

APPENDIX:

**TRAFFIC COUNTS
AND
CAPACITY ANALYSES**

INTERMODAL ENGINEERING, P.C.

3656 E. Stratford Road
Virginia Beach, VA 23455

757-464-4232

intermodalengr@aol.com

Landmark @ Talbot Park cnts

AM counted: 9/23/10

PM counted: 9/23/10

File Name : TalbotPark91027

Site Code : 91027

Start Date : 9/23/2010

Page No : 1

Groups Printed- All Vehicles

	Newport Ave Southbound				Warren St Westbound				Newport Ave Northbound				Warren St Eastbound				Exclu. Total	Inclu. Total	Int. Total
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks			
07:00 AM	0	58	0	14	3	0	9	4	0	55	1	8	0	0	0	0	26	126	152
07:15 AM	2	45	0	5	0	0	3	0	0	79	5	13	0	0	0	0	18	134	152
07:30 AM	6	32	0	3	2	0	8	1	0	32	2	4	0	0	0	0	8	82	90
07:45 AM	4	35	0	3	0	0	8	0	0	39	2	2	0	0	0	0	5	88	93
Total	12	170	0	25	5	0	28	5	0	205	10	27	0	0	0	0	57	430	487
08:00 AM	4	47	0	2	1	0	9	0	0	35	0	2	0	0	1	0	4	97	101
08:15 AM	5	43	0	0	6	0	6	1	0	33	2	2	1	0	0	0	3	96	99
08:30 AM	6	69	0	4	9	0	3	0	0	38	6	1	0	1	0	0	5	132	137
08:45 AM	8	54	0	4	4	0	8	1	0	55	18	7	1	0	1	0	12	149	161
Total	23	213	0	10	20	0	26	2	0	161	26	12	2	1	2	0	24	474	498
04:00 PM	9	45	0	0	2	0	6	1	0	49	3	3	0	0	0	0	4	114	118
04:15 PM	7	35	1	0	5	1	7	0	0	42	3	1	1	0	0	0	1	102	103
04:30 PM	6	49	0	2	2	0	7	1	0	53	3	0	0	0	0	0	3	120	123
04:45 PM	2	48	0	0	4	2	10	0	0	32	1	0	0	0	1	0	0	100	100
Total	24	177	1	2	13	3	30	2	0	176	10	4	1	0	1	0	8	436	444
05:00 PM	4	41	0	0	5	1	8	0	0	33	5	0	0	1	0	0	0	98	98
05:15 PM	5	46	0	2	1	0	4	0	0	44	2	1	0	0	0	0	3	102	105
05:30 PM	3	46	0	1	6	0	6	0	0	36	5	0	0	0	0	0	1	102	103
05:45 PM	8	54	2	0	7	1	12	1	0	38	0	1	0	0	1	0	2	123	125
Total	20	187	2	3	19	2	30	1	0	151	12	2	0	1	1	0	6	425	431
Grand Total	79	747	3	40	57	5	114	10	0	693	58	45	3	2	4	0	95	1765	1860
Apprch %	9.5	90.1	0.4		32.4	2.8	64.8		0	92.3	7.7		33.3	22.2	44.4				
Total %	4.5	42.3	0.2		3.2	0.3	6.5		0	39.3	3.3		0.2	0.1	0.2		5.1	94.9	

	Newport Ave Southbound				Warren St Westbound				Newport Ave Northbound				Warren St Eastbound						
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total			

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 08:00 AM

08:00 AM	4	47	0	51	1	0	9	10	0	35	0	35	0	0	1	1			97
08:15 AM	5	43	0	48	6	0	6	12	0	33	2	35	1	0	0	1			96
08:30 AM	6	69	0	75	9	0	3	12	0	38	6	44	0	1	0	1			132
08:45 AM	8	54	0	62	4	0	8	12	0	55	18	73	1	0	1	2			149
Total Volume	23	213	0	236	20	0	26	46	0	161	26	187	2	1	2	5			474
% App. Total	9.7	90.3	0		43.5	0	56.5		0	86.1	13.9		40	20	40				
PHF	.719	.772	.000	.787	.556	.000	.722	.958	.000	.732	.361	.640	.500	.250	.500	.625			.795

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:00 PM

04:00 PM	9	45	0	54	2	0	6	8	0	49	3	52	0	0	0	0			114
04:15 PM	7	35	1	43	5	1	7	13	0	42	3	45	1	0	0	1			102
04:30 PM	6	49	0	55	2	0	7	9	0	53	3	56	0	0	0	0			120
04:45 PM	2	48	0	50	4	2	10	16	0	32	1	33	0	0	1	1			100
Total Volume	24	177	1	202	13	3	30	46	0	176	10	186	1	0	1	2			436
% App. Total	11.9	87.6	0.5		28.3	6.5	65.2		0	94.6	5.4		50	0	50				
PHF	.667	.903	.250	.918	.650	.375	.750	.719	.000	.830	.833	.830	.250	.000	.250	.500			.908

INTERMODAL ENGINEERING, P.C.

3656 E. Stratford Road
Virginia Beach, VA 23455

757-464-4232

intermodalengr@aol.com

Landmark @ Talbot Park cnts

AM counted: 9/23/10

PM counted: 9/23/10

File Name : talbotpark91028

Site Code : 91028

Start Date : 9/23/2010

Page No : 1

Groups Printed- All Vehicles

	Newport Ave Southbound				Harvard St Westbound				Newport Ave Northbound				Harvard St Eastbound				Exclu. Total	Inclu. Total	Int. Total
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks			
07:00 AM	26	31	1	17	7	0	9	12	1	43	20	11	4	4	6	0	40	152	192
07:15 AM	10	33	3	5	6	0	13	14	2	63	5	5	4	0	0	0	24	139	163
07:30 AM	1	31	2	2	1	0	3	3	0	24	0	2	5	0	1	0	7	68	75
07:45 AM	2	34	1	3	1	0	0	0	1	31	3	1	9	0	2	0	4	84	88
Total	39	129	7	27	15	0	25	29	4	161	28	19	22	4	9	0	75	443	518
08:00 AM	0	45	5	2	0	0	1	0	1	34	1	1	0	0	5	0	3	92	95
08:15 AM	1	45	4	0	0	0	0	0	3	31	2	3	6	0	2	0	3	94	97
08:30 AM	1	83	2	3	0	0	0	0	0	37	5	2	1	1	2	0	5	132	137
08:45 AM	2	59	4	2	0	0	2	1	4	63	2	4	4	1	4	0	7	145	152
Total	4	232	15	7	0	0	3	1	8	165	10	10	11	2	13	0	18	463	481
04:00 PM	3	37	2	0	0	1	3	2	5	41	4	1	3	0	1	0	3	100	103
04:15 PM	3	34	5	0	4	0	1	0	4	42	7	1	8	1	1	0	1	110	111
04:30 PM	1	44	8	3	1	0	2	1	3	48	8	0	3	0	3	0	4	121	125
04:45 PM	3	40	8	0	2	0	2	0	2	28	7	0	0	0	1	0	0	93	93
Total	10	155	23	3	7	1	8	3	14	159	26	2	14	1	6	0	8	424	432
05:00 PM	0	40	1	0	3	0	1	1	2	36	2	0	3	1	2	0	1	91	92
05:15 PM	0	45	5	2	2	0	2	0	1	42	3	1	3	1	1	0	3	105	108
05:30 PM	4	45	4	1	2	0	2	0	5	32	1	0	5	1	2	1	2	103	105
05:45 PM	1	49	9	0	1	0	3	0	6	35	1	0	3	0	1	0	0	109	109
Total	5	179	19	3	8	0	8	1	14	145	7	1	14	3	6	1	6	408	414
Grand Total	58	695	64	40	30	1	44	34	40	630	71	32	61	10	34	1	107	1738	1845
Apprch %	7.1	85.1	7.8		40	1.3	58.7		5.4	85	9.6		58.1	9.5	32.4				
Total %	3.3	40	3.7		1.7	0.1	2.5		2.3	36.2	4.1		3.5	0.6	2		5.8	94.2	

	Newport Ave Southbound				Harvard St Westbound				Newport Ave Northbound				Harvard St Eastbound						
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total			

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 08:00 AM

08:00 AM	0	45	5	50	0	0	1	1	1	34	1	36	0	0	5	5			92
08:15 AM	1	45	4	50	0	0	0	0	3	31	2	36	6	0	2	8			94
08:30 AM	1	83	2	86	0	0	0	0	0	37	5	42	1	1	2	4			132
08:45 AM	2	59	4	65	0	0	2	2	4	63	2	69	4	1	4	9			145
Total Volume	4	232	15	251	0	0	3	3	8	165	10	183	11	2	13	26			463
% App. Total	1.6	92.4	6		0	0	100		4.4	90.2	5.5		42.3	7.7	50				
PHF	.500	.699	.750	.730	.000	.000	.375	.375	.500	.655	.500	.663	.458	.500	.650	.722			.798

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:00 PM

04:00 PM	3	37	2	42	0	1	3	4	5	41	4	50	3	0	1	4			100
04:15 PM	3	34	5	42	4	0	1	5	4	42	7	53	8	1	1	10			110
04:30 PM	1	44	8	53	1	0	2	3	3	48	8	59	3	0	3	6			121
04:45 PM	3	40	8	51	2	0	2	4	2	28	7	37	0	0	1	1			93
Total Volume	10	155	23	188	7	1	8	16	14	159	26	199	14	1	6	21			424
% App. Total	5.3	82.4	12.2		43.8	6.2	50		7	79.9	13.1		66.7	4.8	28.6				
PHF	.833	.881	.719	.887	.438	.250	.667	.800	.700	.828	.813	.843	.438	.250	.500	.525			.876

INTERMODAL ENGINEERING, P.C.

3656 E. Stratford Road
Virginia Beach, VA 23455

757-464-4232

intermodallengr@aol.com

Landmark @ Talbot Park cnts

AM counted: 9/23/10

PM counted: 9/23/10

File Name : TalbotPark91028alley

Site Code : 91028

Start Date : 9/23/2010

Page No : 1

Groups Printed- Alley count

	Newport Ave Southbound				Westbound				Newport Ave Northbound				alley Eastbound						
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
07:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3	3
07:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	4
Total	0	0	3	0	0	0	0	0	1	0	0	0	1	0	3	0	0	8	8
08:15 AM	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	2
08:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
Total	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	4	4
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
04:15 PM	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3	3
04:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2
Total	0	0	2	0	0	0	0	0	2	0	0	0	1	0	1	0	0	6	6
05:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2
05:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2
Total	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4	4
Grand Total	0	0	9	0	0	0	0	0	4	0	0	0	5	0	4	0	0	22	22
Apprch %	0	0	100		0	0	0		100	0	0		55.6	0	44.4				
Total %	0	0	40.9		0	0	0		18.2	0	0		22.7	0	18.2		0	100	

	Newport Ave Southbound				Westbound				Newport Ave Northbound				alley Eastbound						
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total		
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																			
Peak Hour for Entire Intersection Begins at 07:00 AM																			
07:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	
07:15 AM	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	2	2	3	
07:30 AM	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	2	4		
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	3	3	0	0	0	0	1	0	0	1	1	0	3	4	8		
% App. Total	0	0	100		0	0	0		100	0	0		25	0	75				
PHF	.000	.000	.375	.375	.000	.000	.000	.000	.250	.000	.000	.250	.250	.000	.375	.500	.500		

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:00 PM

04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1		
04:15 PM	0	0	1	1	0	0	0	0	2	0	0	2	0	0	0	0	3		
04:30 PM	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	2		
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Volume	0	0	2	2	0	0	0	0	2	0	0	2	1	0	1	2	6		
% App. Total	0	0	100		0	0	0		100	0	0		50	0	50				
PHF	.000	.000	.500	.500	.000	.000	.000	.000	.250	.000	.000	.250	.250	.000	.250	.500	.500		

INTERMODAL ENGINEERING, P.C.

3656 E Stratford Road
Virginia Beach, VA 23455
757-464-5129

Site Code: 91026

Station ID:

Newport Ave NB

N or Warren

Latitude: 0' 0.000 Undefined

NB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
9/28/10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	7	20	33	80	57	15	1	0	0	0	0	0	0	0	213	26-35	137
17:00	7	49	35	84	57	10	0	0	0	0	0	0	0	0	242	26-35	141
18:00	7	20	23	60	52	6	1	1	0	0	0	0	0	0	170	26-35	112
19:00	2	6	21	40	43	2	0	0	0	0	0	0	0	0	114	26-35	83
20:00	5	3	8	47	26	1	0	0	0	0	0	0	0	0	90	26-35	73
21:00	1	0	5	30	15	5	0	0	0	0	0	0	0	0	56	26-35	45
22:00	2	1	5	13	18	1	1	0	0	0	0	0	0	0	41	26-35	31
23:00	0	0	6	16	7	3	1	0	0	0	0	0	0	0	33	23-32	24
Total	31	99	136	370	275	43	4	1	0	0	0	0	0	0	959		
Percent	3.2%	10.3%	14.2%	38.6%	28.7%	4.5%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	16:00 7	17:00 49	17:00 35	17:00 84	16:00 57	16:00 15	16:00 1	18:00 1							17:00 242		

INTERMODAL ENGINEERING, P.C.

3656 E Stratford Road
Virginia Beach, VA 23455
757-464-5129

Site Code: 91026

Station ID:

Newport Ave NB

N or Warren

Latitude: 0' 0.000 Undefined

NB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
9/29/10	0	0	2	3	0	3	0	0	0	0	0	0	0	0	8	19-28	5
01:00	0	0	3	3	0	0	0	0	0	0	0	0	0	0	6	19-28	6
02:00	0	1	0	5	2	0	0	0	0	0	0	0	0	0	8	23-32	7
03:00	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3	23-32	3
04:00	1	1	0	1	0	1	0	0	0	0	0	0	0	0	4	7-16	2
05:00	0	0	2	12	12	4	0	0	0	0	0	0	0	0	30	26-35	24
06:00	4	7	13	20	17	6	0	0	0	0	0	0	0	0	67	23-32	37
07:00	6	18	48	102	49	6	2	0	0	0	0	0	0	0	231	23-32	152
08:00	5	16	24	80	49	15	0	0	0	0	0	0	0	0	189	26-35	129
09:00	3	19	29	48	45	8	0	0	0	0	0	0	0	0	152	26-35	93
10:00	3	16	17	40	34	5	0	0	0	0	0	0	0	0	115	26-35	74
11:00	2	12	25	39	38	6	0	0	0	0	0	0	0	0	122	26-35	77
12 PM	4	9	23	42	26	17	3	0	0	0	0	0	0	0	124	23-32	68
13:00	1	8	12	42	27	9	0	0	0	0	0	0	0	0	99	26-35	69
14:00	6	20	34	88	47	10	2	0	0	0	0	0	0	0	207	26-35	135
15:00	2	20	47	124	43	11	0	0	0	0	0	0	0	0	247	21-30	171
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	37	147	279	650	391	101	7	0	0	0	0	0	0	0	1612		
Percent	2.3%	9.1%	17.3%	40.3%	24.3%	6.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	09:00	07:00	07:00	07:00	08:00	07:00									07:00	
Vol.	6	19	48	102	49	15	2									231	
PM Peak	14:00	14:00	15:00	15:00	14:00	12:00	12:00									15:00	
Vol.	6	20	47	124	47	17	3									247	
Total	68	246	415	1020	666	144	11	1	0	0	0	0	0	0	2571		
Percent	2.6%	9.6%	16.1%	39.7%	25.9%	5.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 21 MPH
50th Percentile : 28 MPH
85th Percentile : 34 MPH
95th Percentile : 36 MPH

Stats
10 MPH Pace Speed : 26-35 MPH
Number in Pace : 1686
Percent in Pace : 65.6%
Number of Vehicles > 25 MPH : 1842
Percent of Vehicles > 25 MPH : 71.6%
Mean Speed(Average) : 28 MPH

INTERMODAL ENGINEERING, P.C.

3656 E Stratford Road
Virginia Beach, VA 23455
757-464-5129

Site Code: 91026

Station ID:

Newport Ave

N of Warren

Latitude: 0' 0.000 Undefined

SB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
9/28/10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	5	26	13	65	65	12	3	0	0	0	0	0	0	0	189	26-35	130
17:00	1	36	38	66	51	15	1	0	0	0	0	0	0	0	208	26-35	117
18:00	10	32	24	54	48	9	1	0	0	0	0	0	0	0	178	26-35	102
19:00	5	14	16	44	27	6	0	0	0	0	0	0	0	0	112	26-35	71
20:00	5	11	12	38	30	4	0	0	0	0	0	0	0	0	100	26-35	68
21:00	1	7	3	41	23	6	0	0	0	0	0	0	0	0	81	26-35	64
22:00	0	0	3	17	12	2	0	0	0	0	0	0	0	0	34	26-35	29
23:00	0	0	3	22	4	1	0	0	0	0	0	0	0	0	30	23-32	27
Total	27	126	112	347	260	55	5	0	0	0	0	0	0	0	932		
Percent	2.9%	13.5%	12.0%	37.2%	27.9%	5.9%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	18:00 10	17:00 36	17:00 38	17:00 66	16:00 65	17:00 15	16:00 3								17:00 208		

INTERMODAL ENGINEERING, P.C.

3656 E Stratford Road
Virginia Beach, VA 23455
757-464-5129

Site Code: 91026

Station ID:

Newport Ave

N of Warren

Latitude: 0' 0.000 Undefined

SB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
9/29/10	0	0	1	6	5	1	1	0	0	0	0	0	0	0	14	25-34	11
01:00	0	0	1	4	4	0	0	0	0	0	0	0	0	0	9	25-34	9
02:00	0	0	2	2	2	0	0	0	0	0	0	0	0	0	6	23-32	6
03:00	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	7-16	1
04:00	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	17-26	1
05:00	1	1	0	6	8	0	0	0	0	0	0	0	0	0	16	26-35	14
06:00	1	4	10	34	16	5	0	0	0	0	0	0	0	0	70	26-35	50
07:00	3	7	22	91	57	12	4	0	0	0	0	0	0	0	196	26-35	148
08:00	3	14	45	112	63	7	3	0	0	0	0	0	0	0	247	26-35	175
09:00	2	7	19	46	34	6	0	0	0	0	0	0	0	0	114	26-35	80
10:00	2	12	13	29	32	10	0	0	0	0	0	0	0	0	98	26-35	61
11:00	5	16	13	42	26	7	0	1	0	0	0	0	0	0	110	26-35	68
12 PM	2	13	11	45	29	7	1	0	0	0	0	0	0	0	108	26-35	74
13:00	3	11	11	37	44	12	1	0	0	0	0	0	0	0	119	26-35	81
14:00	9	15	11	63	44	7	1	1	0	0	0	0	0	0	151	26-35	107
15:00	10	15	29	86	46	10	0	0	0	0	0	0	0	0	196	26-35	132
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	41	116	188	605	410	84	11	2	1	0	0	0	0	0	1458		
Percent	2.8%	8.0%	12.9%	41.5%	28.1%	5.8%	0.8%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	11:00	08:00	08:00	08:00	07:00	07:00	11:00	04:00						08:00		
Vol.	5	16	45	112	63	12	4	1	1						247		
PM Peak	15:00	14:00	15:00	15:00	15:00	13:00	12:00	14:00							15:00		
Vol.	10	15	29	86	46	12	1	1							196		
Total	68	242	300	952	670	139	16	2	1	0	0	0	0	0	2390		
Percent	2.8%	10.1%	12.6%	39.8%	28.0%	5.8%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 21 MPH
50th Percentile : 29 MPH
85th Percentile : 34 MPH
95th Percentile : 37 MPH

Stats 10 MPH Pace Speed : 26-35 MPH
Number in Pace : 1622
Percent in Pace : 67.9%
Number of Vehicles > 25 MPH : 1780
Percent of Vehicles > 25 MPH : 74.5%
Mean Speed(Average) : 28 MPH

INTERMODAL ENGINEERING, P.C.

3656 E Stratford Road
Virginia Beach, VA 23455
757-464-5129

Page 1

Site Code: 91021
Station ID:
Warren St
E of Newport
Latitude: 0' 0.000 Undefined

Start Time	20-Sep-10		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	*	*	*	*	2	6	1	6	4	6	*	*	*	*	2	6
01:00	*	*	*	*	2	1	3	1	3	1	*	*	*	*	3	1
02:00	*	*	*	*	2	1	1	4	2	2	*	*	*	*	2	2
03:00	*	*	*	*	1	1	2	1	2	3	*	*	*	*	2	2
04:00	*	*	*	*	1	1	4	1	4	2	*	*	*	*	3	1
05:00	*	*	*	*	5	8	6	6	4	7	*	*	*	*	5	7
06:00	*	*	*	*	19	22	15	18	13	25	*	*	*	*	16	22
07:00	*	*	*	*	31	47	28	41	25	45	*	*	*	*	28	44
08:00	*	*	*	*	32	32	47	44	45	36	*	*	*	*	41	37
09:00	*	*	*	*	34	34	42	35	33	37	*	*	*	*	36	35
10:00	*	*	*	*	23	38	23	38	26	29	*	*	*	*	24	35
11:00	*	*	*	*	27	26	32	30	22	32	*	*	*	*	27	29
12:00 PM	*	*	31	25	23	19	25	24	*	*	*	*	*	*	26	23
01:00	*	*	23	29	20	32	27	34	*	*	*	*	*	*	23	32
02:00	*	*	33	40	28	37	38	36	*	*	*	*	*	*	33	38
03:00	*	*	51	33	46	47	40	52	*	*	*	*	*	*	46	44
04:00	*	*	30	46	41	60	35	44	*	*	*	*	*	*	35	50
05:00	*	*	37	65	36	58	27	53	*	*	*	*	*	*	33	59
06:00	*	*	32	53	34	42	32	53	*	*	*	*	*	*	33	49
07:00	*	*	33	26	29	28	47	19	*	*	*	*	*	*	36	24
08:00	*	*	10	22	25	27	16	31	*	*	*	*	*	*	17	27
09:00	*	*	12	28	15	27	21	32	*	*	*	*	*	*	16	29
10:00	*	*	11	18	8	19	7	19	*	*	*	*	*	*	9	19
11:00	*	*	5	11	9	10	4	12	*	*	*	*	*	*	6	11
Lane	0	0	308	396	493	623	523	634	183	225	0	0	0	0	502	626
Day	0		704		1116		1157		408		0		0		1128	
AM Peak					09:00	07:00	08:00	08:00	08:00	07:00					08:00	07:00
Vol.					34	47	47	44	45	45					41	44
PM Peak			15:00	17:00	15:00	16:00	19:00	17:00							15:00	17:00
Vol.			51	65	46	60	47	53							46	59

Comb. Total	0	704	1116	1157	408	0	0	1128
-------------	---	-----	------	------	-----	---	---	------

ADT	ADT 1,136	AADT 1,136
-----	-----------	------------

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

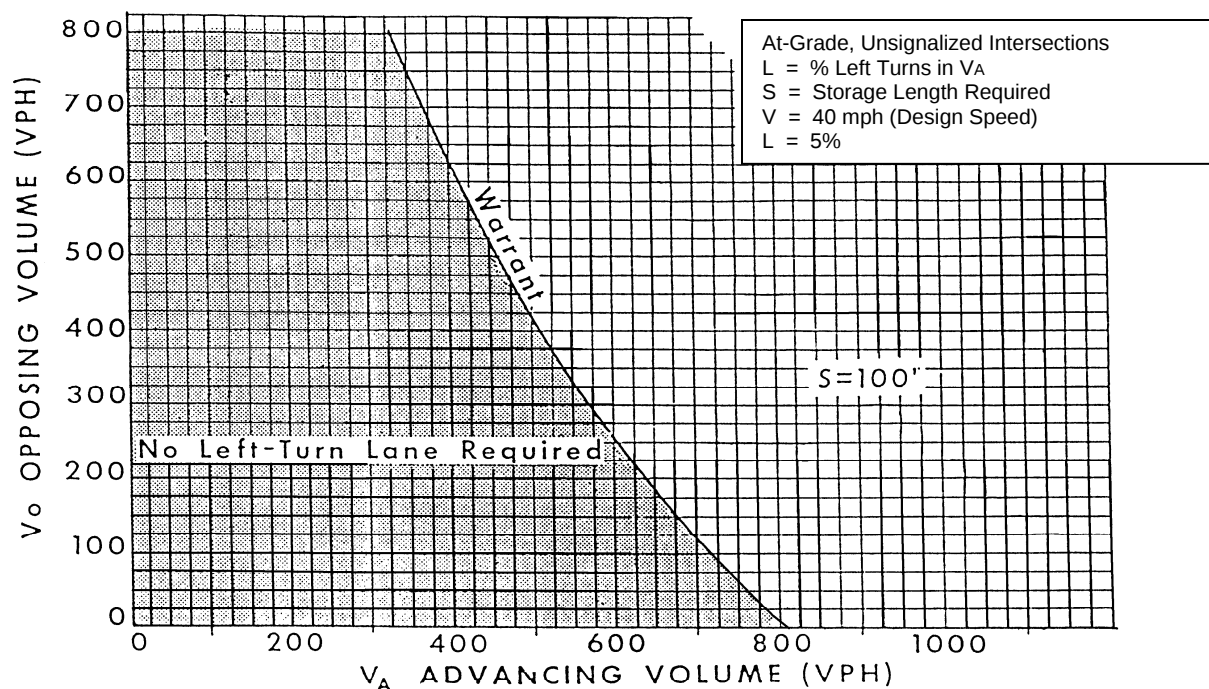


FIGURE 3-4

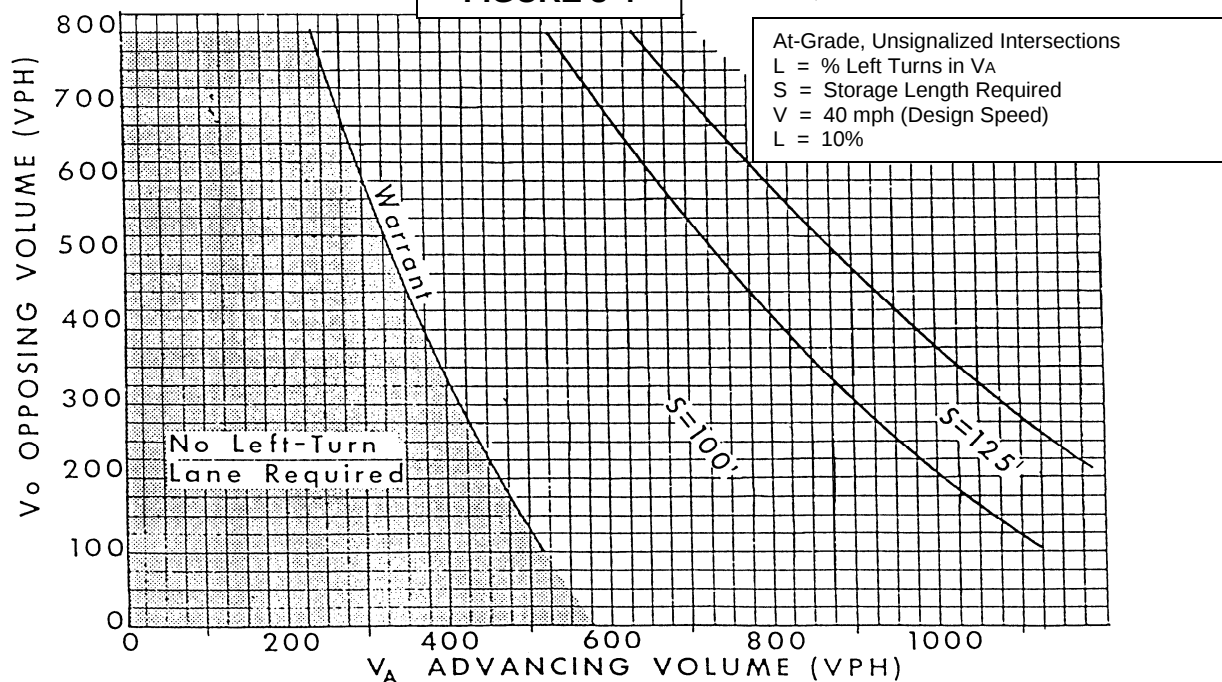
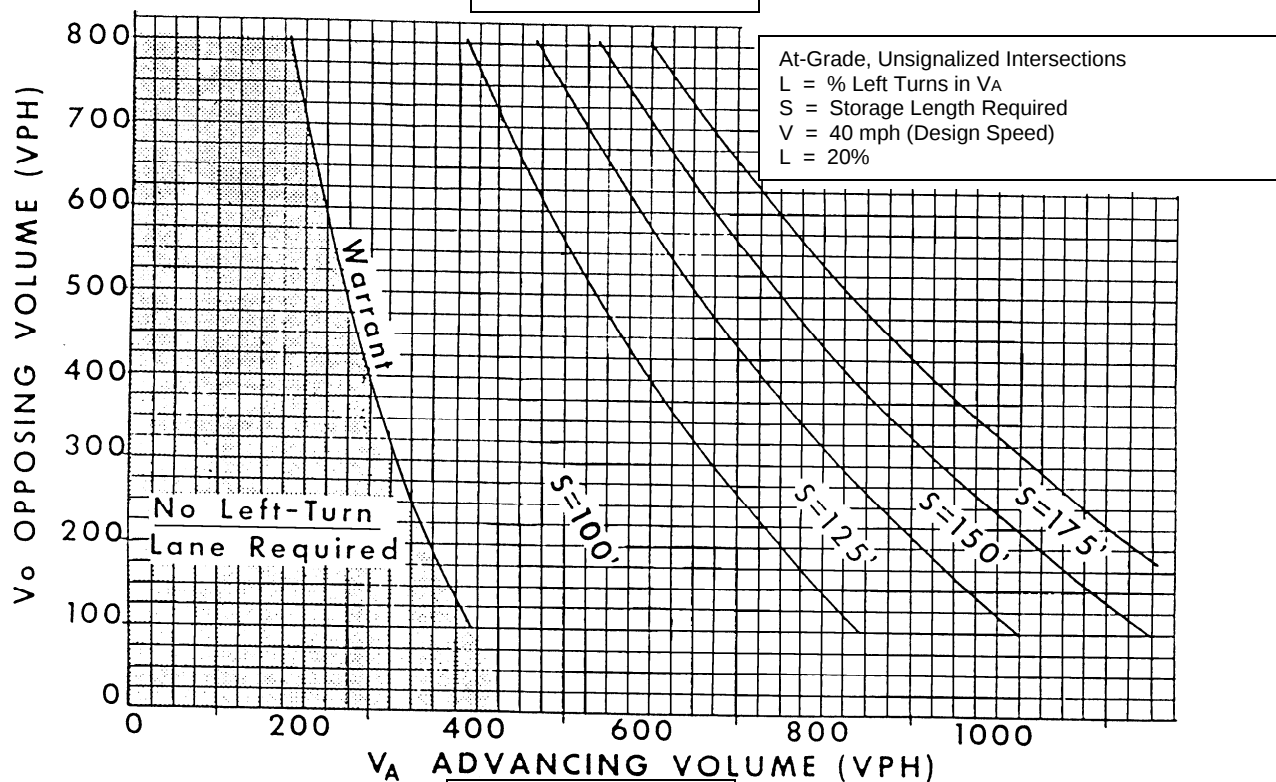
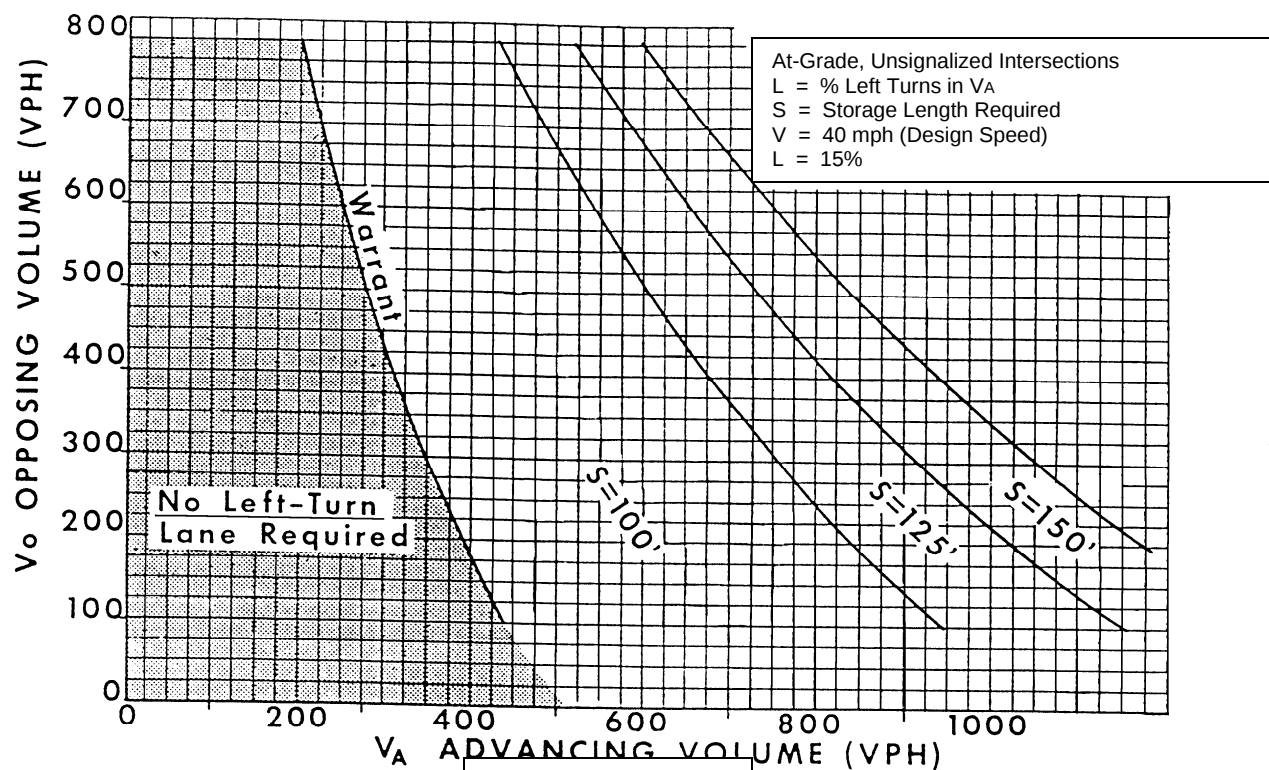
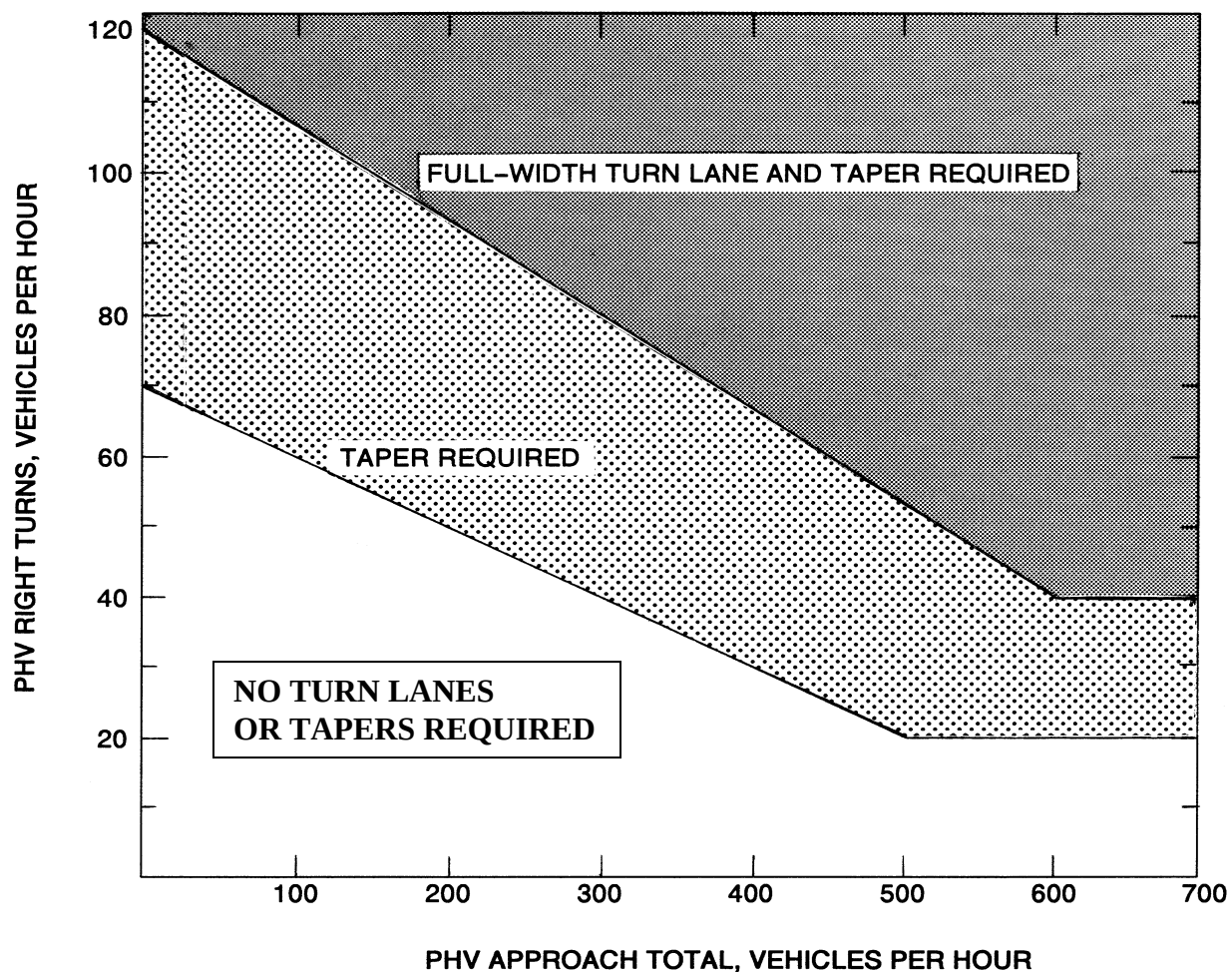


FIGURE 3-5

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





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: $PHV = ADT \times K \times D$

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.

FIGURE 3-23 GUIDELINES FOR RIGHT TURN TREATMENT (2-LANE HIGHWAY)

THE LANDMARK AT TALBOT PARK

1: Warren St & Newport Avenue

10/4/2010

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	1	0	1	13	3	30	0	176	10	24	177	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	1	0	1	14	3	33	0	191	11	26	192	1
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
vC, conflicting volume	476	447	193	443	442	197	193			202		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	97	99	96	100			98		
cM capacity (veh/h)	471	497	849	517	500	844	1380			1370		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	2	50	202	220								
Volume Left	1	14	0	26								
Volume Right	1	33	11	1								
cSH	605	690	1380	1370								
Volume to Capacity	0.00	0.07	0.00	0.02								
Queue Length (ft)	0	6	0	1								
Control Delay (s)	11.0	10.6	0.0	1.1								
Lane LOS	B	B		A								
Approach Delay (s)	11.0	10.6	0.0	1.1								
Approach LOS	B	B										
Intersection Summary												
Average Delay				1.7								
Intersection Capacity Utilization				28.0%	ICU Level of Service			A				

THE LANDMARK AT TALBOT PARK

2: Harvard St & Newport Avenue

10/4/2010

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Volume (veh/h)	14	1	6	7	1	8	14	159	26	10	155	23
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	15	1	7	8	1	9	15	173	28	11	168	25
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	23	17	216	204								
Volume Left (vph)	15	8	15	11								
Volume Right (vph)	7	9	28	25								
Hadj (s)	0.0	-0.2	0.0	0.0								
Departure Headway (s)	4.8	4.6	4.2	4.2								
Degree Utilization, x	0.03	0.02	0.25	0.24								
Capacity (veh/h)	690	712	846	849								
Control Delay (s)	7.9	7.7	8.5	8.5								
Approach Delay (s)	7.9	7.7	8.5	8.5								
Approach LOS	A	A	A	A								
Intersection Summary												
Delay				8.4								
HCM Level of Service				A								
Intersection Capacity Utilization				24.5%	ICU Level of Service	A						

THE LANDMARK AT TALBOT PARK

1: Warren St & Newport Avenue

10/4/2010

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	1	0	1	13	3	30	0	176	10	24	177	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	1	0	1	14	3	33	0	191	11	26	192	1
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
vC, conflicting volume	476	447	193	443	442	197	193			202		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	97	99	96	100			98		
cM capacity (veh/h)	471	497	849	517	500	844	1380			1370		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	2	50	202	220								
Volume Left	1	14	0	26								
Volume Right	1	33	11	1								
cSH	605	690	1380	1370								
Volume to Capacity	0.00	0.07	0.00	0.02								
Queue Length (ft)	0	6	0	1								
Control Delay (s)	11.0	10.6	0.0	1.1								
Lane LOS	B	B		A								
Approach Delay (s)	11.0	10.6	0.0	1.1								
Approach LOS	B	B										
Intersection Summary												
Average Delay				1.7								
Intersection Capacity Utilization				28.0%	ICU Level of Service			A				

THE LANDMARK AT TALBOT PARK

2: Harvard St & Newport Avenue

10/4/2010

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Volume (veh/h)	14	1	6	7	1	8	14	159	26	10	155	23
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	15	1	7	8	1	9	15	173	28	11	168	25
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	23	17	216	204								
Volume Left (vph)	15	8	15	11								
Volume Right (vph)	7	9	28	25								
Hadj (s)	0.0	-0.2	0.0	0.0								
Departure Headway (s)	4.8	4.6	4.2	4.2								
Degree Utilization, x	0.03	0.02	0.25	0.24								
Capacity (veh/h)	690	712	846	849								
Control Delay (s)	7.9	7.7	8.5	8.5								
Approach Delay (s)	7.9	7.7	8.5	8.5								
Approach LOS	A	A	A	A								
Intersection Summary												
Delay			8.4									
HCM Level of Service			A									
Intersection Capacity Utilization			24.5%		ICU Level of Service					A		

THE LANDMARK AT TALBOT PARK

1: N Entrance & Newport Avenue

10/4/2010

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	47	6	27	20	2	26	4	172	28	23	204	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	51	7	29	22	2	28	4	187	30	25	222	16
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None			None								
Median storage (veh)												
vC, conflicting volume	520	506	230	523	499	202	238			217		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	88	99	96	95	100	97	100			98		
cM capacity (veh/h)	442	459	809	435	463	839	1329			1352		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	87	52	222	263								
Volume Left	51	22	4	25								
Volume Right	29	28	30	16								
cSH	524	591	1329	1352								
Volume to Capacity	0.17	0.09	0.00	0.02								
Queue Length (ft)	15	7	0	1								
Control Delay (s)	13.2	11.7	0.2	0.9								
Lane LOS	B	B	A	A								
Approach Delay (s)	13.2	11.7	0.2	0.9								
Approach LOS	B	B										
Intersection Summary												
Average Delay			3.3									
Intersection Capacity Utilization		40.0%		ICU Level of Service						A		

THE LANDMARK AT TALBOT PARK
2: Harvard Street & Newport Avenue

10/4/2010

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	0	3	208	10	4	265
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	0	3	226	11	4	288
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage (veh)						
vC, conflicting volume	528	232			237	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	509	808			1330	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	3	237	292			
Volume Left	0	0	4			
Volume Right	3	11	0			
cSH	808	1700	1330			
Volume to Capacity	0.00	0.14	0.00			
Queue Length (ft)	0	0	0			
Control Delay (s)	9.5	0.0	0.1			
Lane LOS	A		A			
Approach Delay (s)	9.5	0.0	0.1			
Approach LOS	A					
Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utilization		26.3%		ICU Level of Service		A

THE LANDMARK AT TALBOT PARK

3: S Entrance & Newport Avenue

10/4/2010

						
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	24	50	9	168	257	8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	26	54	10	183	279	9
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage (veh)						
vC, conflicting volume	486	284	288			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	95	93	99			
cM capacity (veh/h)	536	755	1274			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	80	192	288			
Volume Left	26	10	0			
Volume Right	54	0	9			
cSH	667	1274	1700			
Volume to Capacity	0.12	0.01	0.17			
Queue Length (ft)	10	1	0			
Control Delay (s)	11.1	0.5	0.0			
Lane LOS	B	A				
Approach Delay (s)	11.1	0.5	0.0			
Approach LOS	B					
Intersection Summary						
Average Delay			1.8			
Intersection Capacity Utilization		26.7%		ICU Level of Service		A

THE LANDMARK AT TALBOT PARK

1: N Entrance & Newport Avenue

10/4/2010

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	35	3	9	14	9	30	17	178	10	23	182	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	38	3	10	15	10	33	18	193	11	25	198	64
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None			None								
Median storage (veh)												
vC, conflicting volume	553	521	230	527	548	199	262			204		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	91	99	99	97	98	96	99			98		
cM capacity (veh/h)	409	445	809	442	430	842	1302			1367		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	51	58	223	287								
Volume Left	38	15	18	25								
Volume Right	10	33	11	64								
cSH	454	601	1302	1367								
Volume to Capacity	0.11	0.10	0.01	0.02								
Queue Length (ft)	9	8	1	1								
Control Delay (s)	13.9	11.6	0.8	0.8								
Lane LOS	B	B	A	A								
Approach Delay (s)	13.9	11.6	0.8	0.8								
Approach LOS	B	B										
Intersection Summary												
Average Delay			2.9									
Intersection Capacity Utilization			34.6%		ICU Level of Service					A		

THE LANDMARK AT TALBOT PARK
2: Harvard Street & Newport Avenue

10/4/2010

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	7	8	167	26	10	186
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	8	9	182	28	11	202
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage (veh)						
vC, conflicting volume	420	196			210	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	99			99	
cM capacity (veh/h)	586	846			1361	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	16	210	213			
Volume Left	8	0	11			
Volume Right	9	28	0			
cSH	700	1700	1361			
Volume to Capacity	0.02	0.12	0.01			
Queue Length (ft)	2	0	1			
Control Delay (s)	10.3	0.0	0.5			
Lane LOS	B		A			
Approach Delay (s)	10.3	0.0	0.5			
Approach LOS	B					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utilization		23.0%		ICU Level of Service		A

THE LANDMARK AT TALBOT PARK

3: S Entrance & Newport Avenue

10/4/2010

						
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	18	15	34	175	163	30
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	20	16	37	190	177	33
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage (veh)						
vC, conflicting volume	458	193	210			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	96	98	97			
cM capacity (veh/h)	546	848	1361			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	36	227	210			
Volume Left	20	37	0			
Volume Right	16	0	33			
cSH	651	1361	1700			
Volume to Capacity	0.06	0.03	0.12			
Queue Length (ft)	4	2	0			
Control Delay (s)	10.8	1.5	0.0			
Lane LOS	B	A				
Approach Delay (s)	10.8	1.5	0.0			
Approach LOS	B					
Intersection Summary						
Average Delay			1.5			
Intersection Capacity Utilization		36.1%		ICU Level of Service		A