RAMEY KEMP ASSOCIATES Moving forward.



4343 Cox Road Glen Allen, VA 23060

July 9, 2020

Mr. Michael Zuraf, AICP Stafford County 1300 Courthouse Road Stafford, Virginia 22554 Phone: (540) 658-8668

Reference: **Clift Farm Road Residential** – Traffic Impact Analysis (TIA) Stafford County, Virginia

Dear Mr. Zuraf,

Ramey Kemp & Associates, Inc. (RKA) has performed this Traffic Impact Analysis (TIA) for the proposed neighborhood on the north side of Leeland Road and both sides of Clift Farm Road. The development plan includes 141 age-restricted homes. The access plan includes three full-movement driveways on Clift Farm Road. Figure 1 shows the site location and study intersections, and Figure 2 shows the preliminary site plan.

The purpose of this letter report is to provide trip generation calculations for the proposed neighborhood and determine if turn lane warrants will be met on Leeland Road and Clift Farm Road.

Existing Roadway Conditions

Leeland Road is a two-lane Major Collector with a current average daily traffic (ADT) volume of approximately 1,800 vehicles per day (vpd), and a posted speed limit of 45 miles per hour (mph) in the vicinity of the site.

Clift Farm Road is a two-lane local roadway with a current ADT volume of approximately 100 vpd and a posted speed limit of 35 mph.

Figure 3 shows the existing lane configurations.

Background Traffic Growth

The 2019 ADT data collected by VDOT was used to estimate the current peak hour volumes at the intersection of Leeland Road and Clift Farm Road. Based on the scoping meeting with the County and VDOT, the 2019 peak hour traffic volumes were grown by an annual rate of 1.0% for one year to estimate the existing 2020 peak hour traffic volumes which are shown in Figure 3. The 2019 turning movement volumes were grown by an annual rate of 1.0% per year for six years to estimate the no-build 2025 peak hour volumes, which are shown in Figure 5.



Site Traffic Distribution

The following site traffic distribution was assumed based on a review of the existing traffic volumes, the adjacent roadway network, and engineering judgement:

- 90% to / from the west on Leeland Road
- 10% to / from the east on Leeland Road

Trip Generation

The trip generation potential of the proposed neighborhood during a typical weekday, AM peak hour, and PM peak hour was estimated using the methodologies published by the ITE *Trip Generation Manual* -10^{th} Edition. Table 1 summarizes the trip generation calculations.

Land Use (ITE Land Use Code)	Size	Weel Daily 7 (vp	raffic	AM Pea (vp		PM Pea (vp	
		Enter	Exit	Enter	Exit	Enter	Exit
Senior Adult Housing – Detached (251)	141 homes	381	381	17	36	38	25

Table 1: ITE Trip Generation – Weekday – 10th Edition

Figure 4 shows the site trip distribution and assignment and Figure 5 shows the build 2025 peak hour volumes.

VDOT Turn Lane Warrant Analysis

The projected build-out AM and PM peak hour traffic volumes at the proposed site driveways and the intersection of Leeland Road at Clift Farm Road were compared to the turn lane warrants in the Virginia Department of Transportation (VDOT) *Access Management Design Standards for Entrances and Intersections*, and no turn lanes are necessary.

The turn lane warrant diagrams are enclosed for reference.



Traffic Capacity Analysis

Traffic capacity analysis for the study intersection was performed using Synchro 10, which is a comprehensive software package that allows the user to model signalized and unsignalized intersections to determine levels-of-service (LOS) based on the thresholds specified in the Highway Capacity Manual (HCM) – 6^{th} Edition.

Table 2 summarizes the capacity analysis results for the unsignalized intersection of Leeland Road at Clift Farm Road, and the Synchro outputs are enclosed for reference.

	LANE		AM F	PEAK HO	OUR		PM P	PEAK HO	DUR
CONDITION	GROUP	Lane LOS	Lane Delay (sec)	Queue (ft)	Overall LOS ³ (Delay)	Lane LOS	Lane Delay (sec)	Queue (ft)	Overall LOS ³ (Delay)
Existing (2020)	EBL/T ²	Α	7.6	0		Α	7.4	0	
Traffic Conditions	WBT/R	-	-	-	N/A	-	-	-	N/A
Traffic Conditions	SBL/R ¹	Α	9.3	0		Α	8.9	0	
No-Build (2025)	EBL/T ²	Α	7.6	0		Α	7.4	0	
. , ,	WBT/R	-	-	-	N/A	-	-	-	N/A
Traffic Conditions	SBL/R ¹	Α	9.4	0		Α	8.9	0	
Build (2025)	EBL/T ²	А	7.7	0		А	7.4	3	
	WBT/R	-	-	-	N/A	-	-	-	N/A
Traffic Conditions	SBL/R ¹	Α	9.7	5		Α	9.1	3	

Table 2: Level-of-Service Summary for Leeland Road at Clift Farm Road

1. Level of service for minor approach

2. Level of service for major street left turn movement

3. HCM methodology does not provide lane group or overall LOS, delay, and queue lengths for major street through movements or right turns at unsignalized intersections

Capacity analysis indicates the minor street left turn movement currently operates with short delays (less than 25 seconds) during the AM and PM peak hours. Under no-build conditions, the minor street left turn movement is expected to continue to operate with short delays (less than 25 seconds) during both peak hours. Under build conditions, the minor street left turn movement is expected to continue to operate with short delays (less than 25 seconds) during both peak hours.

Recommendations

Clift Farm Road intersects Leeland Road at an angle. The pavement on Clift Farm Road flares out, and should be striped to improve the approach angle for southbound drivers. The existing trees and shrubs along the north side of Leeland Road east of Clift Farm Road should also be cut back to provide at least 555 feet of sight distance, which is the VDOT minimum on a two-lane roadway that is posted 45 mph.



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We appreciate your attention to this matter. Please contact me at (804) 217-8560 if you have any questions about this report.

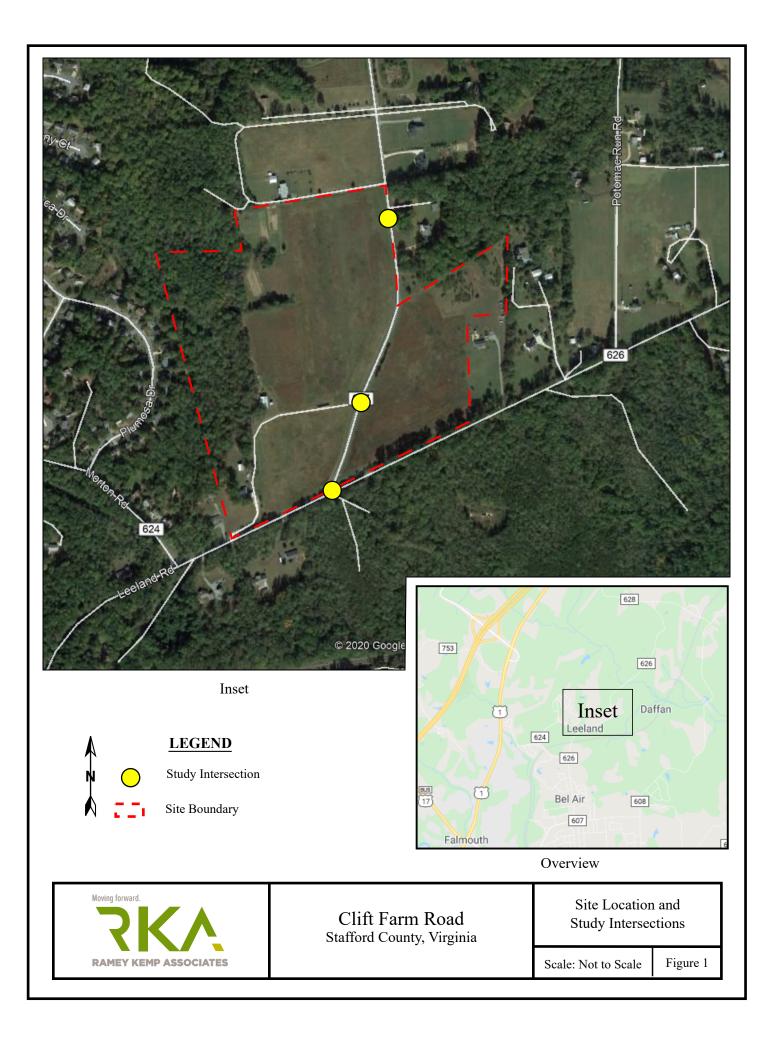
Sincerely yours, *Ramey Kemp & Associates, Inc.*

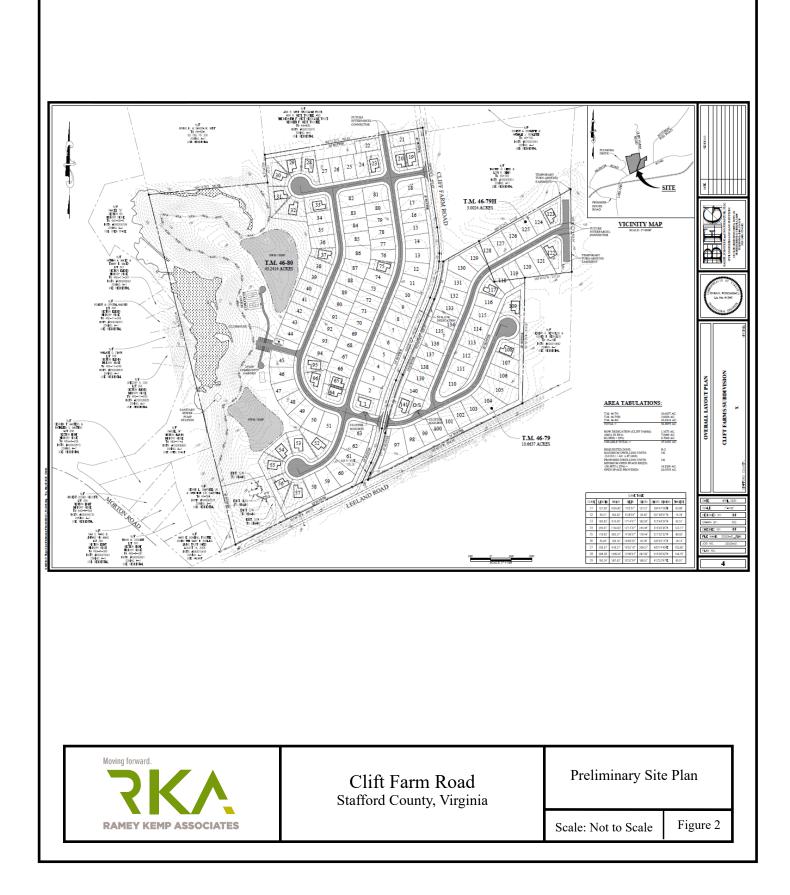


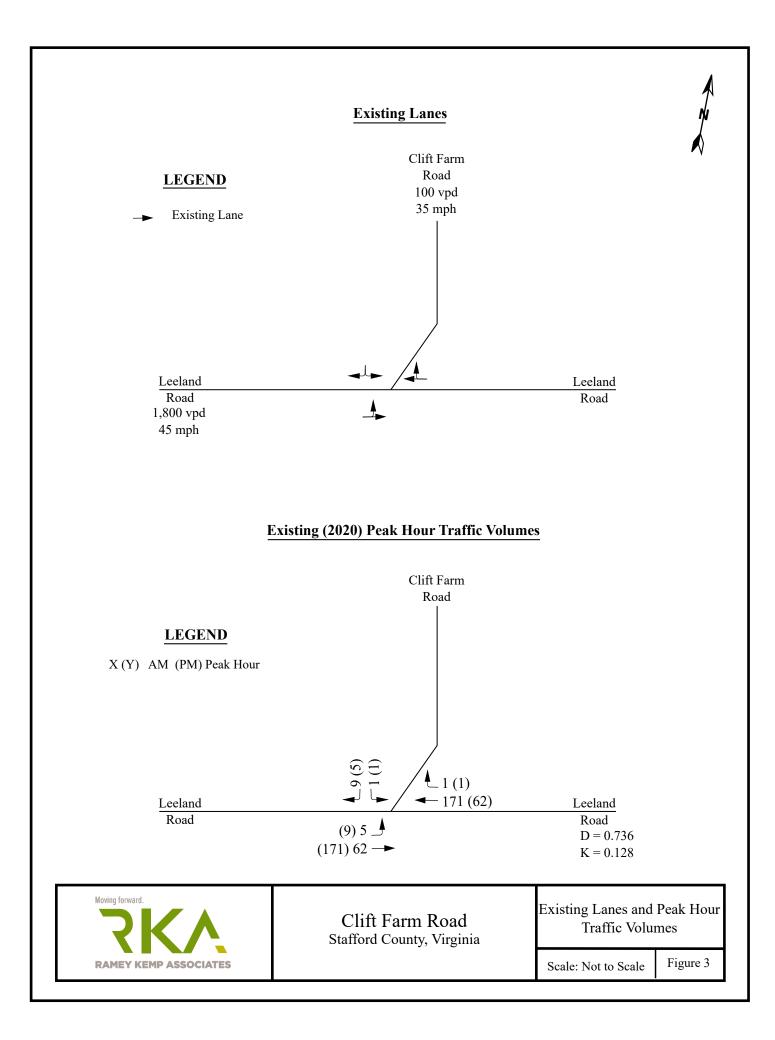
Carl Hultgren, P.E., PTOE State Traffic Engineering Lead

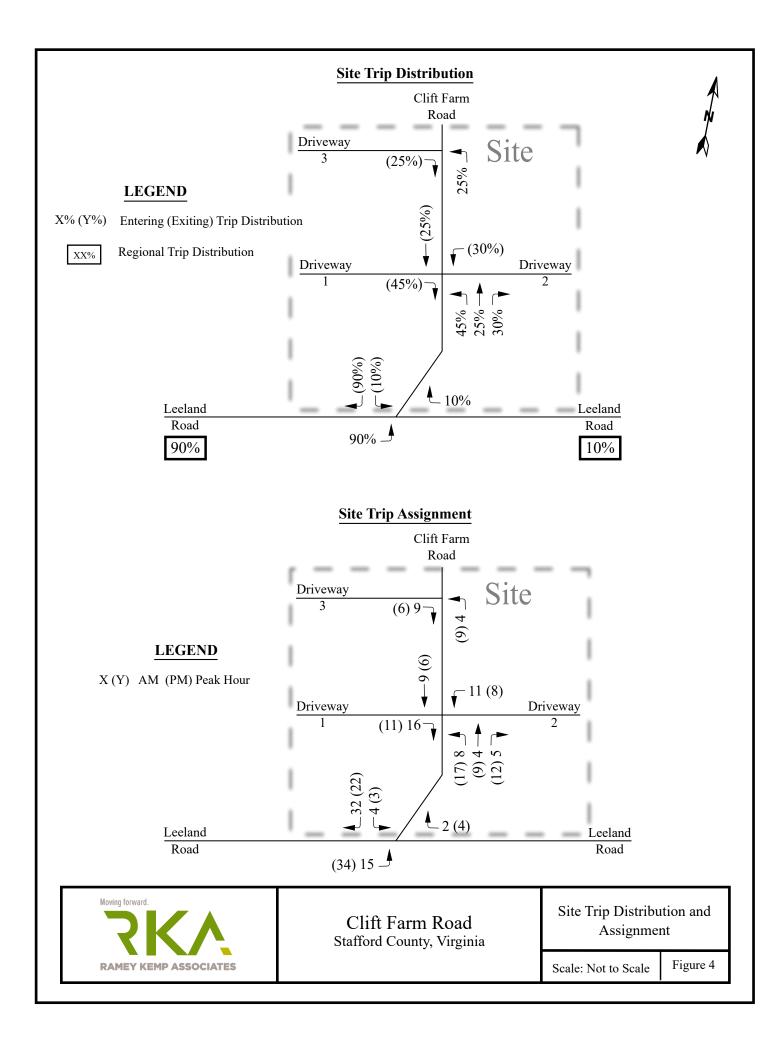
Enclosures: Figures, VDOT ADT data, Turn lane warrant diagrams, Synchro output

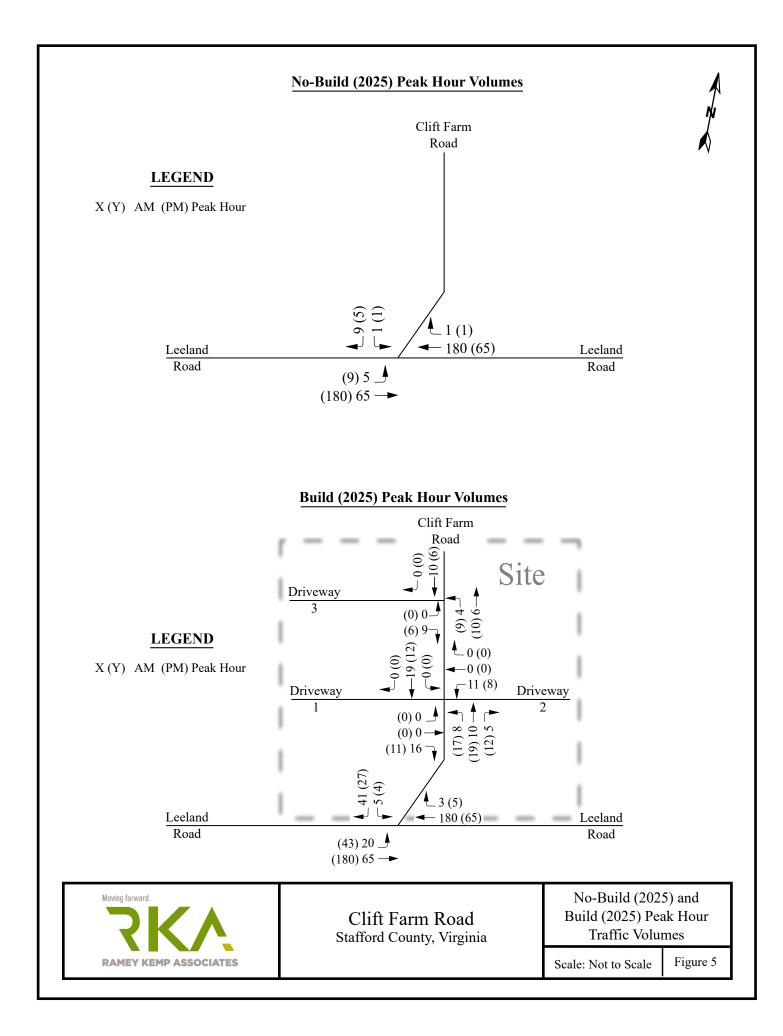








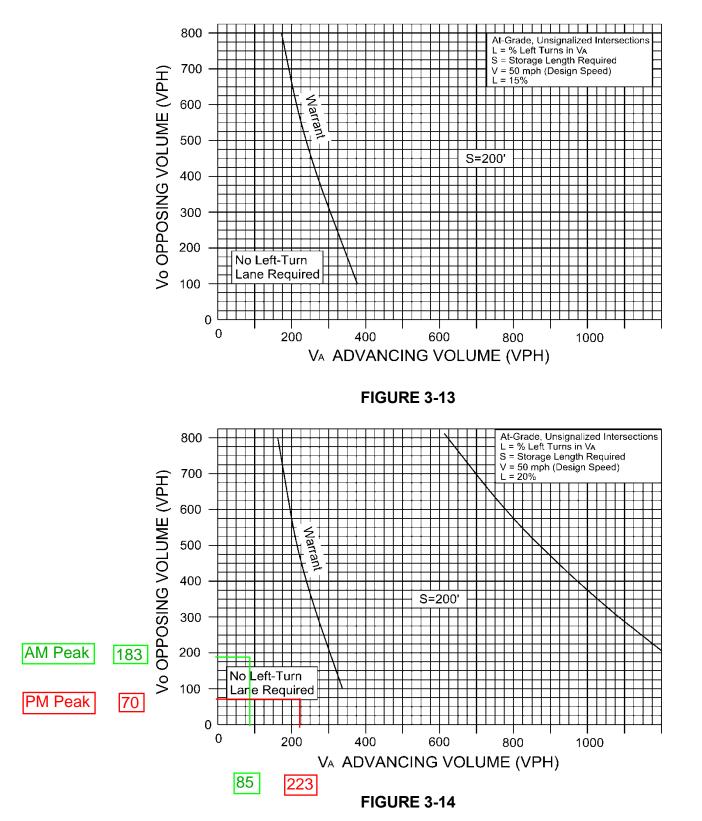




Virginia Department of Transportation Traffic Engineering Division 2019 Annual Average Daily Traffic Volume Estimates By Section of Route Stafford Maintenance Area

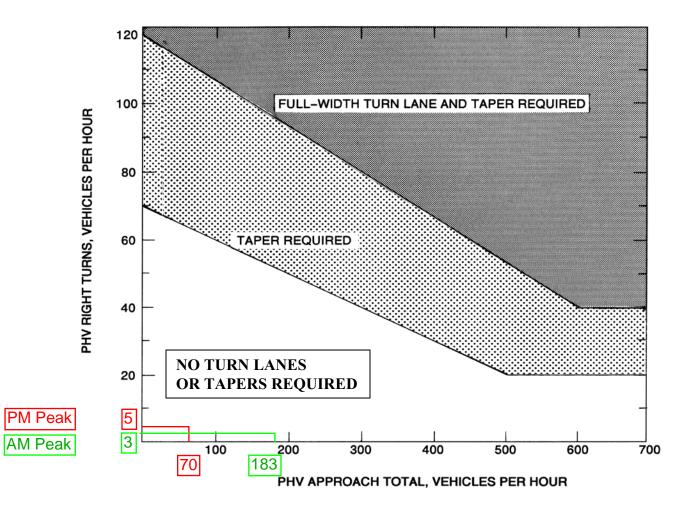
					Sta	afford Ma	aintenar	nce Area	1							
Route	Length	AADT	QA	4Tire	Bus		Tr 3+Axle		2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Stafford County																
626 Leeland Rd	0.54	From 1800	G	95%	1%	89-624 1%	4 Morton 4%	Rd 0%	0%	С	0.128	F	0.736	1900	G	2019
626 Potomac Run Rd	2.33	From 1700 To	G	94%	1%	1%	5 Leeland 4%	0%	0%	С	0.138	F	0.764	1600	G	2019
<u> </u>							Eskimo Hi									-
627) Forbes St	2.08	From 5200 To	G	99%	0%	0%	ferson Da 0% 4 Morton	0%	0%	С	0.136	F	0.747	5500	G	2019
		From	6				ul-de-Sac	Ku								
627 Mountain View Rd	0.75	70	G	100%	0%	0% 89-8900 0	0% Centreport	0% Pkwy	0%	С	0.194	F	0.583	70	G	2019
627 Mountain View Rd	2.57	From 6200	G	99%	0%	0%	0%	0%	0%	F	0.103	F	0.656	6100	G	2019
627 Mountain View Rd	2.27	From 7200	G	99%	0%	0%	Kellogg M 0%	0%	0%	F	0.101	F	0.622	7100	G	2019
627 Mountain View Rd	2.54	From 3800	G	99%	0%	<u>89-648 N,</u> 0%	Shelton S 0%	hop Rd 0%	0%	F	0.127	F	0.783	4100	G	2019
627 Mountain View Rd	1.76	From 4000 To	G	98%	0%	1%	3 Joshua I 1%	0%	0%	С	0.096	F	0.642	4300	G	2019
-							6 Poplar I									
628 Winding Creek Rd	0.14	From 2700	R				helton Sho				NA			NA		08/20/2018
628 Winding Creek Rd	0.13	From 1800	R			89-1282	Glenwood	d Ave			NA			NA		08/20/2018
628) Winding Creek Rd	0.49	To From 1600	R			89-1284	4 Oaklawr	n Rd			NA			NA		08/20/2018
628) Winding Creek Rd	0.56	From 2100	R			89-709	9 Flatford	Rd			NA			NA		09/12/2012
<u> </u>		To	c			89-733 E	Embrey M	ill Rd								
628) Winding Creek Rd	0.60	3900 то	R			00 (20 F	C 4	D 1			NA			NA		09/12/2012
		From	c				, Courthou									
628 Ramoth Church Rd	1.76	2600 To	G	98%	0%	1%	1% okeek Fur	0%	0%	С	0.161	F	0.809	2600	G	2019
628 Ramoth Church Rd	3.10	Prom 2900	G	97%	0%	1%	1%	0%	0%	С	0.136	F	0.918	2800	G	2019
628) Eskimo Hill Rd	1.77	Ton From 3000	G	93%	1%	<u>US 1 Jeffe</u> 2%	erson Davi 4%	is Hwy 1%	0%	С	0.122	F	0.737	2900	G	2019
	1.00	From		0761	4.61		outhern Vi		001	~		-	0.570	4000	~	
628 Eskimo Hill Rd	1.20	1800 то	G	97%	1%	1%	1% 8 Brooke 1	0% Rd	0%	С	0.127	F	0.573	1800	G	2019
		From														
(629) Andrew Chapel Rd	0.89	4800	G	99%	0%	1%	Courthous 0%	e Ra 0%	0%	С	0.106	F	0.636	5100	G	2019
		То					8 Brooke			-						
		From	•			89-648 S	helton Sho	op Rd								
630 Courthouse Rd	4.02	11000 To	G	99%	0%	1%	0% I-95	0%	0%	F	0.102	F	0.661	12000	G	2019
630 Courthouse Rd	0.84	From 16000	G	97%	1%	1%	1%	1%	0%	С	0.085	F	0.575	18000	G	2019
630 Courthouse Rd	0.93	From 8200	G	99%	0%	1%	erson Davi 0%	0%	0%	F	0.099	F	0.678	8900	G	2019
630 Courthouse Rd	1.63	From 6000	G	99%	0%	89-13 1%	45; 89-15 0%	57 0%	0%	С	0.107	F	0.653	6400	G	2019
		From					ndrew Cha			-					_	
630 Courthouse Rd	0.96	620 то	G	98%	1%	0% 89-666 A	0% Aquia Cree	0% ek Rd	0%	С	0.105	F	0.507	660	G	2019





WARRANT FOR LEFT-TURN STORAGE LANES ON TWO-LANE HIGHWAY

Leeland Road at Clift Farm Road Westbound Right-turn Lane Warrant Build (2025) Volumes



Appropriate Radius required at all Intersections and Entrances (Commercial or Private).

LEGEND

PHV - Peak Hour Volume (also Design Hourly Volume equivalent)

Adjustment for Right Turns

For posted speeds at or under 45 mph, PHV right turns > 40, and PHV total < 300. Adjusted right turns = PHV Right Turns - 20

If PHV is not known use formula: PHV = ADT x K x D

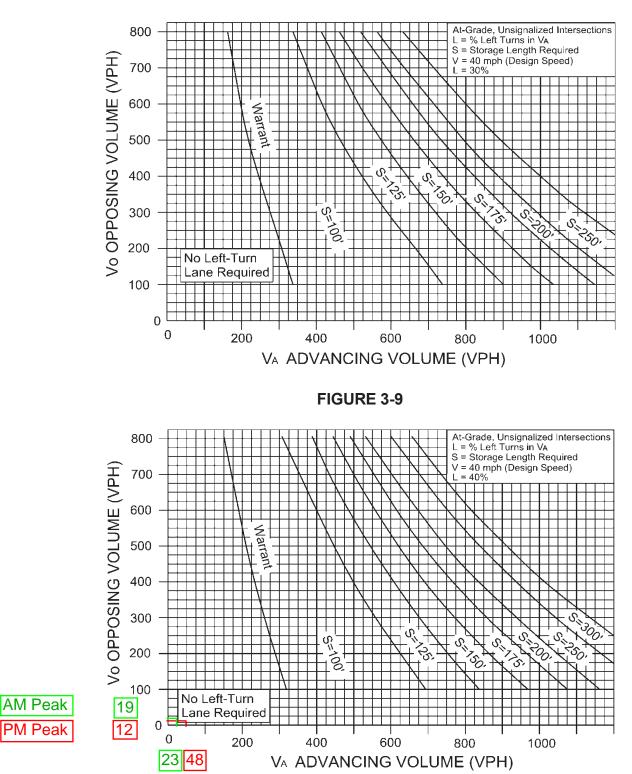
K = the percent of AADT occurring in the peak hour

D = the percent of traffic in the peak direction of flow

Note: An average of 11% for K x D will suffice.

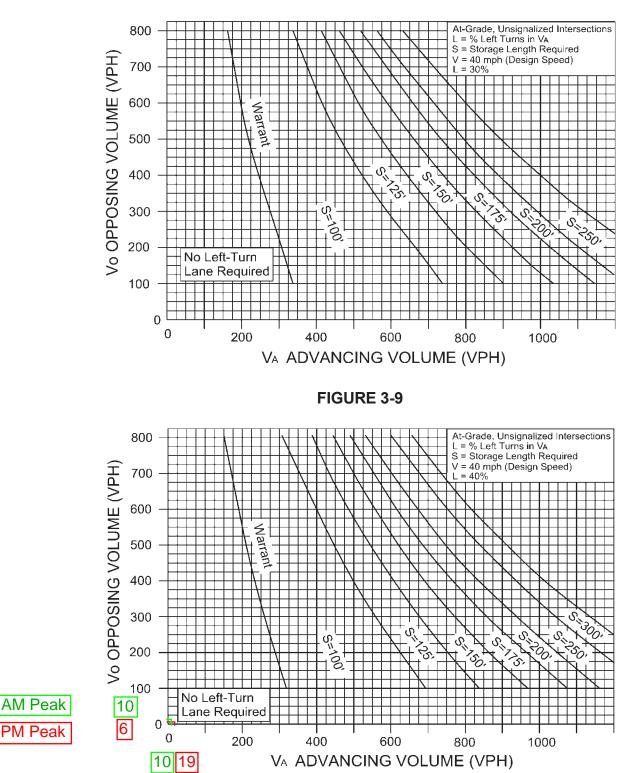
When right turn facilities are warranted, see Figure 3-1 for design criteria.*

FIGURE 3-26 WARRANTS FOR RIGHT TURN TREATMENT (2-LANE HIGHWAY)



WARRANT FOR LEFT-TURN STORAGE LANES ON TWO-LANE HIGHWAY

F-63



WARRANT FOR LEFT-TURN STORAGE LANES ON TWO-LANE HIGHWAY

FIGURE 3-10

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्च	eî 👘		۰¥	
Traffic Vol, veh/h	5	62	171	1	1	9
Future Vol, veh/h	5	62	171	1	1	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	.# -	0	0	-	0	-
Grade, %		0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	67	186	1	1	10
Major/Minor N	Major1	ſ	Major2	I	Minor2	
Conflicting Flow All	187	0	-	0	264	187
Stage 1	-	-	-	-	187	-
Stage 2	-	-	-	-	77	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1		_	-	-	5.42	-
Critical Hdwy Stg 2	-				5.42	_
Follow-up Hdwy	2.218	-	-	-	3.518	
		-	-	-		
Pot Cap-1 Maneuver	1387	-	-	-	725	855
Stage 1	-	-	-	-	845	-
Stage 2	-	-	-	-	946	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1387	-	-	-	722	855
Mov Cap-2 Maneuver	-	-	-	-	722	-
Stage 1	-	-	-	-	842	-
Stage 2	-	-	-	-	946	-
0.090 2					210	
Approach	EB		WB		SB	
HCM Control Delay, s	0.6		0		9.3	
HCM LOS	0.0		0		7.3 A	
					А	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR	
Capacity (veh/h)		1387	-	-	-	840
HCM Lane V/C Ratio		0.004	-	-	-	0.013
HCM Control Delay (s)		7.6	0	-	-	9.3
HCM Lane LOS		A	A	-	-	A
HCM 95th %tile Q(veh)		0	-	-	-	0
		0				U

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्भ	4		۰Y	
Traffic Vol, veh/h	9	171	62	1	1	5
Future Vol, veh/h	9	171	62	1	1	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e.# -	0	0	-	0	-
Grade, %	-	0	0	_	0	_
Peak Hour Factor	92	92	92	- 92	92	- 92
	92	92	92	92	92	
Heavy Vehicles, %						2
Mvmt Flow	10	186	67	1	1	5
Major/Minor	Major1	Ν	Major2	ļ	Minor2	
Conflicting Flow All	68	0	-	0	274	68
Stage 1	-	-	-	-	68	-
Stage 2	-	-	-	-	206	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1		_	_	-	5.42	-
Critical Hdwy Stg 2	-				5.42	_
Follow-up Hdwy	2.218	-	-	-	3.518	
		-	-	-		
Pot Cap-1 Maneuver	1533	-	-	-	716	995
Stage 1	-	-	-	-	955	-
Stage 2	-	-	-	-	829	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1533	-	-	-	711	995
Mov Cap-2 Maneuver	-	-	-	-	711	-
Stage 1	-	-	-	-	948	-
Stage 2	-	-	-	-	829	-
5						
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		8.9	
HCM LOS	0.1		0		A	
					~	
Minor Long/Major Murr	at	EDI	ЕРТ		חח///	
Minor Lane/Major Mvm	11	EBL	EBT	WBT	WBR	
Capacity (veh/h)		1533	-	-	-	933
HCM Lane V/C Ratio		0.006	-	-	-	0.007
HCM Control Delay (s)	ł	7.4	0	-	-	8.9
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh)		0				

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		÷	4		۰¥	
Traffic Vol, veh/h	5	65	180	1	1	9
Future Vol, veh/h	5	65	180	1	1	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	71	196	1	1	10
Major/Minor	Major1	Ν	Major2		Minor2	
Conflicting Flow All	197	0		0	278	197
Stage 1	-	-	-	-	197	-
Stage 2	-	-	-	-	81	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3 318
Pot Cap-1 Maneuver	1376	-	-	-	712	844
Stage 1	-	-	-	-	836	-
Stage 2	-	-	-	-	942	-
Platoon blocked, %		_	-	-	772	
Mov Cap-1 Maneuver	1376			_	709	844
Mov Cap-1 Maneuver	1370	-	-	-	709	- 044
Stage 1	-	-	-	-	833	-
Stage 2	-	-	-	-	833 942	-
Slaye Z	-	-	-	-	74Z	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.5		0		9.4	
HCM LOS	0.0		0		A.	
					~	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1376	-	_		828
HCM Lane V/C Ratio		0.004	-	-		0.013
HCM Control Delay (s))	7.6	0	_	_	9.4
HCM Lane LOS	/	7.0 A	A	-	-	7.4 A
HCM 95th %tile Q(veh)	0	л	-	-	0
	7	U	-	-	-	U

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		÷.	el 👘		۰¥	
Traffic Vol, veh/h	9	180	65	1	1	5
Future Vol, veh/h	9	180	65	1	1	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	2.# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	196	71	1	2	5
	10	190	/ 1	1	1	5
Major/Minor	Major1	Ν	Major2		Minor2	
Conflicting Flow All	72	0	-	0	288	72
Stage 1	-	-	-	-	72	-
Stage 2	-	-	-	-	216	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	_	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	1528	_	_	_	702	990
Stage 1	1520			_	951	-
	-	-	-	-	820	
Stage 2	-	-	-	-	820	-
Platoon blocked, %	1500	-	-	-	(07	000
Mov Cap-1 Maneuver	1528	-	-	-	697	990
Mov Cap-2 Maneuver	-	-	-	-	697	-
Stage 1	-	-	-	-	944	-
Stage 2	-	-	-	-	820	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		8.9	
HCM LOS	0.1		5		A	
Minor Long/Major Mum	\ †	EDI	ЕРТ		חח///	
Minor Lane/Major Mvm	IL	EBL	EBT	WRI	WBR	
Capacity (veh/h)		1528	-	-	-	925
HCM Lane V/C Ratio		0.006	-	-		0.007
HCM Control Delay (s)		7.4	0	-	-	8.9
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh))	0	-	-	-	0

Intersection						
Int Delay, s/veh	1.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्च	4		Y	
Traffic Vol, veh/h	20	65	180	3	5	41
Future Vol, veh/h	20	65	180	3	5	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	22	71	196	3	5	45
WWWITH THOW		71	170	5	0	40
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	199	0	-	0	313	198
Stage 1	-	-	-	-	198	-
Stage 2	-	-	-	-	115	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1373	-	-	-	680	843
Stage 1	-	-	-	-	835	-
Stage 2	-	-	-	-	910	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1373	-	-	-	668	843
Mov Cap-2 Maneuver		-	-	-	668	-
Stage 1	-	-	-	-	821	-
Stage 2	-	-	-	-	910	-
Slaye Z	-	-	-	-	710	-
A 1					05	
Approach	EB		WB		SB	
HCM Control Delay, s	5 1.8		0		9.7	
HCM LOS					А	
Minor Lane/Major Mvr	mt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1373	-	-	-	820
HCM Lane V/C Ratio		0.016	-	-	-	0.061
HCM Control Delay (s	5)	7.7	0	-	-	9.7
HCM Lane LOS	'	A	Ă	-	-	A
HCM 95th %tile Q(vel	h)	0	-	-	-	0.2
	·'/	0	-	-	-	0.2

Intersection						
Int Delay, s/veh	1.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<u>्</u>	¢Î -		۰¥	
Traffic Vol, veh/h	43	180	65	5	4	27
Future Vol, veh/h	43	180	65	5	4	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	46	194	70	5	4	29
Major/Minor	Major1	Ν	Major2	i	Minor2	
Conflicting Flow All	75	0		0	359	73
Stage 1	-	0	_	-	73	-
Stage 2	-	_	_	_	286	-
Critical Hdwy	4.12		_	_	6.42	6.22
Critical Hdwy Stg 1	4.12	-	-	-	5.42	0.22
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	- 2.218	-	-	-	3.518	- 3.318
Pot Cap-1 Maneuver	1524	-	-	-	640	3.310 989
	1524	-	-	-		
Stage 1	-	-	-	-	950	-
Stage 2	-	-	-	-	763	-
Platoon blocked, %	4504	-	-	-	(10	000
Mov Cap-1 Maneuver	1524	-	-	-	618	989
Mov Cap-2 Maneuver	-	-	-	-	618	-
Stage 1	-	-	-	-	918	-
Stage 2	-	-	-	-	763	-
Approach	EB		WB		SB	
HCM Control Delay, s	1.4		0		9.1	
HCM LOS					А	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1524	-	_		918
HCM Lane V/C Ratio		0.03	-	-	-	0.036
HCM Control Delay (s))	7.4	0	-	-	9.1
HCM Lane LOS	/	A	A	_	_	A
HCM 95th %tile Q(veh	n)	0.1	-	_	_	0.1
	'	0.1	-	-	-	0.1