RAMEY KEMP ASSOCIATES

Moving forward.

T 804 217 8560

4343 Cox Road Glen Allen, VA 23060

May 3, 2021

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

Reference: Clift Farm – Revised Traffic Impact Analysis (TIA)

Stafford County, Virginia

Dear Mr. Zuraf,

Ramey Kemp & Associates, Inc. (RKA) has revised this Traffic Impact Analysis (TIA) for the proposed agerestricted neighborhood on the north side of Leeland Road and both sides of Clift Farm Road. The original TIA in July 2021 was based on 141 age-restricted homes. The current development plan includes 180 age-restricted homes with four full-movement driveways on Clift Farm Road. If approved, the proposed neighborhood is expected to be built by 2025.

Figure 1 shows the site location and study intersections, and Figure 2 shows the preliminary site plan.

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 6.



Transportation Consulting that moves us forward.

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

Table 1 shows the trip potential of the proposed neighborhood during a typical weekday, AM peak hour, and PM peak hour based on the ITE *Trip Generation Manual* -10^{th} *Edition*.

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

Land Use (ITE Land Use Code)	Size	Weel Daily T	Traffic Traffic	AM Pea (vp		PM Pea (vp	
		Enter	Exit	Enter	Exit	Enter	Exit
Senior Adult Housing – Detached (251) Equation	180 homes	472	472	21	43	46	30
Senior Adult Housing – Detached (251) Average Rate	180 homes	385	385	14	29	33	21

This analysis is based on the ITE trip generation equation to be conservative.

Figure 4 shows the site trip distribution and Figure 5 shows the site trip assignment. Figure 6 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 warranted. 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) -6th 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.

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

	LANE		AM P	PEAK HO	OUR		PM P	PEAK HO	OUR
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	A	7.6	0		A	7.4	0	
	WBT/R	-	-	-	N/A	-	-	-	N/A
Traffic Conditions	SBL/R ¹	A	9.3	0		Α	8.9	0	
No-Build (2025)	EBL/T ²	A	7.6	0		A	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	A	7.7	3		A	7.5	3	
	WBT/R	-	-	-	N/A	-	-	-	N/A
Traffic Conditions	SBL/R ¹	Α	9.7	5		Α	9.1	3	

- 1. Level of service for minor approach
- 2. Level of service for major street left turn movement
- 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 with queue lengths of just 1 car.

Recommendations

Clift Farm Road intersects Leeland Road at an angle of approximately 45 degrees. 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.



RAMEY KEMP ASSOCIATES

Moving forward.

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

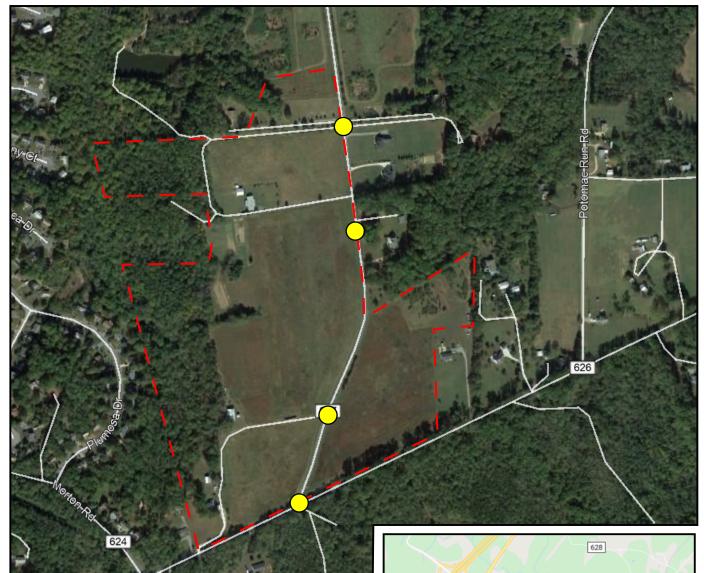
Figures, VDOT ADT data, Turn lane warrant diagrams, Synchro output **Enclosures:**

Ms. Margaret Niemann, VDOT Copy to:

Mr. James Jarrell, IV, Jarrell Properties, Inc.

Mr. Jon Ernest, ASLA, Monteverde Engineering & Design Studio





Inset



LEGEND

Study Intersection

Site Boundary



Overview



Clift Farm Stafford County, Virginia Site Location and Study Intersections

Scale: Not to Scale



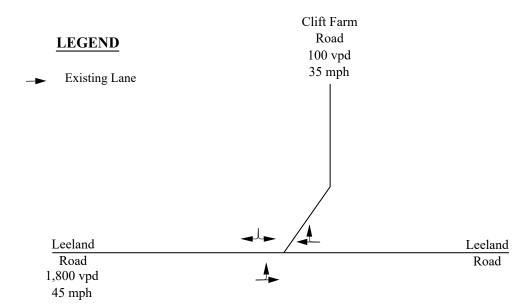


Clift Farm Stafford County, Virginia Preliminary Site Plan

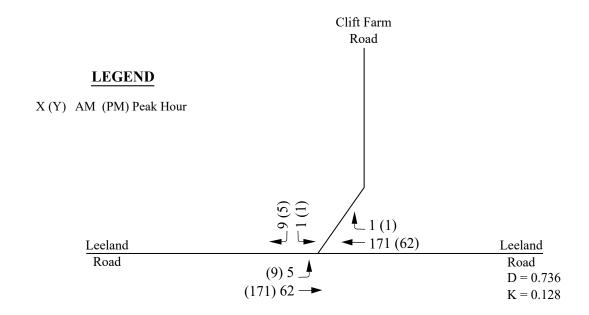
Scale: Not to Scale

Existing Lanes





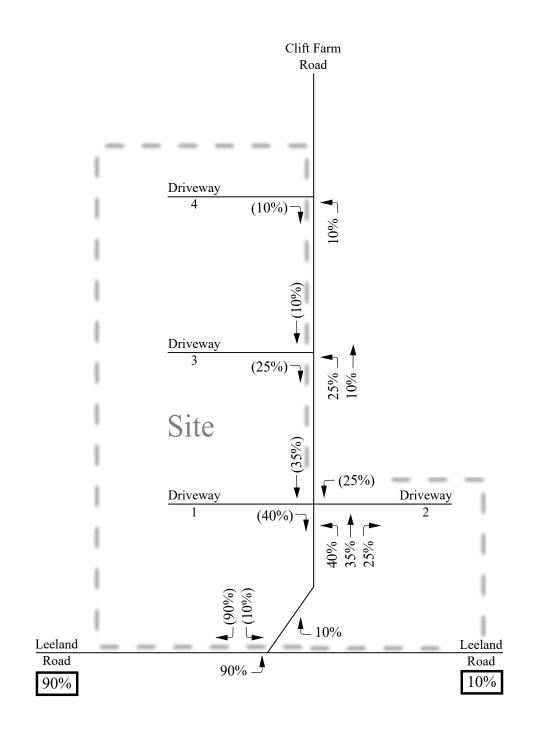
Existing (2020) Peak Hour Traffic Volumes





Clift Farm Stafford County, Virginia Existing Lanes and Peak Hour Traffic Volumes

Scale: Not to Scale



LEGEND

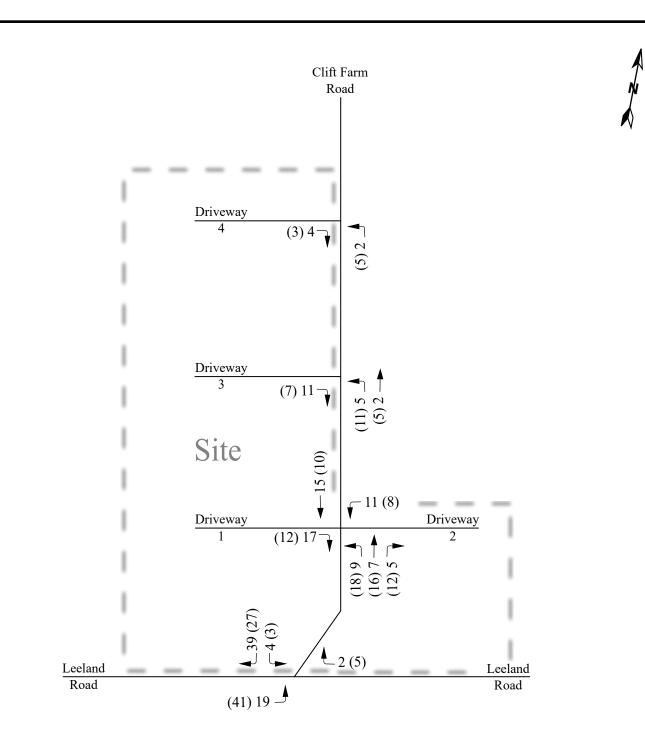
X% (Y%) Entering (Exiting) Trip Distribution

XX% Regional Trip Distribution



Clift Farm Stafford County, Virginia Site Trip Distribution

Scale: Not to Scale



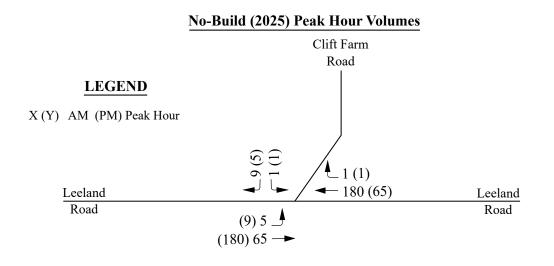
LEGEND

X (Y) AM (PM) Peak Hour

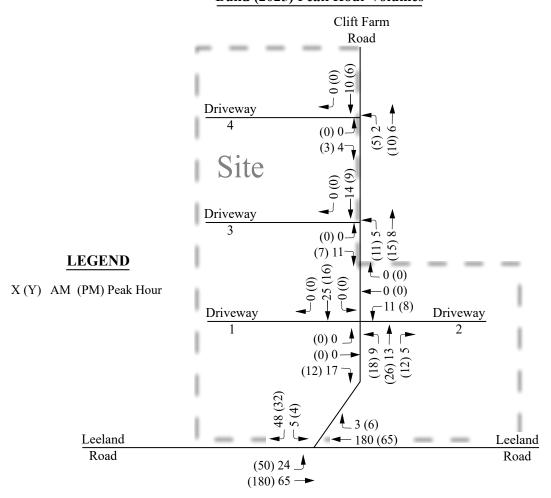


Clift Farm Stafford County, Virginia Site Trip Assignment

Scale: Not to Scale



Build (2025) Peak Hour Volumes





Clift Farm Stafford County, Virginia No-Build (2025) and Build (2025) Peak Hour Traffic Volumes

Scale: Not to Scale

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

ADT	QA	4Tire	Bus		Trι	ıck		00	K	01/	Dir	A A \A \D_T	0144	
			Duo	2Axle	3+Axle	1Trail	2Trail	QC	Factor	QK	Factor	AAWDT	QW	Year
From:				90.62	I Monton F	0.4								
800 T	G	95%	1%	1%	4%	0%	0%	С	0.128	F	0.736	1900	G	2019
700 To:	G	94%	1%	1%	4%	0%	0%	С	0.138	F	0.764	1600	G	2019
From:			T											
200 To:	G	99%	0%	0%	0%	0%	0%	С	0.136	F	0.747	5500	G	2019
70	G	100%	0%	0%	0%	0%	0%	С	0.194	F	0.583	70	G	2019
From: 200	G	99%	0%	0%	0%	0%	0%	F	0.103	F	0.656	6100	G	2019
7200 From:	G	99%	0%	0%	0%	0%	0%	F	0.101	F	0.622	7100	G	2019
From:	G	99%	0%	0%	Shelton Sh 0%	op Rd 0%	0%	F	0.127	F	0.783	4100	G	2019
From: OOO To:	G	98%	0%	1%	1%	0%	0%	С	0.096	F	0.642	4300	G	2019
From:														
700 To:	R								NA			NA		08/20/2018
800	R								NA			NA		08/20/2018
600	R								NA			NA		08/20/2018
From: 100	R			89-709	Flatford I	Rd			NA			NA		09/12/2012
From:				89-733 E	mbrey Mil	ll Rd						NΙΛ		09/12/2012
To:				89-630 E,	Courthous	se Rd						IVA		03/12/2012
From:				89-630 W	, Courthou	se Rd							_	
600	G	98%	0%	1%	1%	0%	0%	С	0.161	F	0.809	2600	G	2019
From: 900	G	97%	0%	9-651 Acc	okeek Furr 1%	0%	0%	С	0.136	F	0.918	2800	G	2019
From:	G	93%	1%	US 1 Jeffe 2%	rson Davis 4%	1%	0%	С	0.122	F	0.737	2900	G	2019
From:]					
	G	97%	1%				0%	С	0.127	F	0.573	1800	G	2019
800	G	99%	0%	1%	0%	0%	0%	С	0.106	F	0.636	5100	G	2019
To:														
From:														
1000	G	99%	0%	1%	0% I-95	0%	0%	F	0.102	F	0.661	12000	G	2019
5000 To:	G	97%	1%	1% US 1 Jeffe	1%	1%	0%	С	0.085	F	0.575	18000	G	2019
From: L 200	G	99%	0%	1%	0%	0%	0%	F	0.099	F	0.678	8900	G	2019
From: 0000	G	99%	0%	1%	0%	0%	0%	С	0.107	F	0.653	6400	G	2019
From:	G	98%					0%	C	0 105	F	0 507	660	G	2019
To:		JU /0	1 /0				J /0	J	0.103		0.007			2010
	700 To From: 200	700 G To: From: 200 G To: From: 70 G 70 G	700 G 94% To From: 200 G 99% To From: 70 G 100% To From: 200 G 99% 200 G 99% 70 G 99% 70 G 98% 70 G 97% 70 G 99% 70 G 99%	700 G 94% 1% To	To Sep-628 To Sep-630 To Sep-648 Sep-648	Tree	Trace	The color of the	Core Core	True	True	The color of the	Total Section Total Se	Second

4/16/2020 16

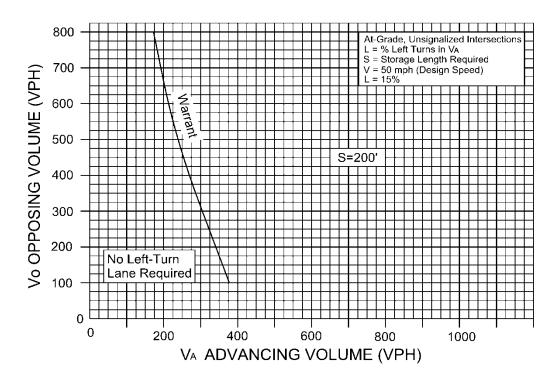


FIGURE 3-13

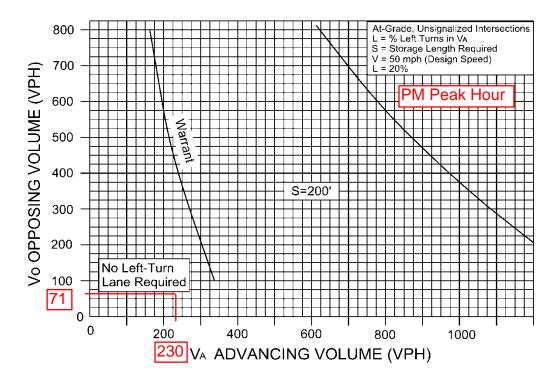


FIGURE 3-14

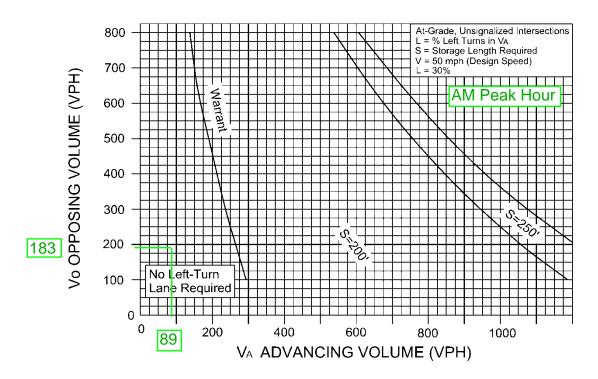


FIGURE 3-15

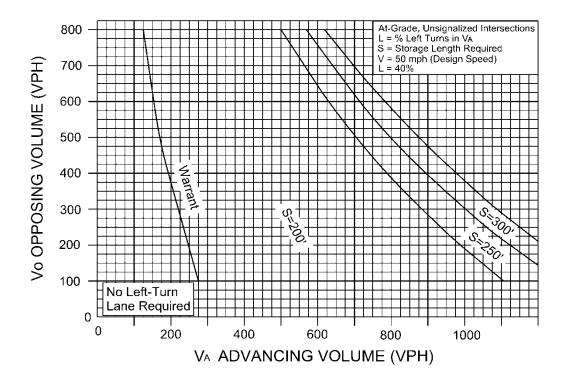
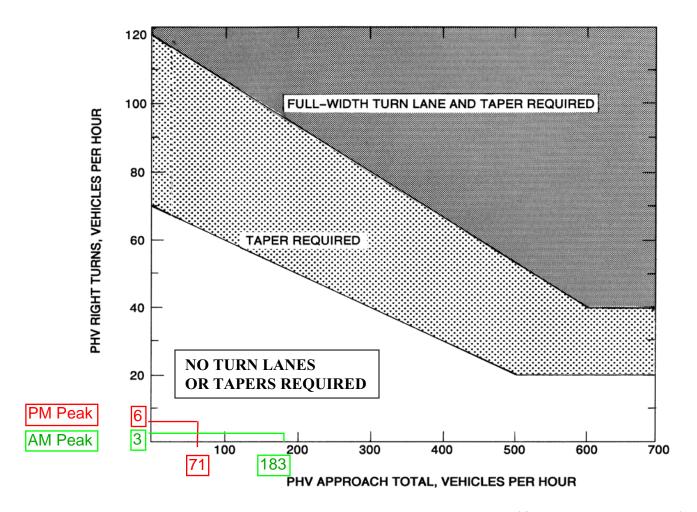


FIGURE 3-16



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)

^{*} Rev. 1/15

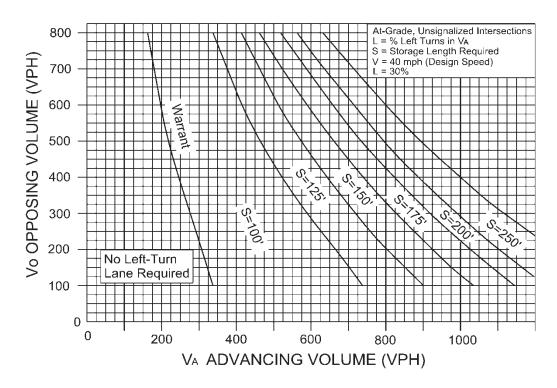


FIGURE 3-9

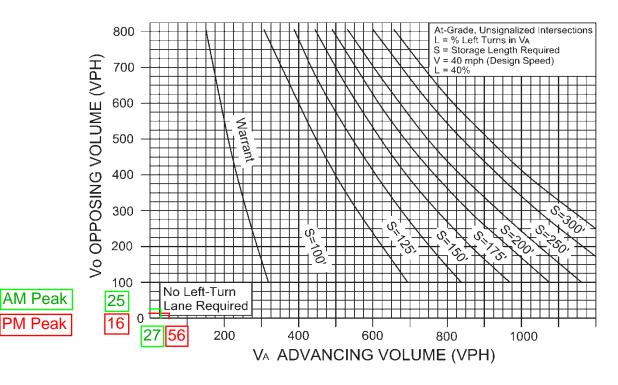


FIGURE 3-10

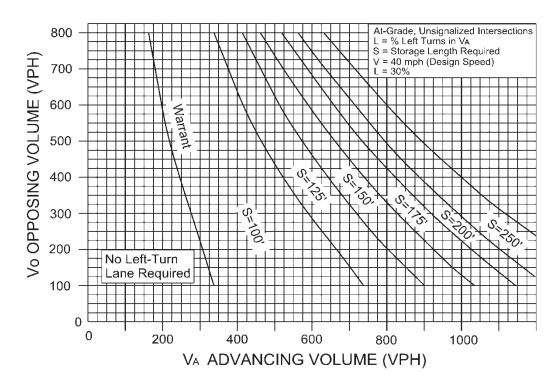


FIGURE 3-9

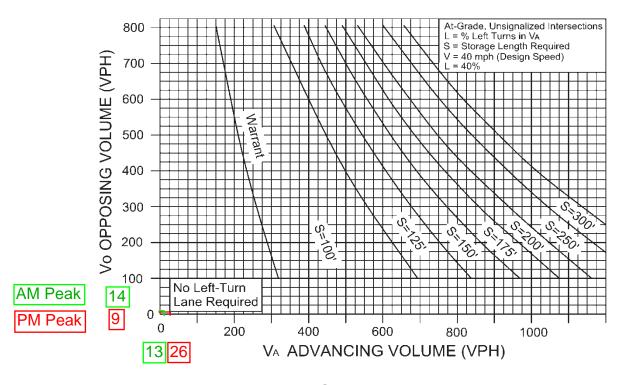


FIGURE 3-10

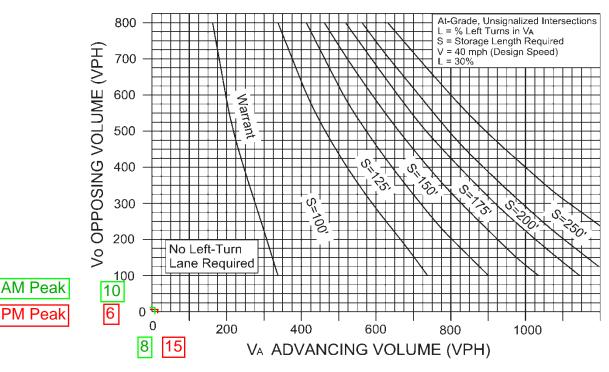


FIGURE 3-9

PM Peak

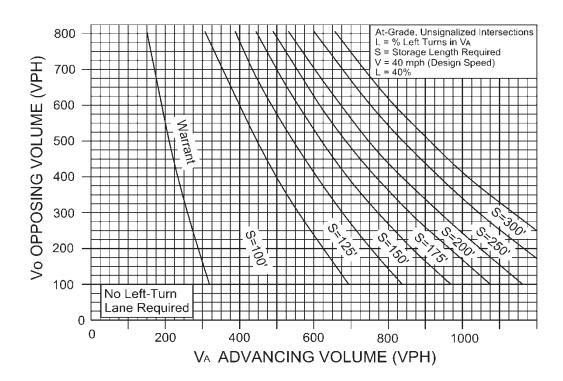


FIGURE 3-10

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	f)		, A	
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	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	5	67	186	1	1	10
Major/Minor	Major1	N	/lajor2	N	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	3.318
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	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.6		0		9.3	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
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		Α	Α	-	-	Α
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ની	₽		W	
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
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	186	67	1	1	5
Major/Minor	Major1	N	Major2	N	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	3.318
Pot Cap-1 Maneuver	1533	-	-	_	716	995
•	1000	-	-	-	955	773
Stage 1	-	-	-	-	955 829	-
Stage 2	-	-	-	-	ŏ29	-
Platoon blocked, %	1522	-	-	-	711	OUE
Mov Cap-1 Maneuver	1533	-	-	-	711	995
Mov Cap-2 Maneuver	-	-	-	-	711	-
Stage 1	-	-	-	-	948	-
Stage 2	-	-	-	-	829	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		8.9	
HCM LOS					Α	
Minor Lane/Major Mvn	nt	EBL	FRT	WBT	WRR	SBI n1
Capacity (veh/h)		1533				933
HCM Lane V/C Ratio		0.006	-	-	-	0.007
	١	7.4	0	-	-	8.9
HCM Control Delay (s HCM Lane LOS	J		0 A	-	-	8.9 A
HCM 95th %tile Q(veh	.)	A 0	А	-	-	A 0
TICIVI 70HT MIHE Q(VEI	IJ	U	-	-	-	U

Intersection						
Int Delay, s/veh	0.5					
3		E 0. T	MOT	WED	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	_	र्स	₽		¥	_
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	Majar1	ĸ	Major?	N.	/liner?	
	Major1		Major2		Minor2	107
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	-	-	-		3.318
Pot Cap-1 Maneuver	1376	-	-	-	712	844
Stage 1	-	-	-	-	836	-
Stage 2	-	-	-	-	942	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1376	-	-	-	709	844
Mov Cap-2 Maneuver	-	-	-	-	709	-
Stage 1	-	-	_	_	833	-
Stage 2	_	_	_	_	942	_
3~ =						
Annragah	ED		WD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0.5		0		9.4	
HCM LOS					Α	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR S	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	'	Α.	A	_	_	Α.
HCM 95th %tile Q(veh)	0	-	_	_	0
110W 75W 70W Q(VCI)	'/	U				U

-						
Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	<u> </u>		NDK	JDL W	אטכ
Traffic Vol, veh/h	9	심 180	1 265	1	'T '	5
Future Vol, veh/h	9	180	65	1 1		5 5
				0	1	0
Conflicting Peds, #/hr	0 Eroo	0 Eroo	0 Eroo		0 Stop	
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	- "	-	-	-	0	-
Veh in Median Storag		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	1	5
Major/Minor	Major1	N	Major2	N	Minor2	
Conflicting Flow All	72	0	-	0	288	72
Stage 1	12	U	-	-	200 72	12
Stage 2	-	-	-		216	
	4.12	-	-	-		6.22
Critical Hdwy	4.12	-	-	-	6.42	
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	-	-	-	-	951	-
Stage 2	-	-	-	-	820	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	697	990
Mov Cap-2 Maneuver	-	-	-	-	697	-
Stage 1	-	-	-	-	944	-
Stage 2	-	-	-	-	820	-
•						
Approach	EB		WB		SB	
HCM Control Delay, s			0		8.9	
HCM LOS	0.4		U		0.9 A	
HOW LOS					А	
					==	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR S	
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		Α	Α	-	-	Α
HCM 95th %tile Q(veh	1)	0	-	-	-	0
•						

Intersection						
Int Delay, s/veh	2.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	f)		, A	
Traffic Vol, veh/h	24	65	180	3	5	48
Future Vol, veh/h	24	65	180	3	5	48
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	26	71	196	3	5	52
Major/Minor	Major1	N	/lajor2	N	Minor2	
Conflicting Flow All	199	0	-	0	321	198
Stage 1	-	_	-	-	198	_
Stage 2	-	-	-	-	123	-
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	-	-	-	673	843
Stage 1	-	-	-	-	835	-
Stage 2	-	-	-	-	902	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1373	-	-	-	660	843
Mov Cap-2 Maneuver	-	-	-	-	660	-
Stage 1	-	-	-	-	818	-
Stage 2	-	-	-	-	902	-
Approach	EB		WB		SB	
HCM Control Delay, s	2.1		0		9.7	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1373	_	_	_	822
HCM Lane V/C Ratio		0.019	_	_	_	0.07
HCM Control Delay (s))	7.7	0	-	-	9.7
HCM Lane LOS		Α	Ā	-	-	Α
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2

Intersection						
Int Delay, s/veh	2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	ĵ.		N/	
Traffic Vol, veh/h	50	180	65	6	4	27
Future Vol, veh/h	50	180	65	6	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	2,# -	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	54	194	70	6	4	29
Major/Minor	Major1	N	Major2	ı	Minor2	
Conflicting Flow All	76	0	viajoi z	0	375	73
Stage 1	70	-		-	73	-
Stage 2					302	_
Critical Hdwy	4.12	_	_	_	6.42	6.22
Critical Hdwy Stg 1	4.12	-	-	-	5.42	0.22
Critical Hdwy Stg 2	-	-	-	-	5.42	-
	2 210	-	-	-	3.518	3.318
Follow-up Hdwy	2.218	-	-	-		
Pot Cap-1 Maneuver	1523	-	-	-	626	989
Stage 1	-	-	-	-	950 750	-
Stage 2	-	-	-	-	750	-
Platoon blocked, %	1500	-	-	-	/01	000
Mov Cap-1 Maneuver	1523	-	-	-	601	989
Mov Cap-2 Maneuver	-	-	-	-	601	-
Stage 1	-	-	-	-	912	-
Stage 2	-	-	-	-	750	-
Approach	EB		WB		SB	
HCM Control Delay, s	1.6		0		9.1	
HCM LOS			-		Α	
Minor Lanc/Major Mar	nt.	EDI	EDT	WDT	WDD	CDI n1
Minor Lane/Major Mvn	IL	EBL	ERI	WBT		
Capacity (veh/h)		1523	-	-	-	913
HCM Cantrol Dalace (a)		0.035	-	-		0.037
				-		9.1
	`		А	-		A
HUNI Y5TN %THE U(veh)	U.T	-	-	-	0.1
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh		7.5 A 0.1	0 A -	- - -	- - -	