Count Number: 10-16006

County: Iredell

Division: 12

Intersection: US 21 at Carolina Ave.

Vaughn & Melton
1318-F Patton Ave.
Asheville, NC 28806
Phone: (828) 253-2796
Fax: (828) 253-4864

Count Time Periods and Weather Conditions

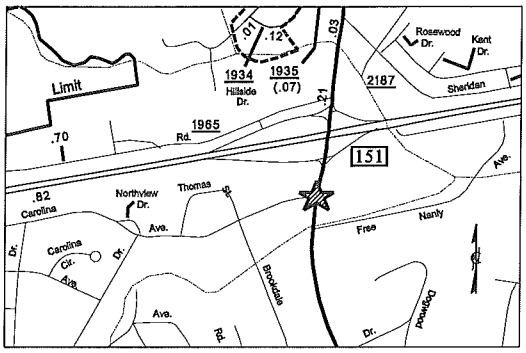
Day 1- 8/9/10, 4:00 p.m to 7:00 p.m.
Partly Cloudy, Hi - 91, Lo - 70
Day 2- 8/10/10, 6:00 a.m. to 4:00 p.m.
Partly Cloudy, Hi - 91, Lo - 70

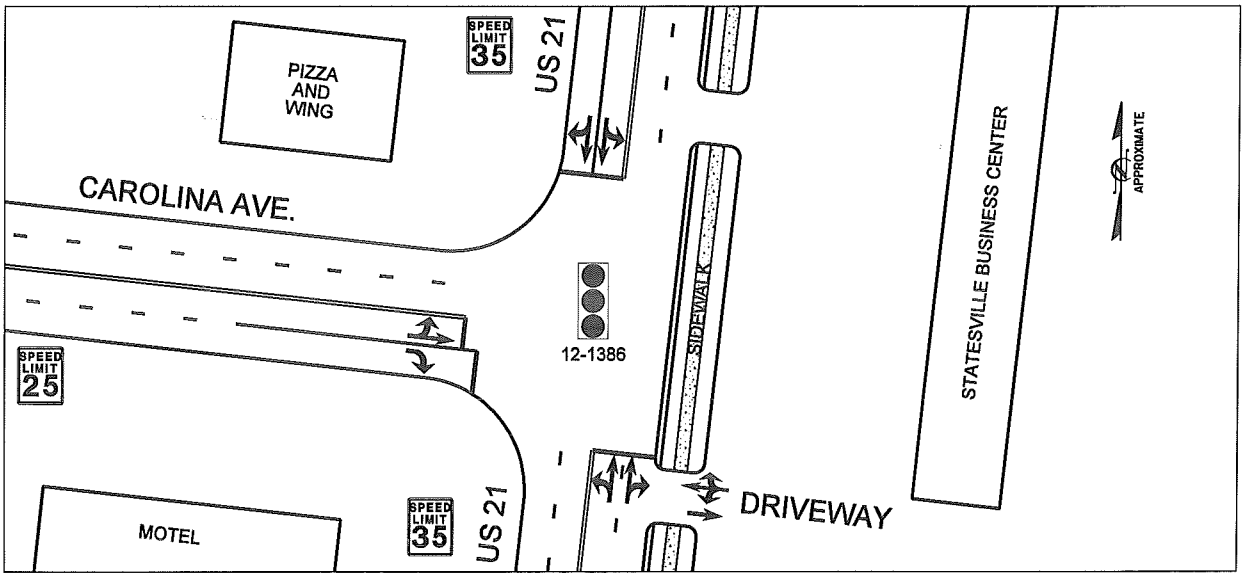
12-hr Count Volume = 15352

Comments:

1. School was NOT in session.
2. Pedestrian movements are tabulated under the approach that they cross.
3. There are traffic signals at the intersection.
4. Signal # 12-1386
5. Counted by Jack Arledge.
6. Data Processor: Aaron C. Carver, PE
7. Scheduled Break: 9:00 to 10:00 a.m.
8. Break Times:
   August 9, 2010
   None.
   August 10, 2010
   Interpolated values are from 1:30 p.m. to 2:00 p.m.
   Interpolated values are from 3:45 p.m. to 4:00 p.m.
9. Equipment used: DB-400 Intersection Counter and PetraPro Version 1.6.0

VICINITY MAP
Scale: 1in. = 1800 ft.





Count Number: 10-16006

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Intersection: US 21 at Carolina Ave.

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Looking North from the Northbound approach along US 21

Looking South from the Northbound approach along US 21

Count Number: 10-16006

County: Iredell

Division: 12

Intersection: US 21 at Carolina Ave.

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Looking West from the Westbound approach along Driveway

Looking East from the Westbound approach along Driveway

Count Number: 10-16006

County: Iredell

Division: 12

Intersection: US 21 at Carolina Ave.

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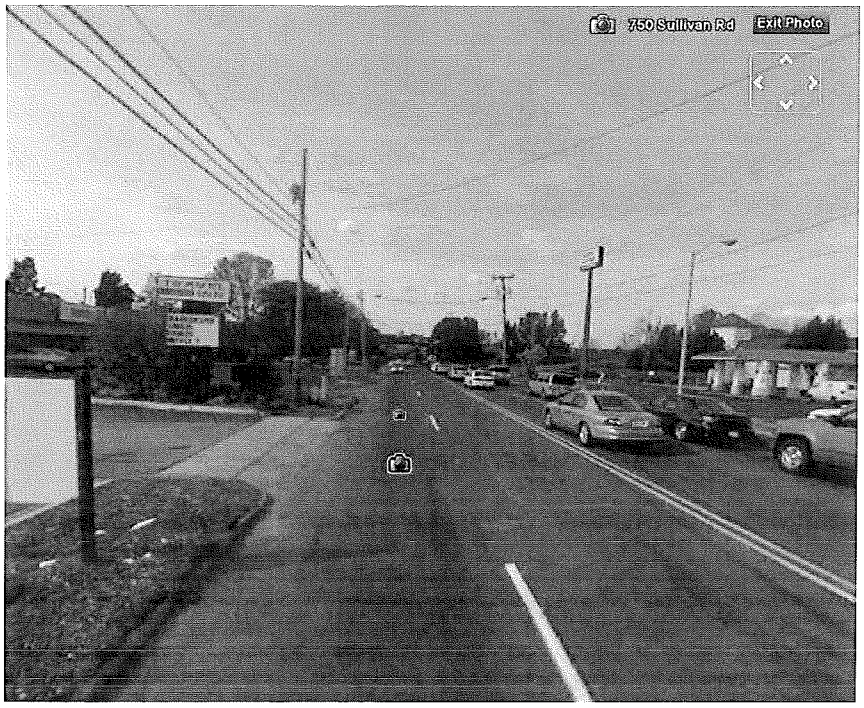
Looking South from the Southbound approach along US 21



Looking North from the Southbound approach along US 21

Count Number: 10-16006

County: Iredell

Division: 12

Intersection: US 21 at Carolina Ave.

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Looking East from the Eastbound approach along Carolina Ave.

Looking West from the Eastbound approach along Carolina Ave.

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File Name : 10-16006
Site Code : 01016006
Start Date : 8/10/2010
Page No : 1

Groups Printed- Vehicles

	US 21 (Sullivan road) Southbound				Driveway Westbound				US 21 Sullivan road) Northbound				Carolina Avenue Eastbound						
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Exclu. Total	Inclu. Total	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
06:00 AM	1	20	15	1	0	0	0	0	0	16	0	0	9	0	2	0	1	63	64
06:15 AM	0	9	28	0	0	0	0	0	2	22	1	0	18	0	0	0	0	80	80
06:30 AM	0	23	45	1	0	0	0	0	0	30	0	0	29	0	1	0	1	128	129
06:45 AM	0	30	45	1	2	0	0	0	0	28	1	0	36	0	1	0	1	143	144
Total	1	82	133	3	2	0	0	0	2	96	2	0	92	0	4	0	3	414	417
07:00 AM	2	39	31	0	0	0	0	0	1	25	0	0	19	0	2	0	0	119	119
07:15 AM	0	36	37	1	0	0	3	1	0	36	0	0	33	0	1	0	2	146	148
07:30 AM	0	76	56	3	0	0	0	0	1	62	0	2	41	0	5	0	5	241	246
07:45 AM	1	75	75	0	0	0	0	0	1	57	1	1	44	0	6	0	1	260	261
Total	3	226	199	4	0	0	3	1	3	180	1	3	137	0	14	0	8	766	774
08:00 AM	0	90	94	1	0	1	0	0	2	75	3	1	43	0	2	1	3	310	313
08:15 AM	0	93	69	1	0	0	0	0	1	62	0	3	45	0	2	0	4	272	276
08:30 AM	0	92	74	1	1	2	0	0	7	61	0	0	47	0	2	1	2	286	288
08:45 AM	3	72	63	1	2	0	0	0	7	84	2	0	54	0	3	2	3	290	293
Total	3	347	300	4	3	3	0	0	17	282	5	4	189	0	9	4	12	1158	1170
SCHEDULED BREAK																			
10:00 AM	0	69	67	1	1	0	0	0	5	99	1	1	61	0	7	1	3	310	313
10:15 AM	2	87	56	1	1	0	0	0	6	88	0	0	53	0	4	0	1	297	298
10:30 AM	0	86	55	4	0	0	0	0	2	103	1	0	66	0	6	1	5	319	324
10:45 AM	0	91	47	2	0	0	0	0	7	114	0	2	70	0	4	0	4	333	337
Total	2	333	225	8	2	0	0	0	20	404	2	3	250	0	21	2	13	1259	1272
11:00 AM	1	83	51	2	0	0	0	0	5	98	0	3	65	1	9	0	5	313	318
11:15 AM	0	98	57	3	0	0	0	0	7	141	1	3	61	0	5	2	8	370	378
11:30 AM	2	88	35	1	0	14	0	0	19	104	0	1	81	13	10	3	5	366	371
11:45 AM	3	95	56	2	1	0	0	0	4	136	1	3	85	0	8	0	5	389	394
Total	6	364	199	8	1	14	0	0	35	479	2	10	292	14	32	5	23	1438	1461
12:00 PM	3	101	59	1	0	0	0	0	6	165	3	1	96	0	13	2	4	446	450
12:15 PM	2	104	54	1	0	0	0	0	7	121	1	1	84	0	4	0	2	377	379
12:30 PM	2	111	59	0	0	0	0	0	5	148	0	1	73	0	5	1	2	403	405
12:45 PM	4	119	58	2	2	0	0	0	8	154	0	1	69	0	9	0	3	423	426
Total	11	435	230	4	2	0	0	0	26	588	4	4	322	0	31	3	11	1649	1660
01:00 PM	4	118	49	0	0	1	0	0	6	145	2	3	58	0	5	2	5	388	393
01:15 PM	2	120	61	2	0	0	0	0	3	102	1	0	42	0	4	0	2	335	337
01:30 PM	2	120	61	2	0	0	0	0	3	102	1	0	42	0	4	0	2	335	337
01:45 PM	3	110	56	0	2	0	0	0	7	118	1	0	70	0	8	1	1	375	376
Total	11	468	227	4	2	1	0	0	19	467	5	3	212	0	21	3	10	1433	1443
02:00 PM	3	110	56	0	2	0	0	0	7	118	1	0	70	0	8	1	1	375	376
02:15 PM	2	104	66	2	1	0	0	0	8	120	3	0	64	0	12	1	3	380	383
02:30 PM	0	99	60	1	2	0	0	0	6	121	3	1	53	1	6	0	2	351	353
02:45 PM	0	102	71	0	1	0	1	0	13	121	0	0	70	0	6	0	0	385	385
Total	5	415	253	3	6	0	1	0	34	480	7	1	257	1	32	2	6	1491	1497
03:00 PM	1	94	47	4	1	0	0	0	10	124	2	1	79	0	11	0	5	369	374
03:15 PM	1	97	76	1	0	0	0	0	12	117	2	0	74	0	10	1	2	389	391
03:30 PM	3	90	64	1	5	0	0	0	3	146	2	0	96	0	9	1	2	418	420
03:45 PM	1	103	53	1	3	0	1	0	4	155	4	2	77	0	8	0	3	409	412
Total	6	384	240	7	9	0	1	0	29	542	10	3	326	0	38	2	12	1585	1597

Vaughn & Melton
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Groups Printed- Vehicles

	US 21 (Sullivan road) Southbound				Driveway Westbound				US 21 Sullivan road) Northbound				Carolina Avenue Eastbound						
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Exclu. Total	Inclu. Total	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
04:00 PM	0	116	43	2	2	0	2	1	6	164	6	7	59	0	7	0	10	405	415
04:15 PM	4	105	46	1	2	0	1	0	1	156	4	4	55	0	7	1	6	381	387
04:30 PM	2	105	38	2	2	0	0	0	5	147	1	4	76	0	6	1	7	382	389
04:45 PM	3	100	36	1	3	0	0	0	2	145	3	0	67	0	10	2	3	369	372
Total	9	426	163	6	9	0	3	1	14	612	14	15	257	0	30	4	26	1537	1563
05:00 PM	2	89	37	0	0	0	0	0	6	162	0	4	85	0	7	0	4	388	392
05:15 PM	2	99	36	1	0	0	0	0	2	160	3	3	102	0	12	2	6	416	422
05:30 PM	2	95	44	1	1	0	0	0	6	124	1	2	64	0	7	0	3	344	347
05:45 PM	3	113	40	4	0	0	0	0	2	113	0	2	67	0	7	0	6	345	351
Total	9	396	157	6	1	0	0	0	16	559	4	11	318	0	33	2	19	1493	1512
06:00 PM	0	80	38	1	1	0	0	0	3	88	5	3	52	0	2	0	4	269	273
06:15 PM	3	85	26	3	2	1	0	0	7	91	2	1	55	0	9	0	4	281	285
06:30 PM	3	94	32	2	0	2	1	0	2	110	4	1	41	0	12	0	3	301	304
06:45 PM	3	83	49	3	0	0	0	0	3	87	1	0	41	2	9	0	3	278	281
Total	9	342	145	9	3	3	1	0	15	376	12	5	189	2	32	0	14	1129	1143
Grand Total	75	4218	2471	66	40	21	9	2	230	5065	68	62	2841	17	297	27	157	15352	15509
Apprch %	1.1	62.4	36.5		57.1	30	12.9		4.3	94.4	1.3		90	0.5	9.4				
Total %	0.5	27.5	16.1		0.3	0.1	0.1		1.5	33	0.4		18.5	0.1	1.9		1	99	

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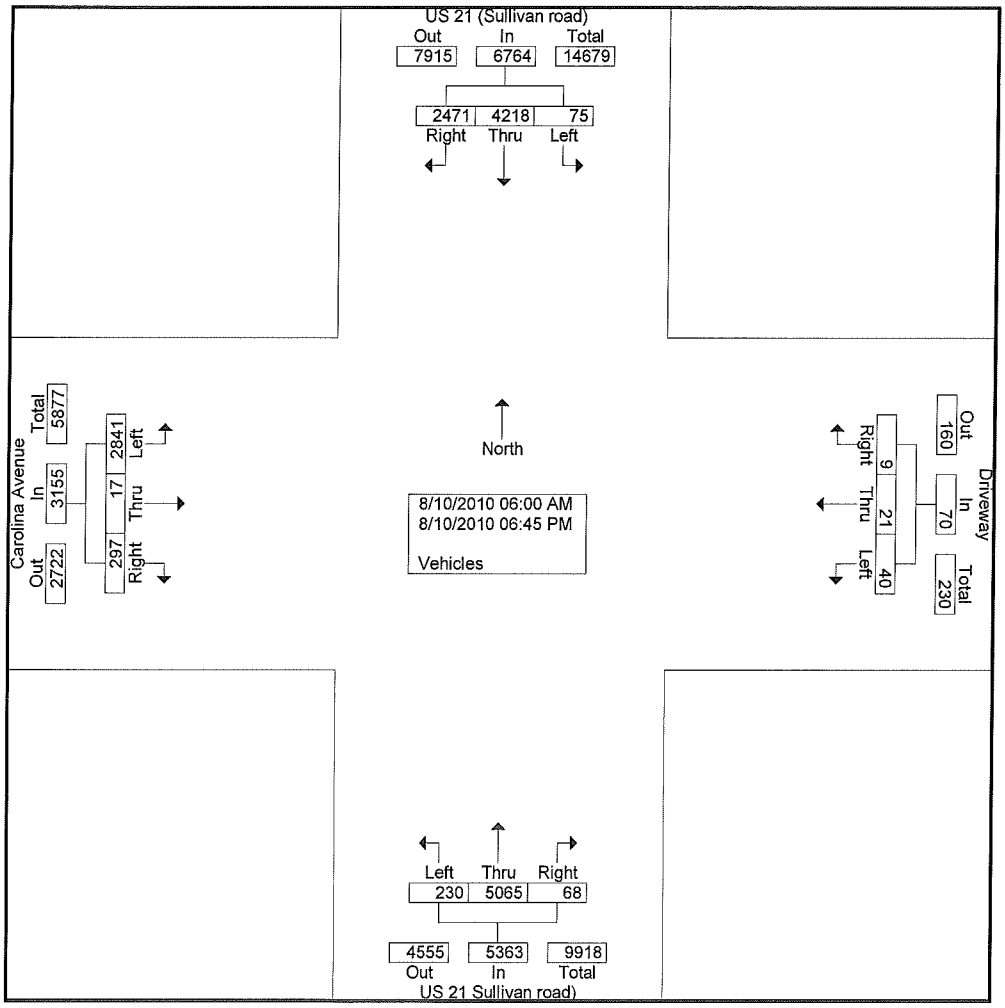

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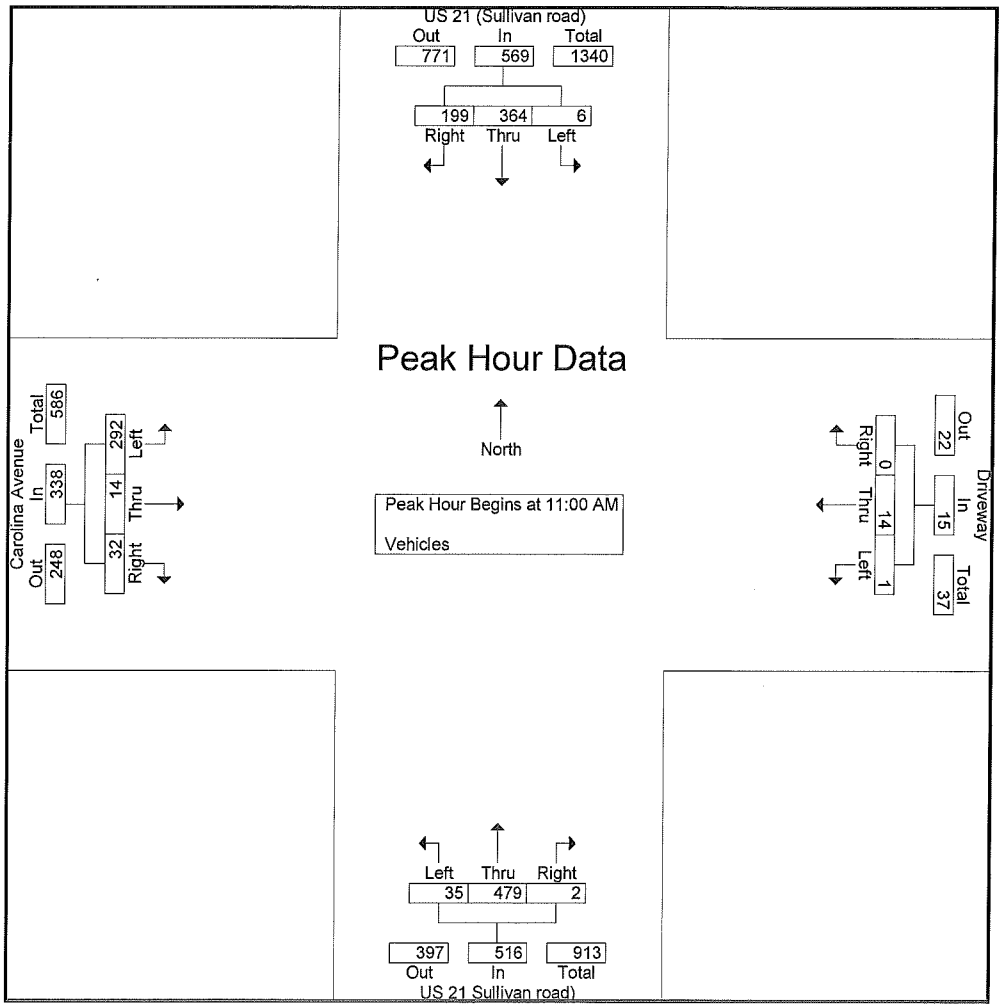
	US 21 (Sullivan road) Southbound				Driveway Westbound				US 21 Sullivan road) Northbound				Carolina Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:00 AM																	
11:00 AM	1	83	51	135	0	0	0	0	5	98	0	103	65	1	9	75	313
11:15 AM	0	**98**	**57**	**155**	0	0	0	0	7	**141**	**1**	**149**	61	0	5	66	370
11:30 AM	2	88	35	125	0	**14**	0	**14**	**19**	104	0	123	81	**13**	**10**	**104**	366
11:45 AM	**3**	95	56	154	**1**	0	0	1	4	136	1	141	**85**	0	8	93	**389**
Total Volume	6	364	199	569	1	14	0	15	35	479	2	516	292	14	32	338	1438
% App. Total	1.1	64	35		6.7	93.3	0		6.8	92.8	0.4		86.4	4.1	9.5		
PHF	.500	.929	.873	.918	.250	.250	.000	.268	.461	.849	.500	.866	.859	.269	.800	.813	.924



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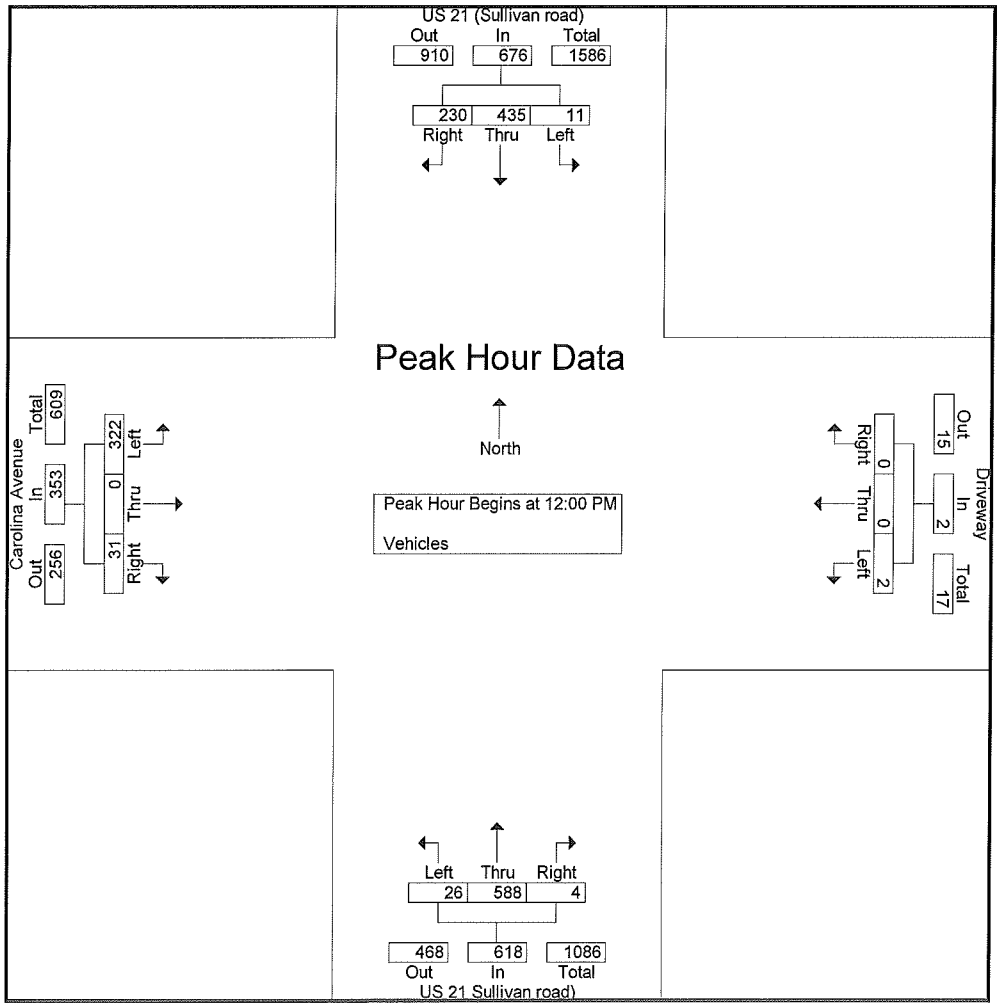
	US 21 (Sullivan road) Southbound				Driveway Westbound				US 21 Sullivan road) Northbound				Carolina Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 12:00 PM																	
12:00 PM	3	101	**59**	163	0	0	0	0	6	**165**	**3**	**174**	**96**	0	**13**	**109**	**446**
12:15 PM	2	104	54	160	0	0	0	0	7	121	1	129	84	0	4	88	377
12:30 PM	2	111	59	172	0	0	0	0	5	148	0	153	73	0	5	78	403
12:45 PM	**4**	**119**	58	**181**	**2**	0	0	**2**	**8**	154	0	162	69	0	9	78	423
Total Volume	11	435	230	676	2	0	0	2	26	588	4	618	322	0	31	353	1649
% App. Total	1.6	64.3	34		100	0	0		4.2	95.1	0.6		91.2	0	8.8		
PHF	.688	.914	.975	.934	.250	.000	.000	.250	.813	.891	.333	.888	.839	.000	.596	.810	.924



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Groups Printed- Pedestrians

	US 21 (Sullivan road) Southbound			Driveway Westbound			US 21 Sullivan road) Northbound			Carolina Avenue Eastbound			
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
06:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
06:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
Total	0	0	0	0	3	0	0	0	0	0	0	0	3
07:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	3	0	0	0	0	0	0	0	3
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	1	0	1
11:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
11:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	2	0	0	0	0	0	0	0	2
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	0	0	0	0	1	0	0	0	0	0	1	0	2
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
Total	0	0	0	0	2	0	0	0	0	0	0	0	2
03:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0

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File Name : 10-16006
Site Code : 01016006
Start Date : 8/10/2010

Groups Printed- Pedestrians

	US 21 (Sullivan road) Southbound			Driveway Westbound			US 21 Sullivan road) Northbound			Carolina Avenue Eastbound			
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	0	0	0	0	0	1
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	5	0	0	2	0	0	1	0	0	4	0	12
04:30 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
04:45 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
Total	0	5	0	0	6	0	0	1	0	0	4	0	16
05:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	2	0	2
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
06:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
06:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	1	0	0	0	0	0	0	0	3
Grand Total	0	7	0	0	19	0	0	1	0	0	8	0	35
Apprch %	0	100	0	0	100	0	0	100	0	0	100	0	
Total %	0	20	0	0	54.3	0	0	2.9	0	0	22.9	0	