
Appendix E: Existing Traffic Counts and Travel Time Data

BREE & Associates, Inc
 PO Box 675

Durham, NC 27702

Counter: J McCoy

Weather: Clear

TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : CREEDM~1

Site Code : 00000002

Comments: Two Accidents during AM Count

Start Date : 12/15/2009

Page No : 1

Groups Printed- Unshifted

Start Time	Creedmoor Rd From North					Crabtree Valley Ave From East					Creedmoor Rd From South					From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
07:00 AM	0	183	16	0	199	8	0	11	0	19	17	76	0	1	94	0	0	0	0	0	312
07:15 AM	0	241	26	0	267	13	0	12	0	25	13	102	0	0	115	0	0	0	0	0	407
07:30 AM	0	329	20	0	349	5	0	14	0	19	18	98	0	0	116	0	0	0	0	0	484
07:45 AM	0	333	30	0	363	15	0	9	0	24	25	127	0	2	154	0	0	0	0	0	541
Total	0	1086	92	0	1178	41	0	46	0	87	73	403	0	3	479	0	0	0	0	0	1744
08:00 AM	0	339	31	0	370	22	0	16	0	38	20	148	0	0	168	0	0	0	0	0	576
08:15 AM	0	298	24	0	322	22	0	15	0	37	20	155	0	0	175	0	0	0	0	0	534
08:30 AM	0	266	43	0	309	20	0	9	0	29	19	160	0	0	179	0	0	0	0	0	517
Grand Total	0	1989	190	0	2179	105	0	86	0	191	132	866	0	3	1001	0	0	0	0	0	3371
Apprch %	0.0	91.3	8.7	0.0		55.0	0.0	45.0	0.0		13.2	86.5	0.0	0.3		0.0	0.0	0.0	0.0		
Total %	0.0	59.0	5.6	0.0	64.6	3.1	0.0	2.6	0.0	5.7	3.9	25.7	0.0	0.1	29.7	0.0	0.0	0.0	0.0	0.0	

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File Name : CREEDM~1

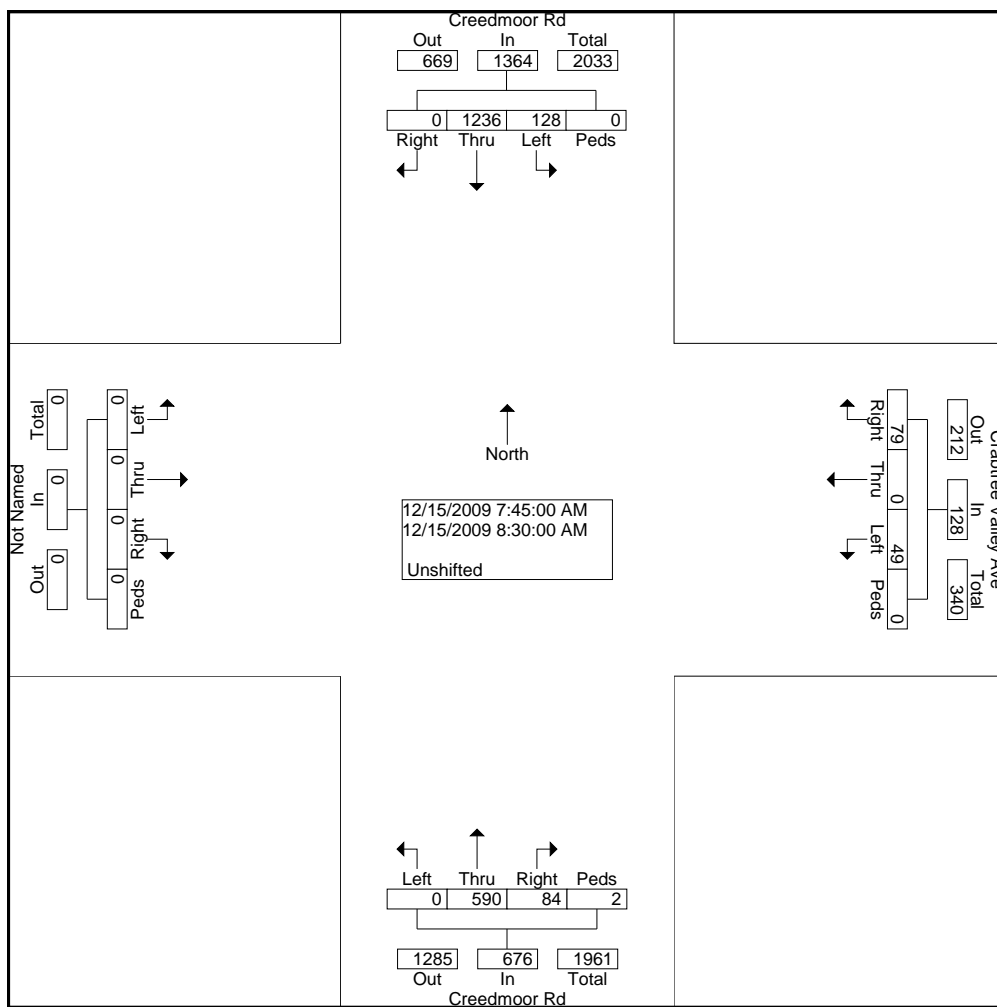
Site Code : 0000002

Comments: Two Accidents during AM Count

Start Date : 12/15/2009

Page No : 2

Start Time	Creedmoor Rd From North					Crabtree Valley Ave From East					Creedmoor Rd From South					From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 07:00 AM to 08:30 AM - Peak 1 of 1																					
Intersection	07:45 AM																				
Volume	0	1236	128	0	1364	79	0	49	0	128	84	590	0	2	676	0	0	0	0	0	2168
Percent	0.0	90.6	9.4	0.0		61.7	0.0	38.3	0.0		12.4	87.3	0.0	0.3		0.0	0.0	0.0	0.0		
08:00 Volume	0	339	31	0	370	22	0	16	0	38	20	148	0	0	168	0	0	0	0	0	576
Peak Factor																					0.941
High Int.	08:00 AM					08:00 AM					08:30 AM					6:45:00 AM					
Volume	0	339	31	0	370	22	0	16	0	38	19	160	0	0	179						
Peak Factor	0.922										0.842					0.944					



BREE & Associates, Inc
PO Box 675

Durham, NC 27702

Counter: J McCoy

Weather: clear

TEL: (919) 806-2255 FAX: (919) 806-2425

Comment: One accident during PM count

File Name : CREEDM~2

Site Code : 00000002

Start Date : 12/15/2009

Page No : 1

Groups Printed- Unshifted

Start Time	Creedmoor Rd From North					Crabtree Valley Ave From East					Creedmoor Rr From South					From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
04:00 PM	0	126	24	0	150	50	0	20	0	70	32	226	0	0	258	0	0	0	0	0	478
04:15 PM	0	132	35	0	167	59	0	26	0	85	60	289	4	2	355	0	0	0	0	0	607
04:30 PM	0	163	22	0	185	58	0	14	0	72	58	273	0	0	331	0	0	0	0	0	588
04:45 PM	0	165	38	0	203	45	2	18	0	65	36	243	28	2	309	0	0	0	0	0	577
Total	0	586	119	0	705	212	2	78	0	292	186	1031	32	4	1253	0	0	0	0	0	2250
05:00 PM	0	233	46	0	279	55	1	20	0	76	46	313	5	0	364	0	0	0	0	0	719
05:15 PM	1	269	39	0	309	51	0	15	0	66	43	298	1	0	342	0	0	0	0	0	717
05:30 PM	0	251	52	0	303	33	0	19	8	60	40	285	1	0	326	0	0	0	0	0	689
05:45 PM	0	203	38	0	241	81	0	19	9	109	64	343	0	0	407	0	0	0	0	0	757
Total	1	956	175	0	1132	220	1	73	17	311	193	1239	7	0	1439	0	0	0	0	0	2882
Grand Total	1	1542	294	0	1837	432	3	151	17	603	379	2270	39	4	2692	0	0	0	0	0	5132
Apprch %	0.1	83.9	16.0	0.0		71.6	0.5	25.0	2.8		14.1	84.3	1.4	0.1		0.0	0.0	0.0	0.0		
Total %	0.0	30.0	5.7	0.0	35.8	8.4	0.1	2.9	0.3	11.7	7.4	44.2	0.8	0.1	52.5	0.0	0.0	0.0	0.0	0.0	

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File Name : CREEDM~2

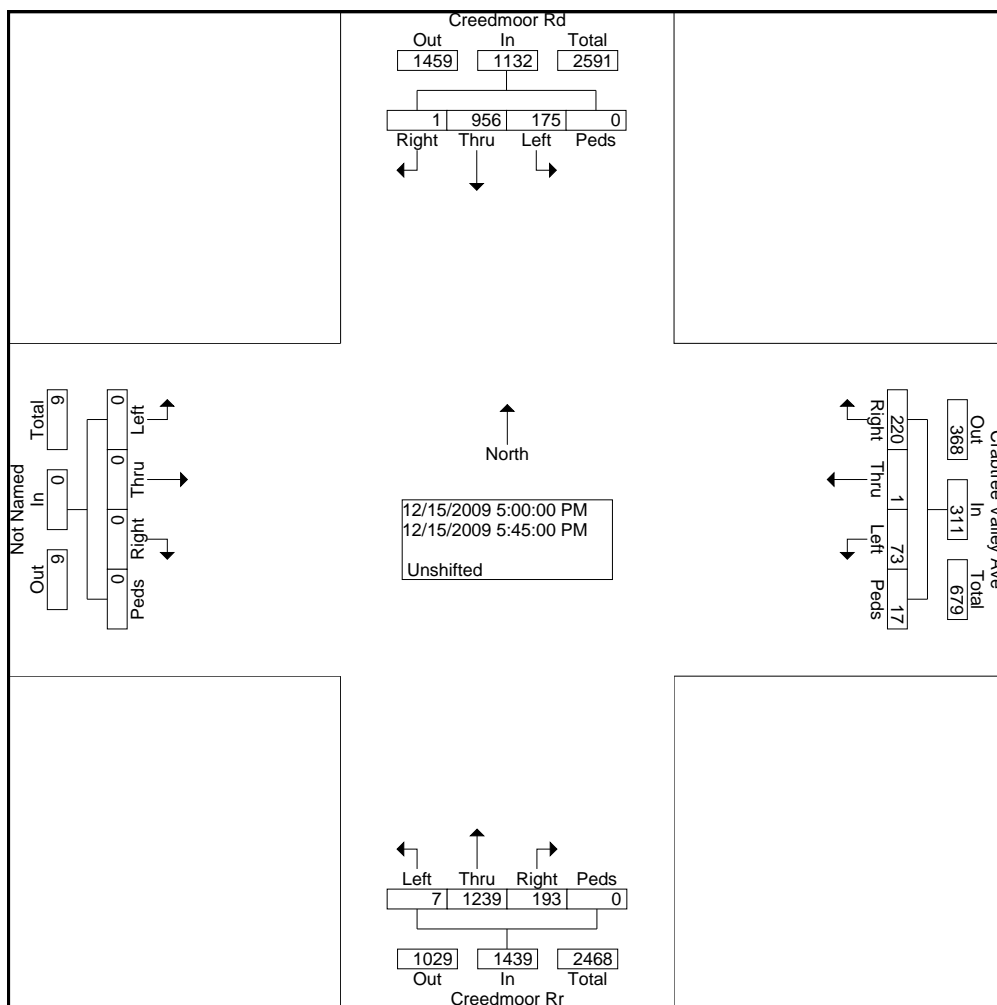
Site Code : 0000002

Comment: One accident during PM count

Start Date : 12/15/2009

Page No : 2

Start Time	Creedmoor Rd From North					Crabtree Valley Ave From East					Creedmoor Rr From South					From West					Int. Total
	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	05:00 PM																				
Volume	1	956	175	0	1132	220	1	73	17	311	193	1239	7	0	1439	0	0	0	0	0	2882
Percent	0.1	84.5	15.5	0.0		70.7	0.3	23.5	5.5		13.4	86.1	0.5	0.0		0.0	0.0	0.0	0.0		
05:45 Volume	0	203	38	0	241	81	0	19	9	109	64	343	0	0	407	0	0	0	0	0	757
Peak Factor	0.952																				
High Int.	05:15 PM					05:45 PM					05:45 PM					3:45:00 PM					
Volume	1	269	39	0	309	81	0	19	9	109	64	343	0	0	407						
Peak Factor	0.916					0.713					0.884										



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 Weather: Clear

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File Name : GLENWO~2

Site Code : 00000001

Start Date : 12/15/2009

Page No : 1

Groups Printed- Unshifted

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
07:00 AM	0	0	0	0	0	59	275	67	0	401	0	0	0	0	0	9	281	8	0	298	699
07:15 AM	0	0	0	0	0	94	357	63	0	514	0	0	0	0	0	10	290	9	0	309	823
07:30 AM	0	0	0	0	0	94	369	62	0	525	0	0	0	0	0	23	406	8	0	437	962
07:45 AM	0	0	0	0	0	119	458	79	0	656	0	0	0	0	0	20	304	10	0	334	990
Total	0	0	0	0	0	366	1459	271	0	2096	0	0	0	0	0	62	1281	35	0	1378	3474
08:00 AM	0	0	0	0	0	109	335	90	0	534	0	0	0	0	0	17	357	17	0	391	925
08:15 AM	0	0	0	0	0	139	343	93	0	575	0	0	0	0	0	29	328	12	0	369	944
08:30 AM	0	0	0	0	0	98	320	59	1	478	0	0	0	0	0	33	330	18	0	381	859
08:45 AM	0	0	0	0	0	130	324	50	0	504	0	0	0	0	0	30	322	28	0	380	884
Total	0	0	0	0	0	476	1322	292	1	2091	0	0	0	0	0	109	1337	75	0	1521	3612
Grand Total	0	0	0	0	0	842	2781	563	1	4187	0	0	0	0	0	171	2618	110	0	2899	7086
Apprch %	0.0	0.0	0.0	0.0		20.1	66.4	13.4	0.0		0.0	0.0	0.0	0.0		5.9	90.3	3.8	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	11.9	39.2	7.9	0.0	59.1	0.0	0.0	0.0	0.0	0.0	2.4	36.9	1.6	0.0	40.9	

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Weather: Clear

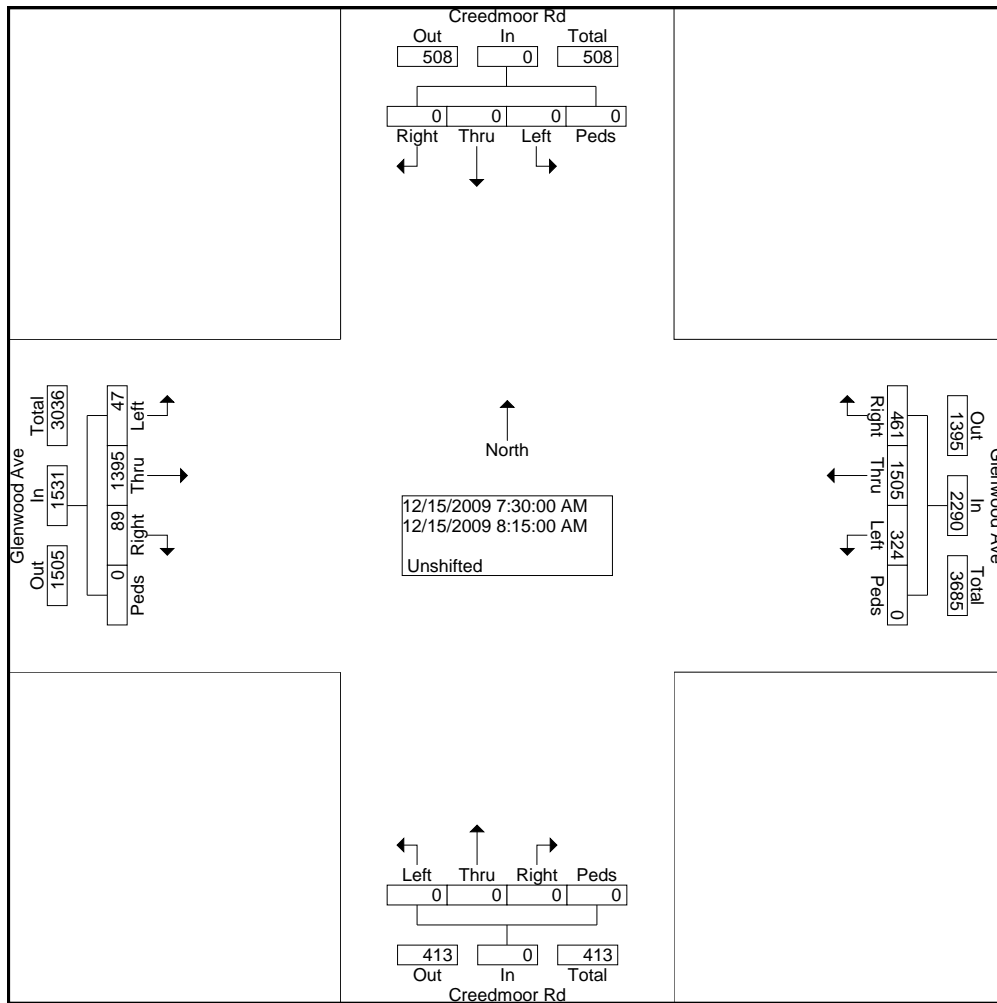
File Name : GLENWO~2

Site Code : 00000001

Start Date : 12/15/2009

Page No : 2

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	
Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Intersection	07:30 AM																				
Volume	0	0	0	0	0	461	1505	324	0	2290	0	0	0	0	0	89	1395	47	0	1531	3821
Percent	0.0	0.0	0.0	0.0		20.1	65.7	14.1	0.0		0.0	0.0	0.0	0.0		5.8	91.1	3.1	0.0		
07:45 Volume	0	0	0	0	0	119	458	79	0	656	0	0	0	0	0	20	304	10	0	334	990
Peak Factor	0.965																				
High Int.	6:45:00 AM																				
Volume	0	0	0	0	0	119	458	79	0	656	0	0	0	0	0	23	406	8	0	437	
Peak Factor	0.873															0.876					



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 Weather: clear

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File Name : GLENWO~3
 Site Code : 00000001
 Start Date : 12/15/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
04:00 PM	0	0	0	0	0	188	363	51	0	602	0	0	0	0	0	34	371	28	0	433	1035
04:15 PM	0	0	0	0	0	183	470	67	1	721	0	0	0	0	0	37	438	56	0	531	1252
04:30 PM	0	0	0	0	0	223	402	40	0	665	0	0	0	0	0	38	369	32	0	439	1104
04:45 PM	0	0	0	0	0	181	481	62	0	724	0	0	0	0	0	48	425	37	0	510	1234
Total	0	0	0	0	0	775	1716	220	1	2712	0	0	0	0	0	157	1603	153	0	1913	4625
05:00 PM	0	0	0	0	0	235	393	62	0	690	0	0	0	0	0	66	421	44	0	531	1221
05:15 PM	0	0	0	0	0	218	436	60	0	714	0	0	0	0	0	53	379	31	1	464	1178
05:30 PM	0	0	0	0	0	217	369	42	0	628	0	0	0	0	0	49	306	40	0	395	1023
05:45 PM	0	0	0	0	0	197	396	41	0	634	0	0	0	0	0	47	361	36	0	444	1078
Total	0	0	0	0	0	867	1594	205	0	2666	0	0	0	0	0	215	1467	151	1	1834	4500
Grand Total	0	0	0	0	0	1642	3310	425	1	5378	0	0	0	0	0	372	3070	304	1	3747	9125
Apprch %	0.0	0.0	0.0	0.0		30.5	61.5	7.9	0.0		0.0	0.0	0.0	0.0		9.9	81.9	8.1	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	18.0	36.3	4.7	0.0	58.9	0.0	0.0	0.0	0.0	0.0	4.1	33.6	3.3	0.0	41.1	

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Counter: J Dawkins
Weather: clear

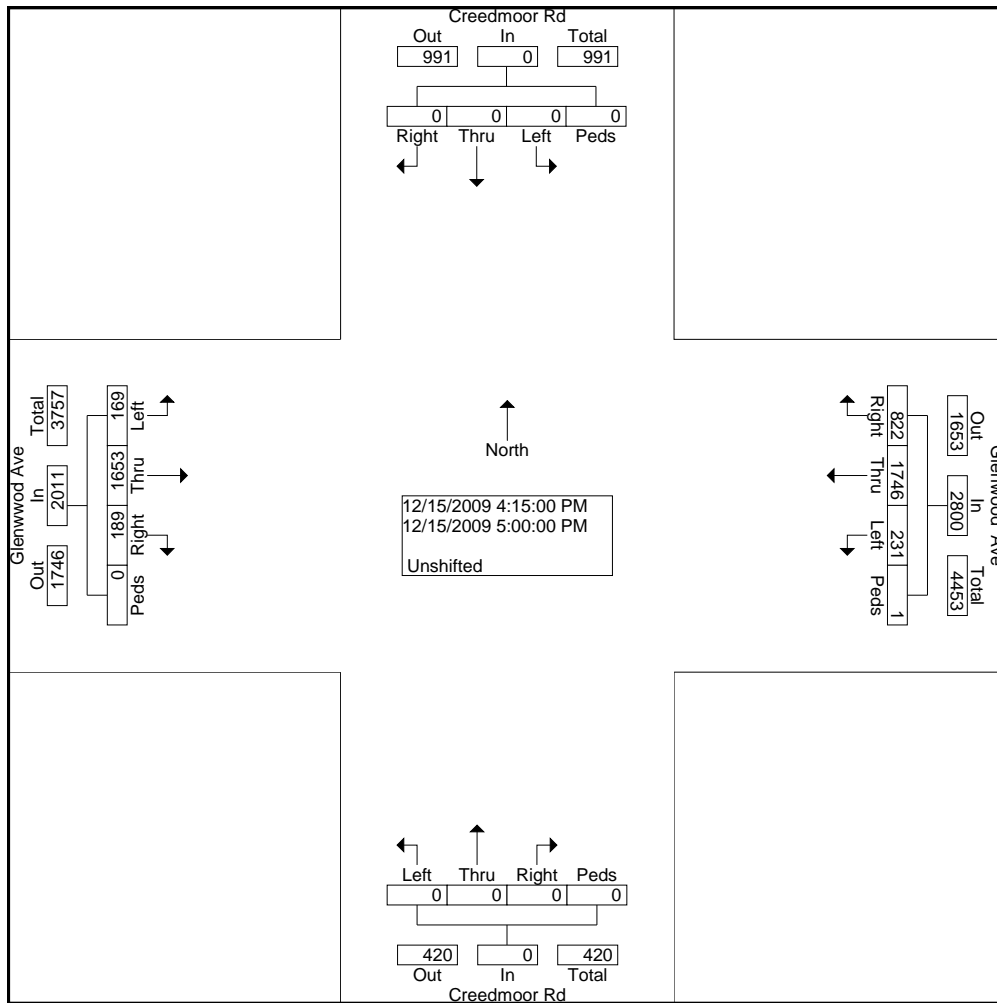
File Name : GLENWO~3

Site Code : 00000001

Start Date : 12/15/2009

Page No : 2

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total	
	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total		
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																						
Intersection	04:15 PM																					
Volume	0	0	0	0	0	822	174	231	1	2800	0	0	0	0	0	189	165	169	0	2011	4811	
Percent	0.0	0.0	0.0	0.0		29.4	62.4	8.3	0.0		0.0	0.0	0.0	0.0		9.4	82.2	8.4	0.0			
Volume	0	0	0	0	0	183	470	67	1	721	0	0	0	0	0	37	438	56	0	531	1252	
Peak Factor																						
High Int.	3:45:00 PM					04:45 PM					3:45:00 PM					04:15 PM						
Volume	0	0	0	0	0	181	481	62	0	724	0	0	0	0	0	37	438	56	0	531		
Peak Factor																						
																					0.967	0.947



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Counter: L Bradford
 Weather: Clear

TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : CREEDM~3
 Site Code : 00000001
 Start Date : 12/15/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
04:00 PM	12	95	148	0	255	0	0	0	0	0	52	177	122	0	351	0	0	0	0	0	606
04:15 PM	18	114	117	0	249	0	0	0	0	0	57	217	110	0	384	0	0	0	0	0	633
04:30 PM	12	102	144	0	258	0	0	0	0	0	49	233	141	0	423	0	0	0	0	0	681
04:45 PM	17	113	132	1	263	0	0	0	0	0	50	224	122	0	396	0	0	0	0	0	659
Total	59	424	541	1	1025	0	0	0	0	0	208	851	495	0	1554	0	0	0	0	0	2579
05:00 PM	21	144	176	0	341	0	0	0	0	0	48	239	127	0	414	0	0	0	0	0	755
05:15 PM	14	182	158	0	354	0	0	0	0	0	57	247	110	0	414	0	0	0	0	0	768
05:30 PM	21	184	172	0	377	0	0	0	0	0	45	229	168	0	442	0	0	0	0	0	819
05:45 PM	31	157	146	0	334	0	0	0	0	0	49	251	118	0	418	0	0	0	0	0	752
Total	87	667	652	0	1406	0	0	0	0	0	199	966	523	0	1688	0	0	0	0	0	3094
Grand Total	146	109 1	119 3	1	2431	0	0	0	0	0	407	181 7	101 8	0	3242	0	0	0	0	0	5673
Apprch %	6.0	44.9	49.1	0.0		0.0	0.0	0.0	0.0	0.0	12.6	56.0	31.4	0.0		0.0	0.0	0.0	0.0	0.0	
Total %	2.6	19.2	21.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	7.2	32.0	17.9	0.0	57.1	0.0	0.0	0.0	0.0	0.0	

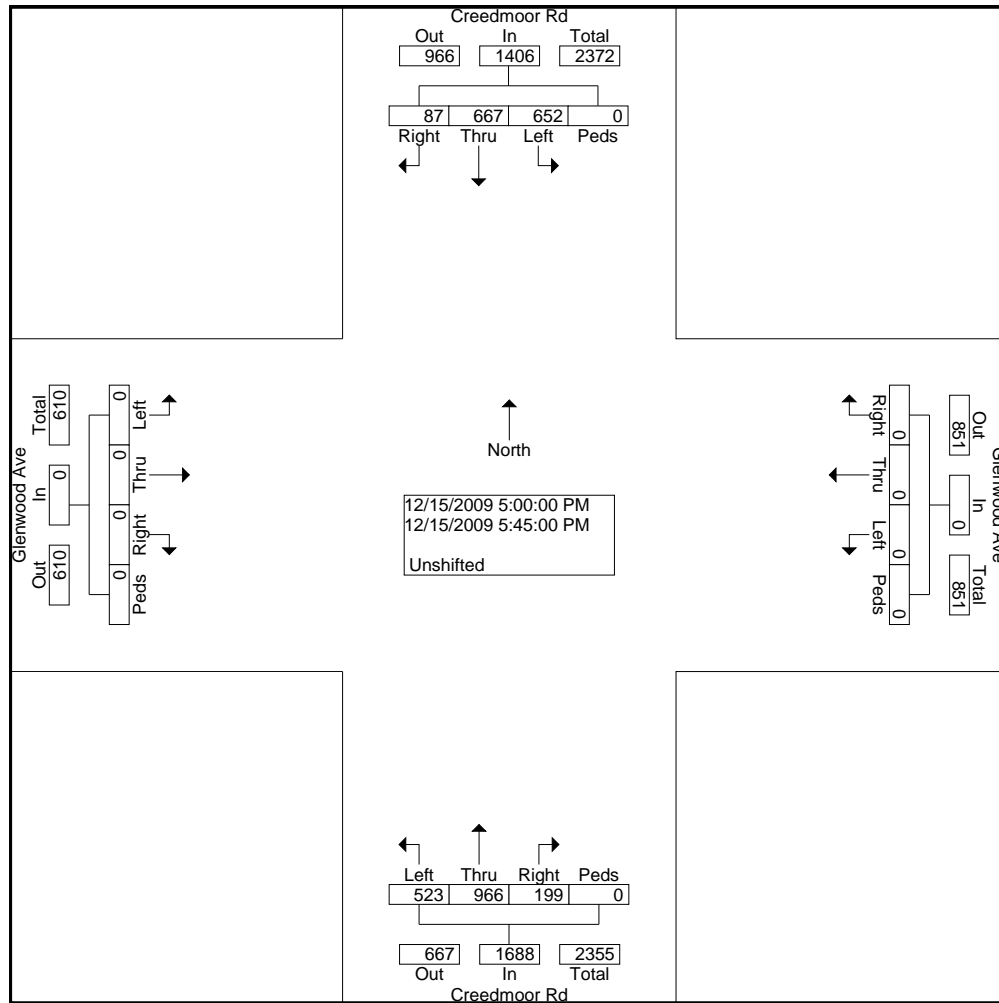
BREE & Associates, Inc
 PO Box 675

Counter: L Bradford
 Weather: Clear

Durham, NC 27702
 TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : CREEDM~3
 Site Code : 0000001
 Start Date : 12/15/2009
 Page No : 2

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	05:00 PM																				
Volume	87	667	652	0	1406	0	0	0	0	0	199	966	523	0	1688	0	0	0	0	0	3094
Percent	6.2	47.4	46.4	0.0		0.0	0.0	0.0	0.0		11.8	57.2	31.0	0.0		0.0	0.0	0.0	0.0		
05:30 Volume	21	184	172	0	377	0	0	0	0	0	45	229	168	0	442	0	0	0	0	0	819
Peak Factor	0.944																				
High Int. Volume	05:30 PM					3:45:00 PM					05:30 PM					3:45:00 PM					
Peak Factor	0.932										0.955										



BREE & Associates, Inc
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Durham, NC 27702

Counter: L Bradford
 Weather: Clear

TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : CREEDM~4
 Site Code : 00000001
 Start Date : 12/15/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
07:00 AM	21	115	186	0	322	0	0	0	0	0	22	27	22	0	71	0	0	0	0	0	393
07:15 AM	17	145	183	0	345	0	0	0	0	0	23	44	22	2	91	0	0	0	0	0	436
07:30 AM	12	245	199	0	456	0	0	0	0	0	19	53	34	0	106	0	0	0	0	0	562
07:45 AM	21	250	238	1	510	0	0	0	0	0	19	60	27	0	106	0	0	0	0	0	616
Total	71	755	806	1	1633	0	0	0	0	0	83	184	105	2	374	0	0	0	0	0	2007
08:00 AM	34	242	194	0	470	0	0	0	0	0	28	56	43	0	127	0	0	0	0	0	597
08:15 AM	30	246	209	0	485	0	0	0	0	0	24	85	43	0	152	0	0	0	0	0	637
08:30 AM	18	214	184	0	416	0	0	0	0	0	26	93	43	0	162	0	0	0	0	0	578
08:45 AM	26	175	184	0	385	0	0	0	0	0	41	83	49	0	173	0	0	0	0	0	558
Total	108	877	771	0	1756	0	0	0	0	0	119	317	178	0	614	0	0	0	0	0	2370
Grand Total	179	163 2	157 7	1	3389	0	0	0	0	0	202	501	283	2	988	0	0	0	0	0	4377
Apprch %	5.3	48.2	46.5	0.0		0.0	0.0	0.0	0.0		20.4	50.7	28.6	0.2		0.0	0.0	0.0	0.0		
Total %	4.1	37.3	36.0	0.0	77.4	0.0	0.0	0.0	0.0	0.0	4.6	11.4	6.5	0.0	22.6	0.0	0.0	0.0	0.0	0.0	

BREE & Associates, Inc
 PO Box 675

Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: L Bradford

Weather: Clear

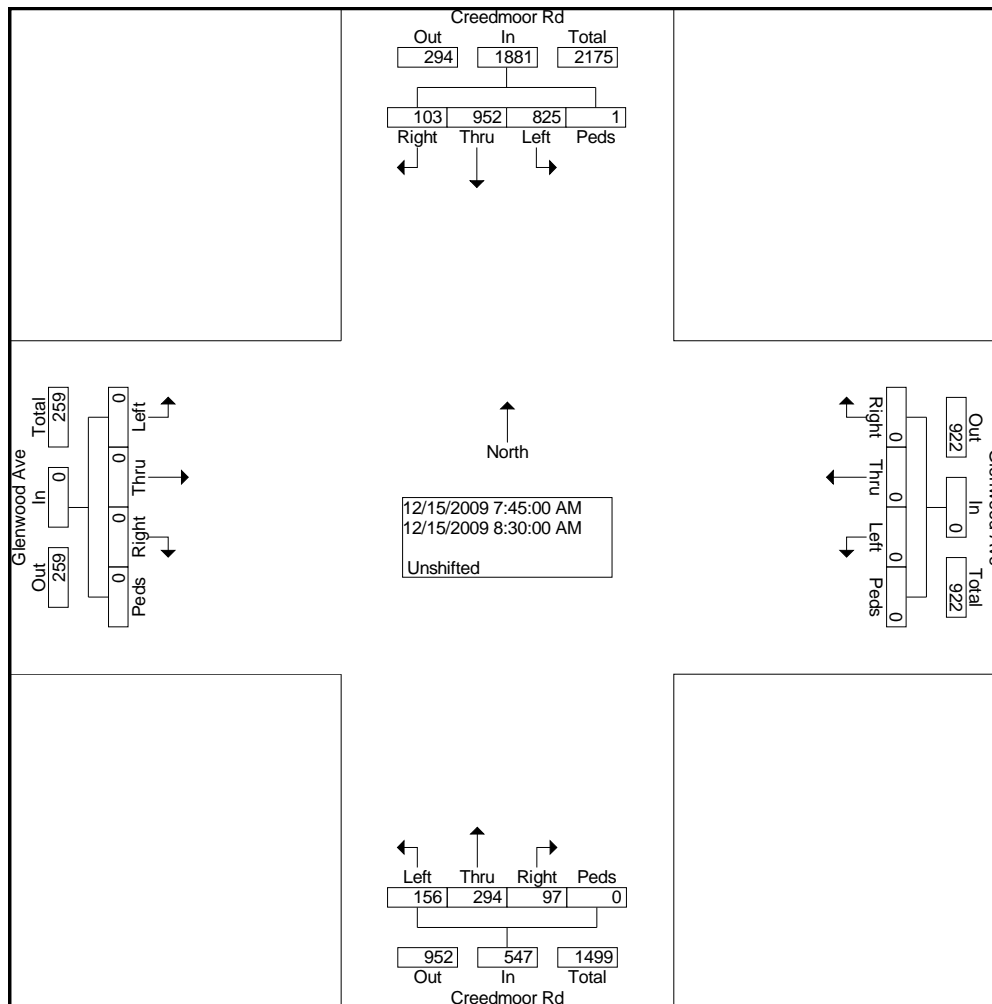
File Name : CREEDM~4

Site Code : 00000001

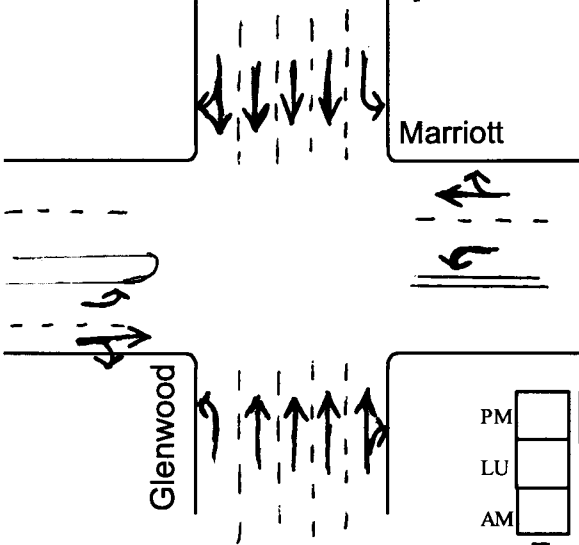
Start Date : 12/15/2009

Page No : 2

Start Time	Creedmoor Rd From North					Glenwood Ave From East					Creedmoor Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	
Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Intersection	07:45 AM																				
Volume	103	952	825	1	1881	0	0	0	0	0	97	294	156	0	547	0	0	0	0	0	2428
Percent	5.5	50.6	43.9	0.1		0.0	0.0	0.0	0.0		17.7	53.7	28.5	0.0		0.0	0.0	0.0	0.0		
Volume	30	246	209	0	485	0	0	0	0	0	24	85	43	0	152	0	0	0	0	0	637
Peak Factor	0.953																				
High Int.	07:45 AM					6:45:00 AM					08:30 AM					6:45:00 AM					
Volume	21	250	238	1	510	0	0	0	0	0	26	93	43	0	162						
Peak Factor	0.922										0.844										



Intersection Description



Intersection Glenwood - Marriott

Date Count Completed 4/7/09 AM, 4/8/09 LU, 4/14/09 PM

PM	2266	
.053	.940	.007
121	2129	16
LU	1969	
.058	.936	.006
114	1843	12
AM	2342	
.010	.987	.003
24	2310	8

Peak Periods for Intersection

AM	7:30	to	8:30
LU	12:30	to	1:30
PM	4:45	to	5:45

Weather Conditions

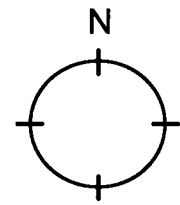
AM	Clear
LU	Clear
PM	Rain

AM	LU	PM
1	8	8
5	5	3
PM	LU	AM

PM	.355	LU	.361	AM	.405	AM	.210	AM	.354	LU	.301	PM
	65		103		17		21		23		25	
192	.021	285	.025	42	.048	6	.060	98	.092	65	.072	83
	4		7		2		6		6		6	
	.644		.614		.547		.730		.554		.627	
	125		175		23		71		36		52	

AM	PM
LU	PM
PM	AM

AM	LU	PM
6	23	14
AM	LU	PM



Counter(s) AM: Andrew / Matt
LU, PM: George / Matt

.014	.956	.030
31	2016	61
AM	2108	
.110	.872	.018
194	1559	31
LU	1878	
.066	.916	.018
171	2366	47
PM	2584	



**City of Raleigh
Public Works**

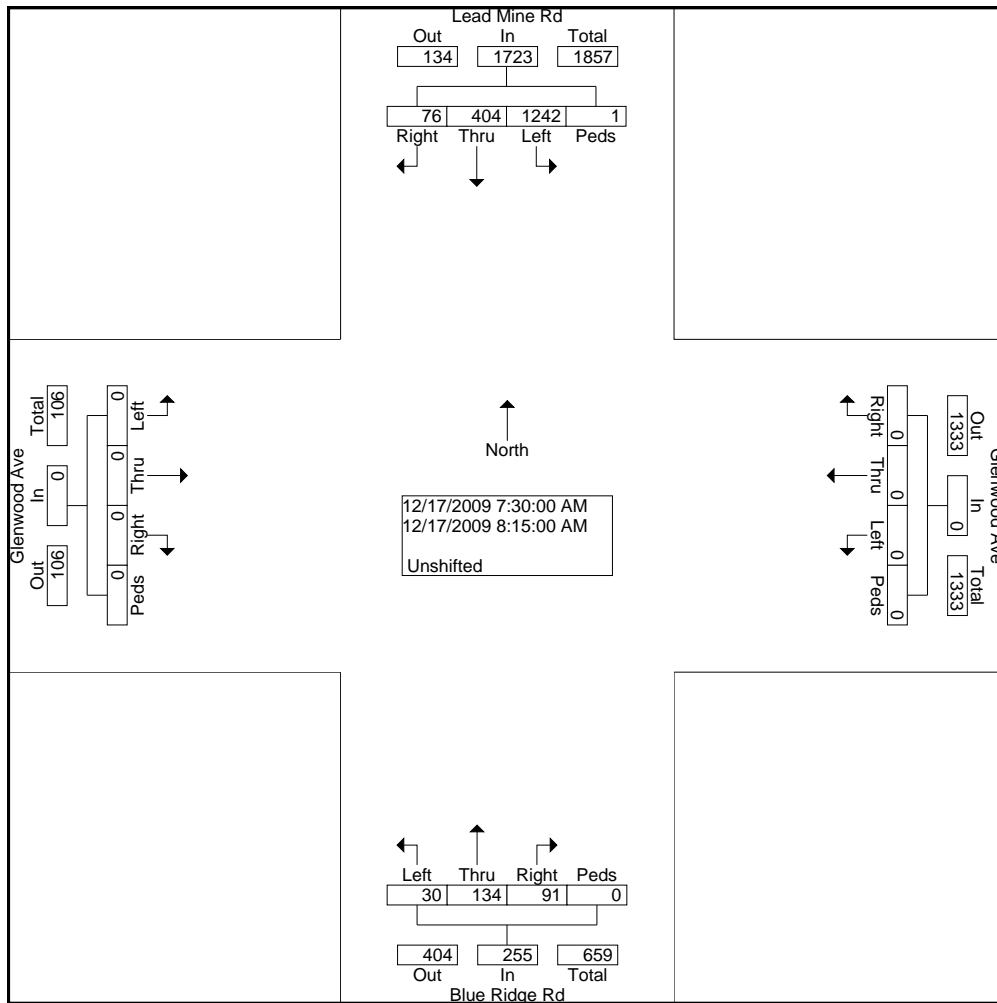
BREE & Associates, Inc
PO Box 675

Counter: L Bradford
Cloudy

Durham, NC 27702
TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : GL53BB~1
Site Code : 00000006
Start Date : 12/17/2009
Page No : 2

Start Time	Lead Mine Rd From North					Glenwood Ave From East					Blue Ridge Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Intersection	07:30 AM																				
Volume	76	404	124	1	1723	0	0	0	0	0	91	134	30	0	255	0	0	0	0	0	1978
Percent	4.4	23.4	72.1	0.1		0.0	0.0	0.0	0.0		35.7	52.5	11.8	0.0		0.0	0.0	0.0	0.0		
07:45 Volume	23	141	329	0	493	0	0	0	0	0	25	32	7	0	64	0	0	0	0	0	557
Peak Factor	0.874																				0.888
High Int.	07:45 AM					6:45:00 AM					08:15 AM					6:45:00 AM					
Volume	23	141	329	0	493	0	0	0	0	0	28	40	6	0	74						
Peak Factor	0.874															0.861					



BREE & Associates, Inc
 PO Box 675

Counter L. Bradford
 Weather: Lite Rain

Durham, NC 27702
 TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : GL5FEB~1
 Site Code : 00000006
 Start Date : 12/17/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Lead Mine Rd From North					Glenwood Ave From East					Blue Ridge Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
04:00 PM	18	56	188	0	262	0	0	0	0	0	140	81	27	0	248	0	0	0	0	0	510
04:15 PM	15	74	123	0	212	0	0	0	0	0	194	104	22	0	320	0	0	0	0	0	532
04:30 PM	22	55	180	0	257	0	0	0	0	0	148	87	27	1	263	0	0	0	0	0	520
04:45 PM	18	70	171	1	260	0	0	0	0	0	142	106	13	2	263	0	0	0	0	0	523
Total	73	255	662	1	991	0	0	0	0	0	624	378	89	3	1094	0	0	0	0	0	2085
05:00 PM	19	60	187	0	266	0	0	0	0	0	112	88	24	1	225	0	0	0	0	0	491
05:15 PM	18	80	153	0	251	0	0	0	0	0	73	91	37	0	201	0	0	0	0	0	452
05:30 PM	26	74	164	0	264	0	0	0	0	0	86	87	34	0	207	0	0	0	0	0	471
05:45 PM	18	95	146	0	259	0	0	0	0	0	104	102	36	0	242	0	0	0	0	0	501
Total	81	309	650	0	1040	0	0	0	0	0	375	368	131	1	875	0	0	0	0	0	1915
Grand Total	154	564	1312	1	2031	0	0	0	0	0	999	746	220	4	1969	0	0	0	0	0	4000
Apprch %	7.6	27.8	64.6	0.0		0.0	0.0	0.0	0.0	0.0	50.7	37.9	11.2	0.2		0.0	0.0	0.0	0.0	0.0	
Total %	3.9	14.1	32.8	0.0	50.8	0.0	0.0	0.0	0.0	0.0	25.0	18.7	5.5	0.1	49.2	0.0	0.0	0.0	0.0	0.0	0.0

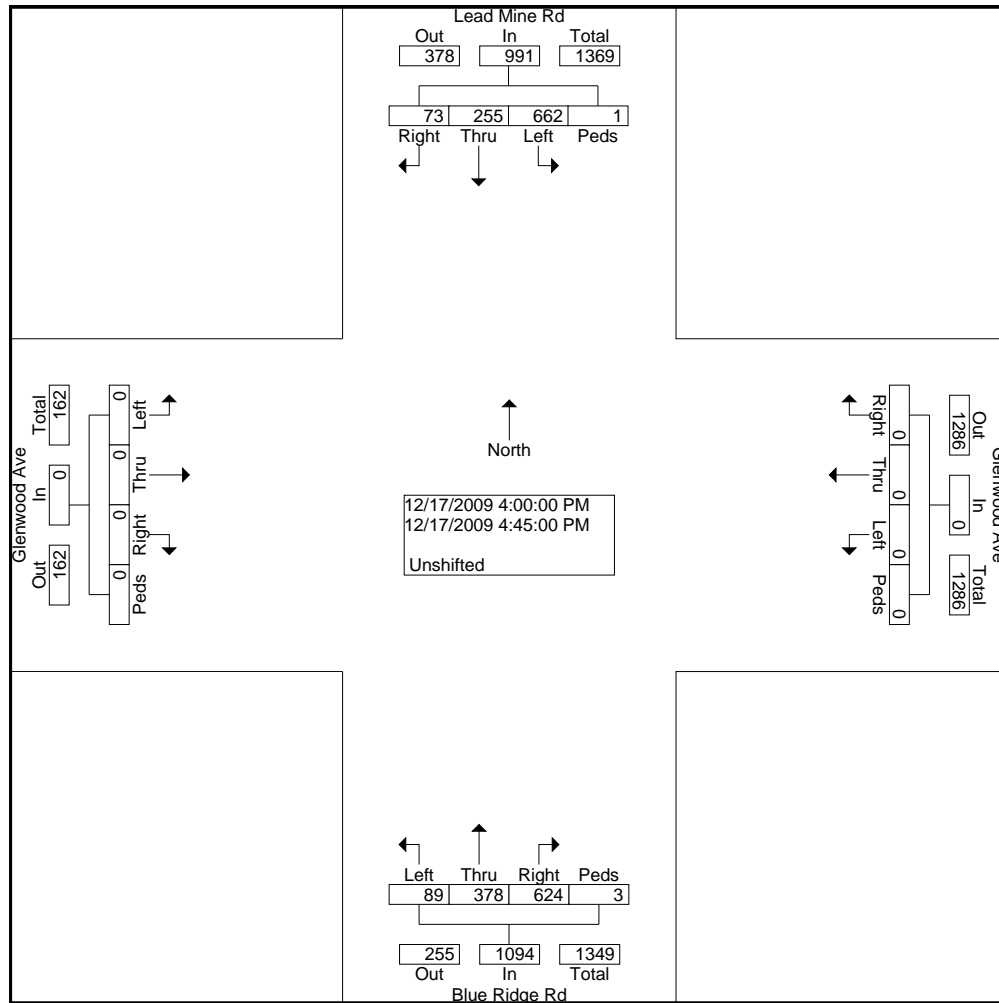
BREE & Associates, Inc
 PO Box 675

Counter L. Bradford
 Weather: Lite Rain

Durham, NC 27702
 TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : GL5FEB~1
 Site Code : 00000006
 Start Date : 12/17/2009
 Page No : 2

Start Time	Lead Mine Rd From North					Glenwood Ave From East					Blue Ridge Rd From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	04:00 PM																				
Volume	73	255	662	1	991	0	0	0	0	0	624	378	89	3	1094	0	0	0	0	0	2085
Percent	7.4	25.7	66.8	0.1		0.0	0.0	0.0	0.0		57.0	34.6	8.1	0.3		0.0	0.0	0.0	0.0		
04:15 Volume	15	74	123	0	212	0	0	0	0	0	194	104	22	0	320	0	0	0	0	0	532
Peak Factor	0.980																				
High Int. Volume	04:00 PM					3:45:00 PM					04:15 PM					3:45:00 PM					
Peak Factor	0.946										0.855										



BREE & Associates, Inc
PO Box 675

Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: J Dawkins
Weather: Cloudy

File Name : GL23EF~1

Site Code : 00000006

Start Date : 12/17/2009

Page No : 1

Groups Printed- Unshifted

Start Time	Lead Mine Rd From North				Glenwood Ave From East					Blue Ridge Rd From South					Glenwood Ave From West					Int. Total
	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	0	0	0	0	66	356	72	1	495	0	0	0	0	0	9	441	92	0	542	1037
07:15 AM	0	0	0	0	108	531	87	0	726	0	0	0	0	0	6	403	111	0	520	1246
07:30 AM	0	0	0	0	115	462	128	0	705	0	0	0	0	0	15	597	22	0	634	1339
07:45 AM	0	0	0	0	113	462	145	0	720	0	0	0	0	0	17	526	22	0	565	1285
Total	0	0	0	0	402	1811	432	1	2646	0	0	0	0	0	47	1967	247	0	2261	4907
08:00 AM	0	0	0	0	122	452	87	1	662	0	0	0	0	0	13	471	125	0	609	1271
08:15 AM	0	0	0	0	120	402	86	0	608	0	0	0	0	0	17	497	20	0	534	1142
08:30 AM	0	0	0	0	109	445	96	0	650	0	0	0	0	0	17	515	12	0	544	1194
08:45 AM	0	0	0	0	117	536	153	0	806	0	0	0	0	0	20	507	19	0	546	1352
Total	0	0	0	0	468	1835	422	1	2726	0	0	0	0	0	67	1990	176	0	2233	4959
*** BREAK ***																				
Grand Total	0	0	0	0	870	3646	854	2	5372	0	0	0	0	0	114	3957	423	0	4494	9866
Apprch %	0.0	0.0	0.0		16.2	67.9	15.9	0.0		0.0	0.0	0.0	0.0		2.5	88.1	9.4	0.0		
Total %	0.0	0.0	0.0	0.0	8.8	37.0	8.7	0.0	54.4	0.0	0.0	0.0	0.0	0.0	1.2	40.1	4.3	0.0	45.6	

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Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: J Dawkins
 Weather: Cloudy

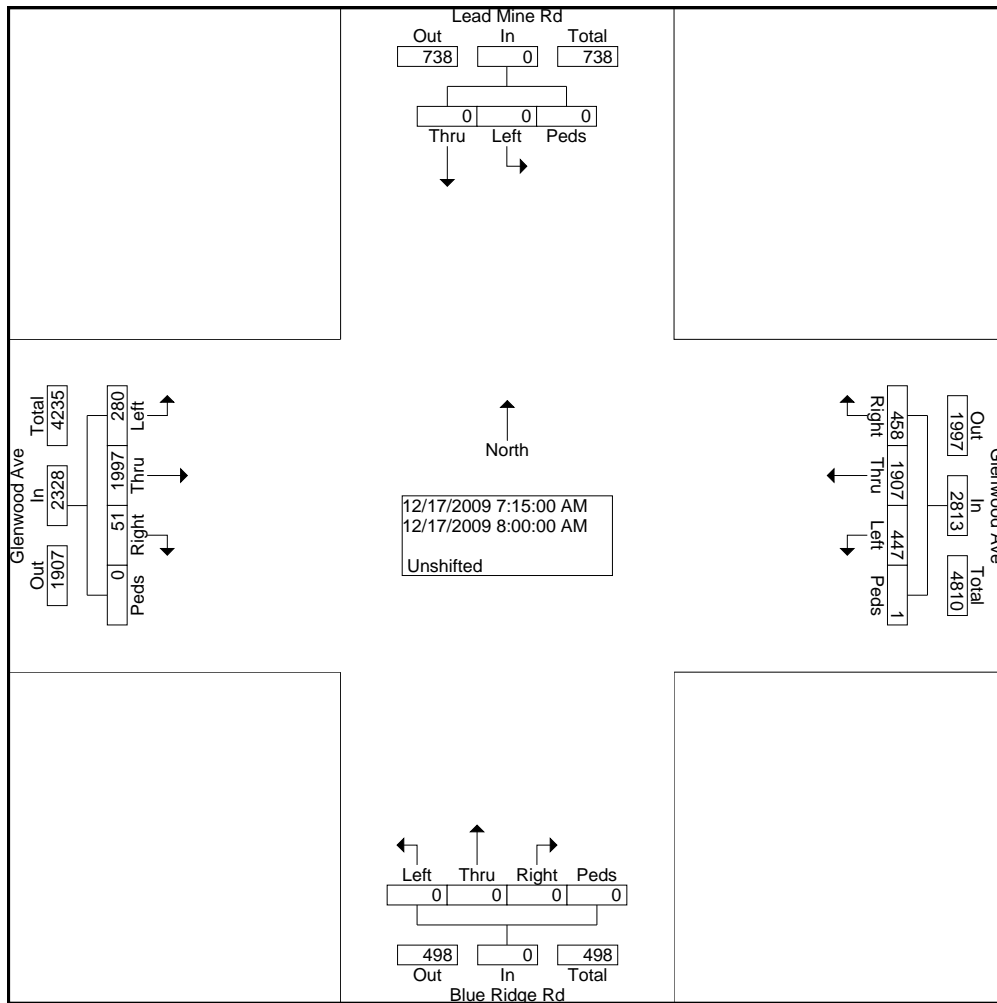
File Name : GL23EF~1

Site Code : 00000006

Start Date : 12/17/2009

Page No : 2

Start Time	Lead Mine Rd From North				Glenwood Ave From East					Blue Ridge Rd From South					Glenwood Ave From West					Int. Total
	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour From 07:00 AM to 09:00 AM - Peak 1 of 1																				
Intersection 07:15 AM																				
Volume	0	0	0	0	458	190	447	1	2813	0	0	0	0	0	51	199	280	0	2328	5141
Percent	0.0	0.0	0.0		16.3	67.8	15.9	0.0		0.0	0.0	0.0	0.0		2.2	85.8	12.0	0.0		
Volume	0	0	0	0	115	462	128	0	705	0	0	0	0	0	15	597	22	0	634	1339
Peak Factor																				0.960
High Int.	6:45:00 AM				07:15 AM					6:45:00 AM					07:30 AM					
Volume	0	0	0	0	108	531	87	0	726	0	0	0	0	0	15	597	22	0	634	
Peak Factor																				0.918



BREE & Associates, Inc
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Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : GL43E5~1

Site Code : 00000006

Start Date : 12/17/2009

Page No : 1

Groups Printed- Unshifted

Start Time	Lead Mine Rd From North				Glenwood Ave From East					Blue Ridge Rd From South					Glenwood Ave From West					Int. Total
	Thru	Left	Peds	App. Total	Righ t	Thru	Left	Peds	App. Total	Righ t	Thru	Left	Peds	App. Total	Righ t	Thru	Left	Peds	App. Total	
04:00 PM	0	0	0	0	227	591	202	0	1020	0	0	0	0	0	14	576	52	0	642	1662
04:15 PM	0	0	0	0	231	694	228	0	1153	0	0	0	0	0	23	685	71	0	779	1932
04:30 PM	0	0	0	0	243	668	196	0	1107	0	0	0	0	0	21	628	56	1	706	1813
04:45 PM	0	0	0	0	236	805	263	0	1304	0	0	0	0	0	18	630	78	0	726	2030
Total	0	0	0	0	937	2758	889	0	4584	0	0	0	0	0	76	2519	257	1	2853	7437
05:00 PM	0	0	0	0	258	763	166	0	1187	0	0	0	0	0	17	618	49	1	685	1872
05:15 PM	0	0	0	0	224	770	216	0	1210	0	0	0	0	0	20	648	82	0	750	1960
05:30 PM	0	0	0	0	226	689	211	0	1126	0	0	0	0	0	21	541	60	0	622	1748
05:45 PM	0	0	0	0	233	850	252	1	1336	0	0	0	0	0	14	644	82	0	740	2076
Total	0	0	0	0	941	3072	845	1	4859	0	0	0	0	0	72	2451	273	1	2797	7656
Grand Total	0	0	0	0	1878	5830	1734	1	9443	0	0	0	0	0	148	4970	530	2	5650	15093
Apprch %	0.0	0.0	0.0		19.9	61.7	18.4	0.0		0.0	0.0	0.0	0.0		2.6	88.0	9.4	0.0		
Total %	0.0	0.0	0.0	0.0	12.4	38.6	11.5	0.0	62.6	0.0	0.0	0.0	0.0	0.0	1.0	32.9	3.5	0.0	37.4	

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TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : GL43E5~1

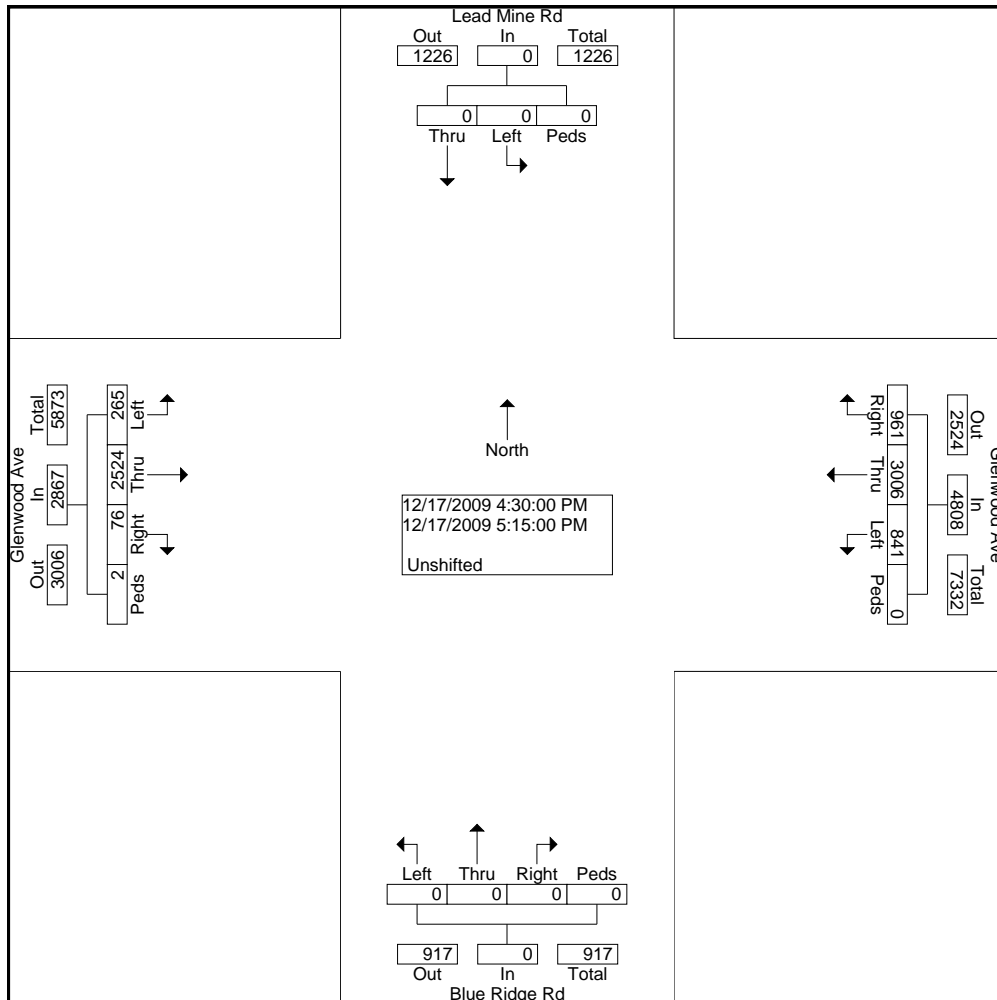
Site Code : 00000006

Start Date : 12/17/2009

Page No : 2

Counter: J Dawkins
 Weather: Lite Rain

Start Time	Lead Mine Rd From North				Glenwood Ave From East				Blue Ridge Rd From South					Glenwood Ave From West					Int. Total	
	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds		App. Total
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																				
Intersection 04:30 PM																				
Volume	0	0	0	0	961	3006	841	0	4808	0	0	0	0	0	76	2524	265	2	2867	7675
Percent	0.0	0.0	0.0		20.0	62.5	17.5	0.0		0.0	0.0	0.0	0.0		2.7	88.0	9.2	0.1		
04:45 Volume	0	0	0	0	236	805	263	0	1304	0	0	0	0	0	18	630	78	0	726	2030
Peak Factor																				0.945
High Int. 3:45:00 PM																				
Volume	0	0	0	0	236	805	263	0	1304	0	0	0	0	0	20	648	82	0	750	
Peak Factor																				0.956



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 PO Box 675

Durham, NC 27702

Counter: J McCoy
 Weather: Clear

TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : GLENWO~4

Site Code : 00000004

Start Date : 12/16/2009

Page No : 1

Groups Printed- Unshifted

Start Time	I-440 EB Ramp From North					Glenwood Ave From East					I-440 EB Ramp From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
07:00 AM	0	0	0	0	0	0	161	0	0	161	0	0	116	0	116	306	290	5	0	601	878
07:15 AM	0	0	0	0	0	0	166	0	0	166	0	0	151	0	151	223	357	0	0	580	897
07:30 AM	0	0	0	0	0	0	189	0	0	189	0	0	160	0	160	343	406	0	0	749	1098
07:45 AM	0	0	0	0	0	0	254	0	0	254	0	0	171	0	171	363	456	0	0	819	1244
Total	0	0	0	0	0	0	770	0	0	770	0	0	598	0	598	1235	1509	5	0	2749	4117
08:00 AM	0	0	0	0	0	0	175	0	0	175	0	0	165	0	165	358	430	1	1	790	1130
08:15 AM	0	0	0	0	0	0	214	0	0	214	0	0	175	0	175	335	417	0	0	752	1141
08:30 AM	0	0	0	0	0	0	206	0	0	206	0	0	186	0	186	314	384	0	0	698	1090
08:45 AM	0	0	0	0	0	2	230	0	0	232	0	0	197	0	197	289	433	0	0	722	1151
Total	0	0	0	0	0	2	825	0	0	827	0	0	723	0	723	1296	1664	1	1	2962	4512
Grand Total	0	0	0	0	0	2	1595	0	0	1597	0	0	1321	0	1321	2531	3173	6	1	5711	8629
Apprch %	0.0	0.0	0.0	0.0		0.1	99.9	0.0	0.0		0.0	0.0	100.0	0.0		44.3	55.6	0.1	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	18.5	0.0	0.0	18.5	0.0	0.0	15.3	0.0	15.3	29.3	36.8	0.1	0.0	66.2	

BREE & Associates, Inc
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Durham, NC 27702

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Counter: J McCoy
 Weather: Clear

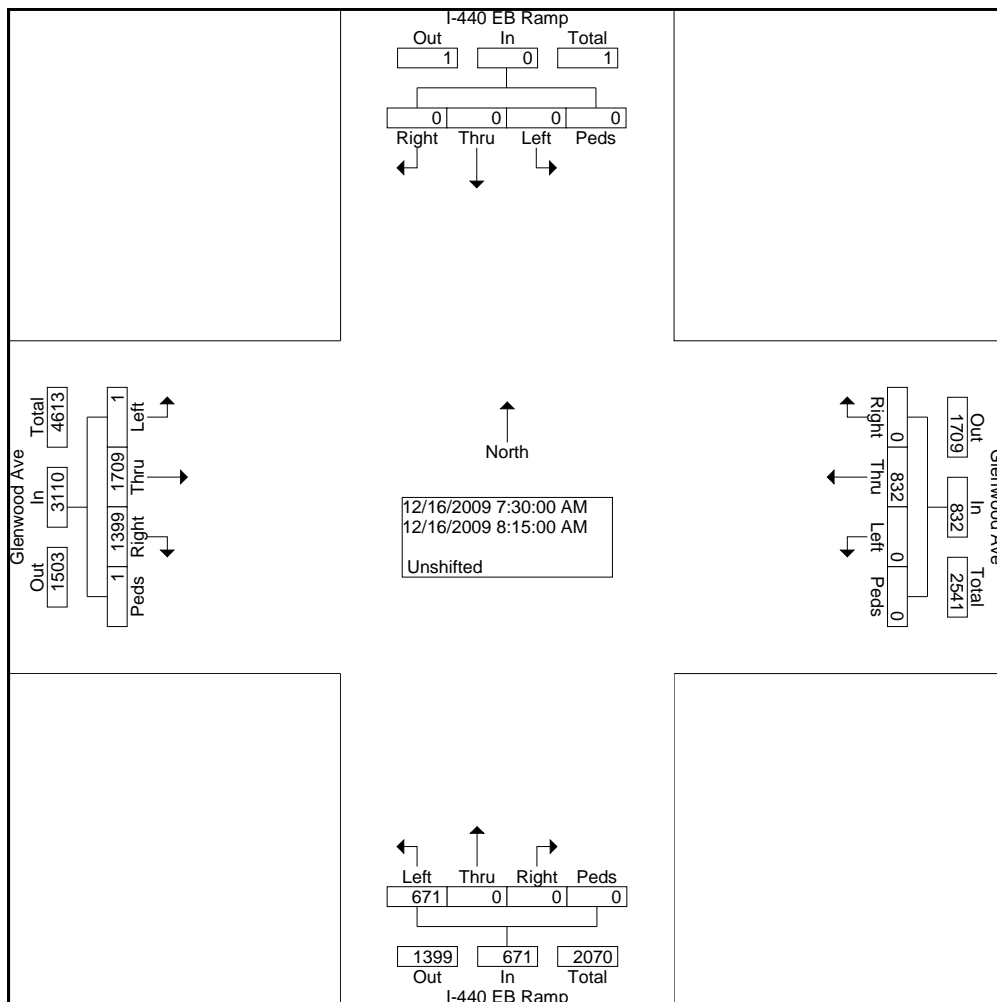
File Name : GLENWO~4

Site Code : 00000004

Start Date : 12/16/2009

Page No : 2

Start Time	I-440 EB Ramp From North					Glenwood Ave From East					I-440 EB Ramp From South					Glenwood Ave From West					Int. Total			
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total				
Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1																								
Intersection	07:30 AM																							
Volume	0	0	0	0	0	0	832	0	0	832	0	0	671	0	671	139	170	1	1	3110	4613			
Percent	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		45.0	55.0	0.0	0.0					
07:45 Volume	0	0	0	0	0	0	254	0	0	254	0	0	171	0	171	363	456	0	0	819	1244			
Peak Factor																								
High Int. Peak																								
6:45:00 AM Volume	0	0	0	0	0	07:45 AM	0	254	0	0	254	08:15 AM	0	0	175	0	175	07:45 AM	363	456	0	0	819	0.927
Peak Factor						0.819					0.959					0.949								



BREE & Associates, Inc
 PO Box 675

Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: J McCoy
 Weather: Clear

File Name : GL74E7~1
 Site Code : 00000004
 Start Date : 12/16/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	I-440 EB Ramp From North					Glenwood Ave From East					I-440 EB Ramp From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
04:00 PM	0	0	0	0	0	0	342	0	0	342	0	0	217	0	217	377	237	0	0	614	1173
04:15 PM	0	0	0	0	0	0	311	0	0	311	0	0	289	0	289	351	217	0	6	574	1174
04:30 PM	0	0	0	0	0	0	324	0	0	324	0	0	245	0	245	331	270	0	1	602	1171
04:45 PM	0	0	0	0	0	5	363	0	0	368	0	0	272	0	272	312	250	0	0	562	1202
Total	0	0	0	0	0	5	1340	0	0	1345	0	0	1023	0	1023	1371	974	0	7	2352	4720
05:00 PM	0	0	0	0	0	0	418	0	0	418	0	0	179	0	179	181	370	0	0	551	1148
05:15 PM	0	0	0	0	0	0	438	0	0	438	0	0	214	0	214	193	328	0	0	521	1173
05:30 PM	0	0	0	0	0	4	394	0	0	398	0	0	183	0	183	170	314	0	0	484	1065
05:45 PM	0	0	0	0	0	0	354	0	0	354	0	0	219	0	219	298	306	0	0	604	1177
Total	0	0	0	0	0	4	1604	0	0	1608	0	0	795	0	795	842	1318	0	0	2160	4563
Grand Total	0	0	0	0	0	9	2944	0	0	2953	0	0	1818	0	1818	2213	2292	0	7	4512	9283
Apprch %	0.0	0.0	0.0	0.0		0.3	99.7	0.0	0.0		0.0	0.0	100.0	0.0		49.0	50.8	0.0	0.2		
Total %	0.0	0.0	0.0	0.0	0.0	0.1	31.7	0.0	0.0	31.8	0.0	0.0	19.6	0.0	19.6	23.8	24.7	0.0	0.1	48.6	

BREE & Associates, Inc
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Durham, NC 27702

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File Name : GL74E7~1

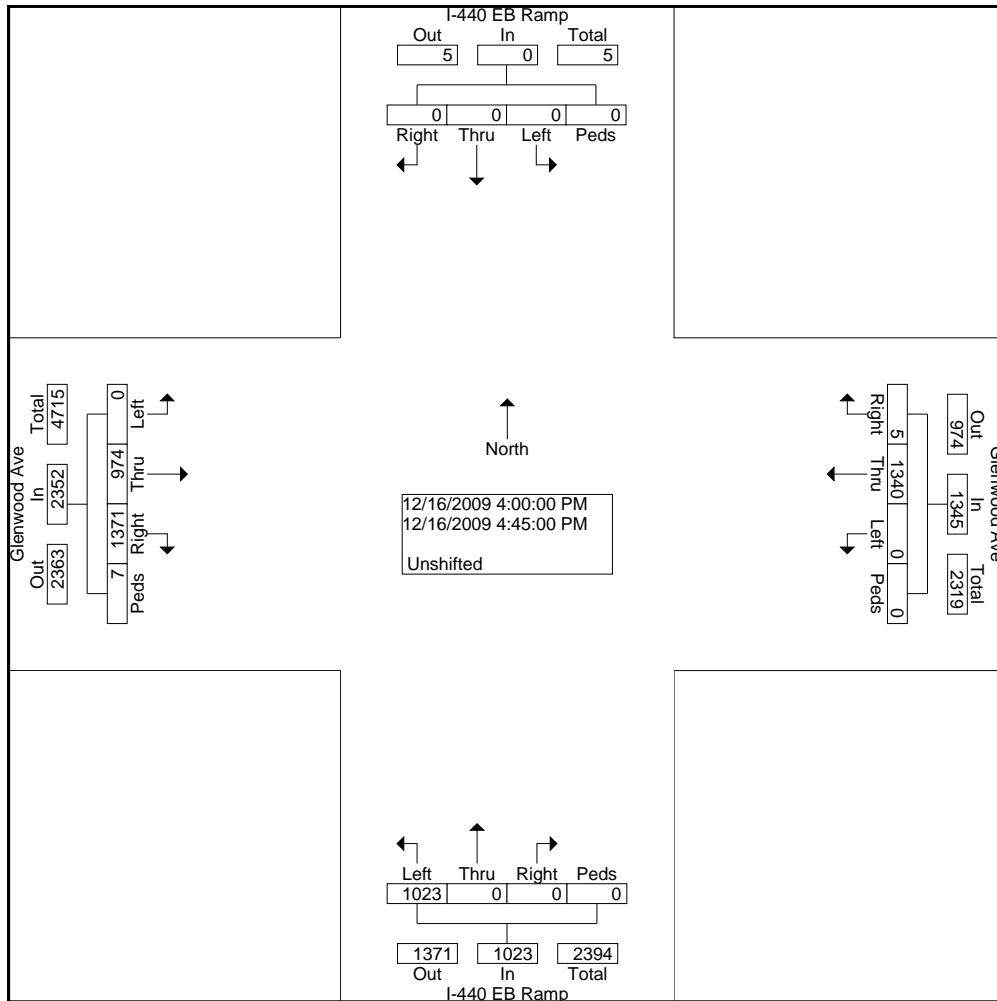
Site Code : 00000004

Start Date : 12/16/2009

Page No : 2

Counter: J McCoy
Weather: Clear

Start Time	I-440 EB Ramp From North					Glenwood Ave From East					I-440 EB Ramp From South					Glenwood Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	04:00 PM																				
Volume	0	0	0	0	0	5	1340	0	0	1345	0	0	1023	0	1023	1371	974	0	7	2352	4720
Percent	0.0	0.0	0.0	0.0		0.4	99.6	0.0	0.0		0.0	0.0	100.0	0.0		58.3	41.4	0.0	0.3		
04:45 Volume	0	0	0	0	0	5	363	0	0	368	0	0	272	0	272	312	250	0	0	562	1202
Peak Factor																					
High Int. Volume	3:45:00 PM					04:45 PM					04:15 PM					04:00 PM					
Peak Factor						0.914					0.885					0.958					



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Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: J Dawkins
Weather: Clear

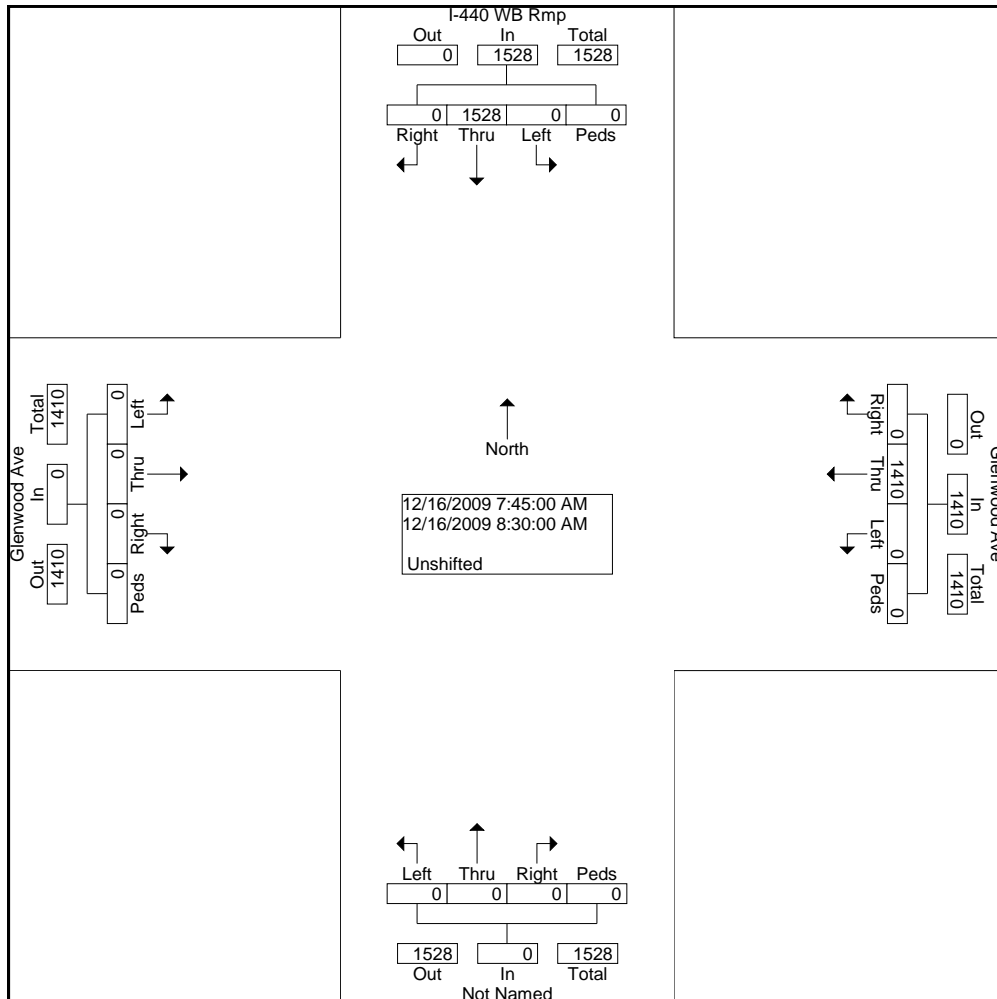
File Name : GLENWO~1

Site Code : 00000003

Start Date : 12/16/2009

Page No : 2

Start Time	I-440 WB Rmp From North					Glenwood Ave From East					From South					Glenwood Ave From West					Int. Total
	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	
Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Intersection	07:45 AM																				
Volume	0	1528	0	0	1528	0	1410	0	0	1410	0	0	0	0	0	0	0	0	0	0	2938
Percent	0.0	100.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
08:30 Volume	0	377	0	0	377	0	385	0	0	385	0	0	0	0	0	0	0	0	0	0	762
Peak Factor						0.934															0.964
High Int. Volume	07:45 AM					08:30 AM					6:45:00 AM					6:45:00 AM					
Peak Factor																					



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PO Box 675

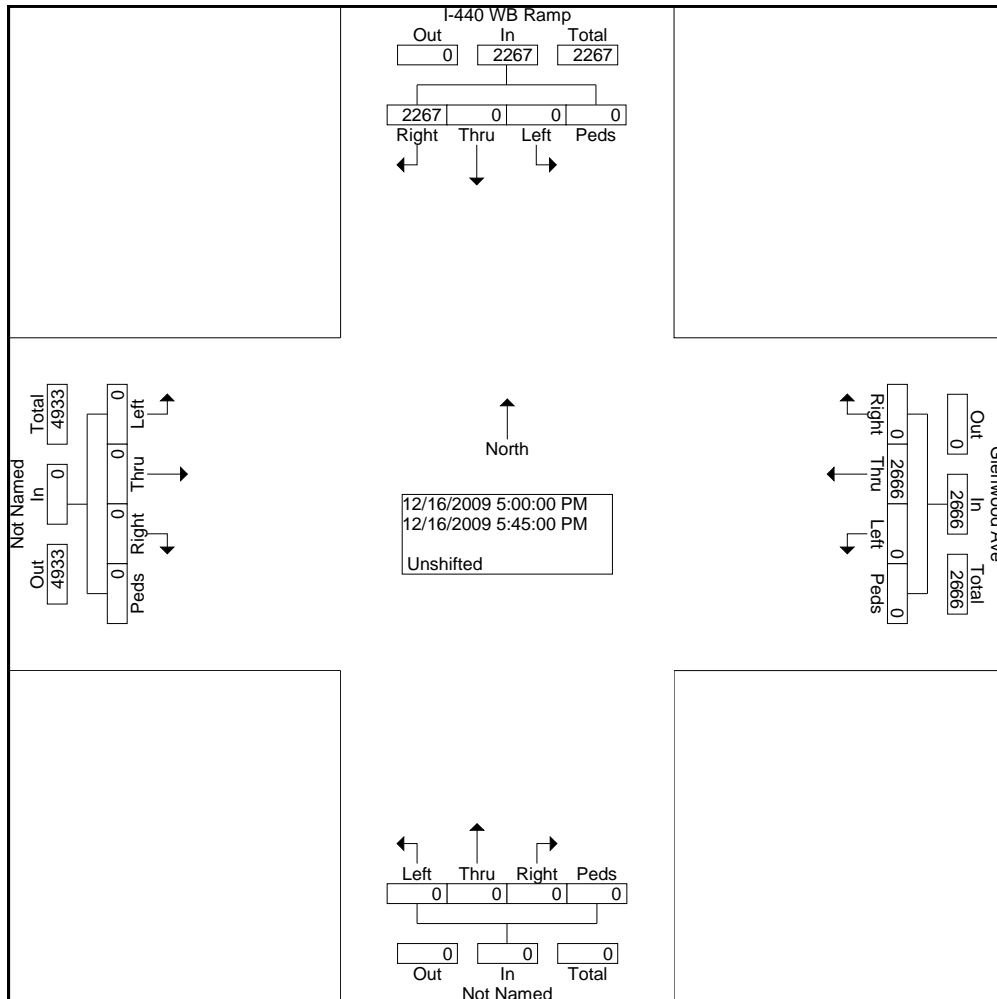
Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: J Dawkins
Weather: clear

File Name : GL3300~1
Site Code : 00000003
Start Date : 12/16/2009
Page No : 2

Start Time	I-440 WB Ramp From North					Glenwood Ave From East					From South					From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	05:00 PM																				
Volume	2267	0	0	0	2267	0	2666	0	0	2666	0	0	0	0	0	0	0	0	0	0	4933
Percent	100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
05:30 Volume	608	0	0	0	608	0	708	0	0	708	0	0	0	0	0	0	0	0	0	0	1316
Peak Factor																					0.937
High Int. Volume	05:00 PM					05:45 PM					3:45:00 PM					3:45:00 PM					
Peak Factor	617					0					0					0					
	0.919										0.930										



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TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: J. McCoy
 Weather: Cloudy

File Name : LEADMI~1
 Site Code : 00000007
 Start Date : 12/17/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Lead Mine Rd From North					North Hills Drive From East					Lead Mine Rd From South					Driveway From West					Int. Total
	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	
07:00 AM	0	295	2	0	297	3	1	51	0	55	19	70	1	0	90	7	0	0	0	7	449
07:15 AM	0	358	4	0	362	3	0	46	0	49	17	123	1	0	141	5	1	0	0	6	558
07:30 AM	0	420	13	0	433	2	0	86	1	89	28	118	0	4	150	3	1	0	0	4	676
07:45 AM	0	399	5	1	405	4	1	106	0	111	31	156	0	0	187	3	0	1	0	4	707
Total	0	1472	24	1	1497	12	2	289	1	304	95	467	2	4	568	18	2	1	0	21	2390
08:00 AM	0	373	7	0	380	3	1	98	1	103	31	150	2	0	183	4	0	0	0	4	670
08:15 AM	2	338	11	0	351	6	0	87	0	93	28	156	1	0	185	5	0	2	1	8	637
08:30 AM	0	346	12	0	358	7	2	84	0	93	25	140	3	1	169	4	0	2	0	6	626
08:45 AM	1	319	12	0	332	3	0	69	0	72	26	143	1	0	170	8	0	2	0	10	584
Total	3	1376	42	0	1421	19	3	338	1	361	110	589	7	1	707	21	0	6	1	28	2517
Grand Total	3	2848	66	1	2918	31	5	627	2	665	205	1056	9	5	1275	39	2	7	1	49	4907
Apprch %	0.1	97.6	2.3	0.0		4.7	0.8	94.3	0.3		16.1	82.8	0.7	0.4		79.6	4.1	14.3	2.0		
Total %	0.1	58.0	1.3	0.0	59.5	0.6	0.1	12.8	0.0	13.6	4.2	21.5	0.2	0.1	26.0	0.8	0.0	0.1	0.0	1.0	

BREE & Associates, Inc
 PO Box 675

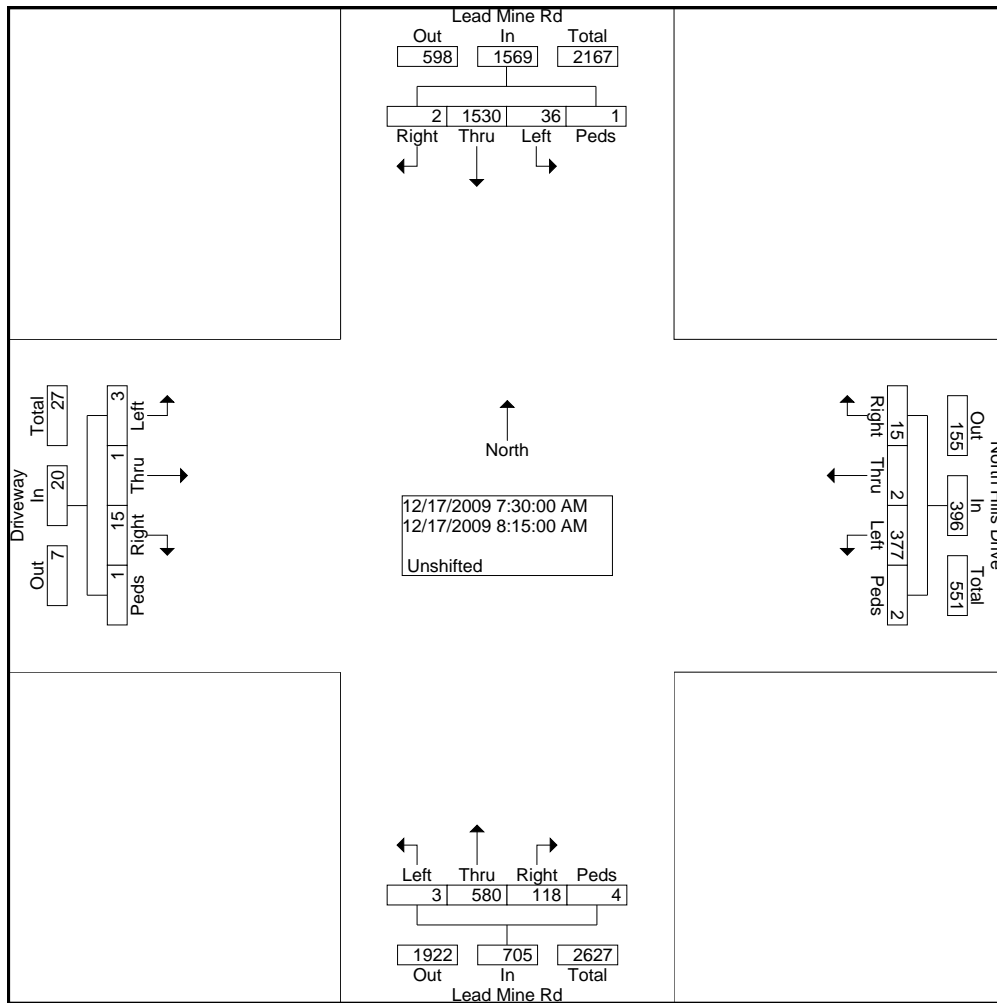
Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: J. McCoy
 Weather: Cloudy

File Name : LEADMI~1
 Site Code : 0000007
 Start Date : 12/17/2009
 Page No : 2

Start Time	Lead Mine Rd From North					North Hills Drive From East					Lead Mine Rd From South					Driveway From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Intersection	07:30 AM																				
Volume	2	1530	36	1	1569	15	2	377	2	396	118	580	3	4	705	15	1	3	1	20	2690
Percent	0.1	97.5	2.3	0.1		3.8	0.5	95.2	0.5		16.7	82.3	0.4	0.6		75.0	5.0	15.0	5.0		
07:45 Volume	0	399	5	1	405	4	1	106	0	111	31	156	0	0	187	3	0	1	0	4	707
Peak Factor	0.951																				
High Int.	07:30 AM					07:45 AM					07:45 AM					08:15 AM					
Volume	0	420	13	0	433	4	1	106	0	111	31	156	0	0	187	5	0	2	1	8	
Peak Factor	0.906					0.892					0.943					0.625					



BREE & Associates, Inc
 PO Box 675

Counter: J McCoy
 Weather: Lite Rain

Durham, NC 27702
 TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : LEADMI~2
 Site Code : 00000007
 Start Date : 12/17/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Leadmine Rd From North					North Hills Drive From East					Lead Mine Rd From South					Driveway From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
04:00 PM	0	191	3	2	196	8	0	58	0	66	54	281	3	1	339	11	1	1	0	13	614
04:15 PM	0	169	8	0	177	6	0	43	0	49	73	268	5	0	346	10	1	2	0	13	585
04:30 PM	0	201	9	0	210	8	2	58	0	68	83	279	4	1	367	9	0	3	2	14	659
04:45 PM	1	227	11	0	239	5	0	41	2	48	86	269	6	1	362	6	0	7	1	14	663
Total	1	788	31	2	822	27	2	200	2	231	296	1097	18	3	1414	36	2	13	3	54	2521
05:00 PM	0	272	8	0	280	9	0	61	0	70	121	316	7	1	445	9	1	8	0	18	813
05:15 PM	0	231	12	0	243	11	0	45	0	56	83	315	6	1	405	6	0	3	0	9	713
05:30 PM	0	201	10	0	211	8	0	62	0	70	74	322	8	0	404	2	0	0	0	2	687
05:45 PM	0	253	5	0	258	8	0	48	0	56	76	288	7	0	371	4	1	1	0	6	691
Total	0	957	35	0	992	36	0	216	0	252	354	1241	28	2	1625	21	2	12	0	35	2904
Grand Total	1	1745	66	2	1814	63	2	416	2	483	650	2338	46	5	3039	57	4	25	3	89	5425
Apprch %	0.1	96.2	3.6	0.1		13.0	0.4	86.1	0.4		21.4	76.9	1.5	0.2		64.0	4.5	28.1	3.4		
Total %	0.0	32.2	1.2	0.0	33.4	1.2	0.0	7.7	0.0	8.9	12.0	43.1	0.8	0.1	56.0	1.1	0.1	0.5	0.1	1.6	

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TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : LEADMI~2

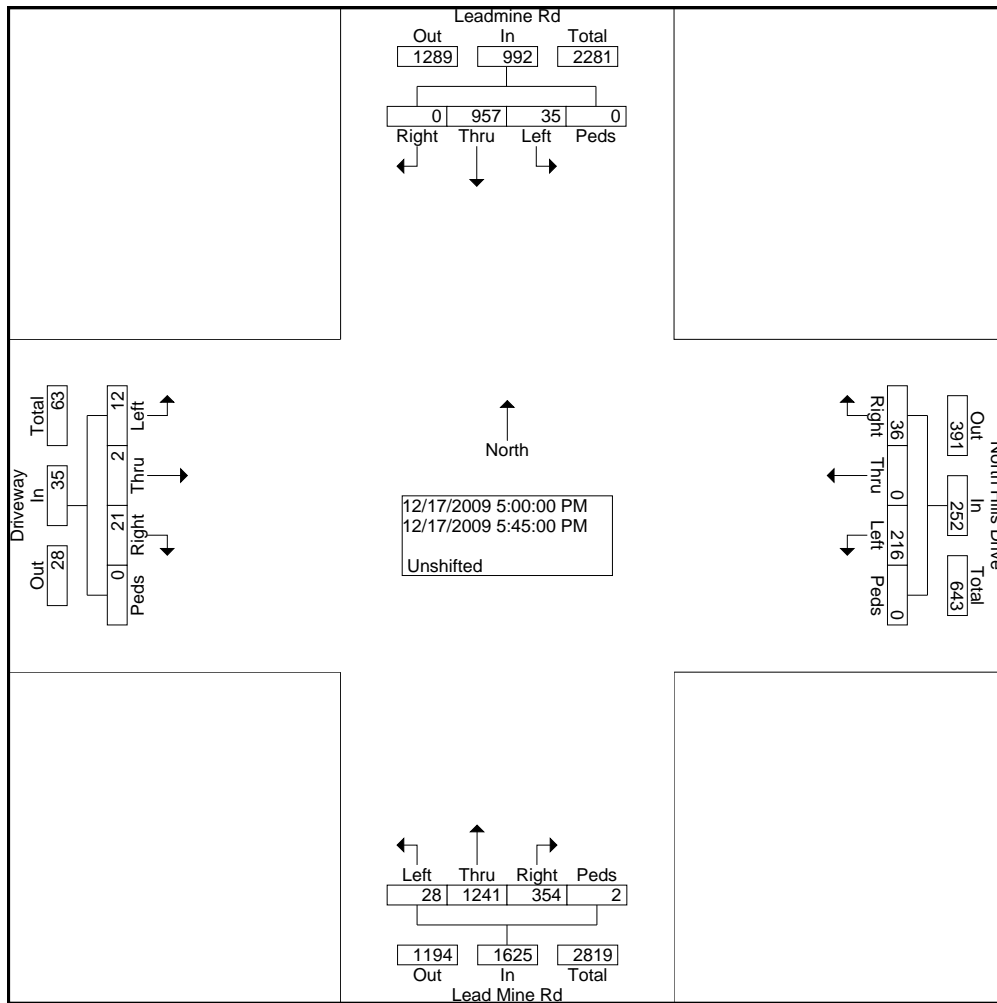
Site Code : 0000007

Start Date : 12/17/2009

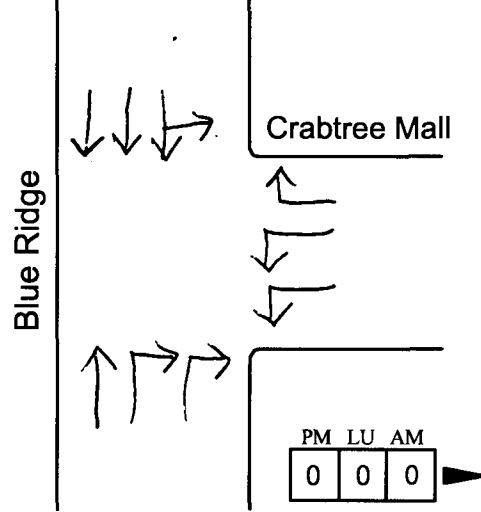
Page No : 2

Counter: J McCoy
Weather: Lite Rain

Start Time	Leadmine Rd From North					North Hills Drive From East					Lead Mine Rd From South					Driveway From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	05:00 PM																				
Volume	0	957	35	0	992	36	0	216	0	252	354	124	28	2	1625	21	2	12	0	35	2904
Percent	0.0	96.5	3.5	0.0		14.3	0.0	85.7	0.0		21.8	76.4	1.7	0.1		60.0	5.7	34.3	0.0		
Volume	0	272	8	0	280	9	0	61	0	70	121	316	7	1	445	9	1	8	0	18	813
Peak Factor	0.886					0.900					0.913					0.486					0.893
High Int.	05:00 PM																				
Volume	0	272	8	0	280	9	0	61	0	70	121	316	7	1	445	9	1	8	0	18	
Peak Factor	0.886					0.900					0.913					0.486					



Intersection Description



Intersection Blue Ridge/Crabtree Mall

Date Count Completed 6-5-09 (LU), 6-19-09 (AM), 7-7-09 (PM)

Peak Periods for Intersection

AM	8:00	to	9:00
LU	11:30	to	12:30
PM	4:45	to	5:45

Weather Conditions

AM	Clear
LU	Clear
PM	Clear

PM	468	
	.917	.083
	429	39
LU	314	
	.723	.277
	227	87
AM	173	
	.896	.098
	155	17

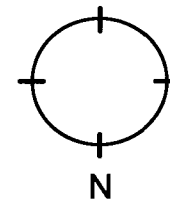
AM	LU	PM	0
0	0	0	1
0	0	0	0

.314	AM	.146	LU	.19	PM
33		78		88	
	105		534		464
.686		.852		.81	
72		455		376	

PM	LU	AM
0	0	0

AM	551	228
	.707	.293
	779	
LU	1378	
	.221	.779
	304	1074
PM	918	
	.393	.607
	361	557

AM	LU	PM	0
0	0	0	0
0	0	0	0



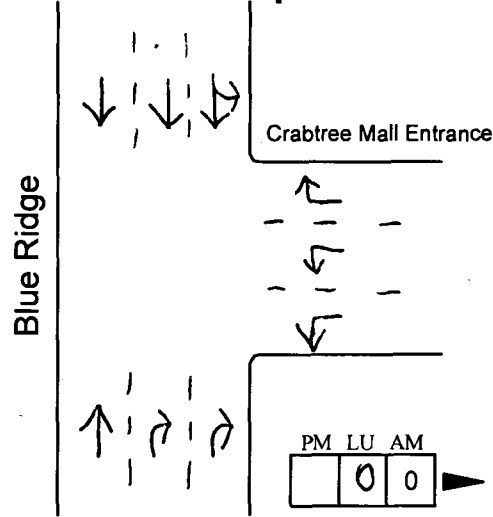
Counter(s)

Lauren (AM)
Matt (LU)
Nate (PM)



**City of Raleigh
Public Works**

Intersection Description



Intersection Blue Ridge Crabtree Mall Entrance

Date Count Completed AM, LU: 7/24/08 PM: 7/23/08

Peak Periods for Intersection

AM	7:45	to	8:45
LU	12:15	to	1:15
PM	5:00	to	6:00

Weather Conditions

AM	Clear
LU	Clear
PM	Raining

PM	487	
	.889	.111
	433	54
LU	305	
	.852	.148
	260	45
AM	235	
	.915	.085
	215	20

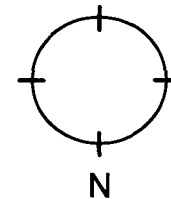
		PM
AM	LU	PM
1	1	0
		AM

.438	AM	.192	LU	.200	PM
39		87		92	
	89		452		460
.551		.805		.800	
49		364		368	

	PM	LU	AM
	0	0	

AM	.740	.258
	602	210
	814	
LU	.380	.618
	358	582
	941	
PM	.434	.566
	395	515
	910	

	AM	LU	PM
0	0		2
			1
			PM



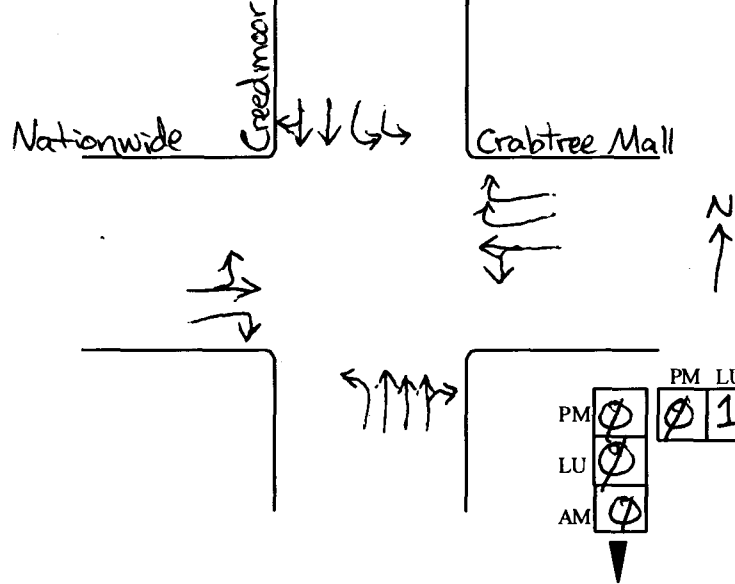
Counter(s) AM, LU: Andrew

PM: Samantha



**City of Raleigh
Public Works**

Intersection Description



Intersection Crabtree Mall - Creedmoor - Nationwide
Date Count Completed 6/2/08 (PM); 6/3/08 (AM); 6/5/08 (LU)

PM	949	
LU	927	
AM	1379	

Peak Periods for Intersection

AM	7:30	to	8:30
LU	12:30	to	1:30
PM	5:00	to	6:00

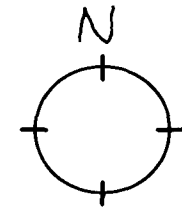
Weather Conditions

AM	Clear
LU	Clear
PM	Clear

PM	11	LU	13	AM	1	AM	2	LU	4	PM	1
11	11	13	13	1	1	2	43	4	353	1	286

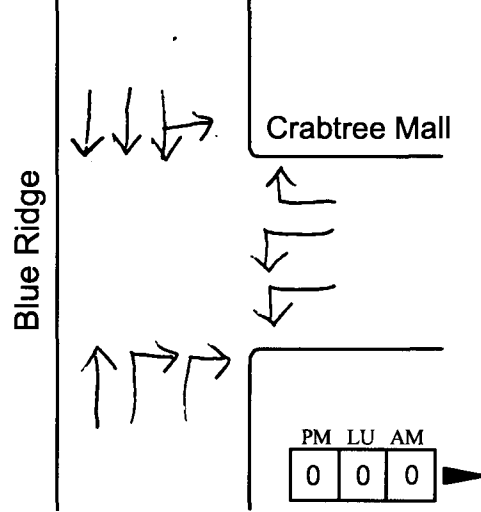
AM	20	LU	17	AM	2
20	606	17	732	2	1198

Counter(s) Nate



**City of Raleigh
Public Works**

Intersection Description



Intersection Blue Ridge/Crabtree Mall

Date Count Completed 6-5-09 (LU), 6-19-09 (AM), 7-7-09 (PM)

Peak Periods for Intersection

AM	8:00	to	9:00
LU	11:30	to	12:30
PM	4:45	to	5:45

Weather Conditions

AM	Clear
LU	Clear
PM	Clear

PM	468	
	.917	.083
	429	39
LU	314	
	.723	.277
	227	87
AM	173	
	.896	.098
	155	17

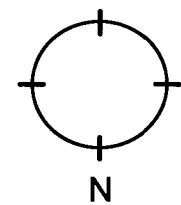
	0	PM
AM LU PM	1	LU
	0	AM

.314	AM	.146	LU	.19	PM
33		78		88	
	105		534		464
.686		.852		.81	
72		455		376	

0	0	0
PM	LU	AM

AM	551	228
	.707	.293
	779	
LU	1378	
	.221	.779
	304	1074
PM	918	
	.393	.607
	361	557

	0	AM
AM LU PM	0	LU
	0	PM



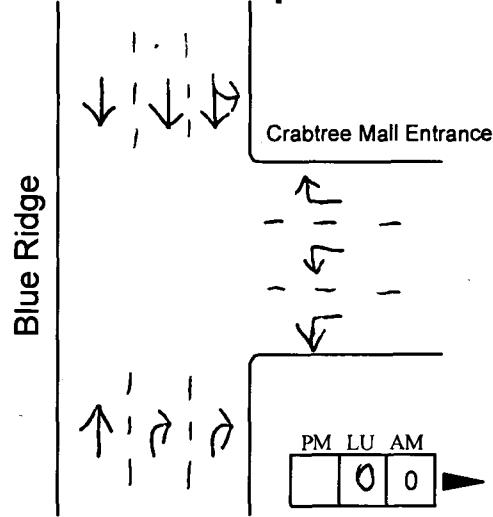
Counter(s)

Lauren (AM)
Matt (LU)
Nate (PM)



**City of Raleigh
Public Works**

Intersection Description



Intersection Blue Ridge Crabtree Mall Entrance

Date Count Completed AM, LU: 7/24/08 PM: 7/23/08

Peak Periods for Intersection

AM	7:45	to	8:45
LU	12:15	to	1:15
PM	5:00	to	6:00

Weather Conditions

AM	Clear
LU	Clear
PM	Raining

PM	487	
	.889	.111
	433	54
LU	305	
	.852	.148
	260	45
AM	235	
	.915	.085
	215	20

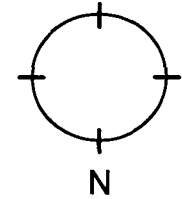
AM	LU	PM		PM
1	1		0	0
				AM

	.438	AM	.192	LU	.200	PM
	39		87		92	
		89		452		460
	.551		.805		.800	
	49		364		368	

PM	LU	AM
0	0	

AM	.740	.258
	602	210
	814	
LU	.380	.618
	358	582
	941	
PM	.434	.566
	395	515
	910	

AM	LU	PM		AM
0	0		2	2
			1	1
				PM



Counter(s) AM, LU: Andrew

PM: Samantha



**City of Raleigh
Public Works**

BREE & Associates, Inc
 PO Box 675

Durham, NC 27702

Counter: D Williams
 Weather: clear

TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : BLUERI~1
 Site Code : 00000005
 Start Date : 12/16/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Blue Ridge Rd From North					Driveway From East					Blue Ridge Rd From South					Crabtree Valley Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
04:00 PM	30	49	9	1	89	9	1	2	0	12	0	95	7	0	102	14	3	75	0	92	295
04:15 PM	24	68	8	0	100	4	2	3	0	9	1	80	10	0	91	5	10	92	1	108	308
04:30 PM	24	70	3	2	99	7	2	1	0	10	2	92	10	0	104	9	4	73	0	86	299
04:45 PM	32	73	4	0	109	6	1	1	0	8	1	99	15	0	115	13	4	73	0	90	322
Total	110	260	24	3	397	26	6	7	0	39	4	366	42	0	412	41	21	313	1	376	1224
05:00 PM	28	80	5	1	114	4	1	0	0	5	1	91	17	0	109	10	6	82	2	100	328
05:15 PM	22	91	8	2	123	11	0	1	0	12	1	66	10	0	77	39	11	31	0	81	293
05:30 PM	20	75	12	1	108	15	3	2	0	20	1	103	30	0	134	32	12	25	0	69	331
05:45 PM	23	83	9	3	118	13	5	0	0	18	3	94	32	0	129	33	12	27	3	75	340
Total	93	329	34	7	463	43	9	3	0	55	6	354	89	0	449	114	41	165	5	325	1292
Grand Total	203	589	58	10	860	69	15	10	0	94	10	720	131	0	861	155	62	478	6	701	2516
Apprch %	23.6	68.5	6.7	1.2		73.4	16.0	10.6	0.0		1.2	83.6	15.2	0.0		22.1	8.8	68.2	0.9		
Total %	8.1	23.4	2.3	0.4	34.2	2.7	0.6	0.4	0.0	3.7	0.4	28.6	5.2	0.0	34.2	6.2	2.5	19.0	0.2	27.9	

BREE & Associates, Inc
 PO Box 675

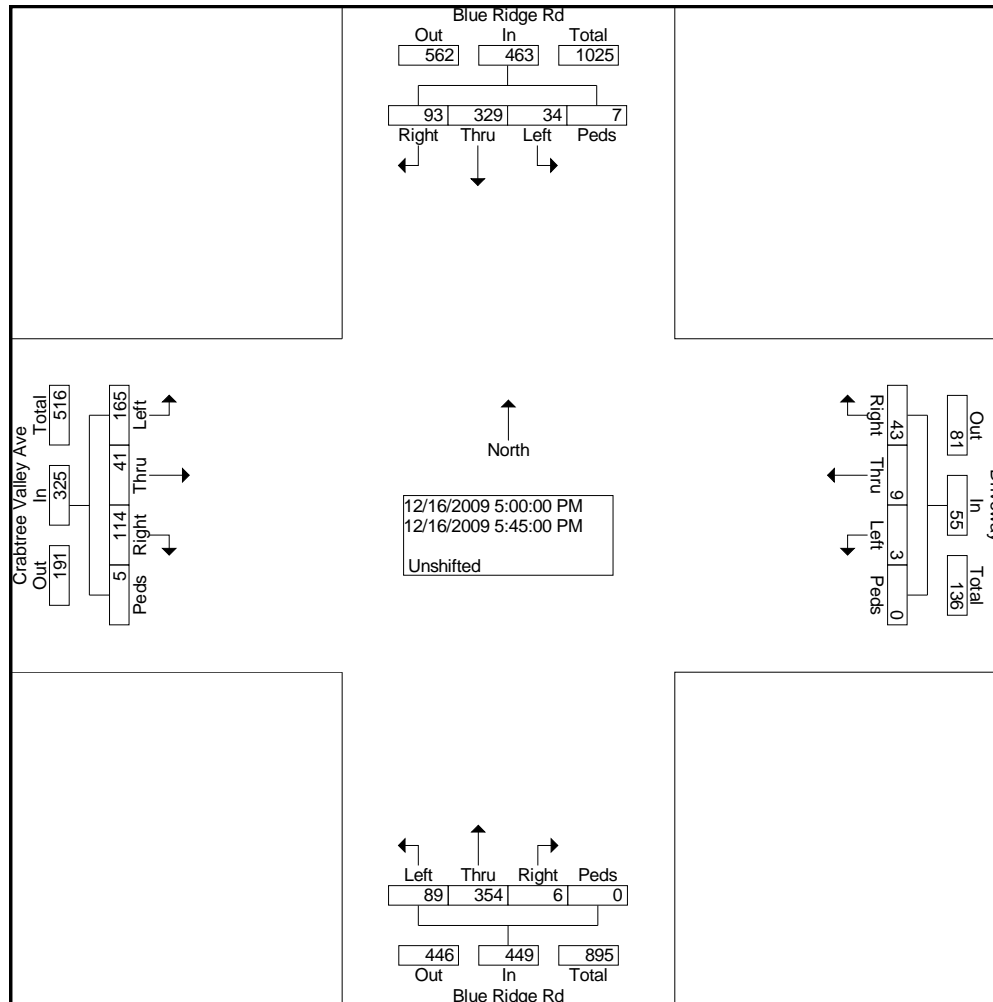
Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

Counter: D Williams
 Weather: clear

File Name : BLUERI~1
 Site Code : 00000005
 Start Date : 12/16/2009
 Page No : 2

Start Time	Blue Ridge Rd From North					Driveway From East					Blue Ridge Rd From South					Crabtree Valley Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	05:00 PM																				
Volume	93	329	34	7	463	43	9	3	0	55	6	354	89	0	449	114	41	165	5	325	1292
Percent	20.1	71.1	7.3	1.5		78.2	16.4	5.5	0.0		1.3	78.8	19.8	0.0		35.1	12.6	50.8	1.5		
05:45 Volume	23	83	9	3	118	13	5	0	0	18	3	94	32	0	129	33	12	27	3	75	340
Peak Factor	0.950																				
High Int. Volume	05:15 PM					05:30 PM					05:30 PM					05:00 PM					
Peak Factor	22	91	8	2	123	15	3	2	0	20	1	103	30	0	134	10	6	82	2	100	0.813
	0.941					0.688					0.838										



BREE & Associates, Inc
 PO Box 675

Durham, NC 27702

Counter: D. Williams
 Weather: Clear

TEL: (919) 806-2255 FAX: (919) 806-2425

File Name : BLUER1~2
 Site Code : 00000005
 Start Date : 12/16/2009
 Page No : 1

Groups Printed- Unshifted

Start Time	Blue Ridge Road From North					Driveway From East					Blue Ridge Rd From South					Crabtree Valley Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
07:00 AM	14	62	5	0	81	7	2	1	0	10	3	23	6	0	32	3	4	39	0	46	169
07:15 AM	30	83	3	0	116	10	7	3	1	21	0	23	5	0	28	5	0	34	1	40	205
07:30 AM	20	92	3	0	115	21	2	2	0	25	1	36	3	0	40	2	0	55	0	57	237
07:45 AM	37	141	6	2	186	14	2	2	0	18	1	36	11	0	48	1	1	44	0	46	298
Total	101	378	17	2	498	52	13	8	1	74	5	118	25	0	148	11	5	172	1	189	909
08:00 AM	22	116	5	1	144	14	4	2	0	20	3	22	3	0	28	3	1	36	0	40	232
08:15 AM	35	88	4	6	133	7	3	1	0	11	0	40	4	0	44	6	2	51	1	60	248
08:30 AM	19	90	3	0	112	11	5	0	0	16	4	52	9	0	65	6	3	41	1	51	244
08:45 AM	33	87	9	0	129	7	2	4	0	13	1	41	13	0	55	7	1	45	0	53	250
Total	109	381	21	7	518	39	14	7	0	60	8	155	29	0	192	22	7	173	2	204	974
Grand Total	210	759	38	9	1016	91	27	15	1	134	13	273	54	0	340	33	12	345	3	393	1883
Apprch %	20.7	74.7	3.7	0.9		67.9	20.1	11.2	0.7		3.8	80.3	15.9	0.0		8.4	3.1	87.8	0.8		
Total %	11.2	40.3	2.0	0.5	54.0	4.8	1.4	0.8	0.1	7.1	0.7	14.5	2.9	0.0	18.1	1.8	0.6	18.3	0.2	20.9	

BREE & Associates, Inc
 PO Box 675

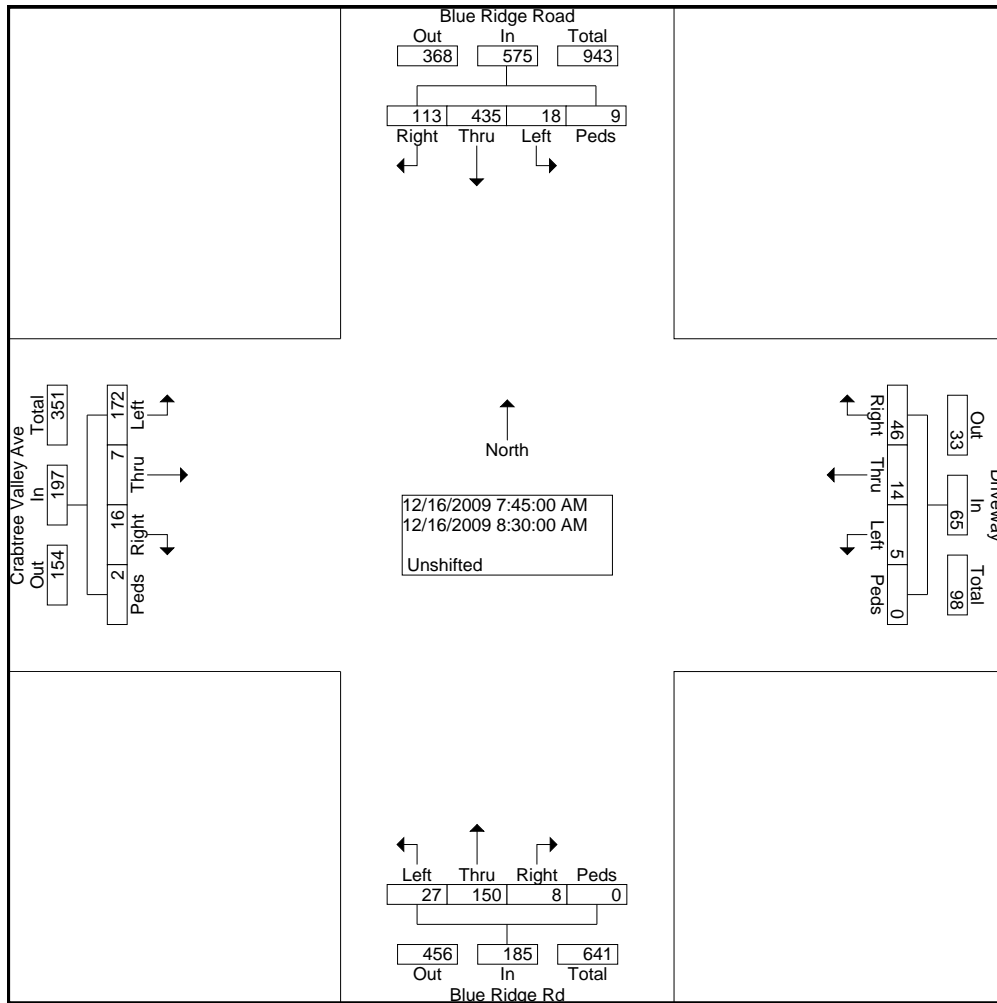
Durham, NC 27702

TEL: (919) 806-2255 FAX: (919) 806-2425

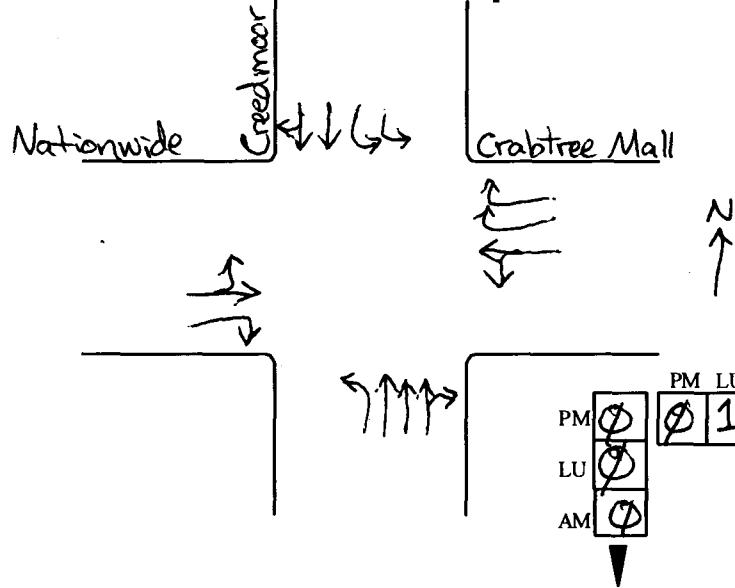
Counter: D. Williams
 Weather: Clear

File Name : BLUER1~2
 Site Code : 0000005
 Start Date : 12/16/2009
 Page No : 2

Start Time	Blue Ridge Road From North					Driveway From East					Blue Ridge Rd From South					Crabtree Valley Ave From West					Int. Total
	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	
Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Intersection	07:45 AM																				
Volume	113	435	18	9	575	46	14	5	0	65	8	150	27	0	185	16	7	172	2	197	1022
Percent	19.7	75.7	3.1	1.6		70.8	21.5	7.7	0.0		4.3	81.1	14.6	0.0		8.1	3.6	87.3	1.0		
07:45 Volume Peak Factor	37	141	6	2	186	14	2	2	0	18	1	36	11	0	48	1	1	44	0	46	298
High Int. Volume Peak Factor	07:45 AM					08:00 AM					08:30 AM					08:15 AM					0.857
	37	141	6	2	186	14	4	2	0	20	4	52	9	0	65	6	2	51	1	60	
					0.773					0.813					0.712						0.821



Intersection Description



Intersection Crabtree Mall - Creedmoor - Nationwide
Date Count Completed 6/2/08 (PM); 6/3/08 (AM); 6/5/08 (LU)

PM	949	
<small>0006</small>	<small>829</small>	<small>164</small>
	6	787 156
LU	927	
<small>0012</small>	<small>736</small>	<small>251</small>
	11	682 233
AM	1379	
<small>0007</small>	<small>966</small>	<small>408</small>
	9	1332 38

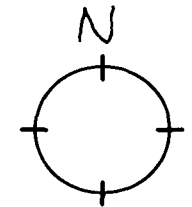
Peak Periods for Intersection
AM 7:30 to 8:30
LU 12:30 to 1:30
PM 5:00 to 6:00

Weather Conditions
AM Clear
LU Clear
PM Clear

PM	<small>1</small>	<small>11</small>	LU	<small>538</small>	<small>7</small>	AM	<small>0</small>	<small>0</small>
<small>11</small>	<small>0</small>	<small>0</small>	<small>13</small>	<small>231</small>	<small>3</small>	<small>1</small>	<small>0</small>	<small>0</small>
	<small>0</small>	<small>0</small>		<small>231</small>	<small>3</small>		<small>1</small>	<small>1</small>

<small>032</small>	<small>932</small>	<small>037</small>
<small>20</small>	<small>606</small>	<small>24</small>
AM	650	
<small>02</small>	<small>865</small>	<small>115</small>
<small>17</small>	<small>732</small>	<small>97</small>
LU	846	
<small>002</small>	<small>946</small>	<small>053</small>
<small>2</small>	<small>1198</small>	<small>67</small>
PM	1267	

Counter(s) Nate



**City of Raleigh
Public Works**

City of Raleigh
 222 W. Hargett Street
 Raleigh, NC 27602

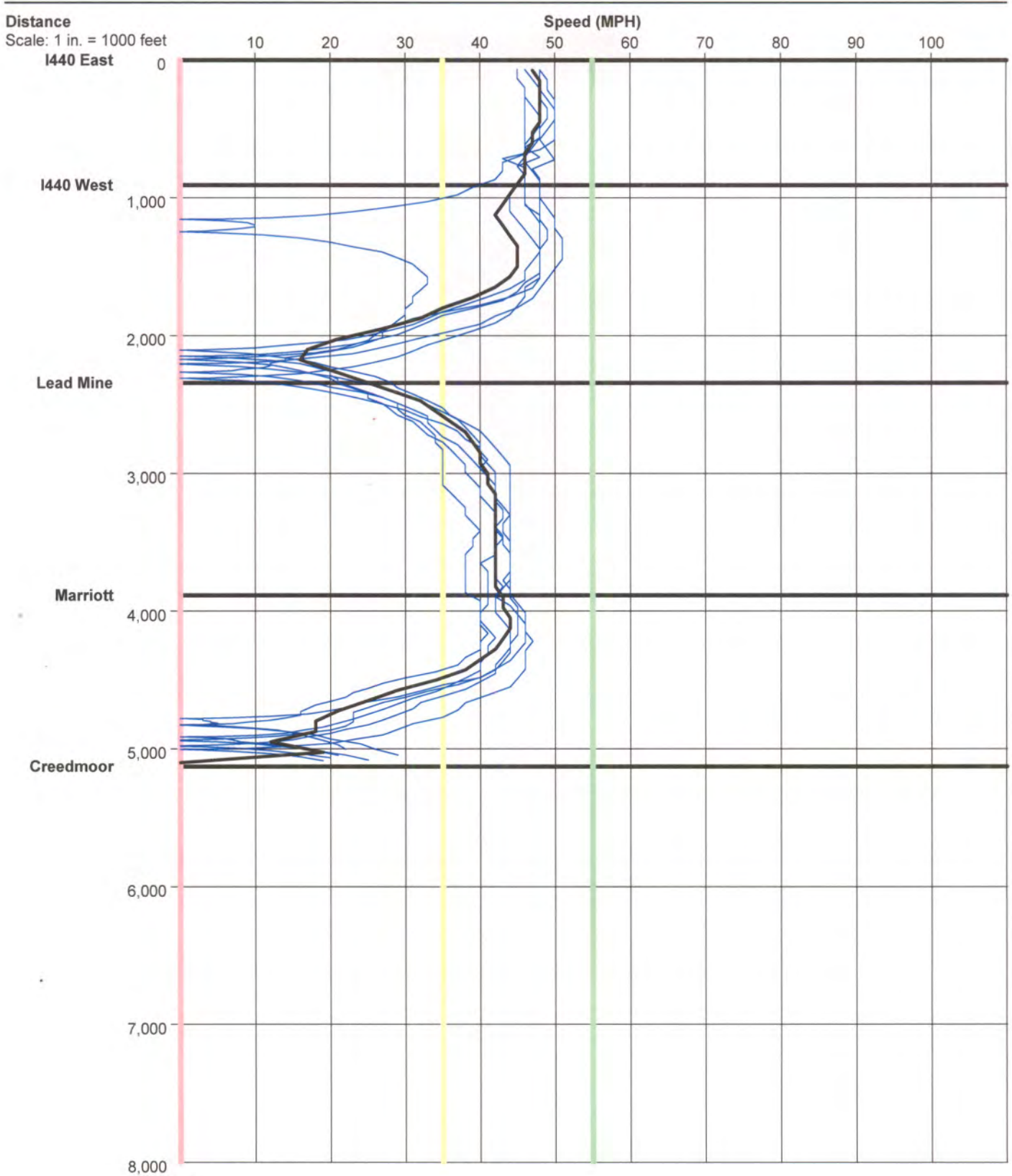
Study Name : **Glenwood I440-Creed AM WB**
 Study Date : **4/16/2010**
 Page No. : **1**

Overall Output Statistics

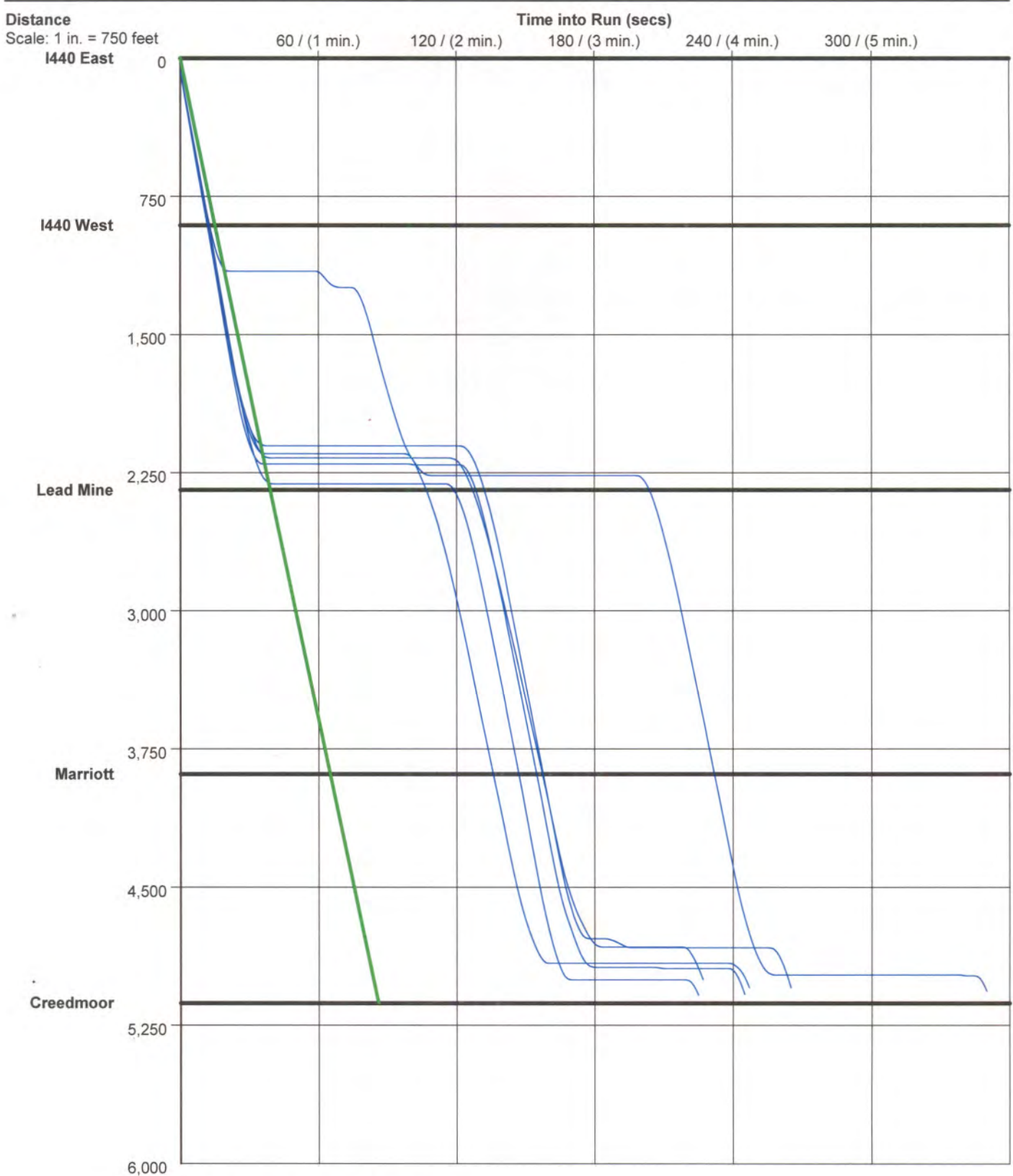
Node #	Length	Node	Travel Time	# of Stops	Avg Speed	Total Delay	Time <= 0 MPH	Time <= 35 MPH	Time <= 55 MPH
1	0	I440 East							
2	907	I440 West	13.7	0.0	45.2	0.0	0.0	0.0	13.7
3	1437	Lead Mine	124.2	1.3	7.9	99.2	85.0	112.3	124.2
4	1542	Marriott	27.8	0.0	37.8	1.5	0.0	7.3	27.8
5	1242	Creedmoor	96.2	1.0	8.8	75.7	61.0	85.0	95.2
Total	5,128		261.8	2.3	13.4	176.3	146.0	204.7	260.8

Stats based on 6 BEFORE runs.
 Stops based on a Stop Speed of 5 MPH.
 Total Delay based on a Normal Speed of 40 MPH.

Speed/Distance Profiles of All Runs



Time/Space Trajectories of All Runs



Solid Line is Normal Speed of 40 MPH

City of Raleigh
 222 W. Hargett Street
 Raleigh, NC 27602

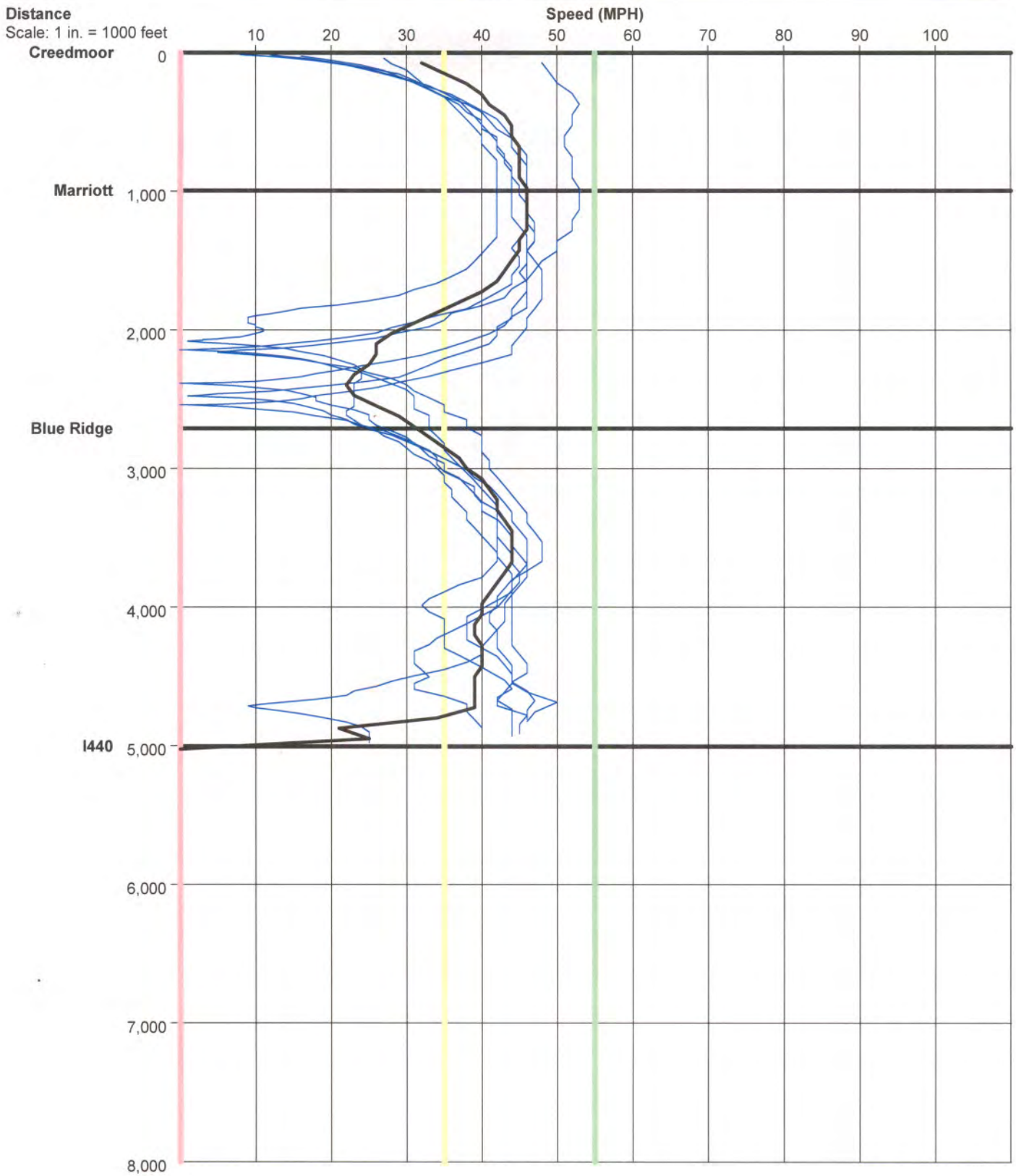
Study Name : **Glenwood I440-Creed AM EB**
 Study Date : **4/16/2010**
 Page No. : **1**

Overall Output Statistics

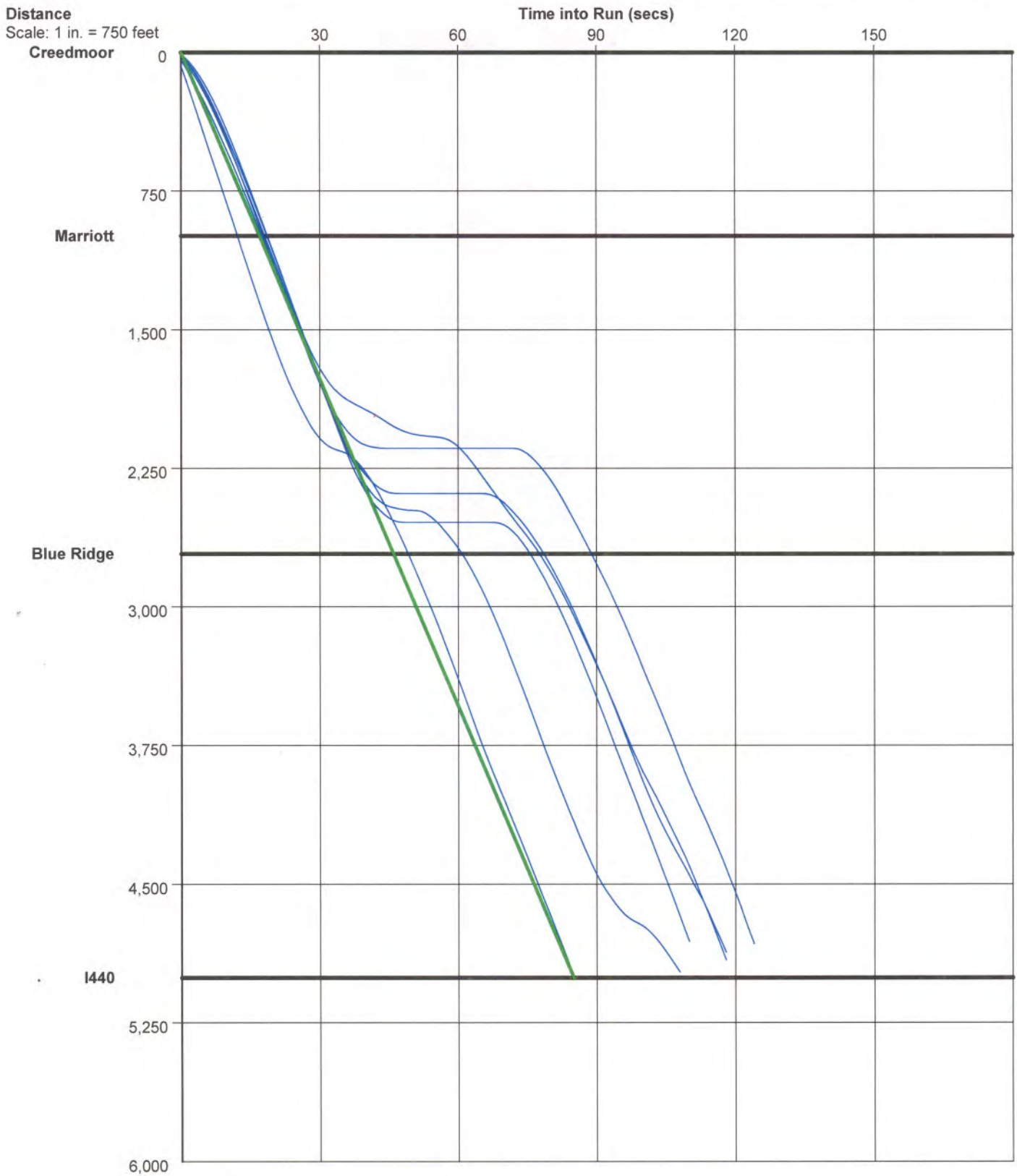
Node #	Length	Node	Travel Time	# of Stops	Avg Speed	Total Delay	Time <= 0 MPH	Time <= 35 MPH	Time <= 55 MPH
1	0	Creedmoor							
2	994	Marriott	18.7	0.0	36.3	2.0	0.0	6.2	18.7
3	1719	Blue Ridge	54.5	0.8	21.5	25.0	10.7	39.0	54.5
4	2291	I440	39.2	0.0	39.9	2.2	0.0	9.5	38.2
Total	5,004		112.3	0.8	30.4	29.2	10.7	54.7	111.3

Stats based on 6 BEFORE runs.
 Stops based on a Stop Speed of 5 MPH.
 Total Delay based on a Normal Speed of 40 MPH.

Speed/Distance Profiles of All Runs



Time/Space Trajectories of All Runs



City of Raleigh
 222 W. Hargett Street
 Raleigh, NC 27602

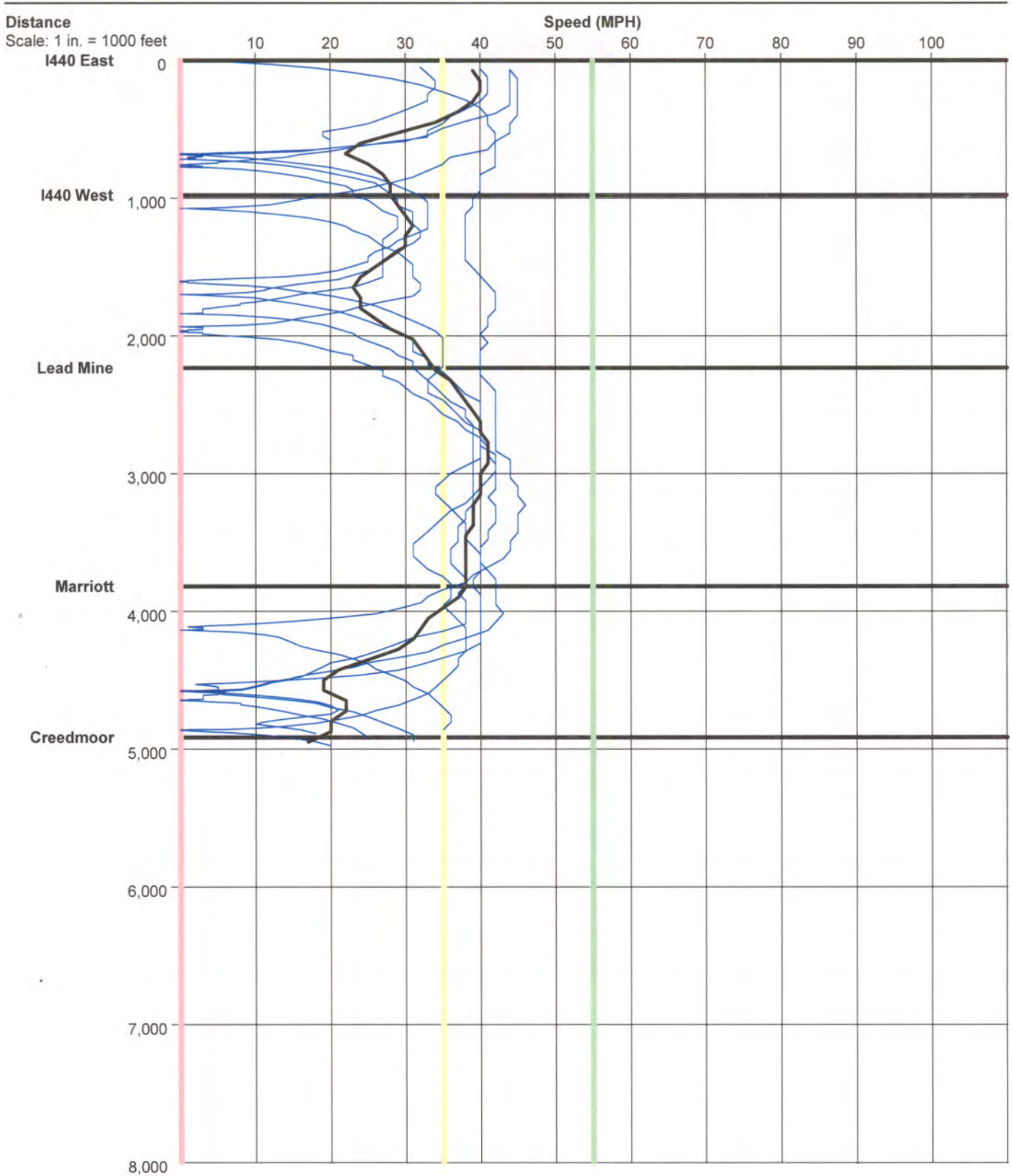
Study Name : **Glenwood 440-Creed PM WB**
 Study Date : **4/16/2010**
 Page No. : **1**

Overall Output Statistics

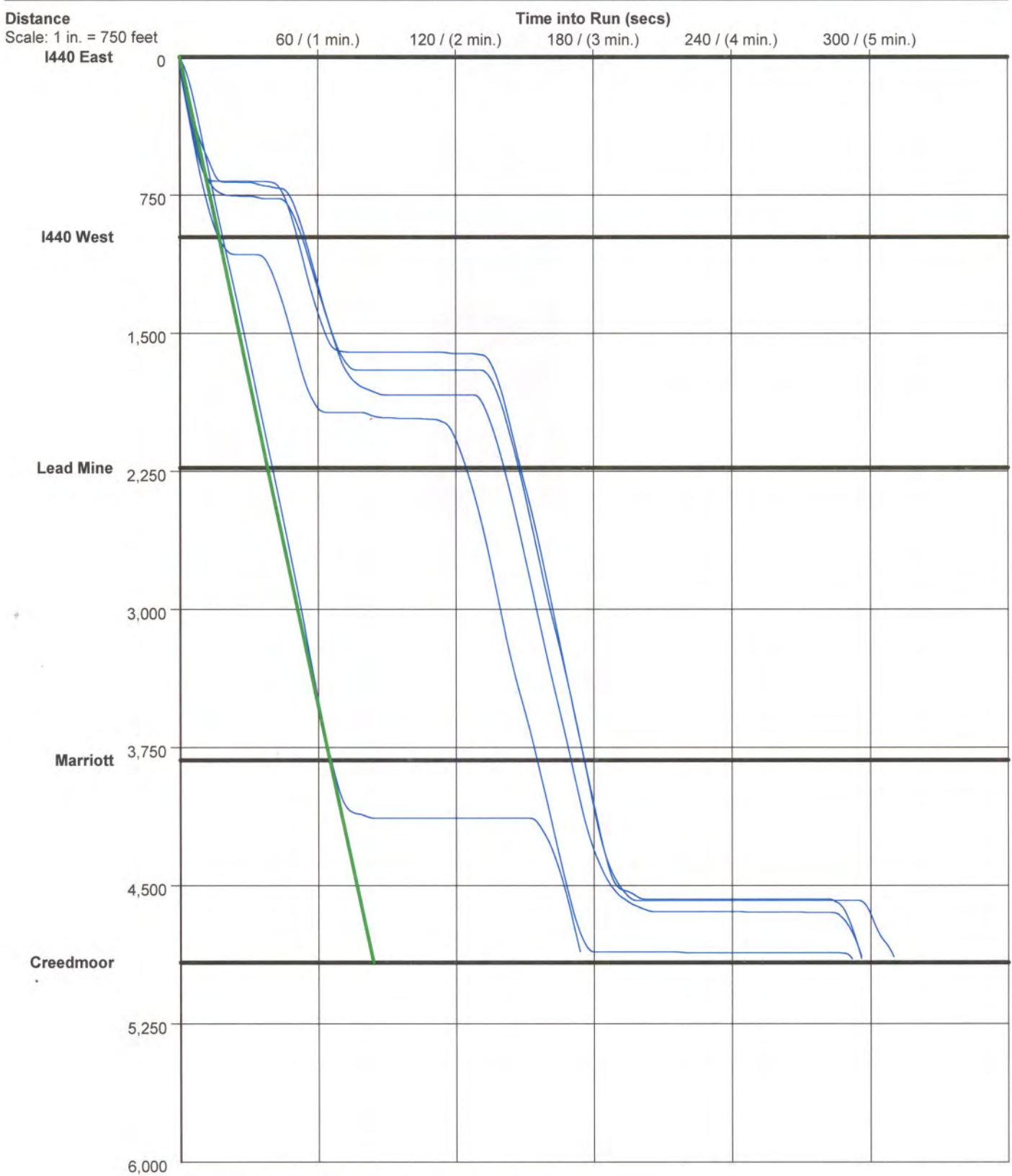
Node #	Length	Node	Travel Time	# of Stops	Avg Speed	Total Delay	Time <= 0 MPH	Time <= 35 MPH	Time <= 55 MPH
1	0	I440 East							
2	978	I440 West	40.2	0.6	16.6	23.2	8.4	32.2	40.2
3	1253	Lead Mine	81.8	1.0	10.4	59.8	35.8	77.0	81.8
4	1588	Marriott	28.0	0.0	38.7	1.0	0.0	5.0	28.0
5	1096	Creedmoor	125.6	1.2	5.9	106.8	83.2	118.4	125.2
Total	4,915		275.6	2.8	12.2	190.8	127.4	232.6	275.2

Stats based on 5 BEFORE runs.
 Stops based on a Stop Speed of 5 MPH.
 Total Delay based on a Normal Speed of 40 MPH.

Speed/Distance Profiles of All Runs



Time/Space Trajectories of All Runs



Solid Line is Normal Speed of 40 MPH

City of Raleigh
 222 W. Hargett Street
 Raleigh, NC 27602

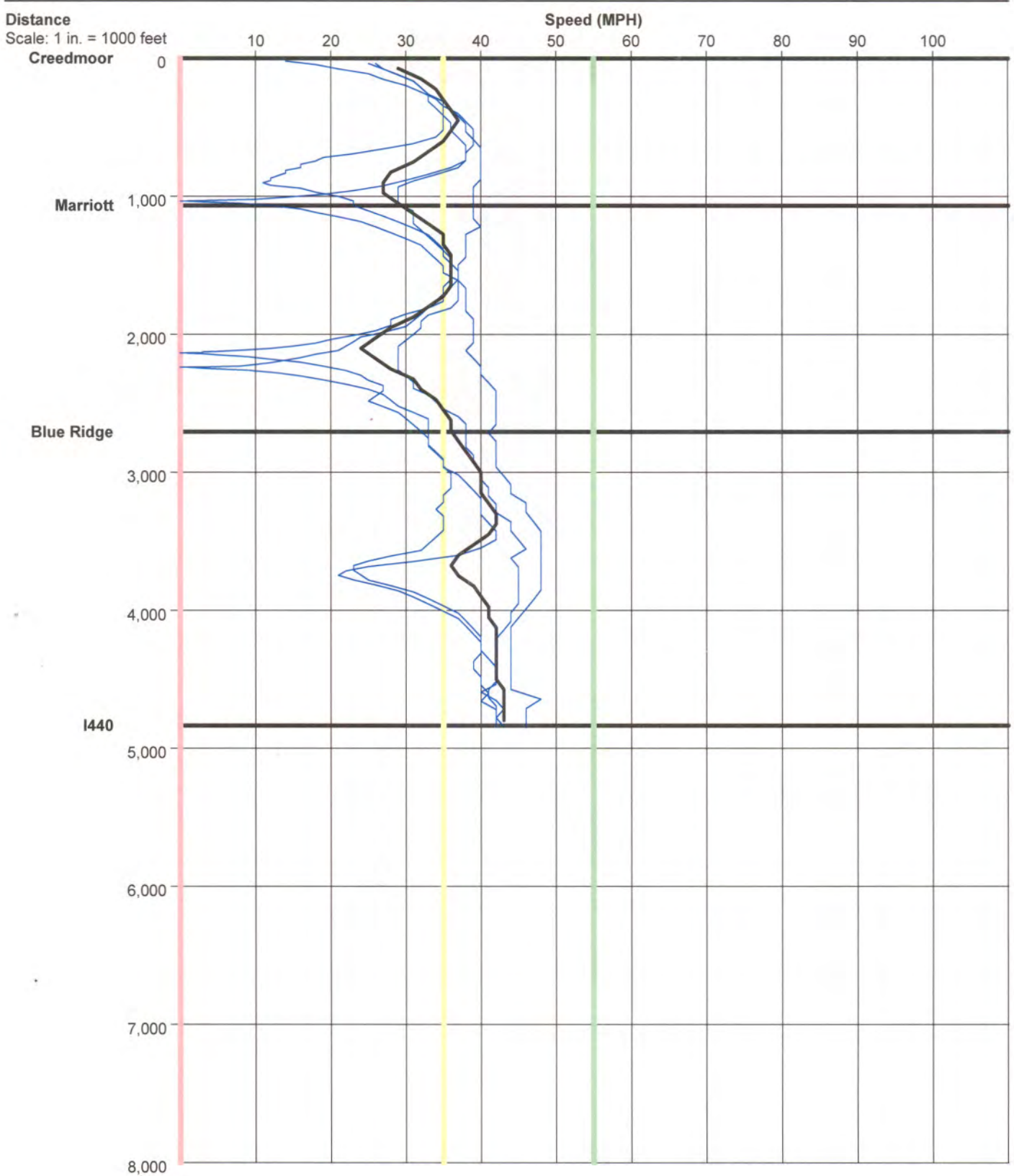
Study Name : **Glenwood 440-Creed PM EB**
 Study Date : **4/15/2010**
 Page No. : **1**

Overall Output Statistics

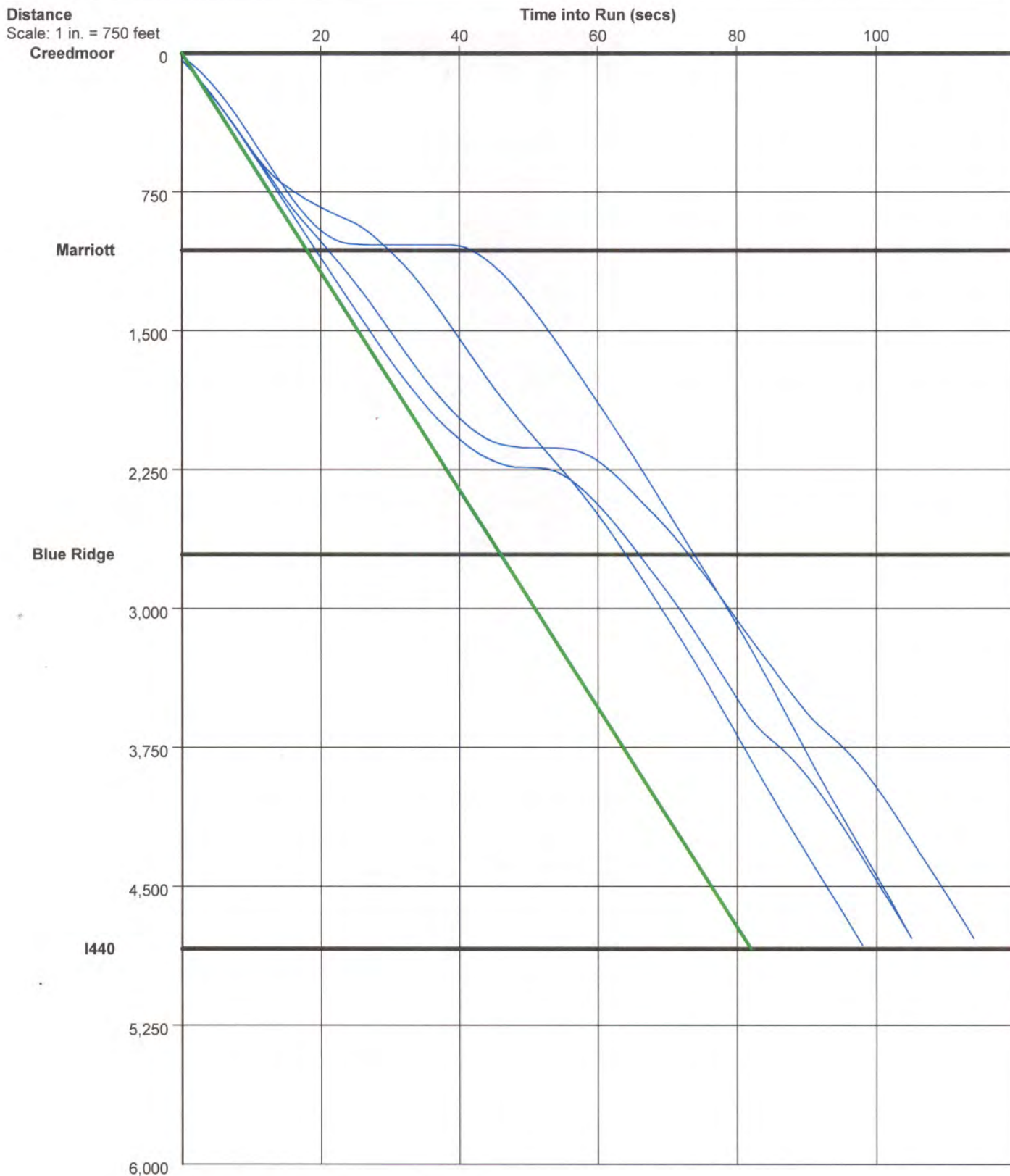
Node #	Length	Node	Travel Time	# of Stops	Avg Speed	Total Delay	Time <= 0 MPH	Time <= 35 MPH	Time <= 55 MPH
1	0	Creedmoor							
2	1065	Marriott	29.5	0.3	24.6	11.0	2.8	21.0	29.5
3	1643	Blue Ridge	41.3	0.5	27.2	12.8	1.0	28.5	41.3
4	2128	I440	36.8	0.0	39.5	2.3	0.0	8.8	36.5
Total	4,836		107.5	0.8	30.7	26.0	3.8	58.3	107.3

Stats based on 4 BEFORE runs.
 Stops based on a Stop Speed of 5 MPH.
 Total Delay based on a Normal Speed of 40 MPH.

Speed/Distance Profiles of All Runs



Time/Space Trajectories of All Runs



Solid Line is Normal Speed of 40 MPH