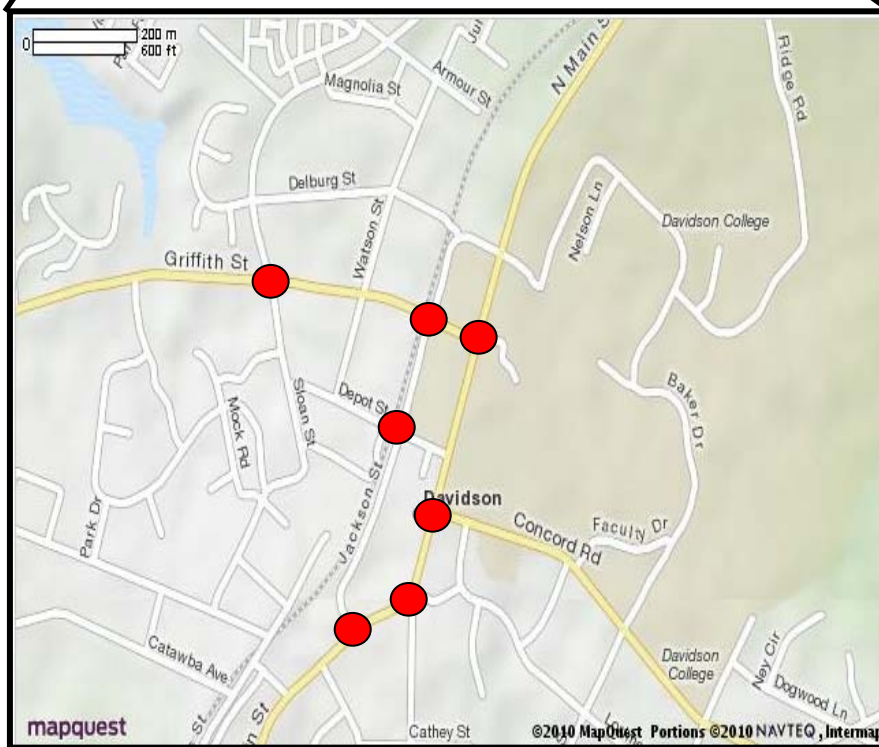
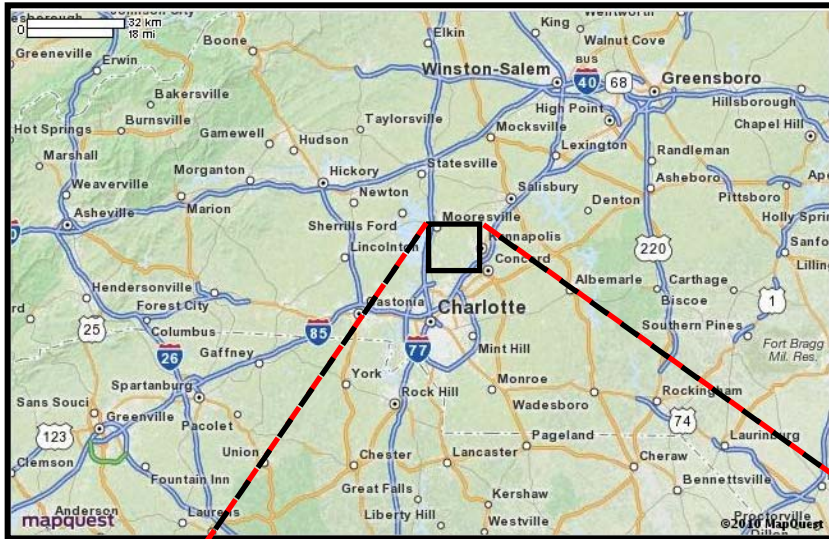


Appendix A – Figures



Not To Scale



Legend

● = Study Area Intersection



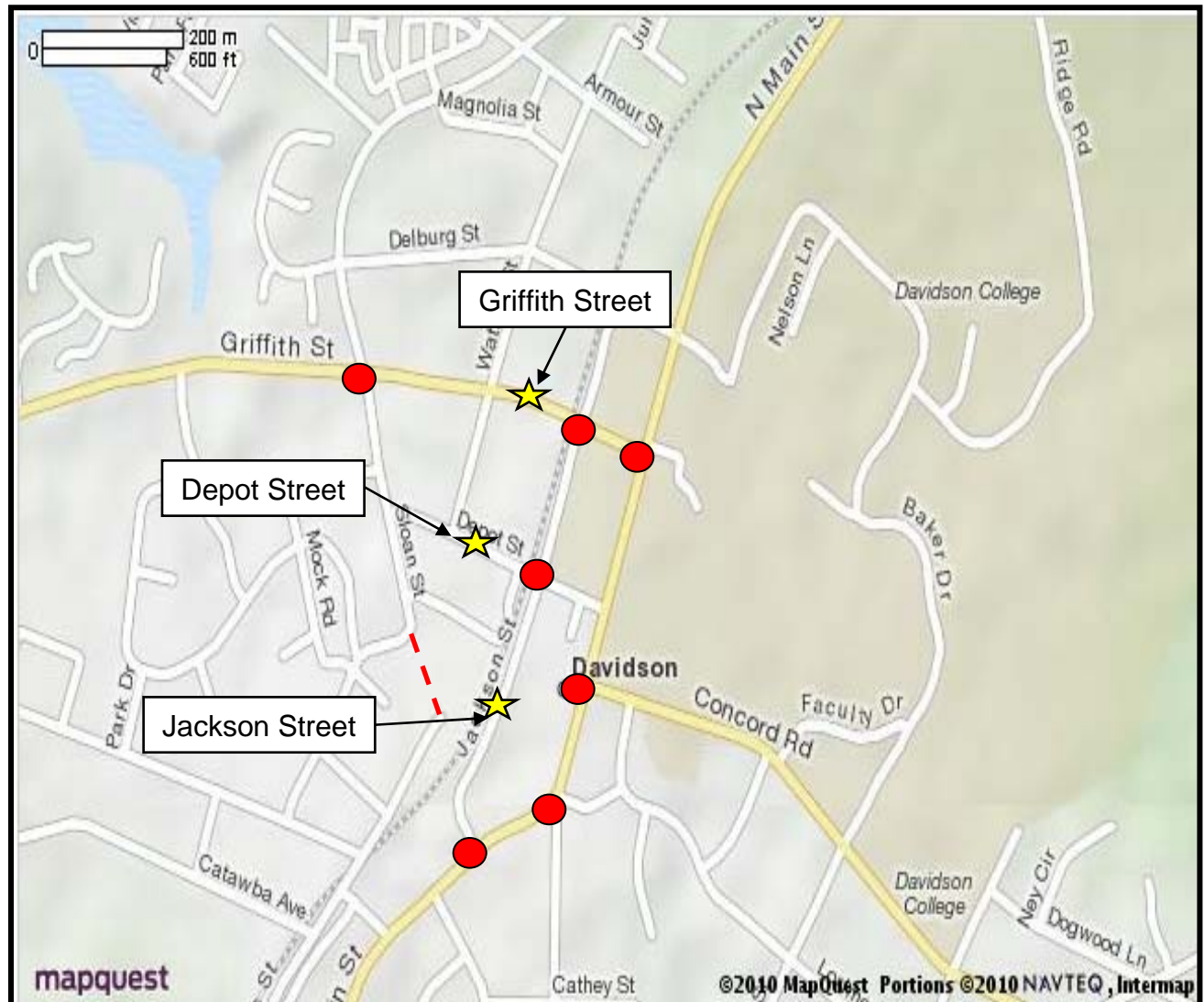
Town of Davidson Parking Study

Site Location Map




Figure 1



Not To Scale



Legend

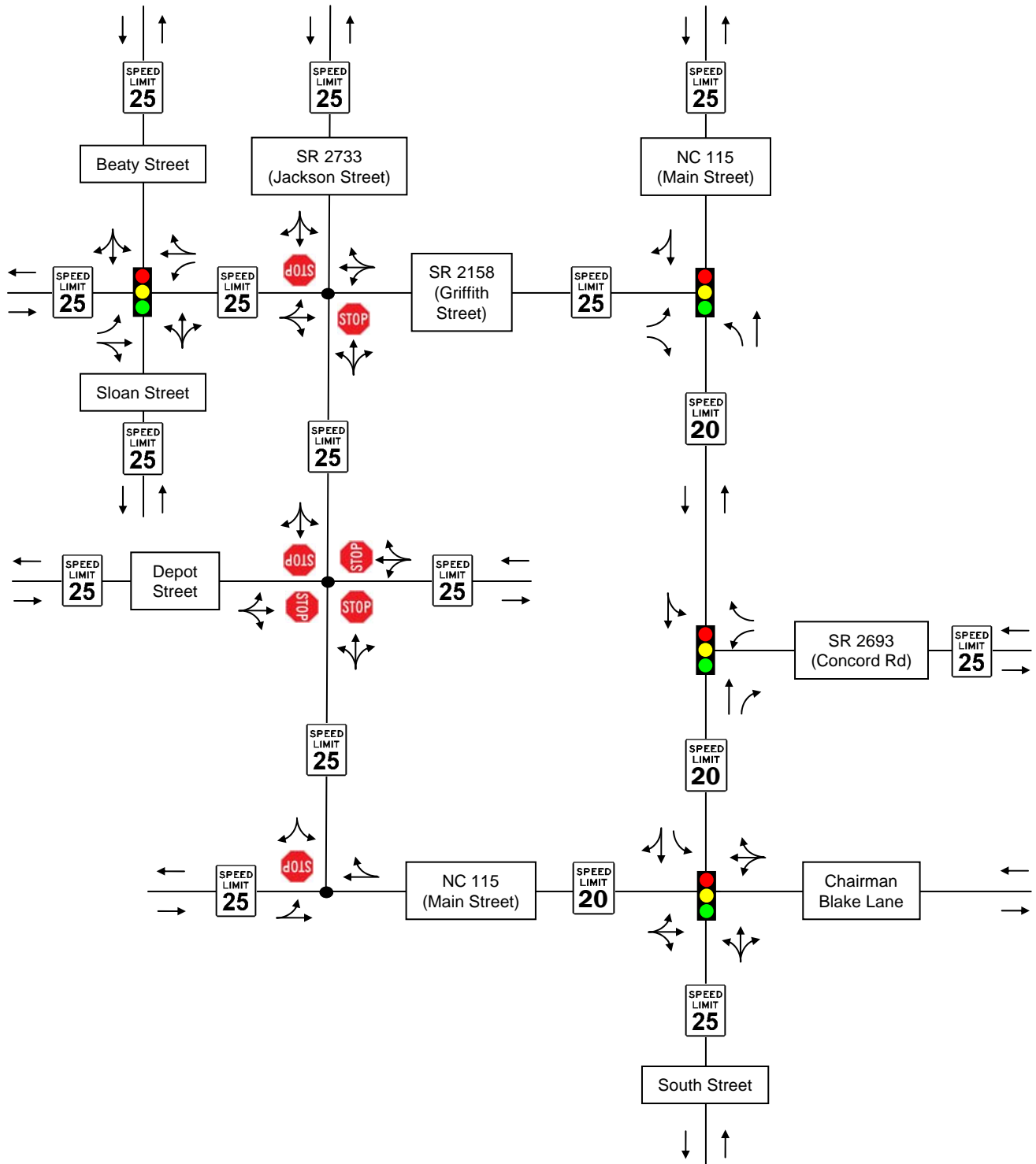
-  = Study Area Intersection
-  = Potential Deck Location
-  = Potts / Sloan Connector



Town of Davidson Parking Study

Future Alternatives

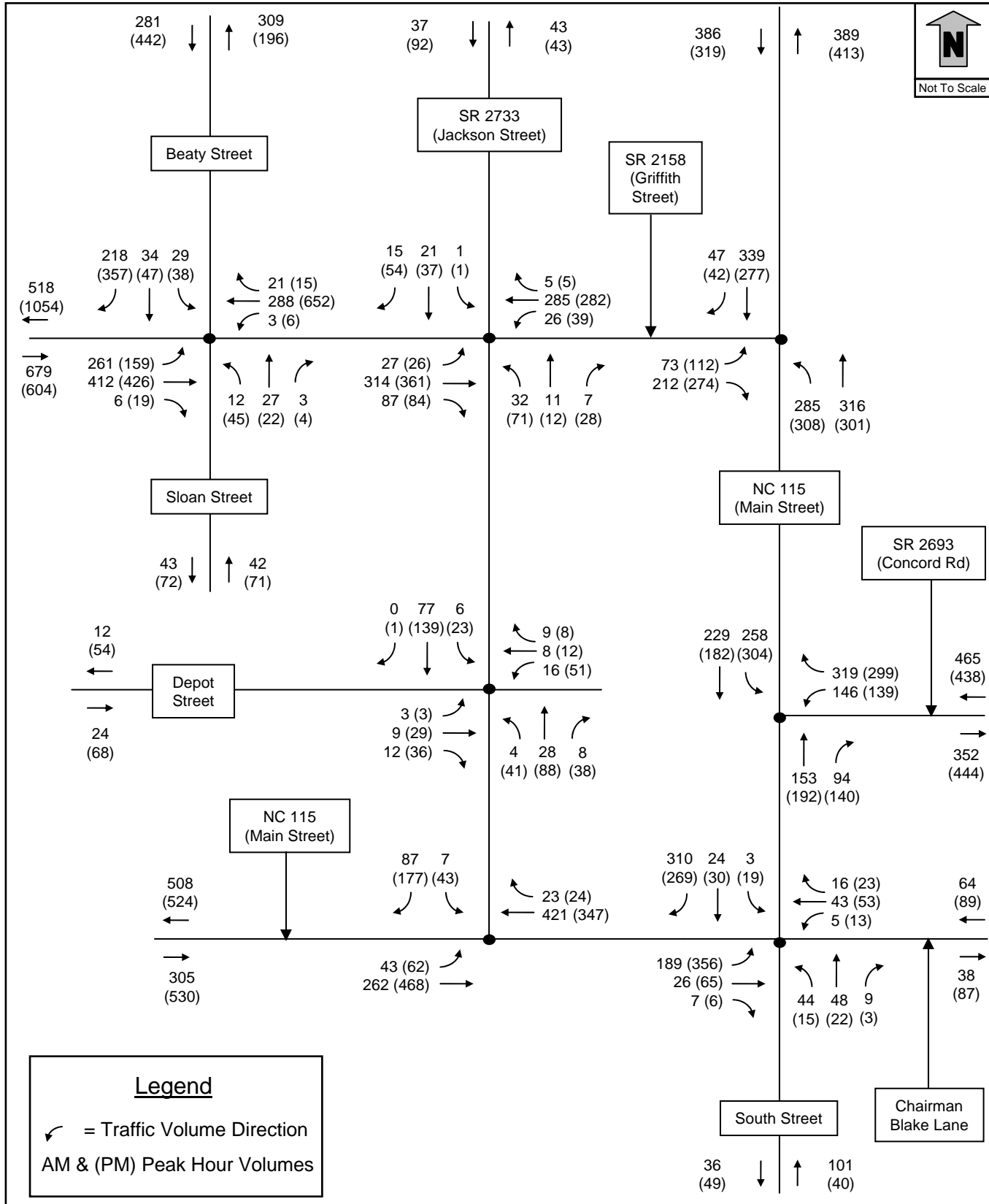
Figure 2

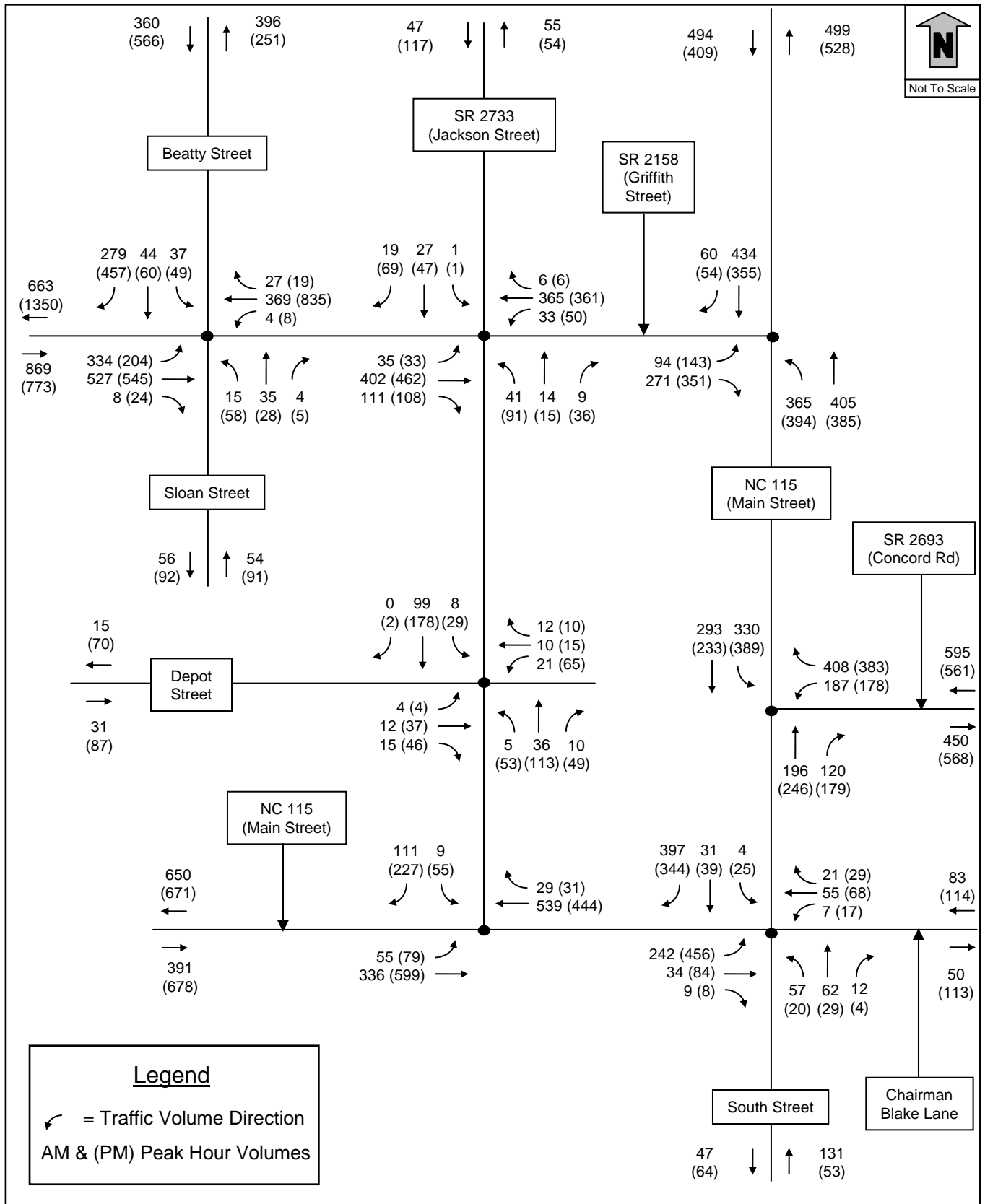


Town of Davidson Parking Study

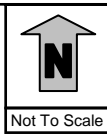
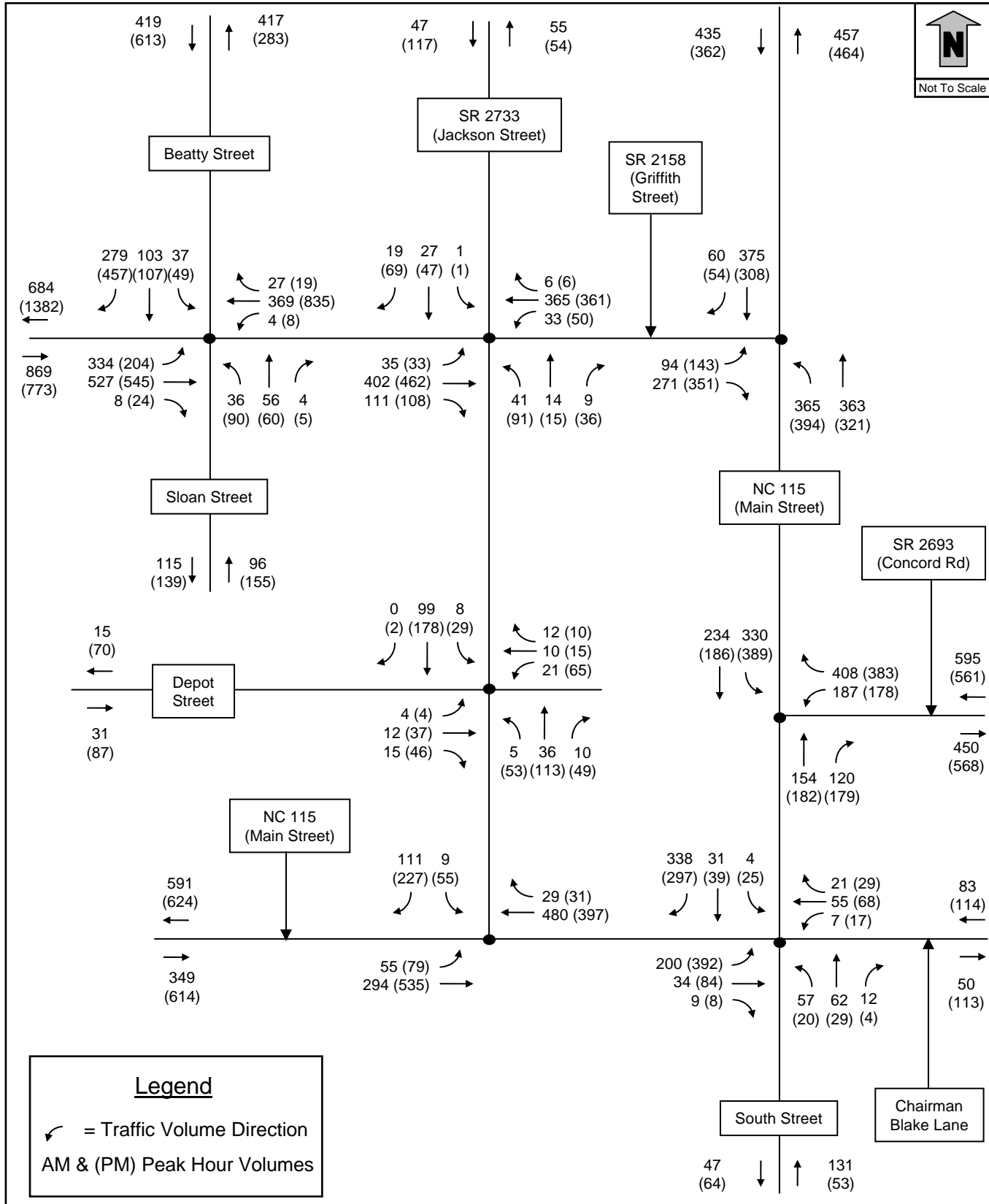
2010 Existing Lane Configuration

Figure 3

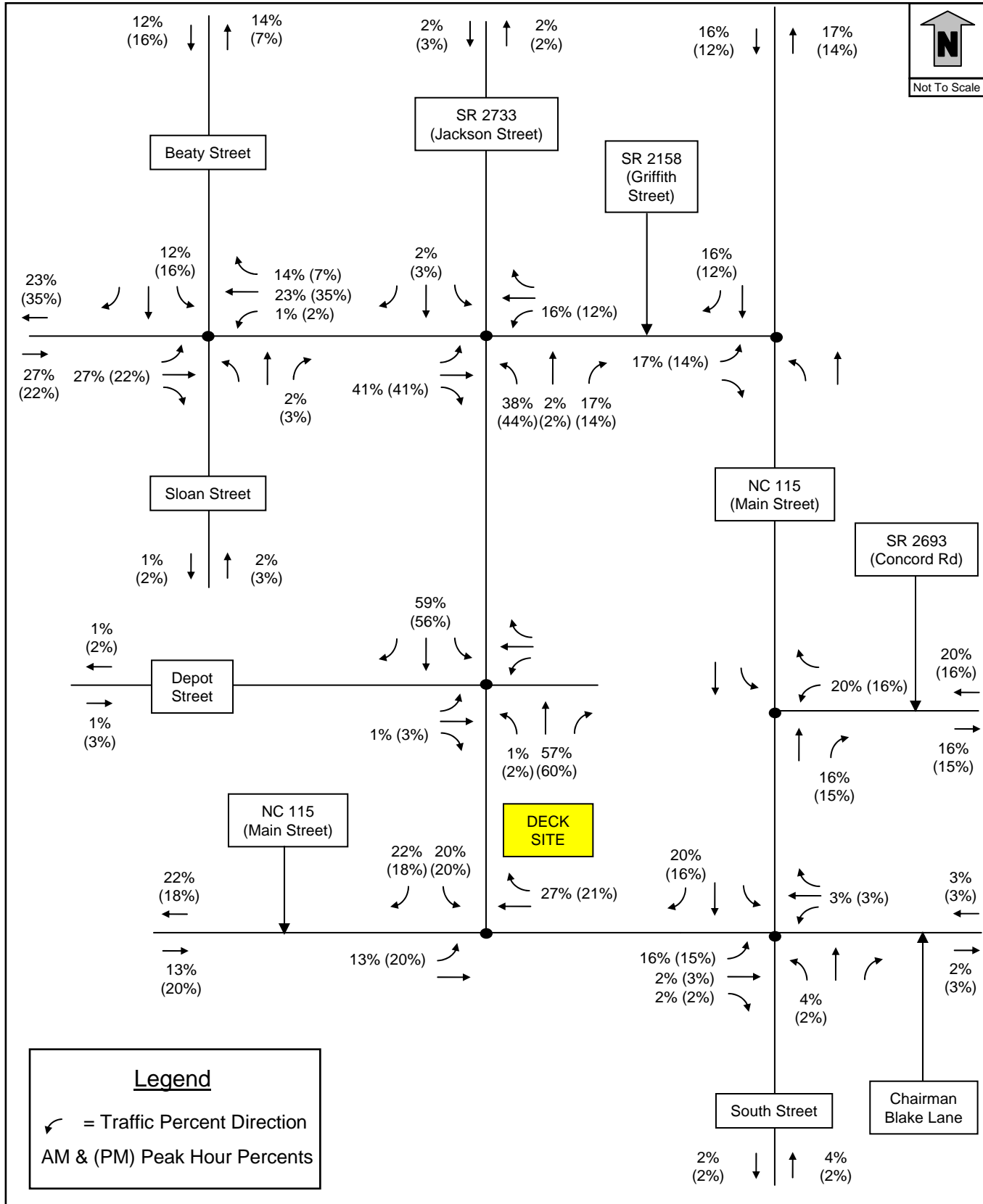




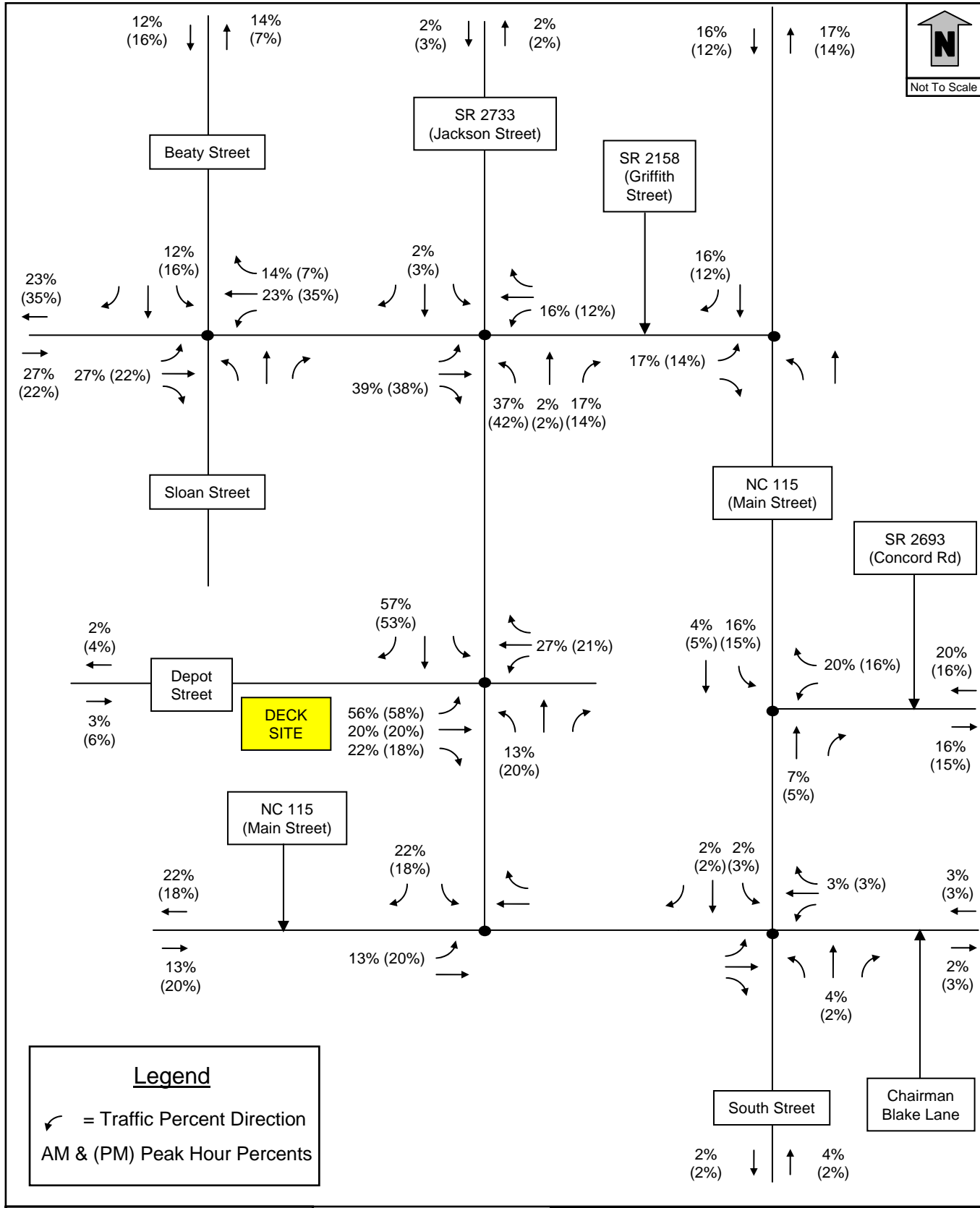
Town of Davidson Parking Study
 2020 Condition 2 Traffic Volumes Background Traffic
 Figure 5



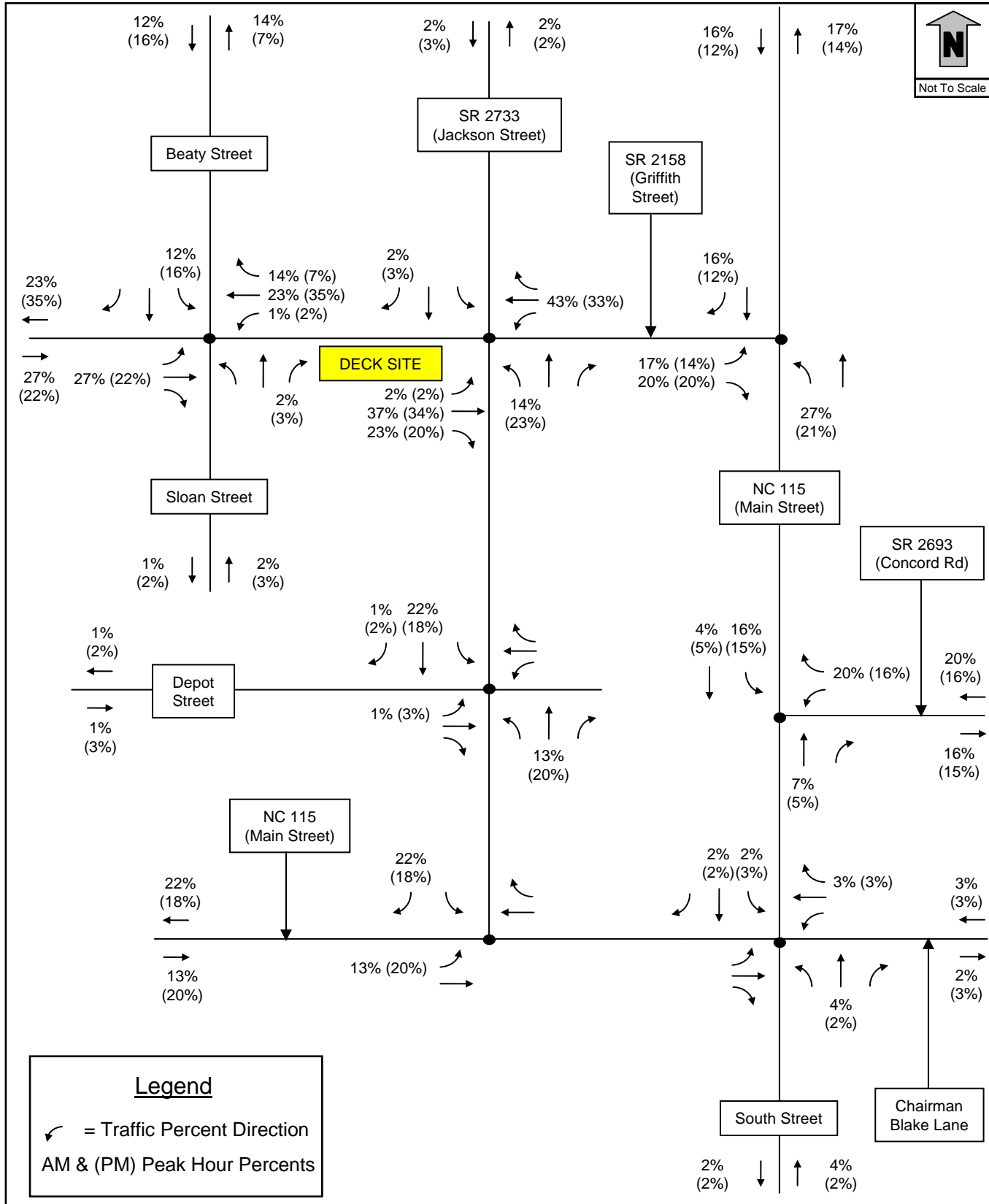
Town of Davidson Parking Study
 2020 Condition 3 Traffic Volumes
 Potts-Sloan Connector
 Figure 6



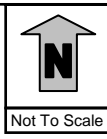
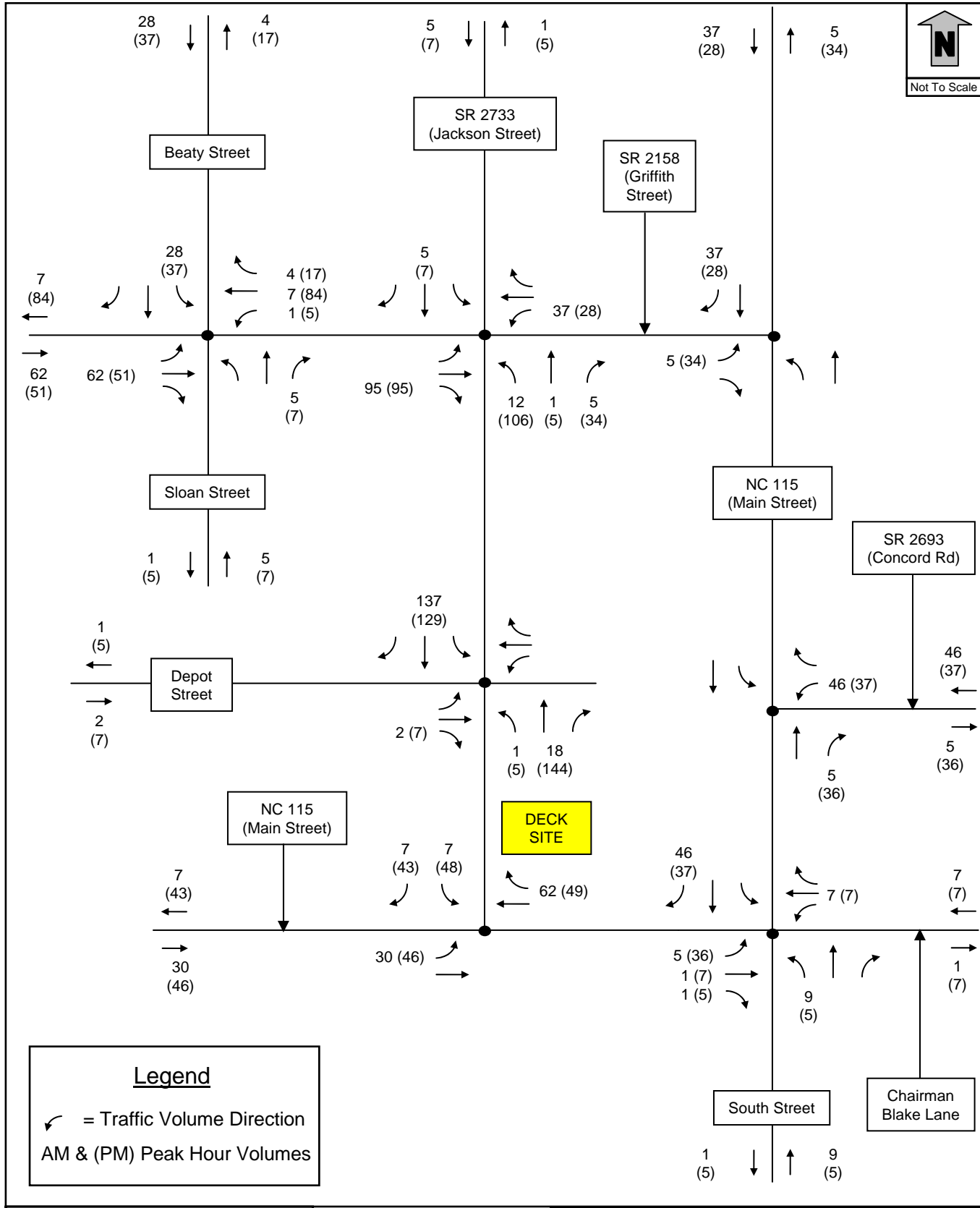
Town of Davidson Parking Study
 2020 Trip Distribution Percentages
 Jackson Street Parking Deck
 Figure 7



Town of Davidson Parking Study
 2020 Trip Distribution Percentages
 Depot Street Parking Deck
 Figure 8



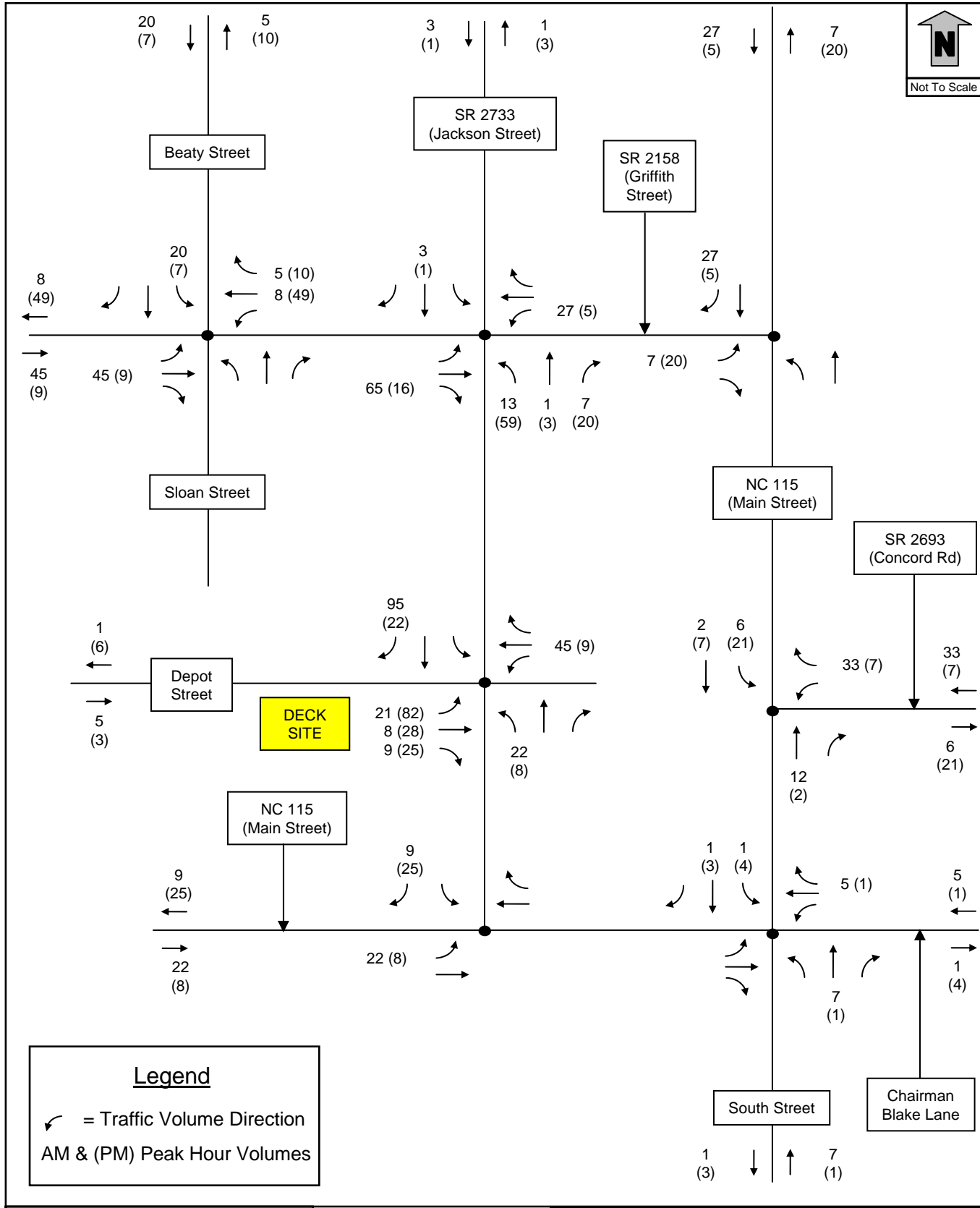
Town of Davidson Parking Study
 2020 Trip Distribution Percentages
 Griffith Street Parking Deck
 Figure 9



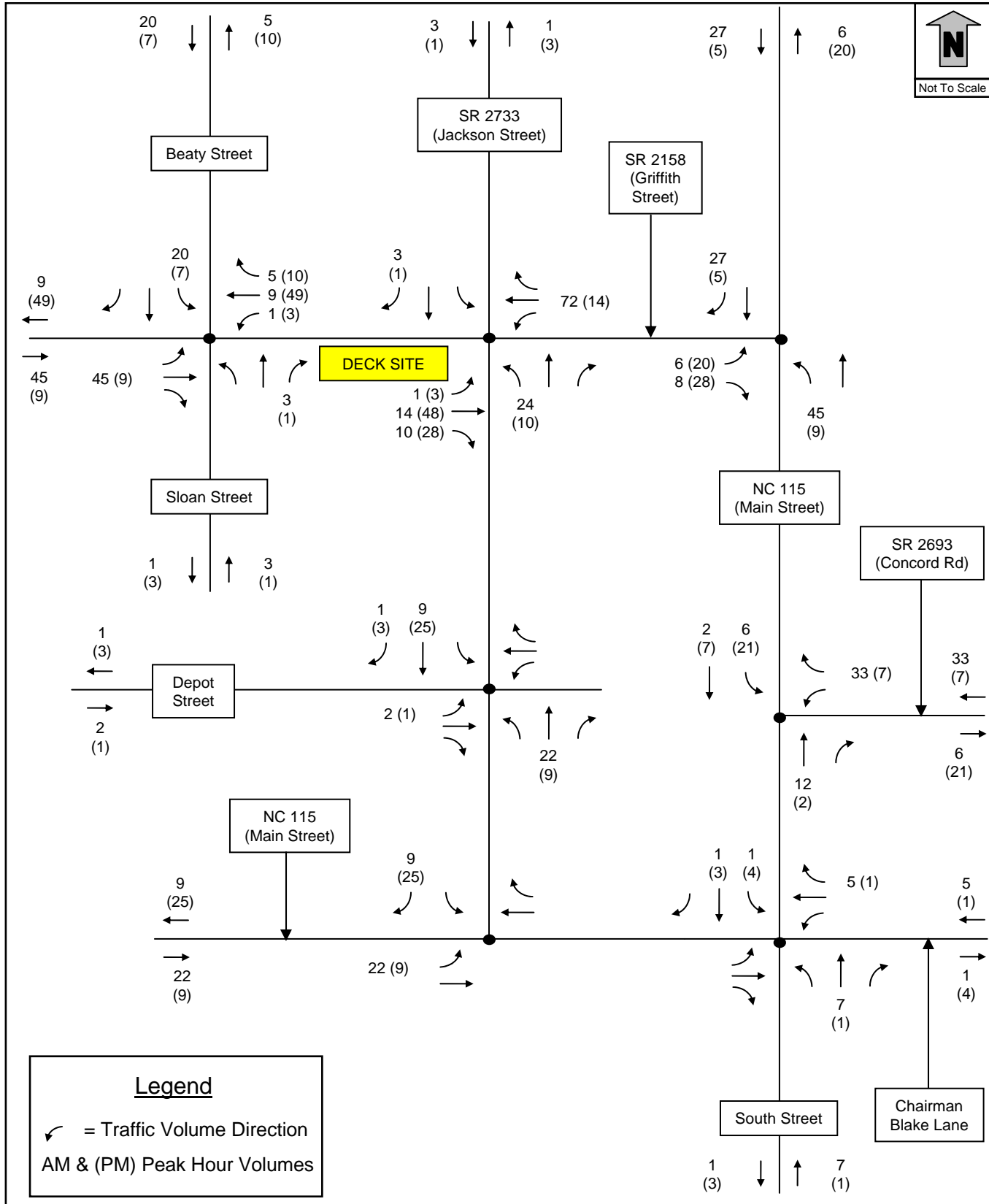
Town of Davidson Parking Study

2020 Trip Distribution Traffic Volumes
 Jackson Street Parking Deck

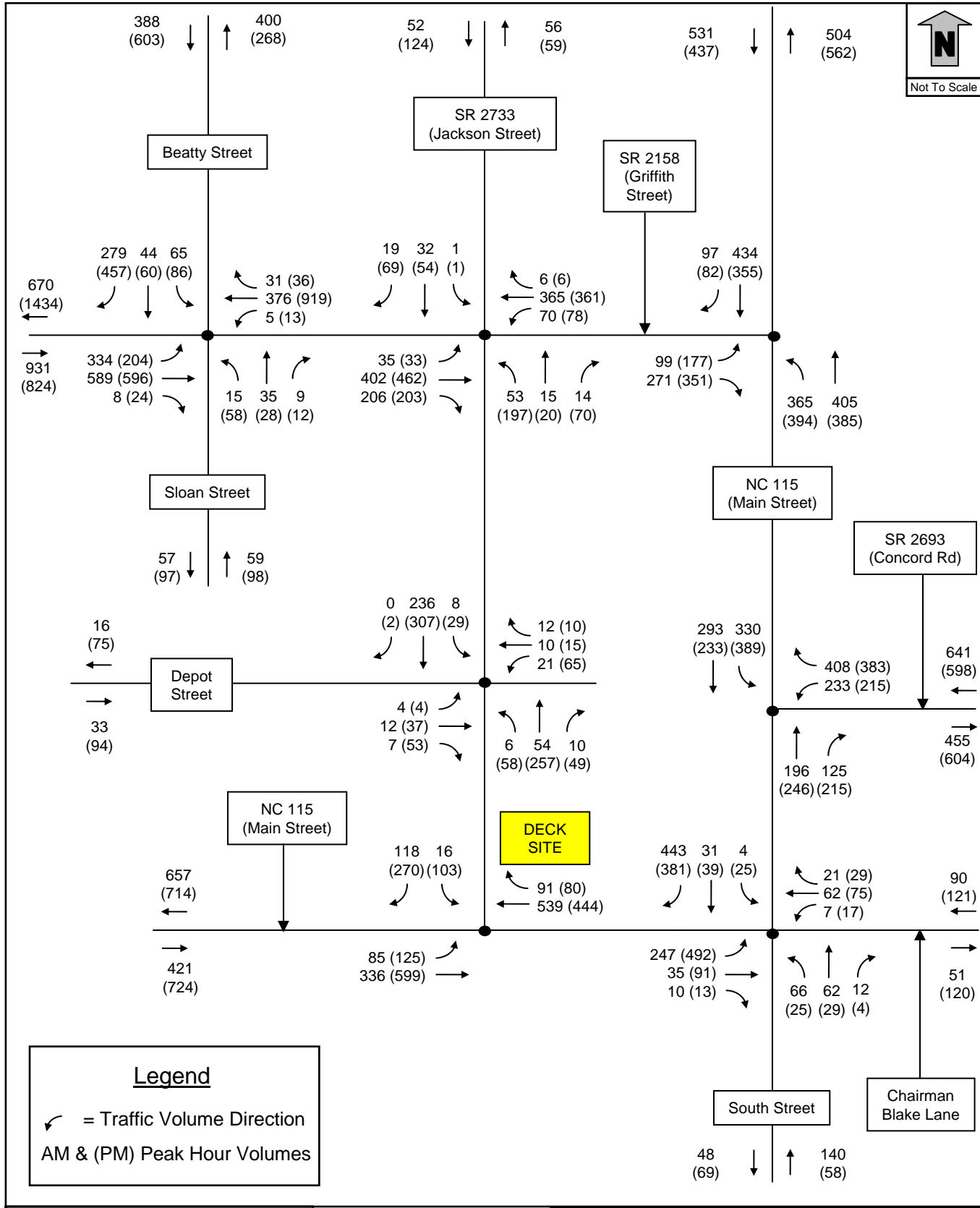
Figure 10



Town of Davidson Parking Study
 2020 Trip Distribution Traffic Volumes
 Depot Street Parking Deck
 Figure 11

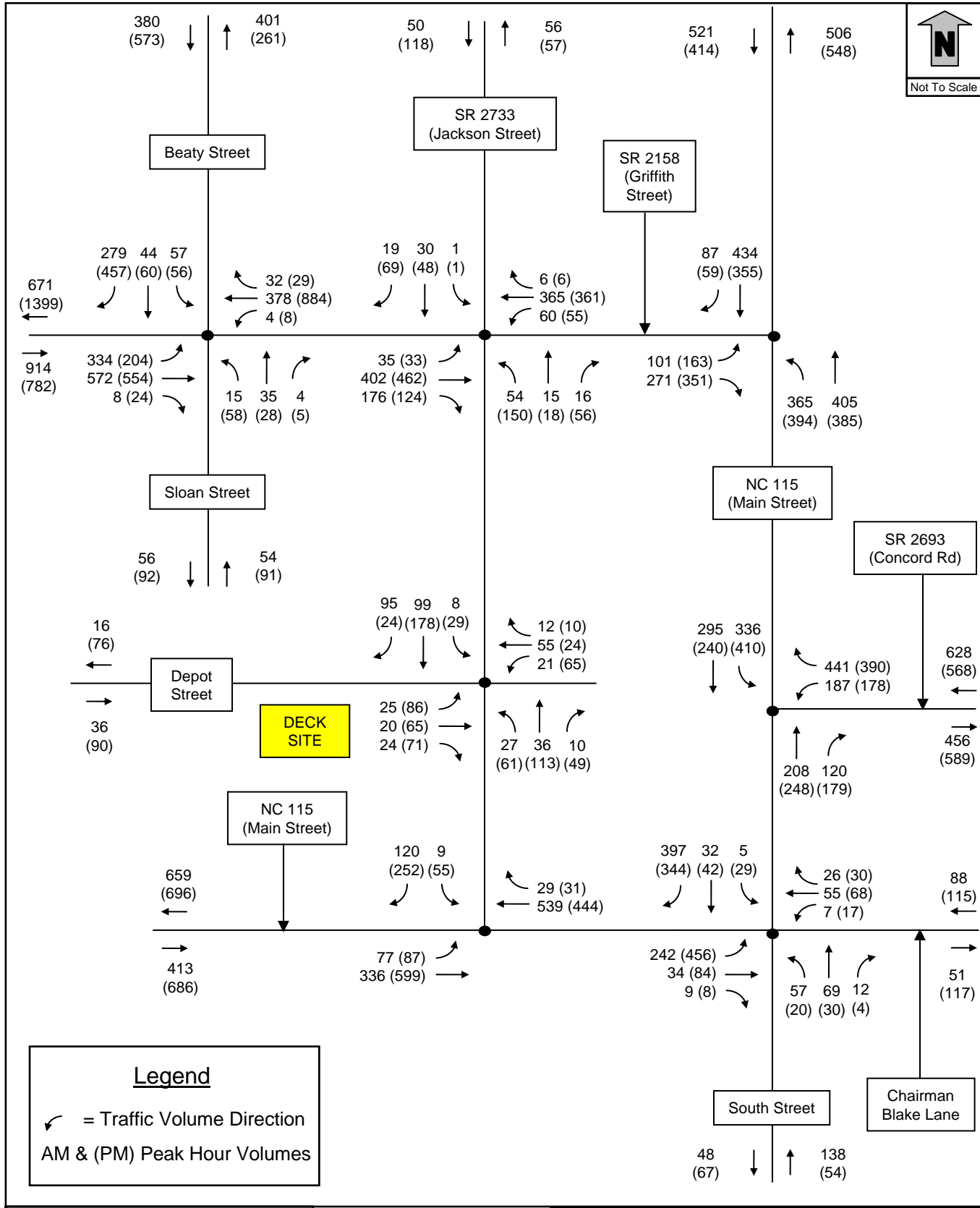


Town of Davidson Parking Study
 2020 Trip Distribution Traffic Volumes
 Griffith Street Parking Deck
 Figure 12

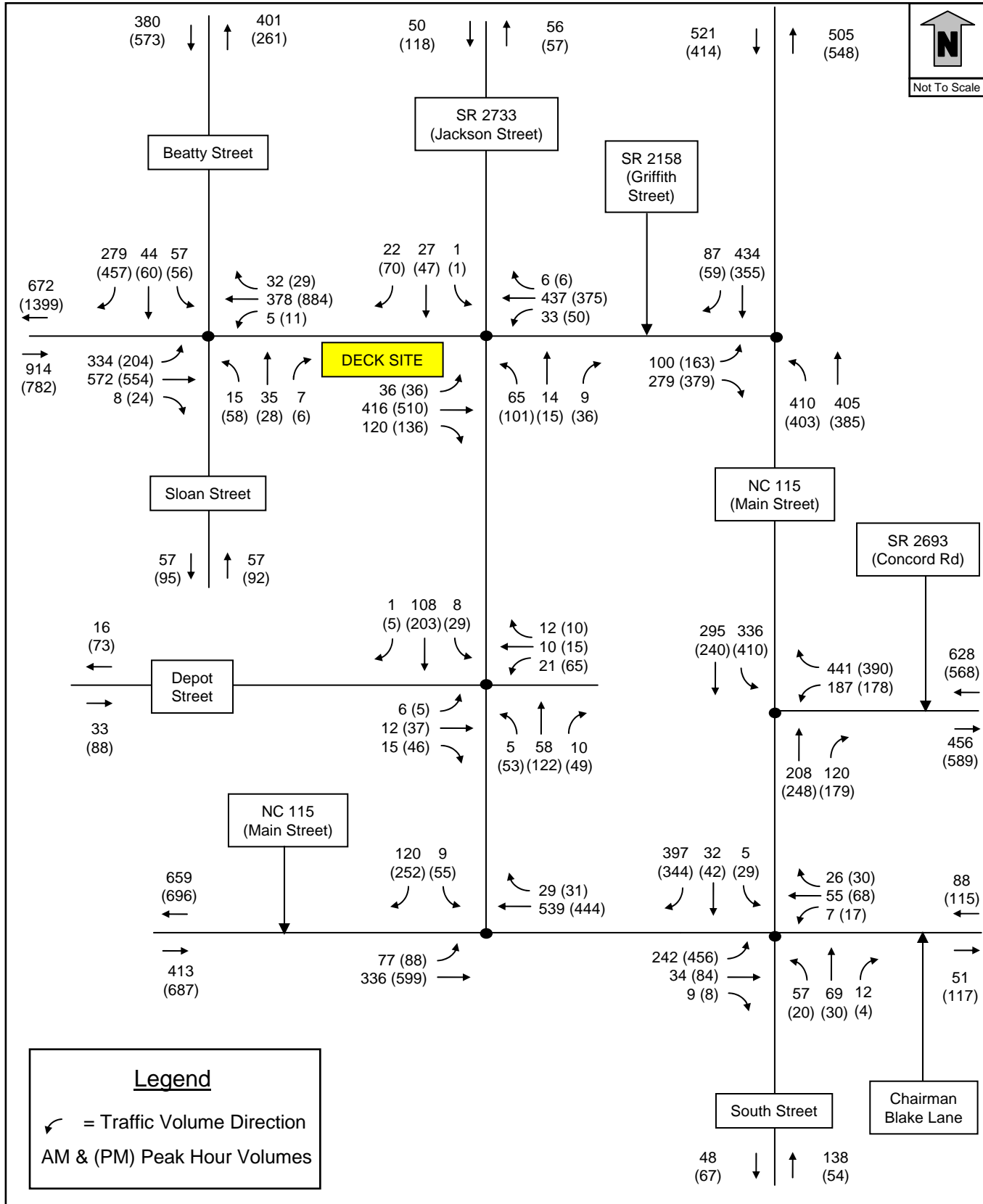


Town of Davidson Parking Study
 2020 Condition 4 Traffic Volumes
 Jackson Street Parking Deck

Figure 13



Town of Davidson Parking Study
 2020 Condition 5 Traffic Volumes
 Depot Street Parking Deck
 Figure 14



Town of Davidson Parking Study
 2020 Condition 6 Traffic Volumes
 Griffith Street Parking Deck
 Figure 15

Appendix B – Traffic Counts

SEPI Engineering & Construction

1025 Wade Avenue
Raleigh, NC 27605
(919) 789-9977

Project: Davidson Parking Study
Date: 12/14/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSGS10
Site Code : 10014002
Start Date : 12/14/2010
Page No : 1

Groups Printed- Cars - Trucks - Bikes

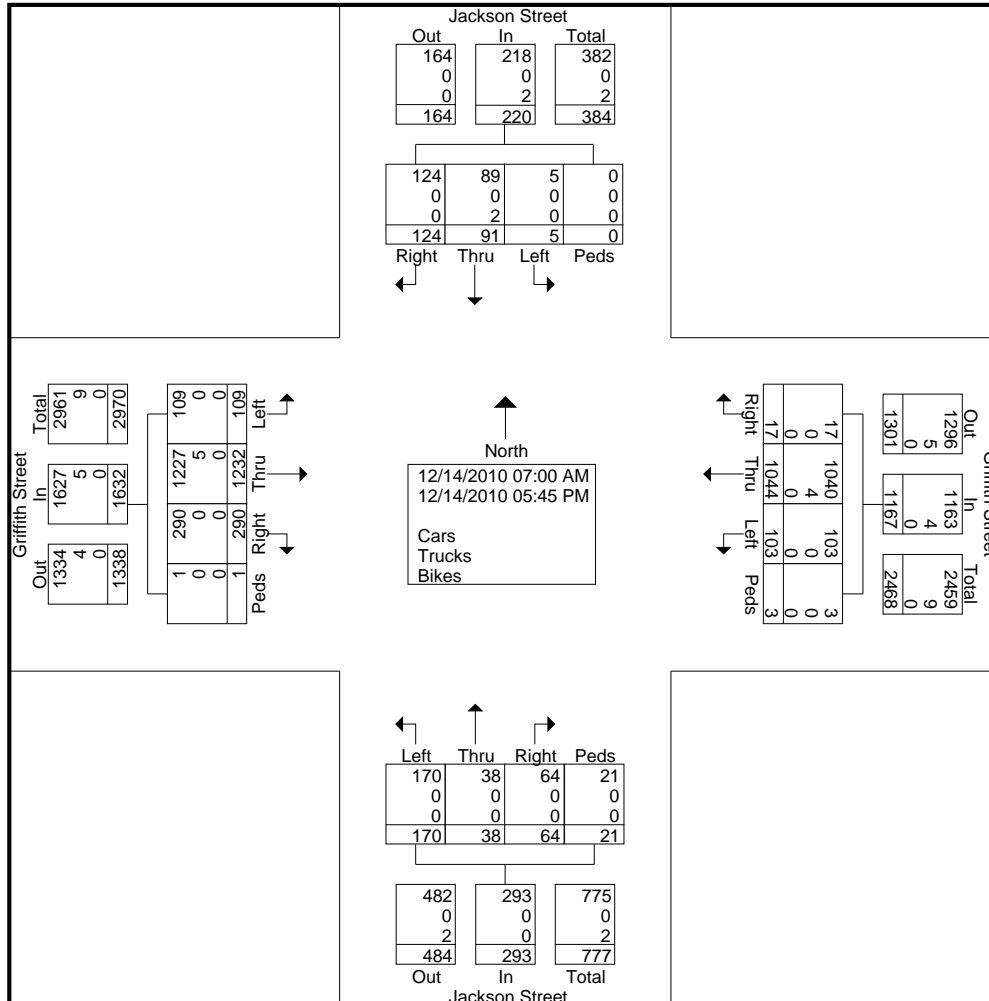
Start Time	Jackson Street Southbound					Griffith Street Westbound					Jackson Street Northbound					Griffith Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
07:00 AM	0	0	4	0	4	4	44	0	0	48	0	0	1	1	2	6	47	6	0	59	113
07:15 AM	0	2	5	0	7	1	44	0	0	45	7	3	0	0	10	9	64	2	0	75	137
07:30 AM	0	6	5	0	11	2	56	2	1	61	4	2	1	1	8	2	65	4	0	71	151
07:45 AM	0	10	6	0	16	6	92	0	0	98	7	0	0	0	7	7	88	12	0	107	228
Total	0	18	20	0	38	13	236	2	1	252	18	5	2	2	27	24	264	24	0	312	629
08:00 AM	0	6	2	0	8	5	67	0	1	73	10	2	1	1	14	5	76	18	0	99	194
08:15 AM	1	4	3	0	8	10	65	3	0	78	5	6	6	0	17	3	73	23	0	99	202
08:30 AM	0	1	4	0	5	5	61	2	1	69	10	3	0	4	17	12	77	34	0	123	214
08:45 AM	1	5	3	0	9	4	45	0	0	49	6	2	6	2	16	7	77	16	0	100	174
Total	2	16	12	0	30	24	238	5	2	269	31	13	13	7	64	27	303	91	0	421	784
*** BREAK ***																					
04:00 PM	0	7	15	0	22	6	72	1	0	79	9	4	8	0	21	5	87	17	0	109	231
04:15 PM	0	4	6	0	10	10	64	0	0	74	17	1	4	3	25	11	62	29	0	102	211
04:30 PM	2	2	7	0	11	5	82	2	0	89	14	1	6	3	24	6	75	18	0	99	223
04:45 PM	0	4	12	0	16	4	79	2	0	85	24	6	2	0	32	6	94	18	0	118	251
Total	2	17	40	0	59	25	297	5	0	327	64	12	20	6	102	28	318	82	0	428	916
05:00 PM	0	9	16	0	25	9	59	0	0	68	18	1	16	2	37	5	91	19	0	115	245
05:15 PM	1	10	15	0	26	18	74	3	0	95	17	2	6	2	27	8	92	22	0	122	270
05:30 PM	0	14	11	0	25	8	70	0	0	78	12	3	4	0	19	7	84	25	0	116	238
05:45 PM	0	7	10	0	17	6	70	2	0	78	10	2	3	2	17	10	80	27	1	118	230
Total	1	40	52	0	93	41	273	5	0	319	57	8	29	6	100	30	347	93	1	471	983
Grand Total	5	91	124	0	220	103	1044	17	3	1167	170	38	64	21	293	109	1232	290	1	1632	3312
Apprch %	2.3	41.4	56.4	0		8.8	89.5	1.5	0.3		58	13	21.8	7.2		6.7	75.5	17.8	0.1		
Total %	0.2	2.7	3.7	0	6.6	3.1	31.5	0.5	0.1	35.2	5.1	1.1	1.9	0.6	8.8	3.3	37.2	8.8	0	49.3	
Cars	5	89	124	0	218	103	1040	17	3	1163	170	38	64	21	293	109	1227	290	1	1627	3301
% Cars	100	97.8	100	0	99.1	100	99.6	100	100	99.7	100	100	100	100	100	100	99.6	100	100	99.7	99.7
Trucks	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	9
% Trucks	0	0	0	0	0	0	0.4	0	0	0.3	0	0	0	0	0	0	0.4	0	0	0.3	0.3
Bikes	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
% Bikes	0	2.2	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

SEPI Engineering & Construction

1025 Wade Avenue
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File Name : JSGS10
Site Code : 10014002
Start Date : 12/14/2010
Page No : 2



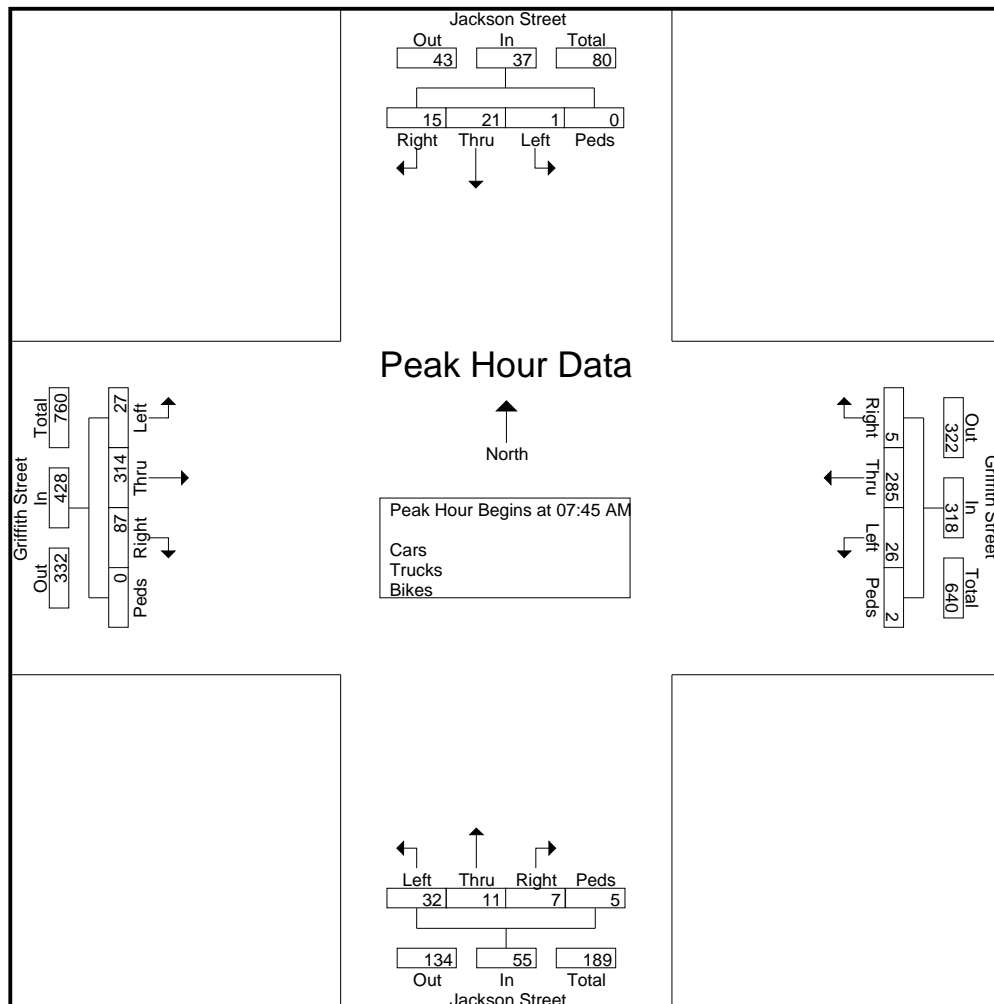
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Date: 12/14/10
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File Name : JSGS10
Site Code : 10014002
Start Date : 12/14/2010
Page No : 3

Start Time	Jackson Street Southbound					Griffith Street Westbound					Jackson Street Northbound					Griffith Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 12:30 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:45 AM																					
07:45 AM	0	10	6	0	16	6	92	0	0	98	7	0	0	0	7	7	88	12	0	107	228
08:00 AM	0	6	2	0	8	5	67	0	1	73	10	2	1	1	14	5	76	18	0	99	194
08:15 AM	1	4	3	0	8	10	65	3	0	78	5	6	6	0	17	3	73	23	0	99	202
08:30 AM	0	1	4	0	5	5	61	2	1	69	10	3	0	4	17	12	77	34	0	123	214
Total Volume	1	21	15	0	37	26	285	5	2	318	32	11	7	5	55	27	314	87	0	428	838
% App. Total	2.7	56.8	40.5	0		8.2	89.6	1.6	0.6		58.2	20	12.7	9.1		6.3	73.4	20.3	0		
PHF	.250	.525	.625	.000	.578	.650	.774	.417	.500	.811	.800	.458	.292	.313	.809	.563	.892	.640	.000	.870	.919



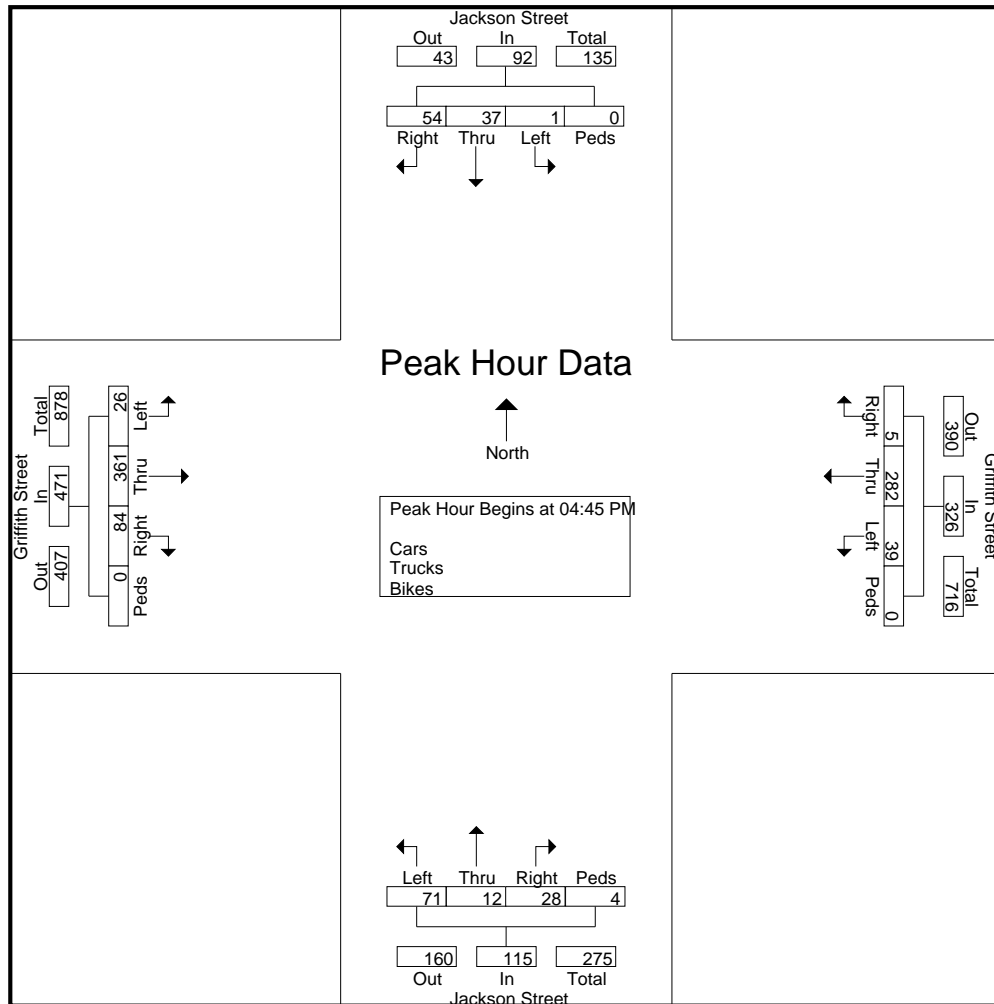
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Project: Davidson Parking Study
Date: 12/14/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSGS10
Site Code : 10014002
Start Date : 12/14/2010
Page No : 4

Start Time	Jackson Street Southbound					Griffith Street Westbound					Jackson Street Northbound					Griffith Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 12:45 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	0	4	12	0	16	4	79	2	0	85	24	6	2	0	32	6	94	18	0	118	251
05:00 PM	0	9	16	0	25	9	59	0	0	68	18	1	16	2	37	5	91	19	0	115	245
05:15 PM	1	10	15	0	26	18	74	3	0	95	17	2	6	2	27	8	92	22	0	122	270
05:30 PM	0	14	11	0	25	8	70	0	0	78	12	3	4	0	19	7	84	25	0	116	238
Total Volume	1	37	54	0	92	39	282	5	0	326	71	12	28	4	115	26	361	84	0	471	1004
% App. Total	1.1	40.2	58.7	0		12	86.5	1.5	0		61.7	10.4	24.3	3.5		5.5	76.6	17.8	0		
PHF	.250	.661	.844	.000	.885	.542	.892	.417	.000	.858	.740	.500	.438	.500	.777	.813	.960	.840	.000	.965	.930



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Project: Davidson Parking Study
Date: 12/15/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSDS10AM
Site Code : 10014002
Start Date : 12/16/2010
Page No : 1

Groups Printed- Cars - Trucks - Bikes

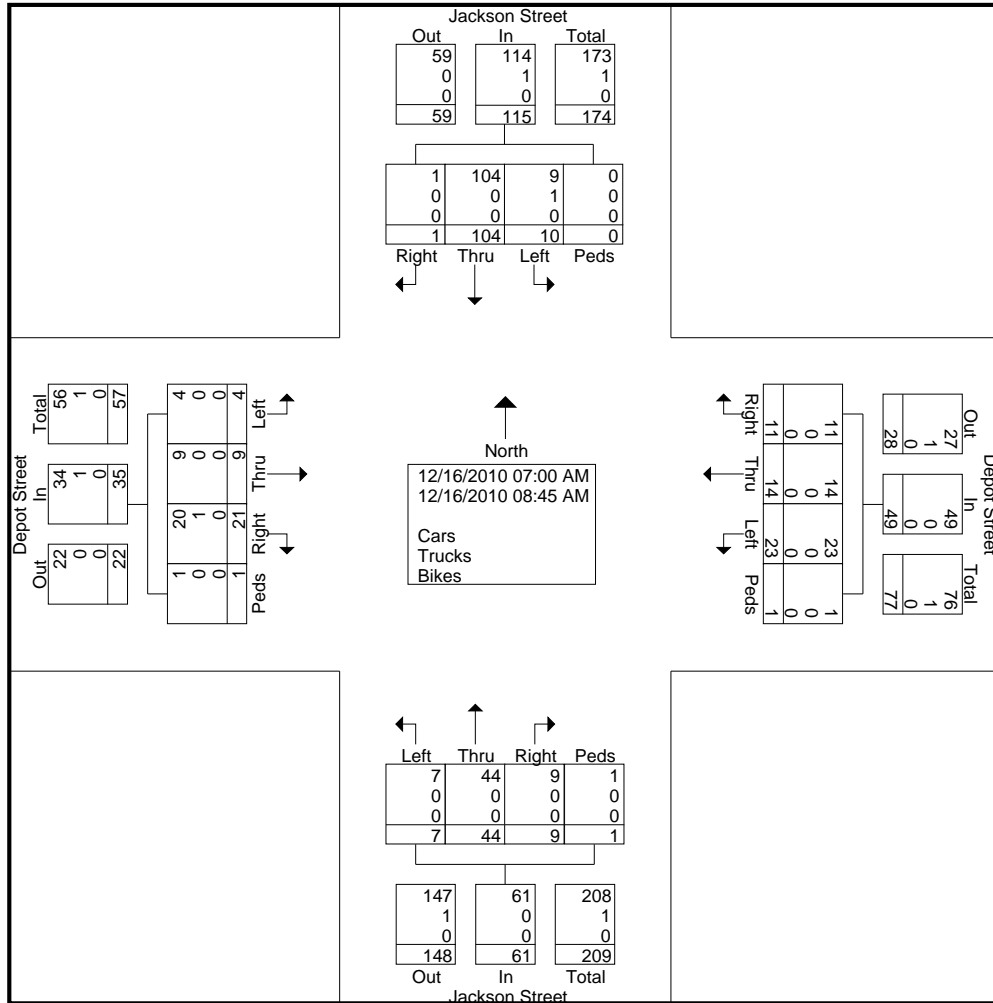
Start Time	Jackson Street Southbound					Depot Street Westbound					Jackson Street Northbound					Depot Street Eastbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
07:00 AM	1	4	0	0	5	1	0	0	0	1	1	5	1	0	7	0	0	2	0	2	2	15
07:15 AM	0	4	1	0	5	3	1	0	0	4	0	1	0	0	1	0	0	1	0	1	1	11
07:30 AM	0	8	0	0	8	1	1	1	0	3	1	4	0	0	5	0	0	3	0	3	3	19
07:45 AM	3	11	0	0	14	2	4	1	0	7	1	6	0	0	7	1	0	3	0	4	4	32
Total	4	27	1	0	32	7	6	2	0	15	3	16	1	0	20	1	0	9	0	10	10	77
08:00 AM	0	23	0	0	23	3	2	3	0	8	2	6	0	1	9	1	3	0	1	5	5	45
08:15 AM	2	19	0	0	21	7	1	2	0	10	0	6	3	0	9	0	1	3	0	4	4	44
08:30 AM	3	19	0	0	22	4	3	2	1	10	1	8	1	0	10	1	3	7	0	11	11	53
08:45 AM	1	16	0	0	17	2	2	2	0	6	1	8	4	0	13	1	2	2	0	5	5	41
Total	6	77	0	0	83	16	8	9	1	34	4	28	8	1	41	3	9	12	1	25	25	183
Grand Total	10	104	1	0	115	23	14	11	1	49	7	44	9	1	61	4	9	21	1	35	35	260
Apprch %	8.7	90.4	0.9	0		46.9	28.6	22.4	2		11.5	72.1	14.8	1.6		11.4	25.7	60	2.9			
Total %	3.8	40	0.4	0	44.2	8.8	5.4	4.2	0.4	18.8	2.7	16.9	3.5	0.4	23.5	1.5	3.5	8.1	0.4	13.5		
Cars	9	104	1	0	114	23	14	11	1	49	7	44	9	1	61	4	9	20	1	34	34	258
% Cars	90	100	100	0	99.1	100	100	100	100	100	100	100	100	100	100	100	100	95.2	100	97.1	97.1	99.2
Trucks	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2
% Trucks	10	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	4.8	0	2.9	2.9	0.8
Bikes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SEPI Engineering & Construction

1025 Wade Avenue
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Project: Davidson Parking Study
Date: 12/15/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSDS10AM
Site Code : 10014002
Start Date : 12/16/2010
Page No : 2



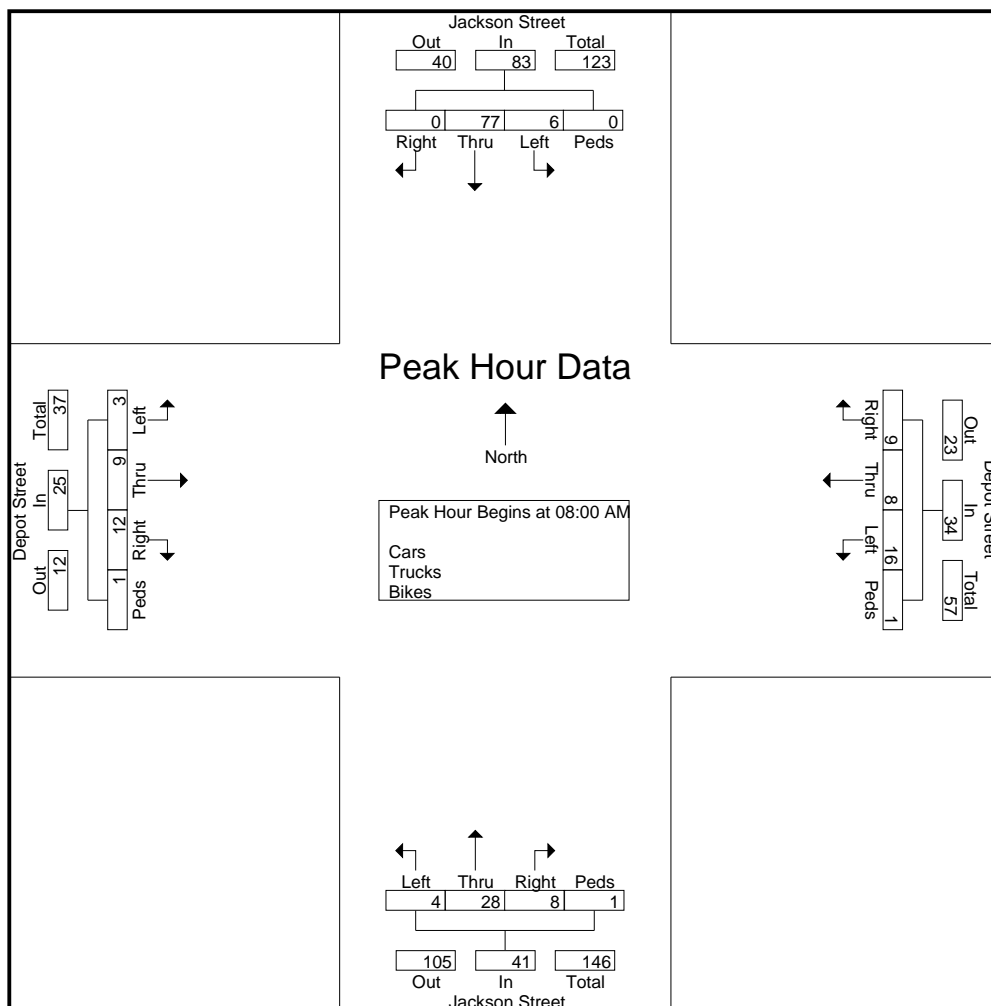
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1025 Wade Avenue
Raleigh, NC 27605
(919) 789-9977

Project: Davidson Parking Study
Date: 12/15/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSDS10AM
Site Code : 10014002
Start Date : 12/16/2010
Page No : 3

Start Time	Jackson Street Southbound					Depot Street Westbound					Jackson Street Northbound					Depot Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	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	23	0	0	23	3	2	3	0	8	2	6	0	1	9	1	3	0	1	5	45
08:15 AM	2	19	0	0	21	7	1	2	0	10	0	6	3	0	9	0	1	3	0	4	44
08:30 AM	3	19	0	0	22	4	3	2	1	10	1	8	1	0	10	1	3	7	0	11	53
08:45 AM	1	16	0	0	17	2	2	2	0	6	1	8	4	0	13	1	2	2	0	5	41
Total Volume	6	77	0	0	83	16	8	9	1	34	4	28	8	1	41	3	9	12	1	25	183
% App. Total	7.2	92.8	0	0		47.1	23.5	26.5	2.9		9.8	68.3	19.5	2.4		12	36	48	4		
PHF	.500	.837	.000	.000	.902	.571	.667	.750	.250	.850	.500	.875	.500	.250	.788	.750	.750	.429	.250	.568	.863



SEPI Engineering & Construction

1025 Wade Avenue
Raleigh, NC 27605
(919) 789-9977

Project: Davidson Parking Study
Date: 12/13/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSDS10PM
Site Code : 10014002
Start Date : 12/13/2010
Page No : 1

Groups Printed- Cars - Trucks - Bikes

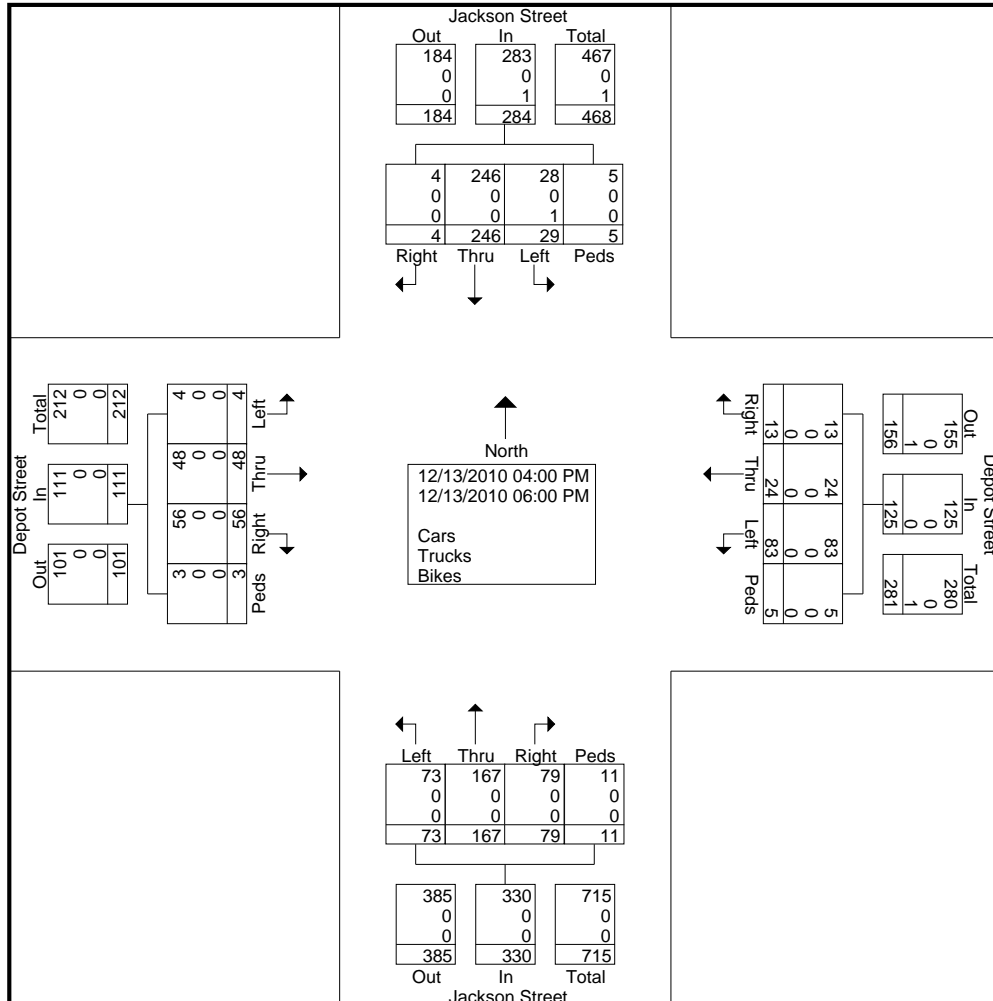
Start Time	Jackson Street Southbound					Depot Street Westbound					Jackson Street Northbound					Depot Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
04:00 PM	0	28	0	0	28	11	1	0	0	12	7	21	14	0	42	1	5	7	0	13	95
04:15 PM	2	30	1	0	33	15	2	3	1	21	12	24	10	3	49	0	5	5	0	10	113
04:30 PM	2	24	0	0	26	2	5	2	0	9	6	19	8	1	34	0	7	6	0	13	82
04:45 PM	4	18	1	0	23	16	1	4	0	21	14	22	8	3	47	0	3	11	1	15	106
Total	8	100	2	0	110	44	9	9	1	63	39	86	40	7	172	1	20	29	1	51	396
05:00 PM	5	39	0	1	45	13	4	2	0	19	5	28	11	0	44	2	9	9	0	20	128
05:15 PM	9	41	0	0	50	14	1	1	0	16	8	18	8	3	37	0	8	6	2	16	119
05:30 PM	5	41	0	0	46	8	6	1	0	15	14	20	11	1	46	1	9	10	0	20	127
05:45 PM	2	25	2	4	33	4	4	0	4	12	7	15	9	0	31	0	2	2	0	4	80
Total	21	146	2	5	174	39	15	4	4	62	34	81	39	4	158	3	28	27	2	60	454
*** BREAK ***																					
Grand Total	29	246	4	5	284	83	24	13	5	125	73	167	79	11	330	4	48	56	3	111	850
Apprch %	10.2	86.6	1.4	1.8		66.4	19.2	10.4	4		22.1	50.6	23.9	3.3		3.6	43.2	50.5	2.7		
Total %	3.4	28.9	0.5	0.6	33.4	9.8	2.8	1.5	0.6	14.7	8.6	19.6	9.3	1.3	38.8	0.5	5.6	6.6	0.4	13.1	
Cars	28	246	4	5	283	83	24	13	5	125	73	167	79	11	330	4	48	56	3	111	849
% Cars	96.6	100	100	100	99.6	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99.9
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bikes	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
% Bikes	3.4	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

SEPI Engineering & Construction

1025 Wade Avenue
Raleigh, NC 27605
(919) 789-9977

Project: Davidson Parking Study
Date: 12/13/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSDS10PM
Site Code : 10014002
Start Date : 12/13/2010
Page No : 2



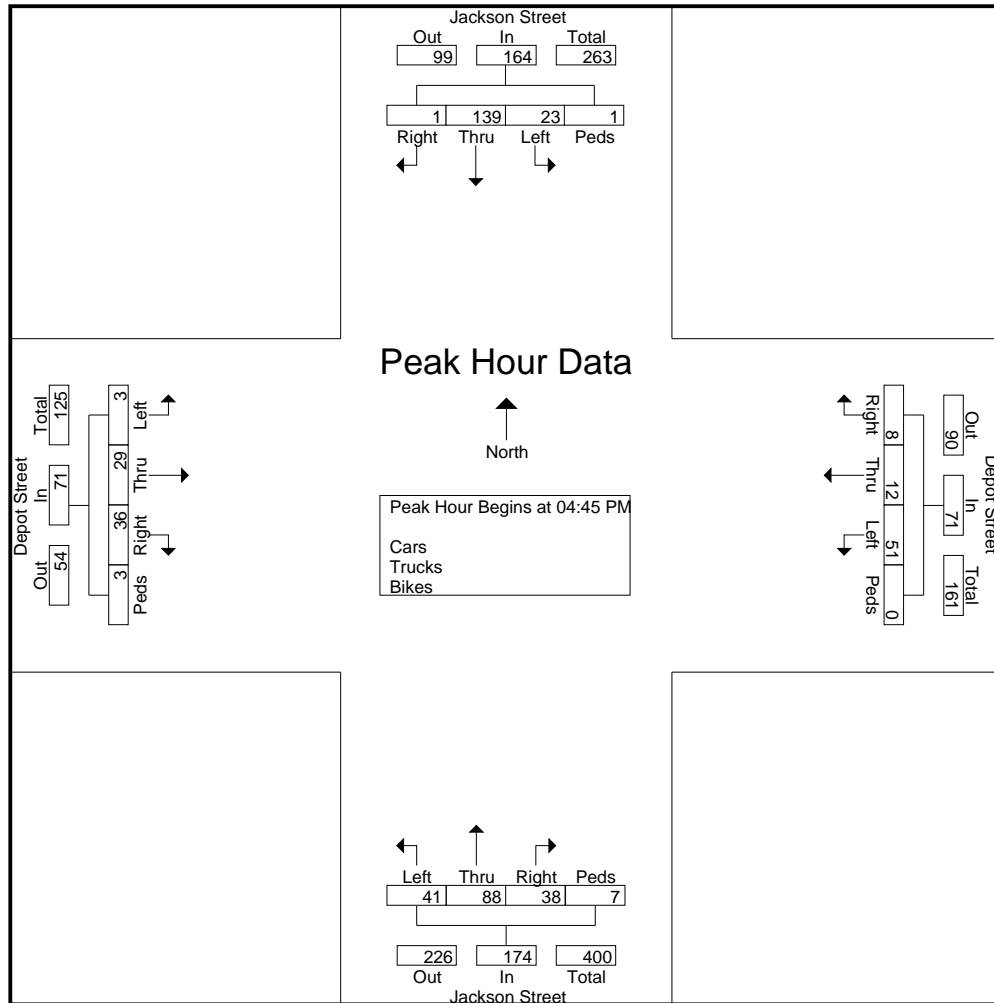
SEPI Engineering & Construction

1025 Wade Avenue
Raleigh, NC 27605
(919) 789-9977

Project: Davidson Parking Study
Date: 12/13/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : JSDS10PM
Site Code : 10014002
Start Date : 12/13/2010
Page No : 3

Start Time	Jackson Street Southbound					Depot Street Westbound					Jackson Street Northbound					Depot Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 06:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	4	18	1	0	23	16	1	4	0	21	14	22	8	3	47	0	3	11	1	15	106
05:00 PM	5	39	0	1	45	13	4	2	0	19	5	28	11	0	44	2	9	9	0	20	128
05:15 PM	9	41	0	0	50	14	1	1	0	16	8	18	8	3	37	0	8	6	2	16	119
05:30 PM	5	41	0	0	46	8	6	1	0	15	14	20	11	1	46	1	9	10	0	20	127
Total Volume	23	139	1	1	164	51	12	8	0	71	41	88	38	7	174	3	29	36	3	71	480
% App. Total	14	84.8	0.6	0.6		71.8	16.9	11.3	0		23.6	50.6	21.8	4		4.2	40.8	50.7	4.2		
PHF	.639	.848	.250	.250	.820	.797	.500	.500	.000	.845	.732	.786	.864	.583	.926	.375	.806	.818	.375	.888	.938



SEPI Engineering & Construction

1025 Wade Avenue
Raleigh, NC 27605
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Project: Davidson Parking Study
Date: 12/15/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : 10014001
Site Code : 10014001
Start Date : 12/15/2010
Page No : 1

Groups Printed- Cars - Trucks

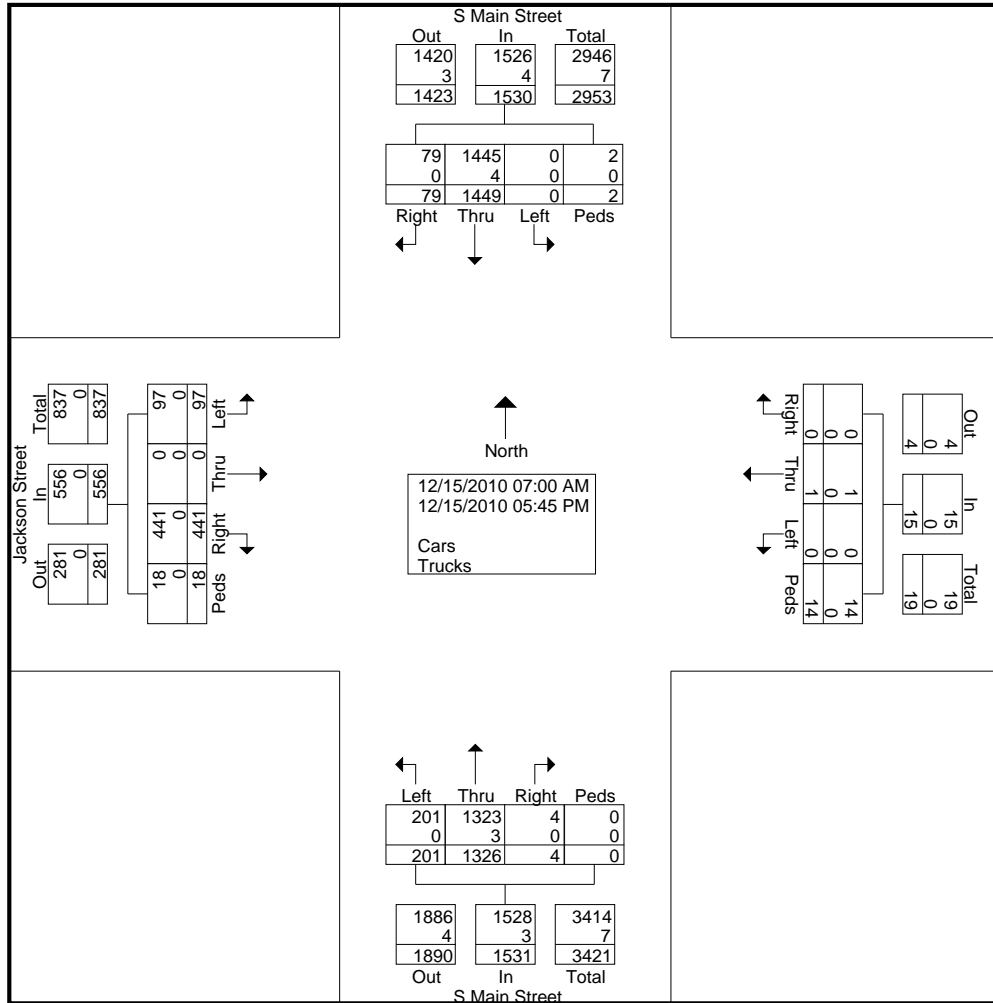
Start Time	S Main Street Southbound					Westbound					S Main Street Northbound					Jackson Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
07:00 AM	0	55	1	0	56	0	0	0	0	0	2	44	0	0	46	0	0	8	1	9	111
07:15 AM	0	80	1	0	81	0	0	0	0	0	7	52	0	0	59	2	0	4	0	6	146
07:30 AM	0	111	2	0	113	0	0	0	0	0	7	53	0	0	60	3	0	9	0	12	185
07:45 AM	0	132	3	0	135	0	0	0	0	0	7	51	0	0	58	0	0	21	0	21	214
Total	0	378	7	0	385	0	0	0	0	0	23	200	0	0	223	5	0	42	1	48	656
08:00 AM	0	105	9	0	114	0	0	0	0	0	11	71	0	0	82	0	0	17	0	17	213
08:15 AM	0	101	4	0	105	0	0	0	0	0	13	70	0	0	83	5	0	21	0	26	214
08:30 AM	0	83	7	0	90	0	1	0	0	1	12	70	0	0	82	2	0	28	0	30	203
08:45 AM	0	74	6	0	80	0	0	0	0	0	13	64	1	0	78	3	0	26	0	29	187
Total	0	363	26	0	389	0	1	0	0	1	49	275	1	0	325	10	0	92	0	102	817
*** BREAK ***																					
04:00 PM	0	92	5	0	97	0	0	0	4	4	10	87	0	0	97	7	0	28	3	38	236
04:15 PM	0	105	11	0	116	0	0	0	2	2	19	94	0	0	113	5	0	33	2	40	271
04:30 PM	0	79	4	2	85	0	0	0	2	2	18	92	0	0	110	9	0	30	2	41	238
04:45 PM	0	85	2	0	87	0	0	0	3	3	20	110	0	0	130	18	0	39	1	58	278
Total	0	361	22	2	385	0	0	0	11	11	67	383	0	0	450	39	0	130	8	177	1023
05:00 PM	0	84	7	0	91	0	0	0	1	1	11	116	0	0	127	12	0	41	5	58	277
05:15 PM	0	84	7	0	91	0	0	0	0	0	14	123	0	0	137	14	0	43	1	58	286
05:30 PM	0	77	2	0	79	0	0	0	1	1	20	118	0	0	138	6	0	49	2	57	275
05:45 PM	0	102	8	0	110	0	0	0	1	1	17	111	3	0	131	11	0	44	1	56	298
Total	0	347	24	0	371	0	0	0	3	3	62	468	3	0	533	43	0	177	9	229	1136
Grand Total	0	1449	79	2	1530	0	1	0	14	15	201	1326	4	0	1531	97	0	441	18	556	3632
Apprch %	0	94.7	5.2	0.1		0	6.7	0	93.3		13.1	86.6	0.3	0		17.4	0	79.3	3.2		
Total %	0	39.9	2.2	0.1	42.1	0	0	0	0.4	0.4	5.5	36.5	0.1	0	42.2	2.7	0	12.1	0.5	15.3	
Cars	0	1445	79	2	1526	0	1	0	14	15	201	1323	4	0	1528	97	0	441	18	556	3625
% Cars	0	99.7	100	100	99.7	0	100	0	100	100	100	99.8	100	0	99.8	100	0	100	100	100	99.8
Trucks	0	4	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
% Trucks	0	0.3	0	0	0.3	0	0	0	0	0	0	0.2	0	0	0.2	0	0	0	0	0	0.2

SEPI Engineering & Construction

1025 Wade Avenue
 Raleigh, NC 27605
 (919) 789-9977

Project: Davidson Parking Study
 Date: 12/15/10
 Counter: SEPI Engineering & Construction
 Weather: Sunny

File Name : 10014001
 Site Code : 10014001
 Start Date : 12/15/2010
 Page No : 2



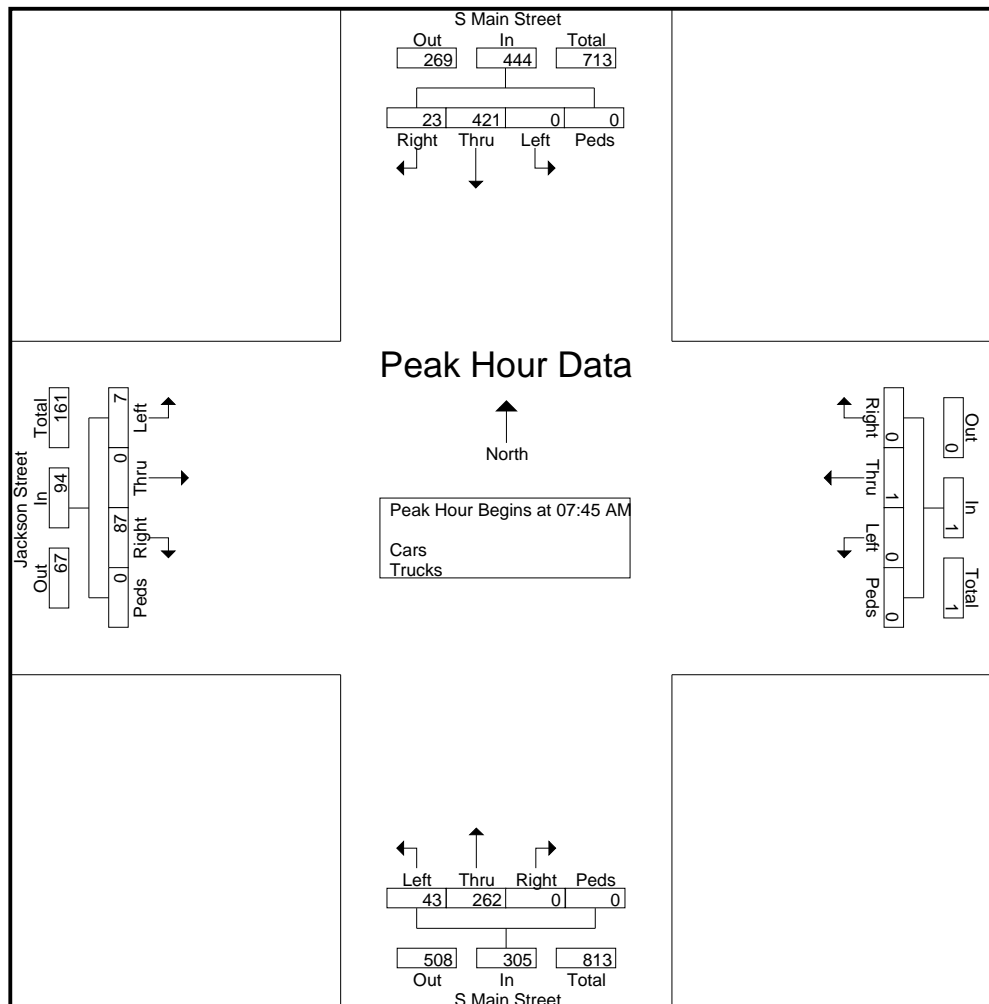
SEPI Engineering & Construction

1025 Wade Avenue
Raleigh, NC 27605
(919) 789-9977

Project: Davidson Parking Study
Date: 12/15/10
Counter: SEPI Engineering & Construction
Weather: Sunny

File Name : 10014001
Site Code : 10014001
Start Date : 12/15/2010
Page No : 3

Start Time	S Main Street Southbound					Westbound					S Main Street Northbound					Jackson Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 12:30 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:45 AM																					
07:45 AM	0	132	3	0	135	0	0	0	0	0	7	51	0	0	58	0	0	21	0	21	214
08:00 AM	0	105	9	0	114	0	0	0	0	0	11	71	0	0	82	0	0	17	0	17	213
08:15 AM	0	101	4	0	105	0	0	0	0	0	13	70	0	0	83	5	0	21	0	26	214
08:30 AM	0	83	7	0	90	0	1	0	0	1	12	70	0	0	82	2	0	28	0	30	203
Total Volume	0	421	23	0	444	0	1	0	0	1	43	262	0	0	305	7	0	87	0	94	844
% App. Total	0	94.8	5.2	0		0	100	0	0		14.1	85.9	0	0		7.4	0	92.6	0		
PHF	.000	.797	.639	.000	.822	.000	.250	.000	.000	.250	.827	.923	.000	.000	.919	.350	.000	.777	.000	.783	.986



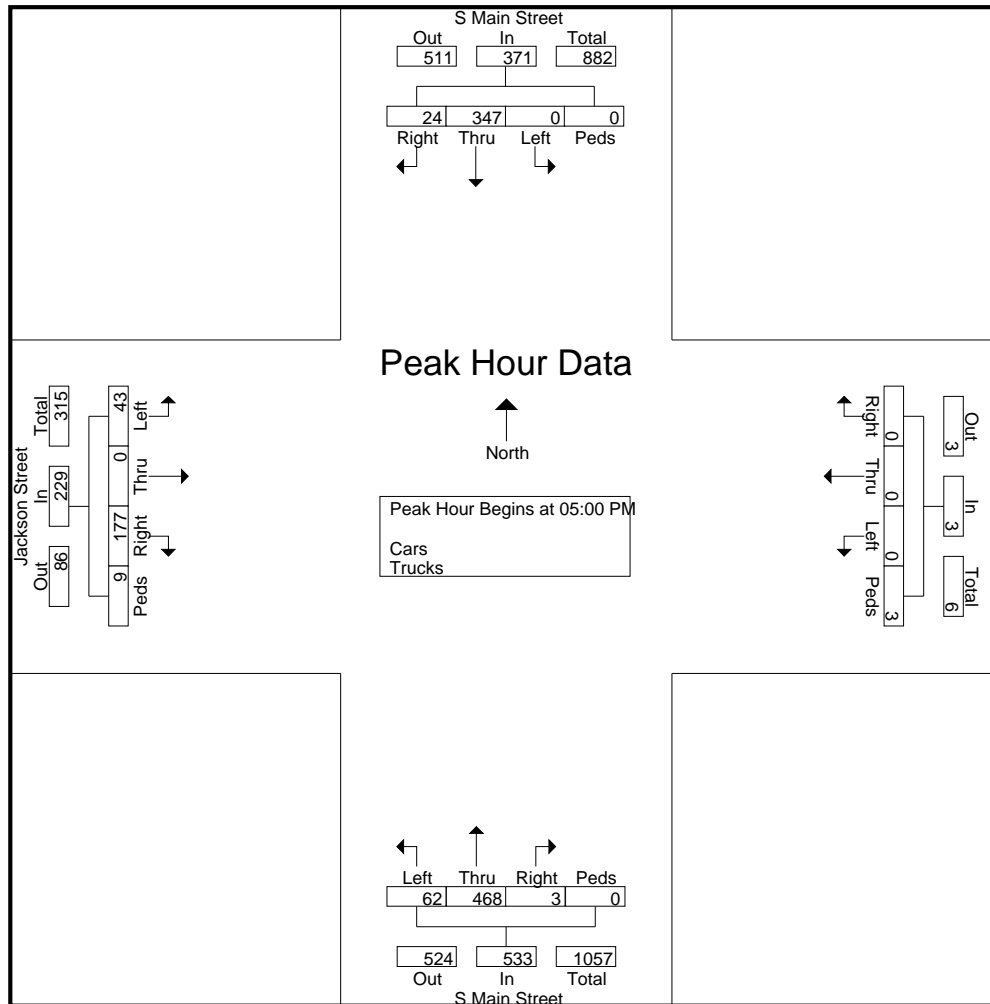
SEPI Engineering & Construction

1025 Wade Avenue
Raleigh, NC 27605
(919) 789-9977

Project: Davidson Parking Study
Date: 12/15/10
Counter: SEPI Engineering & Construction
Weather: Sunny

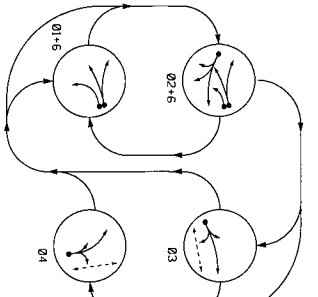
File Name : 10014001
Site Code : 10014001
Start Date : 12/15/2010
Page No : 4

Start Time	S Main Street Southbound					Westbound					S Main Street Northbound					Jackson Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 12:45 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:00 PM																					
05:00 PM	0	84	7	0	91	0	0	0	1	1	11	116	0	0	127	12	0	41	5	58	277
05:15 PM	0	84	7	0	91	0	0	0	0	0	14	123	0	0	137	14	0	43	1	58	286
05:30 PM	0	77	2	0	79	0	0	0	1	1	20	118	0	0	138	6	0	49	2	57	275
05:45 PM	0	102	8	0	110	0	0	0	1	1	17	111	3	0	131	11	0	44	1	56	298
Total Volume	0	347	24	0	371	0	0	0	3	3	62	468	3	0	533	43	0	177	9	229	1136
% App. Total	0	93.5	6.5	0		0	0	0	100		11.6	87.8	0.6	0		18.8	0	77.3	3.9		
PHF	.000	.850	.750	.000	.843	.000	.000	.000	.750	.750	.775	.951	.250	.000	.966	.768	.000	.903	.450	.987	.953



Appendix C – Traffic Signal Plans

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

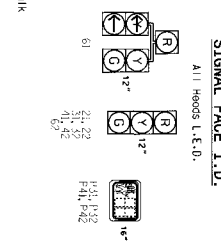
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	1	2	3	4
21, 22	R	G	R	Y
31, 32	R	R	G	R
41, 42	R	R	G	R
61	G	R	R	Y
62	G	R	R	Y

N - WALK
 DN - DON'T WALK
 DR - DON'T WALK
 W - WALK
 WR - DON'T WALK

SIGNAL FACE I.D.



OASIS 2070L LOOP & DETECTOR INSTALLATION CHART

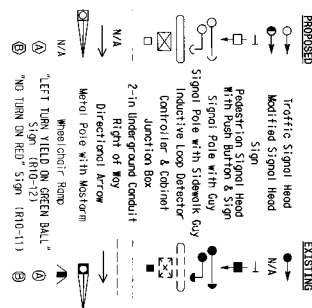
LOOP	INDUCTIVE LOOPS		DETECTOR PROGRAMMING				SYSTEM LOOP
	SIZE (ft)	DISTANCE (ft)	NEW	EXISTING	EXTENSION	FULL TIME DELAY	
1A	6X15	15	EXISTING	6	Y	-	10
2A	6X40	0	EXISTING	2	Y	-	-
3A	6X40	15	EXISTING	3	Y	-	-
4A	6X40	0	EXISTING	4	Y	-	10
6A	6X40	0	EXISTING	6	Y	-	-

4 PHASE FULLY ACTIVATED (ISOLATED)

NOTES

- Refer to "Roadway Standard Design Manual" dated July 2006, "Standard Specifications for Roads and Structures" dated July 2006. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Enable backup protection for phase 6 to allow the controller to clear from phase 2+6 to phase 1+6 by progressing through an all red display
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
- Pavement markings are existing.

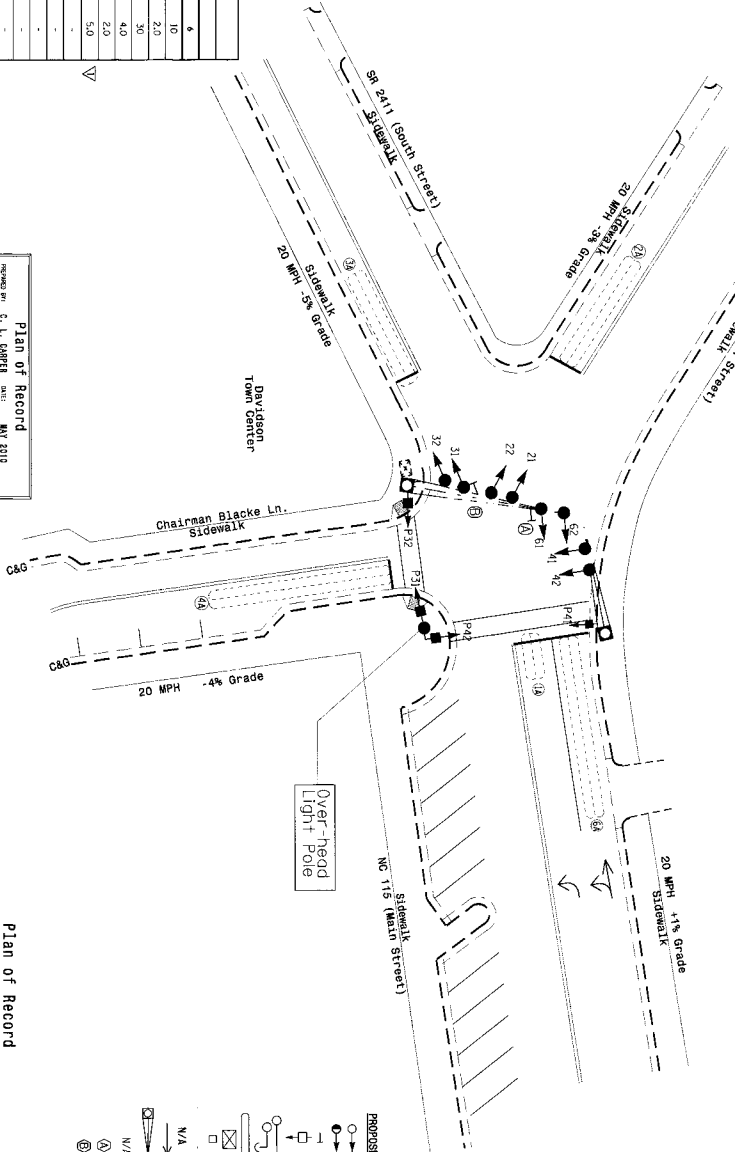
LEGEND



OASIS 2070L TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1*	8	10	7	7	10	10
Extension 1*	4.0	2.0	1.0	1.0	2.0	2.0
Min Green 1*	20	30	20	20	30	30
Yellow Clearance	4.0	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.5	2.0	2.0	2.0	2.0	2.0
Red Interval	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1*	-	-	1.0	1.0	-	-
Don't Walk 1	-	-	4.0	5.0	-	-

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 4 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



Plan of Record

DESIGNED BY: C. L. CARROLL
 CHECKED BY: K. BARRON
 DATE: 6/15/10
 SCALE: AS SHOWN
 PROJECT NO.: 10-0257

Plan of Record

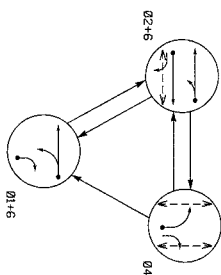
DESIGNED BY: C. L. CARROLL
 CHECKED BY: K. BARRON
 DATE: 6/15/10
 SCALE: AS SHOWN
 PROJECT NO.: 10-0257

Plan of Record

SR 2411 (South Street) /
 at
 Chairman Blacke Ln., DAVISON

DIVISION 10
 PROJECT NO. 10-0257
 SHEET NO. 115-1

PHASING DIAGRAM

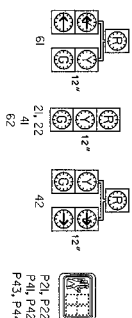


SIGNAL FACE I.D.

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	1	2	3	4
21, 22	R	G	R	Y
41	R	G	R	Y
42	R	G	R	Y
61	G	R	Y	
62	G	R	Y	
P21, P22	DM	W	DM	DM
P41, P42	DM	DM	W	DM
P43, P44	DM	DM	W	DM

W - WALK
DM - DON'T WALK
DKK - DON'T WALK



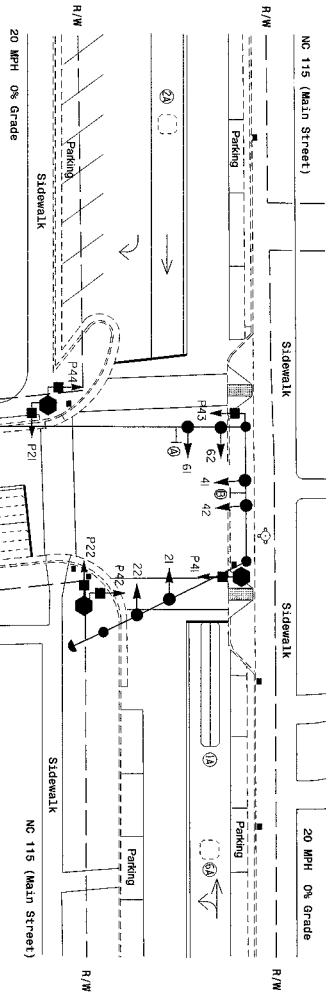
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE FROM SIGNAL	DISTANCE (FT)	TURNS	DETECTOR PROGRAMMING			
				NEW LOOP	CALLBACK	EXTENSION	PULL TIME DELAY
1A	6X40	0	2-4-2	Y	Y	Y	15
1B	6X60	0	2-4-2	Y	Y	Y	15
2A	6X60	70	4	Y	Y	Y	3
4A	6X60	0	2-4-2	Y	Y	Y	3
6A	6X6	70	4	Y	Y	Y	3

NOTES

- Refer to "Roadway Standard Drawings NDDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- Unit "WALK" and flashing "DON'T WALK" with no pedestrian coil is.
- Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
- Prevalent markings are existing. Clearances Interval timings may be adjusted (not essentially unit) required values or rechecked.

3 Phase Fully Actuated Isolated

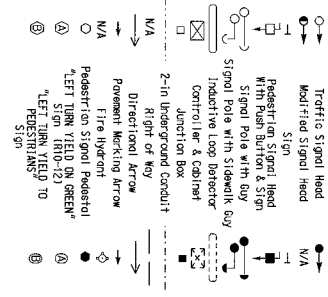


2070L TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green 1"	7	10	7	10
Extension 1"	2.0	3.0	1.0	3.0
Max Green 1"	20	45	30	45
Yellow Clearance	3.0	3.0	3.0	3.0
Red Clearance	2.3	2.4	2.3	2.4
Walk 1"	-	7	7	-
Don't Walk 1"	-	9	9	-
Seconds Per Actuation	-	-	-	-
Max Variable Initial	-	-	-	-
Time Before Retraction *	-	-	-	-
Minimum Gap	-	-	-	-
Headstart	-	-	-	-
Vehicle Callaway	-	-	-	-
Don't Drive	ON	ON	ON	ON
Simultaneous Gap	ON	ON	ON	ON

* These values may be bid adjusted. Do not adjust Min Green and Extension times for bid. These values are for informational purposes only. Bidder should refer to the lowest time of seconds.

LEGEND



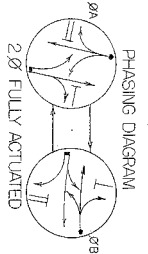
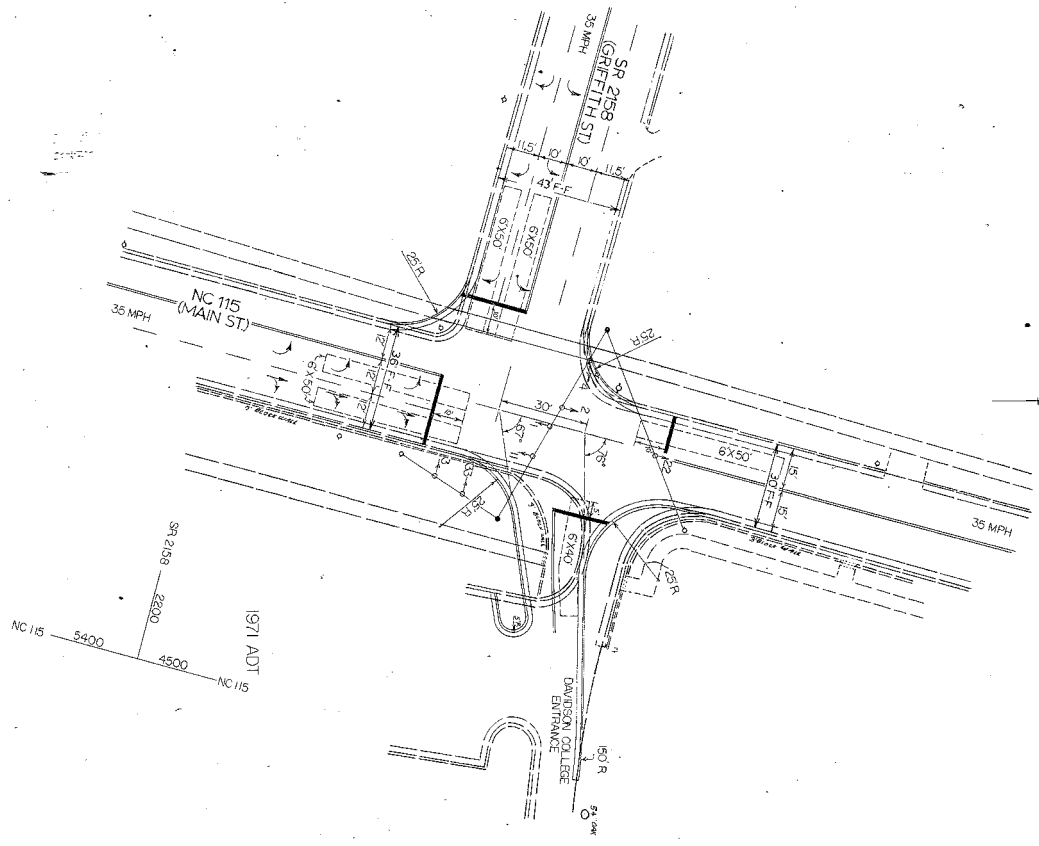
Signal Upgrade

NC 115 (Main Street) at SR 2693 (Concord Road)

Division of Transportation, M. BARRON

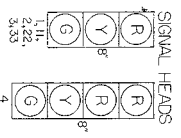
Scale: 1"=20'

10/16/10



COLOR SEQUENCE CHART

SIGNAL HEAD	20A	20B	20C	20D	20E	20F	20G	20H
1111.222	G	R	R	R	R	R	R	R
3.33	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R



- LEGEND
- SIGNAL HEAD
 - LOOP
 - NEW POLE
 - EXISTING POLE
 - ▬ EXISTING CURBING & GUTTER
 - ▬ NEW CURBING & GUTTER

SET ALL PHASES
INITIAL INTERVAL: 6 SEC.
VERTICAL INTERVAL: 0 SEC.

USE NEW EQUIPMENT
UPGRADE SIGNAL

— PLAN A —

SIGNAL NO. 10-2158-2150

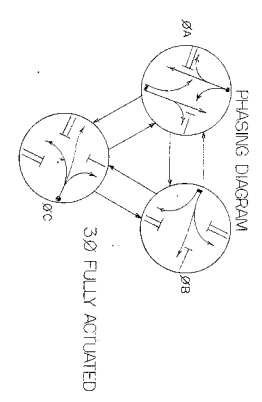
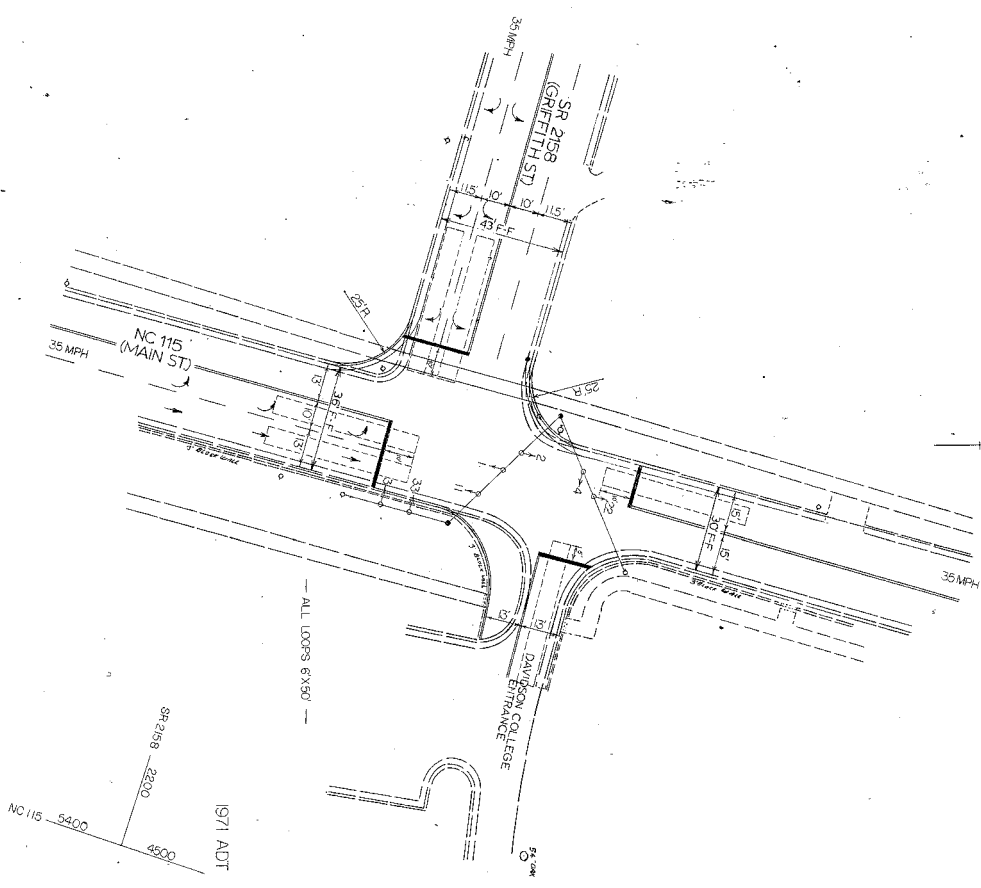
DESIGN FOR THE INTERSECTION OF
NC 115 (MAIN ST) & SR 2158 (GRIFFITH ST)
& DAVIDSON COLLEGE ENTRANCE

MECKLENBURG COUNTY
N. C. STATE HIGHWAY
COMMISSION
TRAFFIC ENGINEERING
DIVISION 10

DATE: 9-20-72
SCALE: 1" = 20'

DESIGNED BY: R.H. HARRIS
CHECKED BY: J. H. HARRIS
DRAWN BY: J. H. HARRIS

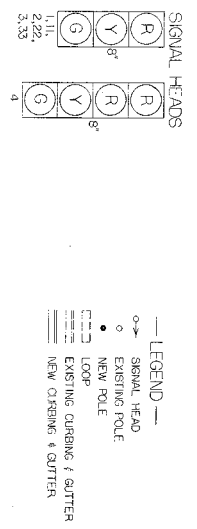
FILE NO. 10-2158-2150



COLOR SEQUENCE CHART

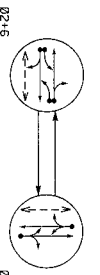
SIGNAL HEAD	Ø A	Ø B	Ø C	FLASH
L11, 222	R / W	Ø A	R / W	Ø A
3, 333	R / W	Ø B	R / W	Ø B
4	R / W	Ø C	R / W	Ø C

SET ALL PHASES
INITIAL INTERVAL - 6 SEC.
VEHICLE INTERVAL - 0.550.



UPGRADE SIGNAL SIGNAL NO. 10-387 240
 USE NEW EQUIPMENT — PLAN B —
 DESIGN FOR THE INTERSECTION OF
 NC 115 (MAIN ST) & SR 2158 (GRIFFITH ST)
 & DAVIDSON COLLEGE ENTRANCE
 DAVIDSON
 MECKLENBURG CO. DIVISION 10
 SCALE: 1" = 20'
 DATE: 9-20-72
 DRAWN BY: R.H.H.
 CHECKED BY: J.E.
 APPROVED BY: J.E.
 N.C. STATE HIGHWAY
 COMMISSION
 TRAFFIC ENGINEERING
 DEPARTMENT
 SIGNAL NO. 10-387 240
 FILE NO. 10-240

FLASHING DIAGRAM

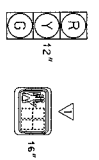


- FLASHING DIAGRAM DETECTION LEGEND**
- DETECTED MOVEMENT (OVERLAP)
 - UNDETECTED MOVEMENT (OVERLAP)
 - UNDETECTED MOVEMENT (OVERLAP)
 - UNDETECTED MOVEMENT (OVERLAP)
 - UNDETECTED MOVEMENT (OVERLAP)
 - UNDETECTED MOVEMENT (OVERLAP)
 - UNDETECTED MOVEMENT (OVERLAP)

TABLE OF OPERATION

PHASE	PHASE	PHASE	PHASE	PHASE	PHASE
21, 22	41, 42	61, 62, 63	81, 82	P21, P22	M, M2, M3
21, 22	41, 42	61, 62, 63	81, 82	P21, P22	M, M2, M3

SIGNAL FACE I.D.

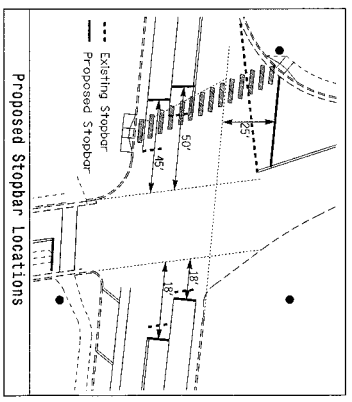


ALL HEADS LEADS

V - NOIK
 DM - DAY + NOIK
 DRK - DARK

2070L LOOP & DETECTOR INSTALLATION

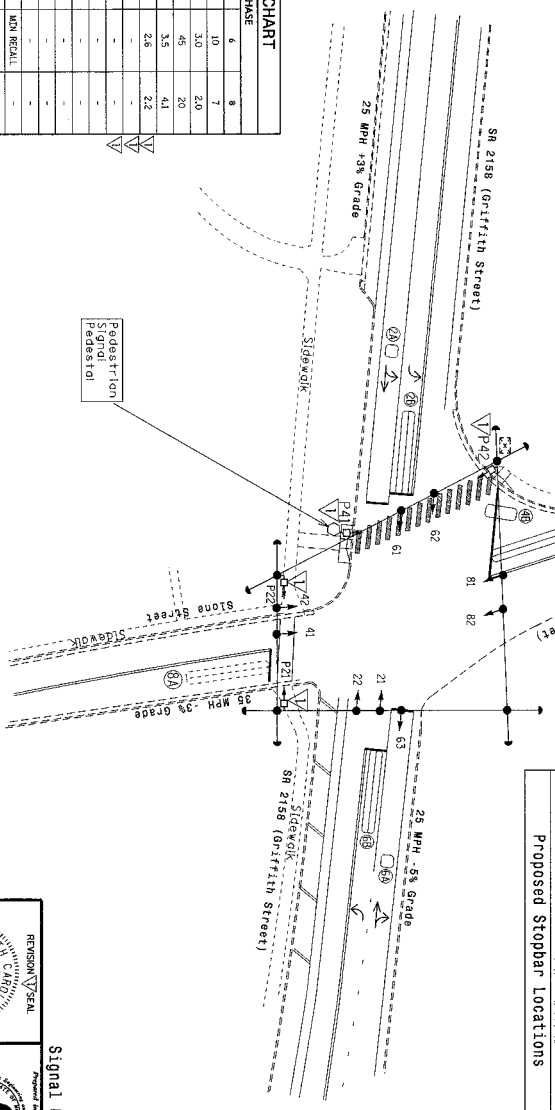
LOOP	INDUCTIVE LOOPS		DETECTOR PROGRAMMING	
	FROM	TO	CALLING	EXTENSION
2A	6X6	70	3	Y
2B	6X40	0	2-4-2	Y
4A	6X40	0	2-4-2	Y
4B	6X5	+5	3	Y
6A	6X6	70	3	Y
6B	6X40	0	2-4-2	Y
8A	6X40	0	2-4-2	Y



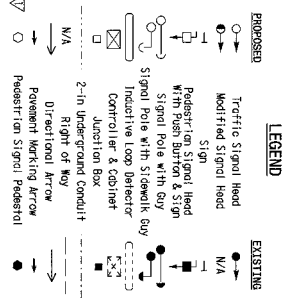
2070L TIMING CHART

FEATURE	2	4	6	9
Min Green 1 *	10	7	10	7
Extension 1 *	3.0	2.0	3.0	2.0
Min Green 1 *	45	20	45	20
Yellow Clearance	3.1	4.1	3.5	4.1
Red Clearance	2.5	4.2	2.6	2.2
Walk 1 *	7	7	15	-
Down Walk 1	-	-	-	-
Second Ped/Extension *	-	-	-	-
Min Variable Interval *	-	-	-	-
Time to Redout *	-	-	-	-
Minimum Gap	-	-	-	-
Redout/Maxd	MIN REDAL	-	MIN REDAL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Lead Entry	-	ON	ON	ON
Simultaneous Gap	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 and 9 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006. Do not program signal for 'left turn right flashing operation' unless otherwise directed by the Engineer.
 - Set all detector units to presence mode.
 - Unit "WALK" and flashing "DON'T WALK" with no pedestrian coils.
 - Program pedestrian heads to count down the flashing "Don't Walk" time only.



Signal Upgrade

SR 2158 (Griffith Street) at SR 2861 (Beatty Street) / Sloan Street

Division 10 - Multi-County Division
 Project No. 2006-01-01
 Prepared by: C.E. DILLISTON
 Checked by: M. RANDOLPH

DATE: 6/10/09

Scale: 1" = 30'

156 INTERSECTION NO. 10-1072

Appendix D – Traffic Accident Information

**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Fiche, Intersection, and Strip Reports Code Index**

T - Type of Accident Codes	F - Road Feature Codes
0 = UNKNOWN	0 = NO SPECIAL FEATURE
1 = RAN OFF ROAD - RIGHT	1 = BRIDGE
2 = RAN OFF ROAD - LEFT	2 = BRIDGE APPROACH
3 = RAN OFF ROAD - STRAIGHT	3 = UNDERPASS
4 = JACKKNIFE	4 = DRIVEWAY, PUBLIC
5 = OVERTURN/ROLLOVER	5 = DRIVEWAY, PRIVATE
13 = OTHER NON-COLLISION	6 = ALLEY INTERSECTION
14 = PEDESTRIAN	7 = FOUR-WAY INTERSECTION
15 = PEDALCYCLIST	8 = T-INTERSECTION
16 = RR TRAIN, ENGINE	9 = Y-INTERSECTION
17 = ANIMAL	10 = TRAFFIC CIRCLE/ROUNDBOUT
18 = MOVABLE OBJECT	11 = FIVE-POINT, OR MORE
19 = FIXED OBJECT	12 = RELATED TO INTERSECTION
20 = PARKED MOTOR VEHICLE	13 = NON-INTERSECTION MEDIAN CROSSING
21 = REAR END, SLOW OR STOP	14 = END OR BEGINNING - DIVIDED HIGHWAY
22 = REAR END, TURN	15 = OFF RAMP ENTRY
23 = LEFT TURN, SAME ROADWAY	16 = OFF RAMP PROPER
24 = LEFT TURN, DIFFERENT ROADWAYS	17 = OFF RAMP TERMINAL ON CROSSROAD
25 = RIGHT TURN, SAME ROADWAY	18 = MERGE LANE BETWEEN ON AND OFF RAMP
26 = RIGHT TURN, DIFFERENT ROADWAYS	19 = ON RAMP ENTRY
27 = HEAD ON	20 = ON RAMP PROPER
28 = SIDESWIPE, SAME DIRECTION	21 = ON RAMP TERMINAL ON CROSSROAD
29 = SIDESWIPE, OPPOSITE DIRECTION	22 = RAILROAD CROSSING
30 = ANGLE	23 = TUNNEL
31 = BACKING UP	24 = SHARED-USE PATHS OR TRAILS
32 = OTHER COLLISION WITH VEHICLE	25 = OTHER

R - Road Condition Codes	L - Light Condition Codes	W - Weather Condition Codes
1 = DRY	1 = DAYLIGHT	1 = CLEAR
2 = WET	2 = DUSK	2 = CLOUDY
3 = WATER (STANDING, MOVING)	3 = DAWN	3 = RAIN
4 = ICE	4 = DARK - LIGHTED ROADWAY	4 = SNOW
5 = SNOW	5 = DARK - ROADWAY NOT LIGHTED	5 = FOG, SMOG, SMOKE
6 = SLUSH	6 = DARK - UNKNOWN LIGHTING	6 = SLEET, HAIL, FREEZING RAIN/DRIZZLE
7 = SAND, MUD, DIRT, GRAVEL	7 = OTHER	7 = SEVERE CROSSWINDS
8 = FUEL, OIL	8 = UNKNOWN	8 = BLOWING SAND, DIRT, SNOW
9 = OTHER		9 = OTHER
10 = UNKNOWN		

S - Accident Severity Codes	Ch - Road Character	Op - Traffic Control Operating
K = FATAL	1 = STRAIGHT, LEVEL	1 = YES
A = A-LEVEL INJURY	2 = STRAIGHT, HILLCREST	2 = NO
B = B-LEVEL INJURY	3 = STRAIGHT, GRADE	3 = UNKNOWN
C = C-LEVEL INJURY	4 = STRAIGHT, BOTTOM (SAG)	
O = PROPERTY DAMAGE ONLY	5 = CURVE, LEVEL	
	6 = CURVE, HILLCREST	
	7 = CURVE, GRADE	
	8 = CURVE, BOTTOM (SAG)	
	9 = OTHER	

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**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Fiche, Intersection, and Strip Reports Code Index**

Veh Mnvr - Vehicle Maneuver Codes	Dv - Traffic Control Device
1 = STOPPED IN TRAVEL LANE	0 = NO CONTROL PRESENT
2 = PARKED OUT OF TRAVEL LANES	1 = STOP SIGN
3 = PARKED IN TRAVEL LANES	2 = YIELD SIGN
4 = GOING STRAIGHT AHEAD	3 = STOP AND GO SIGNAL
5 = CHANGING LANES OR MERGING	4 = FLASHING SIGNAL WITH STOP SIGN
6 = PASSING	5 = FLASHING SIGNAL WITHOUT STOP SIGN
7 = MAKING RIGHT TURN	6 = RR GATE AND FLASHER
8 = MAKING LEFT TURN	7 = RR FLASHER
9 = MAKING U-TURN	8 = RR CROSSBUCKS ONLY
10 = BACKING	9 = HUMAN CONTROL
11 = SLOWING OR STOPPING	10 = WARNING SIGN
12 = STARTING IN ROADWAY	11 = SCHOOL ZONE SIGNS
13 = PARKING	12 = FLASHING STOP AND GO SIGNAL
14 = LEAVING PARKED POSITION	13 = DOUBLE YELLOW LINE, NO PASSING ZONE
15 = AVOIDING OBJECT IN ROAD	14 = OTHER

Alch/Drugs - Driver Alcohol/Drugs Suspected Status Codes	Ped Actn - Pedestrian Action Codes	Ci - Roadway Contributing Circumstances
0 = NO	1 = ENTERING OR CROSSING SPECIFIED LOCATION	0 = NONE (NO UNUSUAL CONDITIONS)
1 = YES - ALCOHOL, IMPAIRMENT SUSPECTED	2 = WALKING, RIDING, RUNNING/JOGGING WITH TRAFFIC	1 = ROAD SURFACE CONDITION
2 = YES - ALCOHOL, NO IMPAIRMENT DETECTED	3 = WALKING, RIDING, RUNNING/JOGGING AGAINST TRAFFIC	2 = DEBRIS
3 = YES - OTHER DRUGS, IMPAIRMENT SUSPECTED	4 = WORKING	3 = RUT, HOLES, BUMPS
4 = YES - OTHER DRUGS, NO IMPAIRMENT DETECTED	5 = PUSHING VEHICLE	4 = WORK ZONE (CONSTRUCTION, MAINTENANCE, UTILITY)
5 = YES - ALCOHOL AND OTHER DRUGS, IMPAIRMENT SUSPECTED	6 = APPROACHING OR LEAVING VEHICLE	5 = WORN TRAVEL-POLISHED SURFACE
6 = YES - ALCOHOL AND OTHER DRUGS, NO IMPAIRMENT DETECTED	7 = PLAYING	6 = OBSTRUCTION IN ROADWAY
7 = UNKNOWN	8 = STANDING	7 = TRAFFIC CONTROL DEVICE INOPERATIVE, NOT VISIBLE OR MISSING
	9 = OTHER	8 = SHOULDERS LOW, SOFT OR HIGH
		9 = NO SHOULDERS
		10 = NON-HIGHWAY WORK
		11 = OTHER
		12 = UNKNOWN

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**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Fiche, Intersection, and Strip Reports Code Index**

Obj Strk - Object Struck Codes	Unit # - Vehicle Style Codes
14 = PEDESTRIAN	1 = PASSENGER CAR
15 = PEDALCYCLIST	2 = PICKUP
17 = ANIMAL	3 = LIGHT TRUCK (MINI-VAN, PANEL)
18 = MOVABLE OBJECT	4 = SPORT UTILITY
20 = PARKED MOTOR VEHICLE	5 = VAN
33 = TREE	6 = COMMERCIAL BUS
34 = UTILITY POLE	7 = SCHOOL BUS
35 = LUMINAIRE POLE NON-BREAKAWAY	8 = ACTIVITY BUS
36 = LUMINAIRE POLE BREAKAWAY	9 = OTHER BUS
37 = OFFICIAL HIGHWAY SIGN NON-BREAKAWAY	10 = SINGLE UNIT TRUCK (2-AXLE, 6-TIRE)
38 = OFFICIAL HIGHWAY SIGN BREAKAWAY	11 = SINGLE UNIT TRUCK (3 OR MORE AXLES)
39 = OVERHEAD SIGN SUPPORT	12 = TRUCK/TRAILER
40 = COMMERCIAL SIGN	13 = TRUCK/TRACTOR
41 = GUARDRAIL END ON SHOULDER	14 = TRACTOR/SEMI-TRAILER
42 = GUARDRAIL FACE ON SHOULDER	15 = TRACTOR/DOULBES
43 = GUARDRAIL END IN MEDIAN	16 = UNKNOWN HEAVY TRUCK
44 = GUARDRAIL FACE IN MEDIAN	17 = TAXICAB
45 = SHOULDER BARRIER END	18 = FARM EQUIPMENT
46 = SHOULDER BARRIER FACE	19 = FARM TRACTOR
47 = MEDIAN BARRIER END	20 = MOTORCYCLE
48 = MEDIAN BARRIER FACE	21 = MOPEL
49 = BRIDGE RAIL END	22 = MOTOR SCOOTER OR MOTOR BIKE
50 = BRIDGE RAIL FACE	23 = PEDALCYCLE
51 = OVERHEAD PART UNDERPASS	24 = PEDESTRIAN
52 = PIER ON SHOULDER OF UNDERPASS	25 = MOTOR HOME/RECREATIONAL VEHICLE
53 = PIER IN MEDIAN OF UNDERPASS	26 = OTHER
54 = ABUTMENT OF UNDERPASS	27 = ALL TERRAIN VEHICLE (ATV)
55 = TRAFFIC ISLAND CURB OR MEDIAN	28 = FIRETRUCK
56 = CATCH BASIN OR CULVERT ON SHOULDER	29 = EMS VEHICLE, AMBULANCE, RESCUE SQUAD
57 = CATCH BASIN OR CULVERT ON MEDIAN	30 = MILITARY
58 = DITCH	31 = POLICE
59 = EMBANKMENT	32 = UNKNOWN
60 = MAILBOX	
61 = FENCE OR FENCE POST	
62 = CONSTRUCTION BARRIER	
63 = CRASH CUSHION	
64 = OTHER FIXED OBJECT	

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria Summary

County: MECKLENBURG City: All and Rural
Date: 10/01/2007 to 09/30/2010 Study: MM410000410140
Location: Crash analysis at intersection of SR 2158 (Griffith Street) and Sloan Street.

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl	
					F	A	B	C	R	L	W	Ch	Ci		Dv
1	102220622	12/18/2007 13:40	OTHER NON-COLLISION	\$ 4500	0	0	0	1	1	1	1	1	3	0	0
Unit	1 : 1	Alchl/Drgs: 0	Speed: 25 MPH	Dir: E	Veh Mnvr / Ped Actn:	4	Obj Strk:								
Unit	2 : 2	Alchl/Drgs: 0	Speed: 5 MPH	Dir: W	Veh Mnvr / Ped Actn:	4	Obj Strk:								
2	102258433	02/08/2008 16:21	REAR END, SLOW OR STOP	\$ 1750	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 4	Alchl/Drgs: 0	Speed: 10 MPH	Dir: S	Veh Mnvr / Ped Actn:	4	Obj Strk:								
Unit	2 : 5	Alchl/Drgs: 0	Speed: 0 MPH	Dir: S	Veh Mnvr / Ped Actn:	1	Obj Strk:								
3	102481956	12/06/2008 20:47	SIDESWIPE, SAME DIRECTION	\$ 12500	0	0	0	0	1	4	2	3	0		
Unit	1 : 1	Alchl/Drgs: 0	Speed: 25 MPH	Dir: E	Veh Mnvr / Ped Actn:	4	Obj Strk:								
Unit	2 : 1	Alchl/Drgs: 7	Speed: 0 MPH	Dir: E	Veh Mnvr / Ped Actn:	2	Obj Strk:								
4	102499746	12/23/2008 18:04	ANIMAL	\$ 1000	0	0	0	0	1	4	1	1	0	0	
Unit	1 : 1	Alchl/Drgs: 0	Speed: 30 MPH	Dir: N	Veh Mnvr / Ped Actn:	4	Obj Strk:	17							

Acc No - Accident Number
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather
Report Details: Rd Ch - Road Character
Rd Cl - Roadway Contributing Circumstances
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating
Alchl/Drgs - Alcohol/Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	1	25.00
Total Injury Crashes	1	25.00
Property Damage Only Crashes	3	75.00
Night Crashes	2	50.00
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	0	0.00
Class C Crashes	1	25.00
Property Damage Only Crashes	3	75.00

Vehicle Exposure Statistics

Annual ADT = 11500
Total Vehicle Exposure = 12.6 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	31.74
Fatal Crash Rate	0.00
Non Fatal Crash Rate	7.93
Night Crash Rate	15.87
Wet Crash Rate	0.00
EPDO Rate	90.45

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Miscellaneous Statistics

Severity Index = 2.85
EPDO Crash Index = 11.40
Estimated Property Damage Total = \$ 19750.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANIMAL	1	25.00
OTHER NON-COLLISION	1	25.00
REAR END, SLOW OR STOP	1	25.00
SIDESWIPE, SAME DIRECTION	1	25.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	0	0.00
Class C Injuries	1	100.00
Total Non-Fatal Injuries	1	100.00
Total Injuries	1	100.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	1	25.00
Mar	0	0.00
Apr	0	0.00
May	0	0.00
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	0	0.00
Oct	0	0.00
Nov	0	0.00
Dec	3	75.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	0	0.00
Tue	2	50.00
Wed	0	0.00
Thu	0	0.00
Fri	1	25.00
Sat	1	25.00
Sun	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	0	0.00
0700-0759	0	0.00
0800-0859	0	0.00
0900-0959	0	0.00
1000-1059	0	0.00
1100-1159	0	0.00
1200-1259	0	0.00
1300-1359	1	25.00
1400-1459	0	0.00
1500-1559	0	0.00
1600-1659	1	25.00
1700-1759	0	0.00
1800-1859	1	25.00
1900-1959	0	0.00
2000-2059	1	25.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	2	0	0	2
Dark	2	0	0	2
Other	0	0	0	0
Total	4	0	0	4

Object Struck Summary

Object Type	Times Struck	Percent of Total
ANIMAL	1	100.00

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	4	57.14
PICKUP	1	14.29
SPORT UTILITY	1	14.29
VAN	1	14.29

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2007	1	0	1	0
2008	3	0	0	3
2009	0	0	0	0
2010	0	0	0	0
Total	4	0	1	3

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2007	0	1
2008	0	0
2009	0	0
2010	0	0
Total	0	1

Miscellaneous Totals

Year	Property Damage	EPDO Index
2007	\$ 4500	8.40
2008	\$ 15250	3.00
2009	\$ 0	0.00
2010	\$ 0	0.00
Total	\$ 19750	11.40

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object			
				Angle	Side Swipe	Other	
2007	0	0	0	0	0	0	1
2008	0	0	1	0	0	1	1
2009	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0
Total	0	0	1	0	0	1	2

12/02/2010

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route	
MM410000410140	41000010140			76.8	8.4	13500		
Request Date	Courier Service	Phone No.	Ext.	Fax No.				
11/24/2010		919 573 9919		919 789 9591				
County		Municipality						
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
MECKLENBURG	59	10	All and Rural		150	10/01/2007	09/30/2010	3.00
Location Text				Requestor				
Crash analysis at intersection of SR 2158 (Griffith Street) and Sloan Street.				Jeffrey P. Hochanadel Sepi Eng 1025 Wade Ave Raleigh, NC 27605				
Included Accidents								
102220622								
102499746								

Fiche Roads

Name	Code
BEATTY	50034407
DEPOT	50008300
GRIFFIN	50012570
GRIFFITH	50012584
SLOAN	50028393
SR 2158	40002158

Intersection Road Combinations

Name	Code	Code	Name
SR 2158	40002158	50008300	DEPOT
SR 2158	40002158	50028393	SLOAN
SR 2158	40002158	50034407	BEATTY
GRIFFIN	50012570	50008300	DEPOT
GRIFFIN	50012570	50028393	SLOAN
GRIFFIN	50012570	50034407	BEATTY
GRIFFITH	50012584	50008300	DEPOT
GRIFFITH	50012584	50028393	SLOAN
GRIFFITH	50012584	50034407	BEATTY

12/02/2010

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria Summary

County: MECKLENBURG City: All and Rural
Date: 10/01/2007 to 09/30/2010 Study: EDW41000010223
Location: SR 2158 (Griffith Street) @ SR 2733 (Jackson Street)

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl		
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op	
1	102177042	10/28/2007 16:50	ANGLE	\$ 1600	0	0	0	0	1	1	1	1	3	0	1	1
Unit	1 : 2	Alchl/Drgs: 0	Speed: 15 MPH	Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 15 MPH	Dir: W	Veh Mnvr / Ped Actn: 4	Obj Strk:										
2	102607984	05/30/2009 15:07	REAR END, SLOW OR STOP	\$ 5500	0	0	0	0	1	1	1	3	0	0		
Unit	1 : 1	Alchl/Drgs: 1	Speed: 25 MPH	Dir: W	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 5 MPH	Dir: W	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	3 : 1	Alchl/Drgs: 0	Speed: 0 MPH	Dir: W	Veh Mnvr / Ped Actn: 1	Obj Strk:										

Acc No - Accident Number
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather
Legend for Report Details: Rd Ch - Road Character
Rd Cl - Roadway Contributing Circumstances
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating
Alchl/Drgs - Alcohol/Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

12/08/2010

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	2	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	0	0.00
Total Injury Crashes	0	0.00
Property Damage Only Crashes	2	100.00
Night Crashes	0	0.00
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	1	50.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	2	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	0	0.00
Class C Crashes	0	0.00
Property Damage Only Crashes	2	100.00

Vehicle Exposure Statistics

Annual ADT = 8000
Total Vehicle Exposure = 8.77 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	22.81
Fatal Crash Rate	0.00
Non Fatal Crash Rate	0.00
Night Crash Rate	0.00
Wet Crash Rate	0.00
EPDO Rate	22.81

12/08/2010

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Miscellaneous Statistics

Severity Index = 1.00
EPDO Crash Index = 2.00
Estimated Property Damage Total = \$ 7100.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANGLE	1	50.00
REAR END, SLOW OR STOP	1	50.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	0	0.00
Class C Injuries	0	0.00
Total Non-Fatal Injuries	0	0.00
Total Injuries	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	0	0.00
Mar	0	0.00
Apr	0	0.00
May	1	50.00
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	0	0.00
Oct	1	50.00
Nov	0	0.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	0	0.00
Tue	0	0.00
Wed	0	0.00
Thu	0	0.00
Fri	0	0.00
Sat	1	50.00
Sun	1	50.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	0	0.00
0700-0759	0	0.00
0800-0859	0	0.00
0900-0959	0	0.00
1000-1059	0	0.00
1100-1159	0	0.00
1200-1259	0	0.00
1300-1359	0	0.00
1400-1459	0	0.00
1500-1559	1	50.00
1600-1659	1	50.00
1700-1759	0	0.00
1800-1859	0	0.00
1900-1959	0	0.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	2	0	0	2
Dark	0	0	0	0
Other	0	0	0	0
Total	2	0	0	2

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	4	80.00
PICKUP	1	20.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2007	1	0	0	1
2008	0	0	0	0
2009	1	0	0	1
2010	0	0	0	0
Total	2	0	0	2

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2007	0	0
2008	0	0
2009	0	0
2010	0	0
Total	0	0

Miscellaneous Totals

Year	Property Damage	EPOD Index
2007	\$ 1600	1.00
2008	\$ 0	0.00
2009	\$ 5500	1.00
2010	\$ 0	0.00
Total	\$ 7100	2.00

Type of Accident Totals

Year	Run Off Road & Fixed Object						
	Left Turn	Right Turn	Rear End	Angle	Side Swipe	Other	Other
2007	0	0	0	0	1	0	0
2008	0	0	0	0	0	0	0
2009	0	0	1	0	0	0	0
2010	0	0	0	0	0	0	0
Total	0	0	1	0	1	0	0

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
EDW41000010223	41000010223			76.8	8.4	8000	

Request Date	Courier Service	Phone No.	Ext.	Fax No.
11/29/2010		(919) 789-9977		(919) 789-9591

County		Municipality						
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
MECKLENBURG	59	10	All and Rural		150	10/01/2007	09/30/2010	3.00

Location Text	Requestor
SR 2158 (Griffith Street) @ SR 2733 (Jackson Street)	Jeffrey P. Hochanadel SEPI 1025 Wade Ave Raleigh, NC

Included Accidents
102607984

Fiche Roads

Name	Code
SR 2158	40002158
SR 2733	40002733
GRIFFITH	50012584
JACKSON	50015195

Intersection Road Combinations

Name	Code	Code	Name
SR 2158	40002158	40002733	SR 2733
SR 2158	40002158	50015195	JACKSON
SR 2733	40002733	50012584	GRIFFITH
GRIFFITH	50012584	50015195	JACKSON

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria Summary

County: MECKLENBURG City: All and Rural
Date: 10/01/2007 to 09/30/2010 Study: MM41000010100
Location: Crash analysis at intersection of NC 115 (N. Main Street) and SR 2158 (Griffith Street).

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl		
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op	
1	102203054	11/27/2007 15:39	LEFT TURN, SAME ROADWAY	\$ 10000	0	0	0	2	1	1	1	1	1	0	3	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 20 MPH	Dir: N	Veh Mnvr / Ped Actn: 8	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 20 MPH	Dir: S	Veh Mnvr / Ped Actn: 4	Obj Strk:										
2	102278936	03/08/2008 06:40	REAR END, SLOW OR STOP	\$ 1000	0	0	0	1	2	1	2	1	0	3	1	
Unit	1 : 1	Alchl/Drgs: 0	Speed: 0 MPH	Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 5	Alchl/Drgs: 0	Speed: 15 MPH	Dir: N	Veh Mnvr / Ped Actn: 11	Obj Strk:										
3	102302753	04/11/2008 10:31	REAR END, SLOW OR STOP	\$ 3000	0	0	0	0	1	1	1	1	0			
Unit	1 : 1	Alchl/Drgs: 0	Speed: 0 MPH	Dir: S	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 2	Alchl/Drgs: 0	Speed: 0 MPH	Dir: S	Veh Mnvr / Ped Actn: 1	Obj Strk:										
4	102470107	11/25/2008 17:40	REAR END, SLOW OR STOP	\$ 7500	0	0	0	0	1	4	1	1	0	3	1	
Unit	1 : 1	Alchl/Drgs: 0	Speed: 5 MPH	Dir: S	Veh Mnvr / Ped Actn: 10	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 10 MPH	Dir: W	Veh Mnvr / Ped Actn: 4	Obj Strk:										
5	102966763	09/14/2010 17:21	LEFT TURN, SAME ROADWAY	\$ 3000	0	0	0	0	1	1	1	3	0	3	1	
Unit	1 : 1	Alchl/Drgs: 0	Speed: 10 MPH	Dir: W	Veh Mnvr / Ped Actn: 9	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 15 MPH	Dir: W	Veh Mnvr / Ped Actn: 4	Obj Strk:										

Acc No - Accident Number
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather
Legend for Report Details: Rd Ch - Road Character
Rd Ci - Roadway Contributing Circumstances
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating
Alchl/Drgs - Alcohol/Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	5	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	2	40.00
Total Injury Crashes	2	40.00
Property Damage Only Crashes	3	60.00
Night Crashes	1	20.00
Wet Crashes	1	20.00
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	5	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	0	0.00
Class C Crashes	2	40.00
Property Damage Only Crashes	3	60.00

Vehicle Exposure Statistics

Annual ADT = 17000
Total Vehicle Exposure = 18.63 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	26.84
Fatal Crash Rate	0.00
Non Fatal Crash Rate	10.73
Night Crash Rate	5.37
Wet Crash Rate	5.37
EPDO Rate	106.27

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Miscellaneous Statistics

Severity Index = 3.96
EPDO Crash Index = 19.80
Estimated Property Damage Total = \$ 24500.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
LEFT TURN, SAME ROADWAY	2	40.00
REAR END, SLOW OR STOP	3	60.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	0	0.00
Class C Injuries	3	100.00
Total Non-Fatal Injuries	3	100.00
Total Injuries	3	100.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	0	0.00
Mar	1	20.00
Apr	1	20.00
May	0	0.00
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	1	20.00
Oct	0	0.00
Nov	2	40.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	0	0.00
Tue	3	60.00
Wed	0	0.00
Thu	0	0.00
Fri	1	20.00
Sat	1	20.00
Sun	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	1	20.00
0700-0759	0	0.00
0800-0859	0	0.00
0900-0959	0	0.00
1000-1059	1	20.00
1100-1159	0	0.00
1200-1259	0	0.00
1300-1359	0	0.00
1400-1459	0	0.00
1500-1559	1	20.00
1600-1659	0	0.00
1700-1759	2	40.00
1800-1859	0	0.00
1900-1959	0	0.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	3	1	0	4
Dark	1	0	0	1
Other	0	0	0	0
Total	4	1	0	5

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	8	80.00
PICKUP	1	10.00
VAN	1	10.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2007	1	0	1	0
2008	3	0	1	2
2009	0	0	0	0
2010	1	0	0	1
Total	5	0	2	3

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2007	0	2
2008	0	1
2009	0	0
2010	0	0
Total	0	3

Miscellaneous Totals

Year	Property Damage	EPOD Index
2007	\$ 10000	8.40
2008	\$ 11500	10.40
2009	\$ 0	0.00
2010	\$ 3000	1.00
Total	\$ 24500	19.80

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object			
				Angle	Side Swipe	Other	
2007	1	0	0	0	0	0	0
2008	0	0	3	0	0	0	0
2009	0	0	0	0	0	0	0
2010	1	0	0	0	0	0	0
Total	2	0	3	0	0	0	0

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
MM41000010100	41000010100			76.8	8.4	17000	

Request Date	Courier Service	Phone No.	Ext.	Fax No.
11/24/2010		919 573 9919		919 789 9591

County		Municipality						
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
MECKLENBURG	59	10	All and Rural		150	10/01/2007	09/30/2010	3.00

Location Text	Requestor
Crash analysis at intersection of NC 115 (N. Main Street) and SR 2158 (Griffith Street).	Jeffrey P. Hochanadel Sepi Eng 1025 Wade Ave Raleigh, NC 27605

Included Accidents
102278936
102302753

Fiche Roads

Name	Code
NC 115	30000115
SR 2158	40002158
GRIFFIN	50012570
GRIFFITH	50012584
JACKSON	50015195
MAIN	50018682
MECKLENBURG	50019722

Intersection Road Combinations

Name	Code	Code	Name
NC 115	30000115	50012570	GRIFFIN
NC 115	30000115	50012584	GRIFFITH
NC 115	30000115	40002158	SR 2158
MECKLENBURG	50019722	50012584	GRIFFITH
MECKLENBURG	50019722	50012570	GRIFFIN
MECKLENBURG	50019722	40002158	SR 2158
MAIN	50018682	50012584	GRIFFITH
MAIN	50018682	50012570	GRIFFIN
MAIN	50018682	40002158	SR 2158

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria Summary

County: MECKLENBURG City: All and Rural
Date: 10/01/2007 to 09/30/2010 Study: EDW41000010224
Location: SR 2733 (Jackson Street) @ Depot Street

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl		
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op	
1	102563808	03/24/2009 12:26	BACKING UP	\$ 1000	0	0	0	0	1	1	1	3	0	0		
Unit	1 : 4	Alchl/Drgs: 0	Speed: 5 MPH	Dir: W	Veh Mnvr / Ped Actn: 10	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 7	Speed: 0 MPH	Dir: S	Veh Mnvr / Ped Actn: 10	Obj Strk:										

Acc No - Accident Number
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather
Road: Rd Ch - Road Character
Rd Ci - Roadway Contributing Circumstances
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating
Alchl/Drgs - Alcohol/Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	1	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	0	0.00
Total Injury Crashes	0	0.00
Property Damage Only Crashes	1	100.00
Night Crashes	0	0.00
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	1	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	0	0.00
Class C Crashes	0	0.00
Property Damage Only Crashes	1	100.00

Vehicle Exposure Statistics

Annual ADT = 3500
Total Vehicle Exposure = 3.84 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	26.07
Fatal Crash Rate	0.00
Non Fatal Crash Rate	0.00
Night Crash Rate	0.00
Wet Crash Rate	0.00
EPDO Rate	26.07

North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Miscellaneous Statistics

Severity Index = 1.00
EPDO Crash Index = 1.00
Estimated Property Damage Total = \$ 1000.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
BACKING UP	1	100.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	0	0.00
Class C Injuries	0	0.00
Total Non-Fatal Injuries	0	0.00
Total Injuries	0	0.00

North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	0	0.00
Mar	1	100.00
Apr	0	0.00
May	0	0.00
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	0	0.00
Oct	0	0.00
Nov	0	0.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	0	0.00
Tue	1	100.00
Wed	0	0.00
Thu	0	0.00
Fri	0	0.00
Sat	0	0.00
Sun	0	0.00

North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	0	0.00
0700-0759	0	0.00
0800-0859	0	0.00
0900-0959	0	0.00
1000-1059	0	0.00
1100-1159	0	0.00
1200-1259	1	100.00
1300-1359	0	0.00
1400-1459	0	0.00
1500-1559	0	0.00
1600-1659	0	0.00
1700-1759	0	0.00
1800-1859	0	0.00
1900-1959	0	0.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	1	0	0	1
Dark	0	0	0	0
Other	0	0	0	0
Total	1	0	0	1

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	1	50.00
SPORT UTILITY	1	50.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2007	0	0	0	0
2008	0	0	0	0
2009	1	0	0	1
2010	0	0	0	0
Total	1	0	0	1

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2007	0	0
2008	0	0
2009	0	0
2010	0	0
Total	0	0

Miscellaneous Totals

Year	Property Damage	EPOD Index
2007	\$ 0	0.00
2008	\$ 0	0.00
2009	\$ 1000	1.00
2010	\$ 0	0.00
Total	\$ 1000	1.00

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object			
				Angle	Side Swipe	Other	
2007	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	1
2010	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
EDW41000010224	41000010224			76.8	8.4	3500	

Request Date	Courier Service	Phone No.	Ext.	Fax No.
11/29/2010		(919) 789-9977		(919) 789-9591

County		Municipality						
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
MECKLENBURG	59	10	All and Rural		150	10/01/2007	09/30/2010	3.00

Location Text	Requestor
SR 2733 (Jackson Street) @ Depot Street	Jeffrey P. Hochanadel SEPI 1025 Wade Ave Raleigh, NC

Included Accidents
102563808

Fiche Roads

Name	Code
SR 2733	40002733
JACKSON	50015195
DEPOT	50008300

Intersection Road Combinations

Name	Code	Code	Name
SR 2733	40002733	50008300	DEPOT
DEPOT	50008300	50015195	JACKSON

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria Summary

County: MECKLENBURG City: All and Rural
Date: 10/01/2007 to 09/30/2010 Study: EDW41000010142
Location: NC 115 (Main Street) @ SR 2693 (Concord Road)

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl	
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op
1	102131165	10/11/2007 11:07	ANGLE	\$ 2500	0	0	0	0	1	1	1	1	0	0	0
Unit	1 : 1	Alchl/Drgs: 0	Speed: 15 MPH Dir: N	Veh Mnvr / Ped Actn: 6	Obj Strk:										
Unit	2 : 4	Alchl/Drgs: 0	Speed: 10 MPH Dir: N	Veh Mnvr / Ped Actn: 13	Obj Strk:										
2	102166791	10/18/2007 09:38	RAN OFF ROAD - RIGHT	\$ 2000	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 10 MPH Dir: S	Veh Mnvr / Ped Actn: 4	Obj Strk:	36									
Unit	2 : 32	Alchl/Drgs: 7	Speed: 0 MPH Dir:	Veh Mnvr / Ped Actn:	Obj Strk:										
3	102188157	11/08/2007 18:27	REAR END, SLOW OR STOP	\$ 10000	0	0	0	0	1	4	1	1	0	3	1
Unit	1 : 2	Alchl/Drgs: 1	Speed: 15 MPH Dir: S	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 4	Alchl/Drgs: 0	Speed: 0 MPH Dir: S	Veh Mnvr / Ped Actn: 1	Obj Strk:										
Unit	3 : 1	Alchl/Drgs: 0	Speed: 15 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	4 : 1	Alchl/Drgs: 0	Speed: 15 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	5 : 1	Alchl/Drgs: 0	Speed: 10 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	6 : 4	Alchl/Drgs: 0	Speed: 15 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
4	102210207	12/06/2007 20:37	ANIMAL	\$ 2500	0	0	0	0	1	4	1	1	0	13	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 20 MPH Dir: W	Veh Mnvr / Ped Actn: 4	Obj Strk:	17									
5	102252837	02/01/2008 01:58	RAN OFF ROAD - RIGHT	\$ 30150	0	0	0	0	2	4	3	1	0	3	1
Unit	1 : 4	Alchl/Drgs: 1	Speed: 35 MPH Dir: E	Veh Mnvr / Ped Actn: 8	Obj Strk:	64									
6	102261217	02/13/2008 06:53	LEFT TURN, SAME ROADWAY	\$ 4000	0	0	0	0	2	3	3	1	0	3	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 15 MPH Dir: S	Veh Mnvr / Ped Actn: 8	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 10 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
7	102414760	09/16/2008 13:46	RIGHT TURN, SAME ROADWAY	\$ 3000	0	0	0	0	2	1	3	1	0	3	1
Unit	1 : 12	Alchl/Drgs: 0	Speed: 5 MPH Dir: W	Veh Mnvr / Ped Actn: 7	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 5 MPH Dir: W	Veh Mnvr / Ped Actn: 7	Obj Strk:										

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl	
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op
8	102541518	02/23/2009 08:40	PARKED MOTOR VEHICLE	\$ 1600	0	0	0	0	1	1	1	1	0	0	0
Unit	1 : 4	Alchl/Drgs: 3	Speed: 10 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:	20									
Unit	2 : 1	Alchl/Drgs: 7	Speed: 0 MPH Dir: N	Veh Mnvr / Ped Actn: 2	Obj Strk:	20									
9	102607940	05/30/2009 13:53	SIDESWIPE, SAME DIRECTION	\$ 2300	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 15 MPH Dir: SW	Veh Mnvr / Ped Actn: 8	Obj Strk:										
Unit	2 : 4	Alchl/Drgs: 7	Speed: 0 MPH Dir: S	Veh Mnvr / Ped Actn: 2	Obj Strk:	20									
10	102672221	08/28/2009 18:45	REAR END, SLOW OR STOP	\$ 1600	0	0	0	0	2	1	3	1	0	3	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 20 MPH Dir: S	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 5	Alchl/Drgs: 0	Speed: 5 MPH Dir: S	Veh Mnvr / Ped Actn: 4	Obj Strk:										
11	102858846	01/09/2010 11:01	REAR END, SLOW OR STOP	\$ 1650	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 15 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 20 MPH Dir: E	Veh Mnvr / Ped Actn: 7	Obj Strk:										
12	102859776	04/01/2010 18:27	LEFT TURN, SAME ROADWAY	\$ 4500	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 2 MPH Dir: N	Veh Mnvr / Ped Actn: 1	Obj Strk:										
Unit	2 : 12	Alchl/Drgs: 0	Speed: 3 MPH Dir: S	Veh Mnvr / Ped Actn: 8	Obj Strk:										
13	102859777	04/22/2010 11:55	BACKING UP	\$ 2000	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 5 MPH Dir: SW	Veh Mnvr / Ped Actn: 10	Obj Strk:										
Unit	2 : 16	Alchl/Drgs: 0	Speed: 0 MPH Dir: N	Veh Mnvr / Ped Actn: 1	Obj Strk:										
14	102874673	05/18/2010 16:39	REAR END, SLOW OR STOP	\$ 5500	0	0	0	0	1	1	1	1	12	3	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 10 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 3	Alchl/Drgs: 0	Speed: 10 MPH Dir: N	Veh Mnvr / Ped Actn: 11	Obj Strk:										
15	102951155	08/23/2010 14:30	LEFT TURN, DIFFERENT ROADWAYS	\$ 0	0	0	0	1	1	1	1	1	0	3	1
Unit	1 : 2	Alchl/Drgs: 0	Speed: 5 MPH Dir: S	Veh Mnvr / Ped Actn: 1	Obj Strk:	14									
Unit	2 : 24	Alchl/Drgs: 0	Speed: 0 MPH Dir:	Veh Mnvr / Ped Actn:	Obj Strk:	14									

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl	
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op
<p>Acc No - Accident Number Injuries: F - Fatal, A - Class A, B - Class B, C - Class C Condition: R - Road Surface, L - Ambient Light, W - Weather Rd Ch - Road Character Rd Ci - Roadway Contributing Circumstances Trfc Ctl - Traffic Control: Dv - Device, Op - Operating Alchl/Drgs - Alcohol/Drugs Suspected Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action Obj Strk - Object Struck</p>															

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Summary Statistics

High Level Crash Summary		
Crash Type	Number of Crashes	Percent of Total
Total Crashes	15	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	1	6.67
Total Injury Crashes	1	6.67
Property Damage Only Crashes	14	93.33
Night Crashes	3	20.00
Wet Crashes	4	26.67
Alcohol/Drugs Involvement Crashes	2	13.33

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	15	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	0	0.00
Class C Crashes	1	6.67
Property Damage Only Crashes	14	93.33

Vehicle Exposure Statistics

Annual ADT = 13700
Total Vehicle Exposure = 15.02 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered	
	Total Crash Rate	Fatal Crash Rate
Total Crash Rate	99.90	0.00
Fatal Crash Rate	0.00	6.66
Non Fatal Crash Rate	19.98	26.64
Wet Crash Rate	149.18	
EPDO Rate		

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Miscellaneous Statistics

Severity Index = 1.49
EPDO Crash Index = 22.40
Estimated Property Damage Total = \$ 73300.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANGLE	1	6.67
ANIMAL	1	6.67
BACKING UP	1	6.67
LEFT TURN, DIFFERENT ROADWAYS	1	6.67
LEFT TURN, SAME ROADWAY	2	13.33
PARKED MOTOR VEHICLE	1	6.67
RAN OFF ROAD - RIGHT	2	13.33
REAR END, SLOW OR STOP	4	26.67
RIGHT TURN, SAME ROADWAY	1	6.67
SIDESWIPE, SAME DIRECTION	1	6.67

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	0	0.00
Class C Injuries	1	100.00
Total Non-Fatal Injuries	1	100.00
Total Injuries	1	100.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	1	6.67
Feb	3	20.00
Mar	0	0.00
Apr	2	13.33
May	2	13.33
Jun	0	0.00
Jul	0	0.00
Aug	2	13.33
Sep	1	6.67
Oct	2	13.33
Nov	1	6.67
Dec	1	6.67

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	2	13.33
Tue	2	13.33
Wed	1	6.67
Thu	6	40.00
Fri	2	13.33
Sat	2	13.33
Sun	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	1	6.67
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	1	6.67
0700-0759	0	0.00
0800-0859	1	6.67
0900-0959	1	6.67
1000-1059	0	0.00
1100-1159	3	20.00
1200-1259	0	0.00
1300-1359	2	13.33
1400-1459	1	6.67
1500-1559	0	0.00
1600-1659	1	6.67
1700-1759	0	0.00
1800-1859	3	20.00
1900-1959	0	0.00
2000-2059	1	6.67
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	9	2	0	11
Dark	2	1	0	3
Other	0	1	0	1
Total	11	4	0	15

Object Struck Summary

Object Type	Times Struck	Percent of Total
ANIMAL	1	12.50
LUMINAIRE POLE BREAKAWAY	1	12.50
OTHER FIXED OBJECT	1	12.50
PARKED MOTOR VEHICLE	3	37.50
PEDESTRIAN	2	25.00

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
LIGHT TRUCK (MINI-VAN, PANEL)	1	3.12
PASSENGER CAR	12	37.50
PEDESTRIAN	1	3.12
PICKUP	2	6.25
SPORT UTILITY	11	34.38
TRUCK/TRAILER	2	6.25
UNKNOWN	1	3.12
UNKNOWN HEAVY TRUCK	1	3.12
VAN	1	3.12

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2007	4	0	0	4
2008	3	0	0	3
2009	3	0	0	3
2010	5	0	1	4
Total	15	0	1	14

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2007	0	0
2008	0	0
2009	0	0
2010	0	1
Total	0	1

Miscellaneous Totals

Year	Property Damage	EPDO Index
2007	\$ 17000	4.00
2008	\$ 37150	3.00
2009	\$ 5500	3.00
2010	\$ 13650	12.40
Total	\$ 73300	22.40

Type of Accident Totals

Year	Run Off Road &						
	Left Turn	Right Turn	Rear End	Fixed Object	Angle	Side Swipe	Other
2007	0	0	1	1	1	0	1
2008	1	1	0	1	0	0	0
2009	0	0	1	0	0	1	1
2010	2	0	2	0	0	0	1
Total	3	1	4	2	1	1	3

North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
EDW41000010142	41000010142			76.8	8.4	13700	

Request Date	Courier Service	Phone No.	Ext.	Fax No.
11/29/2010		(919) 789-9977		(919) 789-9591

Name	County	Code	Div.	Name	Municipality	Code	Y-Line Ft.	Begin Date	End Date	Years
MECKLENBURG		59	10	All and Rural			150	10/01/2007	09/30/2010	3.00

Location Text	Requestor
NC 115 (Main Street) @ SR 2693 (Concord Road)	Jeffrey P. Hochanadel SEPI 1025 Wade Ave Raleigh, NC

Included Accidents

102859776
102874673

Fiche Roads

Name	Code
NC 115	30000115
SR 2693	40002693
CONCORD	50006740
MAIN	50018682
MECKLENBURG	50019722
ROCKY RIVER	50026311
OLD STATESVILLE	50022757

Intersection Road Combinations

Name	Code	Code	Name
NC 115	30000115	40002693	SR 2693
NC 115	30000115	50006740	CONCORD
MAIN	50018682	40002693	SR 2693
MAIN	50018682	50006740	CONCORD

North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria Summary

County: MECKLENBURG City: All and Rural
Date: 10/01/2007 to 09/30/2010 Study: MM41000010141
Location: Crash analysis at intersection of NC 115 (N. Main Street) and SR 5304 (South Street)/Chairman Blake Lane.

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries			Condition			Road			Trfc Ctl	
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op
1	102470104	11/20/2008 09:23	RIGHT TURN, SAME ROADWAY	\$ 1700	0	0	0	0	1	1	1	5	0	0	
Unit	1 : 5	Alchl/Drgs: 0	Speed: 10 MPH	Dir: S	Veh Mnvr / Ped Actn:	7	Obj Strk:								
Unit	2 : 1	Alchl/Drgs: 0	Speed: 15 MPH	Dir: S	Veh Mnvr / Ped Actn:	4	Obj Strk:								
2	102658671	08/05/2009 11:48	BACKING UP	\$ 4550	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 3	Alchl/Drgs: 0	Speed: 2 MPH	Dir: W	Veh Mnvr / Ped Actn:	10	Obj Strk:								
Unit	2 : 1	Alchl/Drgs: 0	Speed: 15 MPH	Dir: N	Veh Mnvr / Ped Actn:	4	Obj Strk:								
3	102939658	06/04/2010 09:30	PEDALCYCLIST	\$ 500	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 2	Alchl/Drgs: 0	Speed: 0 MPH	Dir:	Veh Mnvr / Ped Actn:		Obj Strk:								
Unit	2 : 4	Alchl/Drgs: 0	Speed: 5 MPH	Dir: NW	Veh Mnvr / Ped Actn:	13	Obj Strk:								
4	102978963	09/30/2010 08:16	SIDESWIPE, SAME DIRECTION	\$ 200	0	0	0	0	1	1	2	1	0	3	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 10 MPH	Dir: SW	Veh Mnvr / Ped Actn:	4	Obj Strk:								
Unit	2 : 14	Alchl/Drgs: 0	Speed: 10 MPH	Dir: SW	Veh Mnvr / Ped Actn:	4	Obj Strk:								

Acc No - Accident Number
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather
Report Details: Rd Ch - Road Character
Rd Cl - Roadway Contributing Circumstances
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating
Alchl/Drgs - Alcohol/Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	0	0.00
Total Injury Crashes	0	0.00
Property Damage Only Crashes	4	100.00
Night Crashes	0	0.00
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	0	0.00
Class C Crashes	0	0.00
Property Damage Only Crashes	4	100.00

Vehicle Exposure Statistics

Annual ADT = 12300
Total Vehicle Exposure = 13.48 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	29.67
Fatal Crash Rate	0.00
Non Fatal Crash Rate	0.00
Night Crash Rate	0.00
Wet Crash Rate	0.00
EPDO Rate	29.67

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Miscellaneous Statistics

Severity Index = 1.00
EPDO Crash Index = 4.00
Estimated Property Damage Total = \$ 6950.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
BACKING UP	1	25.00
PEDALCYCLIST	1	25.00
RIGHT TURN, SAME ROADWAY	1	25.00
SIDESWIPE, SAME DIRECTION	1	25.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	0	0.00
Class C Injuries	0	0.00
Total Non-Fatal Injuries	0	0.00
Total Injuries	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	0	0.00
Mar	0	0.00
Apr	0	0.00
May	0	0.00
Jun	1	25.00
Jul	0	0.00
Aug	1	25.00
Sep	1	25.00
Oct	0	0.00
Nov	1	25.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	0	0.00
Tue	0	0.00
Wed	1	25.00
Thu	2	50.00
Fri	1	25.00
Sat	0	0.00
Sun	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	0	0.00
0700-0759	0	0.00
0800-0859	1	25.00
0900-0959	2	50.00
1000-1059	0	0.00
1100-1159	1	25.00
1200-1259	0	0.00
1300-1359	0	0.00
1400-1459	0	0.00
1500-1559	0	0.00
1600-1659	0	0.00
1700-1759	0	0.00
1800-1859	0	0.00
1900-1959	0	0.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	4	0	0	4
Dark	0	0	0	0
Other	0	0	0	0
Total	4	0	0	4

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
LIGHT TRUCK (MINI-VAN, PANEL)	1	12.50
PASSENGER CAR	2	25.00
PEDALCYCLE	1	12.50
SPORT UTILITY	2	25.00
TRACTOR/SEMI-TRAILER	1	12.50
VAN	1	12.50

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2007	0	0	0	0
2008	1	0	0	1
2009	1	0	0	1
2010	2	0	0	2
Total	4	0	0	4

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2007	0	0
2008	0	0
2009	0	0
2010	0	0
Total	0	0

Miscellaneous Totals

Year	Property Damage	EPOD Index
2007	\$ 0	0.00
2008	\$ 1700	1.00
2009	\$ 4550	1.00
2010	\$ 700	2.00
Total	\$ 6950	4.00

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object			Side Swipe	Other
				Angle	Angle	Angle		
2007	0	0	0	0	0	0	0	0
2008	0	1	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	1
2010	0	0	0	0	0	1	1	1
Total	0	1	0	0	0	1	1	2

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
MM41000010141	41000010141			76.8	8.4	12300	

Request Date	Courier Service	Phone No.	Ext.	Fax No.
11/24/2010		919 573 9919		919 789 9591

County		Municipality						
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
MECKLENBURG	59	10	All and Rural		150	10/01/2007	09/30/2010	3.00

Location Text	Requestor
Crash analysis at intersection of NC 115 (N. Main Street) and SR 5304 (South Street)/Chairman Blake Lane.	Jeffrey P. Hochanadel Sepi Eng 1025 Wade Ave Raleigh, NC 27605

Included Accidents

102978963
102658671

Fiche Roads

Name	Code
MAIN	50018682
MECKLENBURG	50019722
NC 115	30000115
SOUTH	50028612
SR 5304	40005304

Intersection Road Combinations

Name	Code	Code	Name
MAIN	50018682	40005304	SR 5304
MAIN	50018682	50028612	SOUTH
MECKLENBURG	50019722	40005304	SR 5304
MECKLENBURG	50019722	50028612	SOUTH
NC 115	30000115	40005304	SR 5304
NC 115	30000115	50028612	SOUTH

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria Summary

County: MECKLENBURG City: All and Rural
Date: 10/1/2007 to 9/30/2010 Study: 41000009962
Location: NC 115-Main St at SR 2733-Jackson St

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries					Condition					Road		Trfc Ctl	
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op			
1	102195050	11/17/2007 12:35	SIDESWIPE, OPPOSITE DIRECTION	\$ 3200	0	0	0	0	1	1	1	1	1	1	2	0	0	
Unit	1 : 1	Alchl/Drgs: 0	Speed: 25 MPH Dir: N		Veh Mnvr / Ped Actn: 16					Obj Strk:								
Unit	2 : 1	Alchl/Drgs: 7	Speed: 25 MPH Dir: S		Veh Mnvr / Ped Actn: 16					Obj Strk:								
2	102456776	10/01/2008 14:46	REAR END, SLOW OR STOP	\$ 4100	0	0	2	1	1	1	1	1	2	0	3	1		
Unit	1 : 1	Alchl/Drgs: 0	Speed: 0 MPH Dir: N		Veh Mnvr / Ped Actn: 1					Obj Strk:								
Unit	2 : 1	Alchl/Drgs: 0	Speed: 0 MPH Dir: N		Veh Mnvr / Ped Actn: 1					Obj Strk:								
Unit	3 : 1	Alchl/Drgs: 0	Speed: 20 MPH Dir: N		Veh Mnvr / Ped Actn: 4					Obj Strk:								
3	102618636	06/09/2009 17:32	PEDALCYCLIST	\$ 0	0	0	1	0	1	1	1	1	1	0	1	1		
Unit	1 : 1	Alchl/Drgs: 0	Speed: 2 MPH Dir: S		Veh Mnvr / Ped Actn: 7					Obj Strk:								
Unit	2 : 23	Alchl/Drgs: 0	Speed: 0 MPH Dir:		Veh Mnvr / Ped Actn:					Obj Strk:								
4	102926770	07/22/2010 13:32	REAR END, SLOW OR STOP	\$ 2200	0	0	0	1	1	1	1	1	1	0	0			
Unit	1 : 5	Alchl/Drgs: 0	Speed: 7 MPH Dir: N		Veh Mnvr / Ped Actn: 4					Obj Strk:								
Unit	2 : 1	Alchl/Drgs: 0	Speed: 0 MPH Dir: N		Veh Mnvr / Ped Actn: 8					Obj Strk:								

Legend for Report Details:
Acc No - Accident Number
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather
Rd Ch - Road Character
Rd Ci - Roadway Contributing Circumstances
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating
Alchl/Drgs - Alcohol/Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	3	75.00
Total Injury Crashes	3	75.00
Property Damage Only Crashes	1	25.00
Night Crashes	0	0.00
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	2	50.00
Class C Crashes	1	25.00
Property Damage Only Crashes	1	25.00

Vehicle Exposure Statistics

Annual ADT = 16500
Total Vehicle Exposure = 18.08 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	22.12
Fatal Crash Rate	0.00
Non Fatal Crash Rate	16.59
Night Crash Rate	0.00
Wet Crash Rate	0.00
EPDO Rate	144.88

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Miscellaneous Statistics

Severity Index = 6.55
EPDO Crash Index = 26.20
Estimated Property Damage Total = \$ 9500.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
PEDALCYCLIST	1	25.00
REAR END, SLOW OR STOP	2	50.00
SIDESWIPE, OPPOSITE DIRECTION	1	25.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	3	60.00
Class C Injuries	2	40.00
Total Non-Fatal Injuries	5	100.00
Total Injuries	5	100.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	0	0.00
Mar	0	0.00
Apr	0	0.00
May	0	0.00
Jun	1	25.00
Jul	1	25.00
Aug	0	0.00
Sep	0	0.00
Oct	1	25.00
Nov	1	25.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	0	0.00
Tue	1	25.00
Wed	1	25.00
Thu	1	25.00
Fri	0	0.00
Sat	1	25.00
Sun	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	0	0.00
0700-0759	0	0.00
0800-0859	0	0.00
0900-0959	0	0.00
1000-1059	0	0.00
1100-1159	0	0.00
1200-1259	1	25.00
1300-1359	1	25.00
1400-1459	1	25.00
1500-1559	0	0.00
1600-1659	0	0.00
1700-1759	1	25.00
1800-1859	0	0.00
1900-1959	0	0.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	4	0	0	4
Dark	0	0	0	0
Other	0	0	0	0
Total	4	0	0	4

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	7	77.78
PEDALCYCLE	1	11.11
VAN	1	11.11

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2007	1	0	0	1
2008	1	0	1	0
2009	1	0	1	0
2010	1	0	1	0
Total	4	0	3	1

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2007	0	0
2008	0	3
2009	0	1
2010	0	1
Total	0	5

Miscellaneous Totals

Year	Property Damage	EPOD Index
2007	\$ 3200	1.00
2008	\$ 4100	8.40
2009	\$ 0	8.40
2010	\$ 2200	8.40
Total	\$ 9500	26.20

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object			
				Angle	Side Swipe	Other	
2007	0	0	0	0	0	1	0
2008	0	0	1	0	0	0	0
2009	0	0	0	0	0	0	1
2010	0	0	1	0	0	0	0
Total	0	0	2	0	0	1	1

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North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Intersection Analysis Report

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route	
41000009962				76.8	8.4	16500		
Request Date	Courier Service	Phone No.	Ext.	Fax No.				
County		Municipality						
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
MECKLENBURG	59	10	All and Rural		150	10/1/2007	9/30/2010	3.00
Location Text				Requestor				
NC 115-Main St at SR 2733-Jackson St				Jefferey P. Hochanadel, PE Sepi Engineering and Construction				

Included Accidents

102456776

Excluded Accidents

102435772

102669177

Fiche Roads

Name	Code
NC 115	30000115
MAIN	50018682
SR 2733	40002733
JACKSON	50015195

Intersection Road Combinations

Name	Code	Code	Name
NC 115	30000115	40002733	SR 2733
NC 115	30000115	50015195	JACKSON
MAIN	50018682	40002733	SR 2733
MAIN	50018682	50015195	JACKSON

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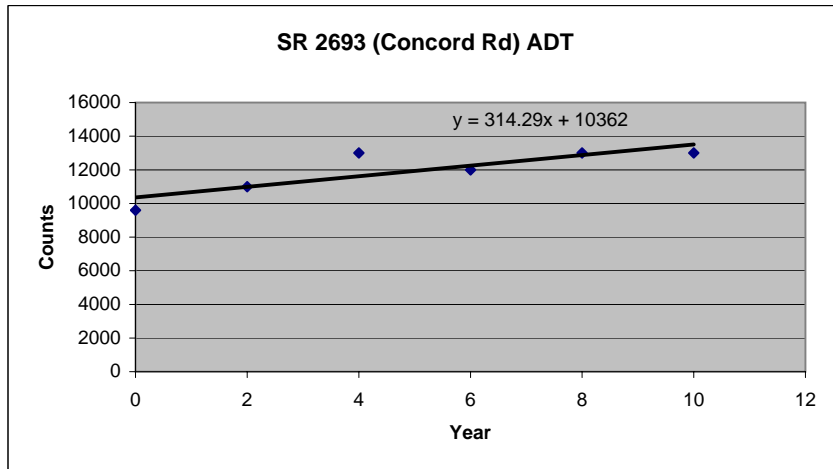
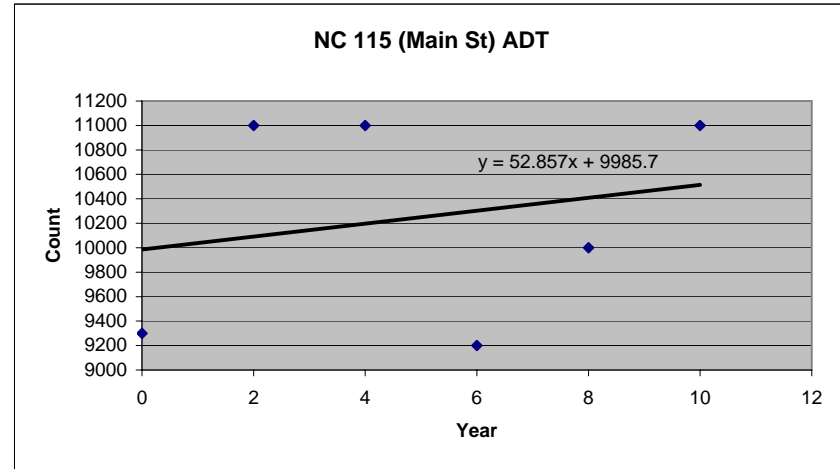
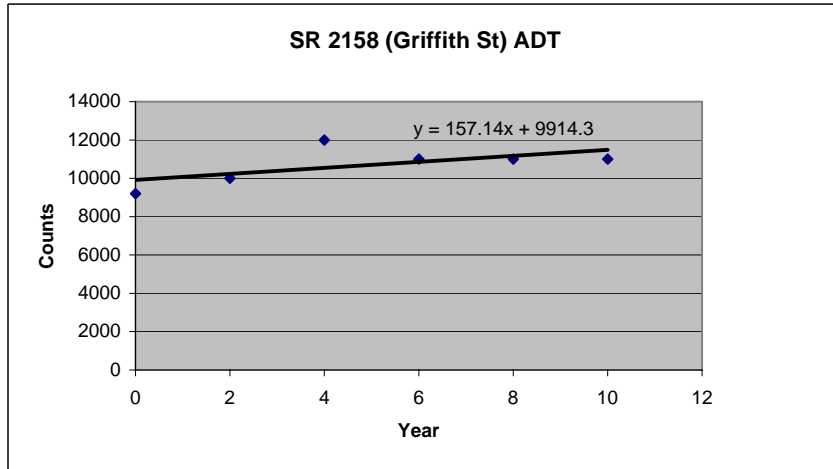
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**Appendix D – Synchro Analysis Output –
Unsignalized / Signalized Intersections**

Appendix E – Background Growth Factor Calculations

Street	Year					
	1998	2000	2002	2004	2006	2008
Sloan / Beaty	4000	n/a	n/a	n/a	n/a	n/a
Griffith	9200	10000	12000	11000	11000	11000
Main	9300	11000	11000	9200	10000	11000
Concord	9600	11000	13000	12000	13000	13000
	0	2	4	6	8	10

1998	2008		
9914.3	11485.7	0.014821	Growth
9985.7	10514.27	0.005171	Factor
10362	13504.9	0.026845	2.5



Appendix F – Parking Deficiencies

A	B	C	D	E	F	G	H	I	J	K	L	M	N		O	P	Q	R				S	T	U	V	
Block	Office	Medical Office	Retail	Mixed Use	Service	Pre-School (per employee)	Library	Restaurant	Hotel (per unit)	Residential (per unit)	Community	Theater (per seat)	Government	Fire Station	Commuter (per rider)	Warehouse	Vacant	Demand (current)	Future Adjust.	5 yr. projected Demand	10 yr. projected Demand	Parking Supply	Surplus/ Deficit (current)	Surplus/ Deficit (5 years)	Surplus/ Deficit (10 years)	
Daytime	2.85	4.00	2.00	2.35	2.75	1.49	2.00	5.00	1.00	1.00	0.63	0.15	2.50	1.00	0.83	0.40	2.81									
1	1,302	1,215	0	46,000	0	0	0	5,000	0	18	0	0	0	0	0	0	0	160	0	160	160	231	71	71	71	
2	0	0	0	34,371	0	0	0	0	0	0	2,500	260	0	0	41	0	0	155	0	164	163	205	50	41	42	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58,906	0	24	0	302	459	38	14	-264	-421	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	2,118	0	0	0	0	0	0	0	0	0	6,370	0	0	0	0	0	0	10	0	10	10	46	36	36	36	
7	35,017	0	2,337	3,060	0	0	0	8,428	0	26	0	0	0	0	0	0	15,000	180	52	201	222	297	117	96	75	
8	18,901	0	8,524	0	0	0	0	0	0	0	0	0	0	0	0	0	5,566	71	16	77	83	123	52	46	40	
9	0	0	0	22,000	0	25	0	0	0	0	0	0	0	0	0	0	0	89	0	89	89	213	124	124	124	
10	812	0	0	0	0	0	0	0	0	0	33,400	0	0	0	0	0	0	23	0	20	23	53	30	33	30	
11	24,605	0	2,500	0	0	0	7,279	0	0	0	0	0	0	0	0	0	0	90	0	90	90	93	3	3	3	
12/13	40,286	8,528	19,691	44,863	0	0	0	7,965	18	3	0	0	15,744	10,000	0	0	3,624	404	10	444	544	313	-91	-131	-231	
14	21,069	0	0	0	0	0	0	0	0	0	35,578	0	0	0	0	0	0	82	0	82	82	97	15	15	15	
15	31,427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	90	90	103	13	13	13	
18	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	30	0	30	30	10	-20	-20	-20	
TOTALS	175,537	9,743	33,052	150,294	0	45	7,279	21,393	18	47	77,848	260	15,744	10,000	41	58,906	24,190	1,407	78	1,758	2,044	1,838	431	80	-206	
																		(stalls)	(stalls)	(stalls)	(stalls)	(stalls)	(stalls)	(stalls)	(stalls)	(stalls)

1. Block 2 express commuter ridership is increased by 3% per year, 41 riders as of April 2010 (5 year increase to 51riders = 9 additional spaces and 10 year changes to train ridership)

2. a)Block 3 potential new development in the 5 year scenario, 30,000 sf retail, 50,000 sf office, 75 residential (278 spaces).

574,397

b) in the 10 year senario, commuter rail station developed in block 3 with 188 riders (157 spaces), express bus ridership is now taken out of block 2.

3. Block 7 has 10 vacant residential units, these units are filled at 40% (5 year) and 80% (10 year) occupancy in future demand

4.a) Block 12/13 Mooney's Corner development included in current demand: 15,000 sf mixed use (36 spaces).

b) 5 year senario Town hall moves to block 10 in IB School building (33,400 sf) only using 7,000 sf (18 spaces), assume old Town Hall is reoccupied by use with similar parking generation ratios and fire hall stays

c) 10 year senario potential 10,000 sf retail (20 spaces) and 30,000 sf office (86 spaces) in front of Town Hall on parking lot, reduce parking supply by 26 spaces.

