approaching Volume	736	603
Right Turns	21	44

## Right Turn Lane Warrant (4-Lane Highway)

Figure 3-27 from VDOT RDM Appendix F

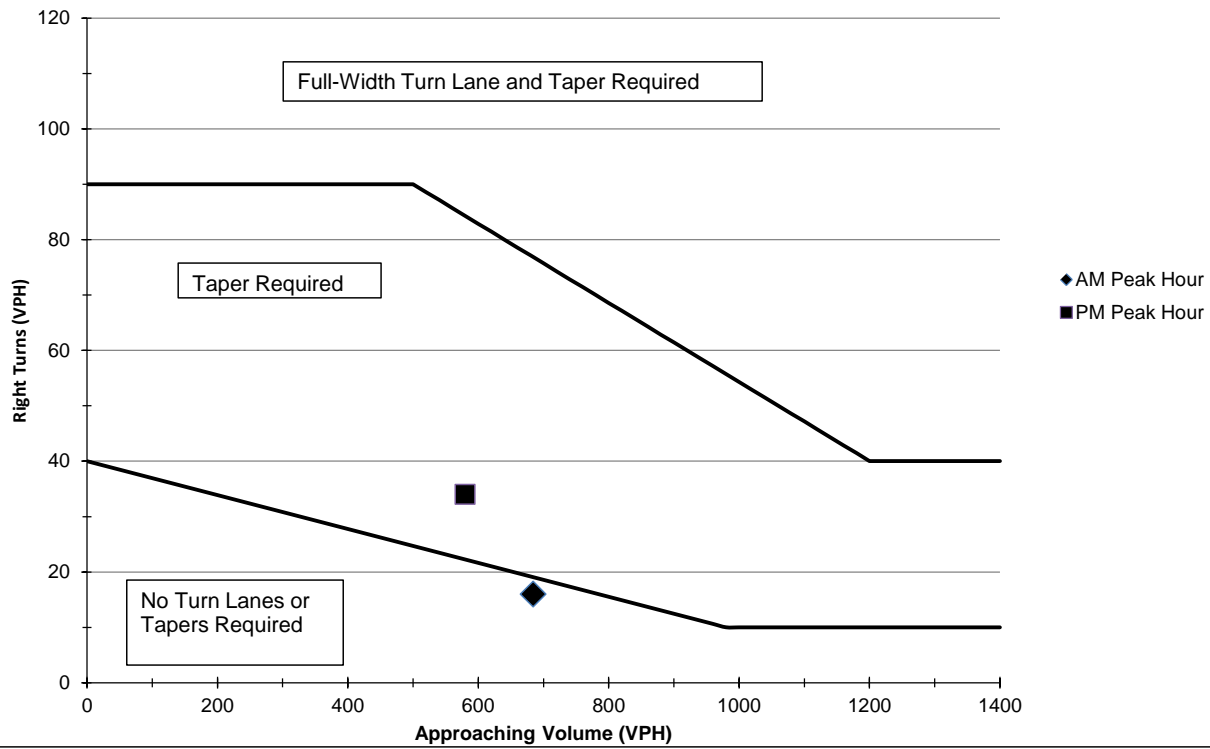


Intersection: U.S. Route 1 NB (N-S)/Austin Run Blvd. (E-W)  
 Approach: Northbound Right  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
Approaching Volume	690	575
Right Turns	7	7

## Right Turn Lane Warrant (4-Lane Highway)

Figure 3-27 from VDOT RDM Appendix F

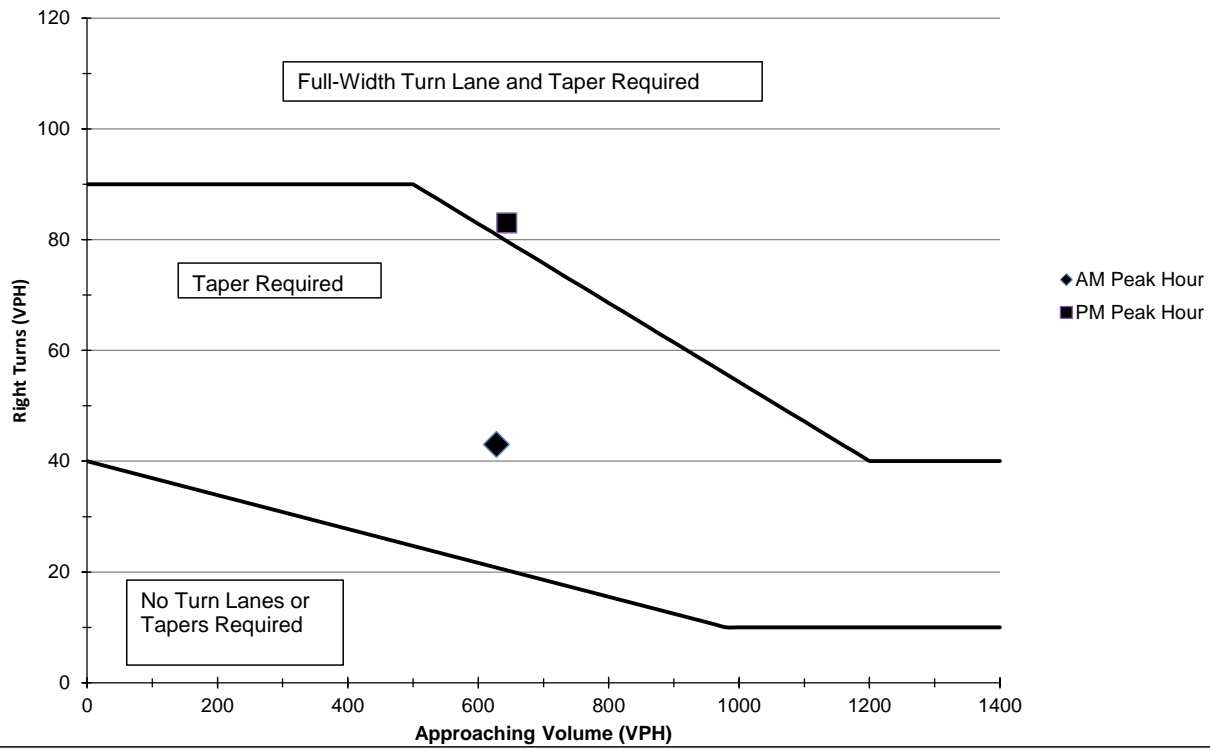


Intersection: U.S. Route 1 (N-S)/Tamar Creek Lane (E-W)  
 Approach: Northbound Right  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
Approaching Volume	684	580
Right Turns	16	34

## Right Turn Lane Warrant (4-Lane Highway)

Figure 3-27 from VDOT RDM Appendix F

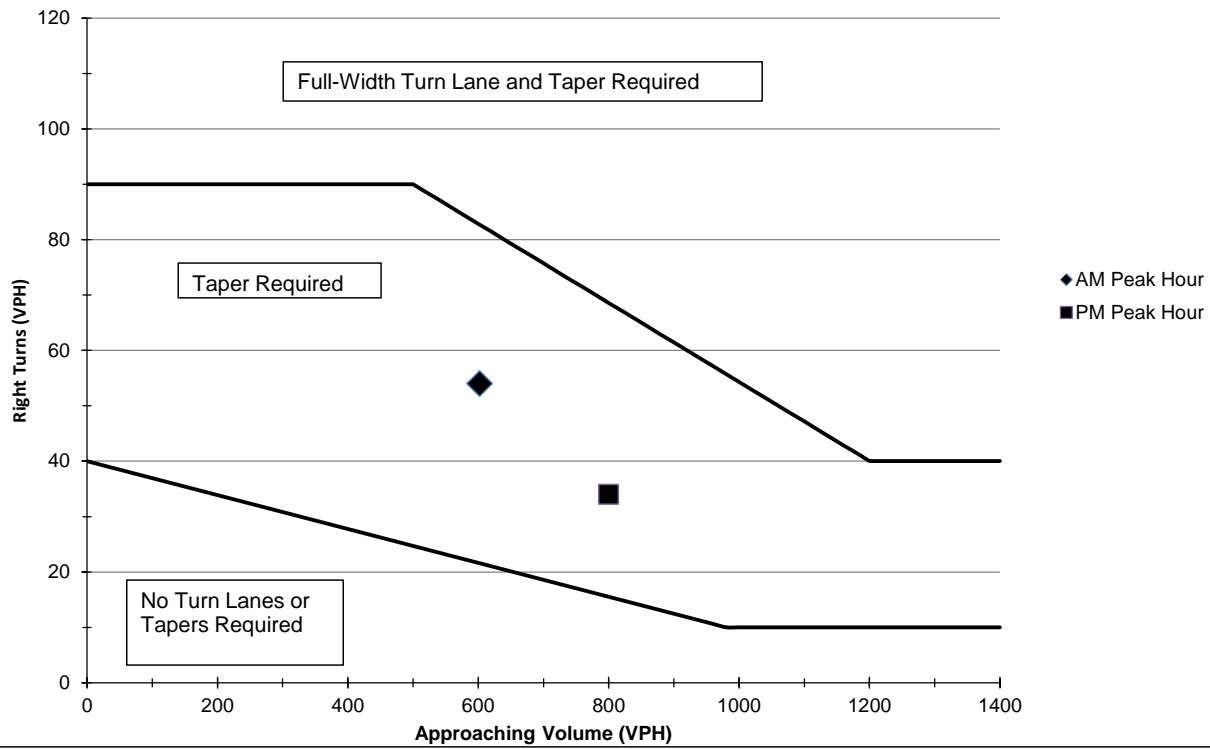


Intersection: U.S. Route 1 (N-S)/Landmark Road (E-W)  
 Approach: Northbound Right  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
Approaching Volume	628	644
Right Turns	43	83

## Right Turn Lane Warrant (4-Lane Highway)

Figure 3-27 from VDOT RDM Appendix F



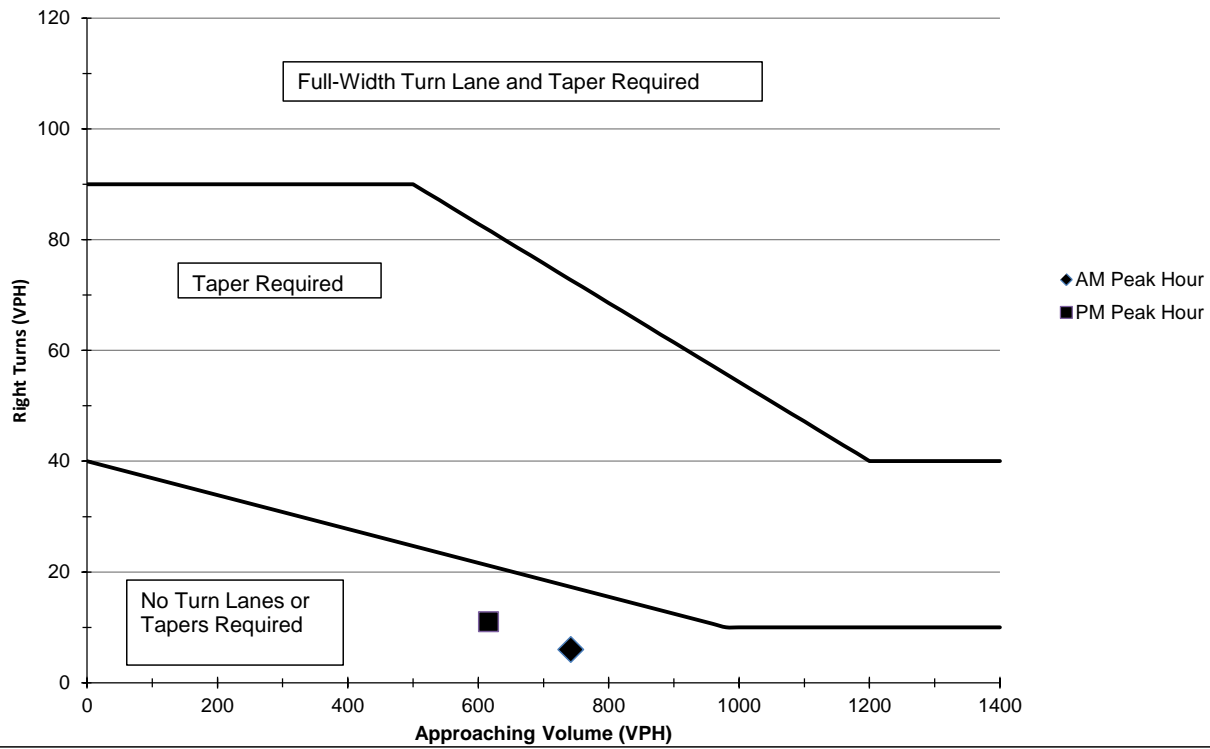
Intersection: U.S. Route 1 (N-S)/Stafford Courthouse (E-W)  
 Approach: Southbound Right  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
Approaching Volume	602	800
Right Turns	54	34



## Right Turn Lane Warrant (4-Lane Highway)

Figure 3-27 from VDOT RDM Appendix F



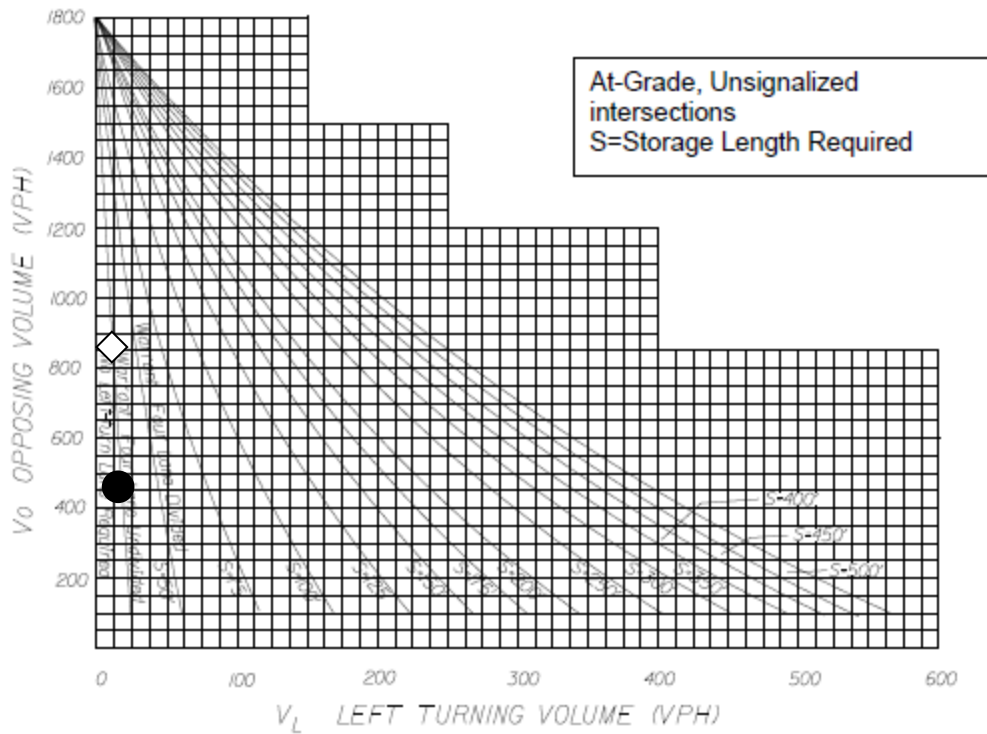
Intersection: U.S. Route 1 (N-S)/Stafford Courthouse (E-W)  
 Approach: Northbound Right  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
Approaching Volume	742	616
Right Turns	6	11

## **APPENDIX J.2**

### **Left-Turn Lane Warrant Analysis Worksheets**

**Warrants for Left Turn Storage Lanes on Four-Lane Highways**

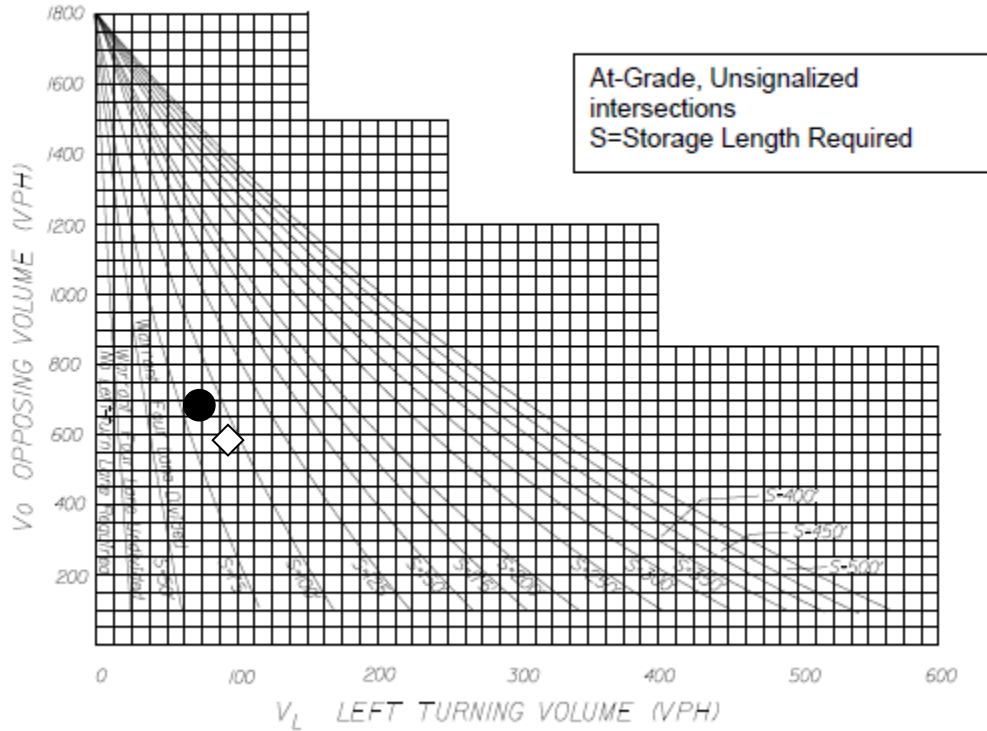


**FIGURE 3-3 WARRANTS FOR LEFT TURN STORAGE LANES ON FOUR-LANE HIGHWAYS**

Intersection: U.S. Route 1 NB (N-S)/Austin Run Blvd. (E-W)  
 Approach: NB Left  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
VO, Opposing Volume	461	844
VA, Advancing Volume	690	575
VL, Left Turning Volume	15	9
Percent Left Turns	2%	2%
Symbol	●	◇

**Warrants for Left Turn Storage Lanes on Four-Lane Highways**

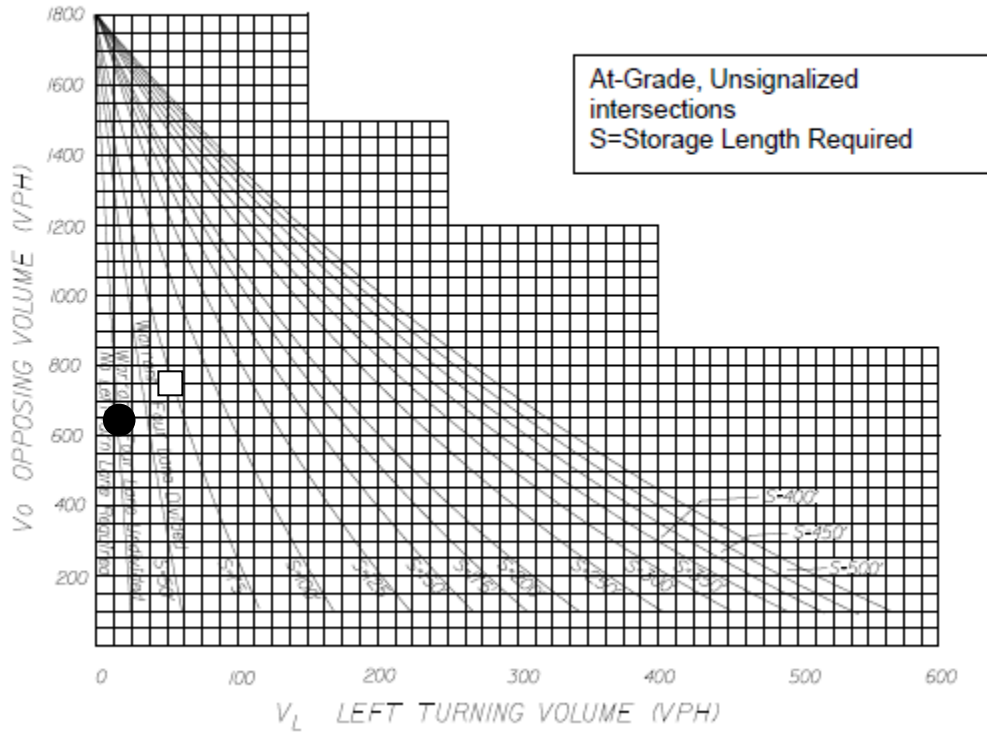


**FIGURE 3-3 WARRANTS FOR LEFT TURN STORAGE LANES ON FOUR-LANE HIGHWAYS**

Intersection: U.S. Route 1 SB (N-S)/Austin Run Blvd. (E-W)  
 Approach: SB Left  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
VO, Opposing Volume	690	575
VA, Advancing Volume	461	844
VL, Left Turning Volume	58	86
Percent Left Turns	13%	10%
Symbol	●	◇

**Warrants for Left Turn Storage Lanes on Four-Lane Highways**

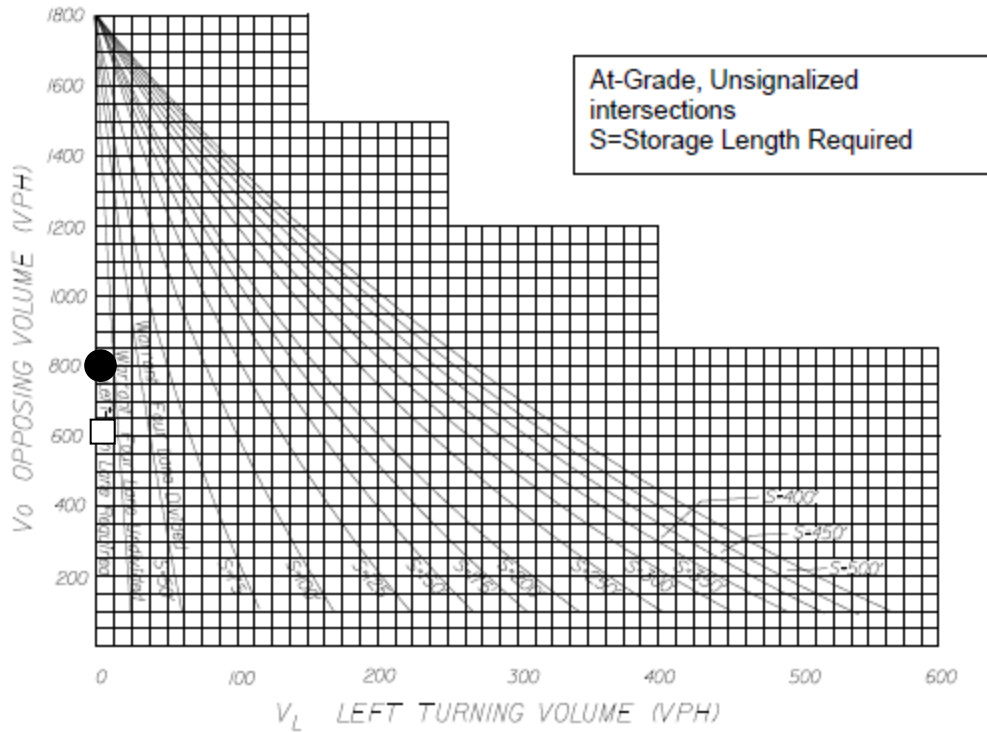


**FIGURE 3-3 WARRANTS FOR LEFT TURN STORAGE LANES ON FOUR-LANE HIGHWAYS**

Intersection: U.S. Route 1 (N-S)/Stafford Courthouse (E-W)  
 Approach: NB Left  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
VO, Opposing Volume	742	616
VA, Advancing Volume	602	800
VL, Left Turning Volume	56	15
Percent Left Turns	9%	2%
Symbol	□	●

**Warrants for Left Turn Storage Lanes on Four-Lane Highways**



**FIGURE 3-3 WARRANTS FOR LEFT TURN STORAGE LANES ON FOUR-LANE HIGHWAYS**

Intersection: U.S. Route 1 (N-S)/Upton Lane (E-W)  
 Approach: SB Left  
 Scenario: Existing 2013

	AM Peak Hour	PM Peak Hour
VO, Opposing Volume	602	800
VA, Advancing Volume	742	616
VL, Left Turning Volume	4	3
Percent Left Turns	<1%	<1%
Symbol	□	●