Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-9380-001 **Day:** Thursday

City: Holly Springs **Date:** 10/29/2015

AM

NS/EW Streets:	NC 55			NC 55			Ralph Stevens Rd_Main St			Ralph Stevens Rd_Main St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	1	2	1	1	2	0.5	0.5	
7:00 AM	19	377	67	15	93	12	26	29	3	39	18	15	713
7:15 AM	28	401	85	16	91	4	48	28	5	36	10	21	773
7:30 AM	16	372	87	21	146	13	36	34	16	62	16	19	838
7:45 AM	18	284	66	16	145	16	44	20	11	57	17	18	712
8:00 AM	12	294	66	17	132	12	30	23	13	51	13	11	674
8:15 AM	14	256	53	7	127	8	33	29	12	54	19	11	623
8:30 AM	24	270	62	9	150	16	27	28	7	65	23	12	693
8:45 AM	17	206	61	12	133	16	32	30	8	74	24	12	625
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	148	2460	547	113	1017	97	276	221	75	438	140	119	5651
APPROACH %'s :	4.69%	77.97%	17.34%	9.21%	82.89%	7.91%	48.25%	38.64%	13.11%	62.84%	20.09%	17.07%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	81	1434	305	68	475	45	154	111	35	194	61	73	3036
PEAK HR FACTOR :		0.885			0.817			0.872			0.845		0.906

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-9380-001 **Day:** Thursday

City: Holly Springs **Date:** 10/29/2015

PM

NS/EW Streets:	NC 55			NC 55			Ralph Stevens Rd_Main St			Ralph Stevens Rd_Main St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	1	2	1	1	2	0.5	0.5	
4:00 PM	20	171	53	26	299	26	28	41	22	78	38	11	813
4:15 PM	19	163	48	27	292	30	22	52	18	80	49	23	823
4:30 PM	17	164	67	26	313	23	19	50	19	82	55	13	848
4:45 PM	23	160	63	17	293	24	24	59	23	101	46	21	854
5:00 PM	22	167	63	27	353	21	36	56	23	103	55	15	941
5:15 PM	21	163	53	21	287	26	29	63	39	118	60	22	902
5:30 PM	26	183	52	19	322	36	23	62	34	99	71	16	943
5:45 PM	21	161	43	31	270	41	43	49	28	114	52	27	880
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	169	1332	442	194	2429	227	224	432	206	775	426	148	7004
APPROACH %'s :	8.70%	68.55%	22.75%	6.81%	85.23%	7.96%	25.99%	50.12%	23.90%	57.45%	31.58%	10.97%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	90	674	211	98	1232	124	131	230	124	434	238	80	3666
PEAK HR FACTOR :		0.934			0.906			0.926			0.940		0.972

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

NDS

NC 55 and Ralph Stevens Rd_Main St , Holly Springs

Date: 10/29/2015

Day: Thursday

Project #: 15-9380-001

City: Holly Springs

AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Peak Hour Summary

Southbound Approach

NC 55

Lanes	1	2	1		
AM	45	475	68	1661	AM
NOON	0	0	0	0	NOON
PM	124	1232	98	885	PM

Eastbound Approach

Ralph Stevens Rd_Main St

Lanes	AM	NOON	PM
	187	0	452
2	154	0	131
1	111	0	230
1	35	0	124

Westbound Approach

	AM	NOON	PM	Lanes
	73	0	80	0.5
	61	0	238	0.5
	194	0	434	2
	484	0	539	

CONTROL

Signalized

Northbound Approach

AM	704	81	1434	305	AM
NOON	0	0	0	0	NOON
PM	1790	90	674	211	PM
		1	2	1	Lanes

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON	NONE	NONE
PM	4:00 PM	6:00 PM

Total Ins & Outs

	North Leg		
	588	1661	AM
	0	0	NOON
	1454	885	PM

West Leg	AM	NOON	PM
	187	0	452
	300	0	485

East Leg	AM	NOON	PM
	328	0	752
	484	0	539

	South Leg	
AM	704	1820
NOON	0	0
PM	1790	975

Total Volume Per Leg

	North Leg
AM	2249
NOON	0
PM	2339

West Leg	AM	NOON	PM
	487	0	937

East Leg	AM	NOON	PM
	812	0	1291

	South Leg
AM	2524
NOON	0
PM	2765

Project ID: 15-9380-001
Location: NC 55 & Ralph Stevens Rd_Main St
City: Holly Springs

Day: Thursday
Date: 10/29/2015

Peak Start Times	
AM	7:00 AM
MD	12:00 AM
PM	4:00 PM

Groups Printed - Cars, PU, Vans - Heavy Trucks

	NC 55 Southbound					Ralph Stevens Rd_Main St Westbound					NC 55 Northbound					Ralph Stevens Rd_Main St Eastbound					
Start Time	Rgt	Thru	Left	Peds	App. Total	Rgt	Thru	Left	Peds	App. Total	Rgt	Thru	Left	Peds	App. Total	Rgt	Thru	Left	Peds	App. Total	Int. Total
7:00 AM	12	93	15	0	120	15	18	39	0	72	67	377	19	0	463	3	29	26	0	58	713
7:15 AM	4	91	16	0	111	21	10	36	0	67	85	401	28	0	514	5	28	48	0	81	773
7:30 AM	13	146	21	0	180	19	16	62	0	97	87	372	16	0	475	16	34	36	0	86	838
7:45 AM	16	145	16	0	177	18	17	57	0	92	66	284	18	0	368	11	20	44	0	75	712
Total	45	475	68	0	588	73	61	194	0	328	305	1434	81	0	1820	35	111	154	0	300	3036
8:00 AM	12	132	17	0	161	11	13	51	0	75	66	294	12	0	372	13	23	30	0	66	674
8:15 AM	8	127	7	0	142	11	19	54	0	84	53	256	14	0	323	12	29	33	0	74	623
8:30 AM	16	150	9	0	175	12	23	65	0	100	62	270	24	0	356	7	28	27	0	62	693
8:45 AM	16	133	12	0	161	12	24	74	0	110	61	206	17	0	284	8	30	32	0	70	625
Total	52	542	45	0	639	46	79	244	0	369	242	1026	67	0	1335	40	110	122	0	272	2615
BREAK																					
4:00 PM	26	299	26	0	351	11	38	78	0	127	53	171	20	0	244	22	41	28	0	91	813
4:15 PM	30	292	27	0	349	23	49	80	0	152	48	163	19	0	230	18	52	22	0	92	823
4:30 PM	23	313	26	0	362	13	55	82	0	150	67	164	17	0	248	19	50	19	0	88	848
4:45 PM	24	293	17	0	334	21	46	101	0	168	63	160	23	0	246	23	59	24	0	106	854
Total	103	1197	96	0	1396	68	188	341	0	597	231	658	79	0	968	82	202	93	0	377	3338
5:00 PM	21	353	27	0	401	15	55	103	0	173	63	167	22	0	252	23	56	36	0	115	941
5:15 PM	26	287	21	0	334	22	60	118	0	200	53	163	21	0	237	39	63	29	0	131	902
5:30 PM	36	322	19	0	377	16	71	99	0	186	52	183	26	0	261	34	62	23	0	119	943
5:45 PM	41	270	31	0	342	27	52	114	0	193	43	161	21	0	225	28	49	43	0	120	880
Total	124	1232	98	0	1454	80	238	434	0	752	211	674	90	0	975	124	230	131	0	485	3666
Grand Total	324	3446	307	0	4077	267	566	1213	0	2046	989	3792	317	0	5098	281	653	500	0	1434	12655
Apprch %	7.9	84.5	7.5	0.0		13.0	27.7	59.3	0.0		19.4	74.4	6.2	0.0		19.6	45.5	34.9	0.0		
Total %	2.6	27.2	2.4	0.0	32.2	2.1	4.5	9.6	0.0	16.2	7.8	30.0	2.5	0.0	40.3	2.2	5.2	4.0	0.0	11.3	
Cars, PU, Vans	318	3397	303	0	4018	264	564	1208	0	2036	986	3749	317	0	5052	280	652	493	0	1425	12531
% Cars, PU, Vans	98.1	98.6	98.7	0.0	98.6	98.9	99.6	99.6	0.0	99.5	99.7	98.9	####	0.0	99.1	99.6	99.8	98.6	0.0	99.4	99.0
Heavy Trucks	6	49	4		59	3	2	5		10	3	43	0		46	1	1	7		9	124
%Heavy Trucks	1.9	1.4	1.3	0.0	1.4	1.1	0.4	0.4	0.0	0.5	0.3	1.1	0.0	0.0	0.9	0.4	0.2	1.4	0.0	0.6	1.0

Project ID: 15-9380-001
Location: NC 55 & Ralph Stevens I
City: Holly Springs

PEAK HOURS

Day: Thursday
Date: 10/29/2015

AM

	NC 55 Southbound				Ralph Stevens Rd_Main St Westbound				NC 55 Northbound				Ralph Stevens Rd_Main St Eastbound				
Start Time	Rgt	Thru	Left	App. Total	Rgt	Thru	Left	App. Total	Rgt	Thru	Left	App. Total	Rgt	Thru	Left	App. Total	Int. Total
Peak Hour Analysis from 07:00 AM to 09:00 AM																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
7:00 AM	12	93	15	120	15	18	39	72	67	377	19	463	3	29	26	58	713
7:15 AM	4	91	16	111	21	10	36	67	85	401	28	514	5	28	48	81	773
7:30 AM	13	146	21	180	19	16	62	97	87	372	16	475	16	34	36	86	838
7:45 AM	16	145	16	177	18	17	57	92	66	284	18	368	11	20	44	75	712
Total Volume	45	475	68	588	73	61	194	328	305	1434	81	1820	35	111	154	300	3036
% App. Total	7.7	80.8	11.6	100	22.3	18.6	59.1	100	16.8	78.8	4.5	100	11.7	37.0	51.3	100	
PHF				0.817				0.845				0.885				0.872	
Cars, PU, Vans	44	466	68	578	72	60	191	323	304	1429	81	1814	34	111	153	298	3013
% Cars, PU, Vans	97.8	98.1	####	98.3	98.6	98.4	98.5	98.5	99.7	99.7	####	99.7	97.1	####	99.4	99.3	99.2
Heavy Trucks	1	9	0	10	1	1	3	5	1	5	0	6	1	0	1	2	23
%Heavy Trucks	2.2	1.9	0.0	1.7	1.4	1.6	1.5	1.5	0.3	0.3	0.0	0.3	2.9	0.0	0.6	0.7	0.8

PM

	NC 55 Southbound				Ralph Stevens Rd_Main St Westbound				NC 55 Northbound				Ralph Stevens Rd_Main St Eastbound				
Start Time	Rgt	Thru	Left	App. Total	Rgt	Thru	Left	App. Total	Rgt	Thru	Left	App. Total	Rgt	Thru	Left	App. Total	Int. Total
Peak Hour Analysis from 04:00 PM to 06:00 PM																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
5:00 PM	21	353	27	401	15	55	103	173	63	167	22	252	23	56	36	115	941
5:15 PM	26	287	21	334	22	60	118	200	53	163	21	237	39	63	29	131	902
5:30 PM	36	322	19	377	16	71	99	186	52	183	26	261	34	62	23	119	943
5:45 PM	41	270	31	342	27	52	114	193	43	161	21	225	28	49	43	120	880
Total Volume	124	1232	98	1454	80	238	434	752	211	674	90	975	124	230	131	485	3666
% App. Total	8.5	84.7	6.7	100	10.6	31.6	57.7	100	21.6	69.1	9.2	100	25.6	47.4	27.0	100	
PHF				0.906				0.940				0.934				0.926	
Cars, PU, Vans	122	1221	98	1441	80	238	433	751	211	662	90	963	124	230	130	484	3639
% Cars, PU, Vans	98.4	99.1	####	99.1	100.0	####	99.8	99.9	####	98.2	####	98.8	####	####	99.2	99.8	99.3
Heavy Trucks	2	11	0	13	0	0	1	1	0	12	0	12	0	0	1	1	27
%Heavy Trucks	1.6	0.9	0.0	0.9	0.0	0.0	0.2	0.1	0.0	1.8	0.0	1.2	0.0	0.0	0.8	0.2	0.7

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-9380-001 **Day:** Thursday

City: Holly Springs **Date:** 10/29/2015

AM

NS/EW Streets:	NC 55			NC 55			Ralph Stevens Rd_Main St			Ralph Stevens Rd_Main St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	1	2	1	1	2	0.5	0.5	
7:00 AM	0	1	0	0	2	0	0	0	0	0	0	0	3
7:15 AM	0	0	0	0	1	0	0	0	0	0	0	1	2
7:30 AM	0	3	1	0	5	1	0	0	0	1	0	0	11
7:45 AM	0	1	0	0	1	0	1	0	1	2	1	0	7
8:00 AM	0	3	0	0	1	1	0	0	0	0	0	0	5
8:15 AM	0	2	0	0	6	1	1	1	0	0	0	1	12
8:30 AM	0	4	0	0	3	1	2	0	0	0	0	0	10
8:45 AM	0	1	1	0	8	0	2	0	0	0	1	0	13
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	15	2	0	27	4	6	1	1	3	2	2	63
APPROACH %'s :	0.00%	88.24%	11.76%	0.00%	87.10%	12.90%	75.00%	12.50%	12.50%	42.86%	28.57%	28.57%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	0	5	1	0	9	1	1	0	1	3	1	1	23
PEAK HR FACTOR :		0.375			0.417			0.250			0.417		0.523

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-9380-001 **Day:** Thursday

City: Holly Springs **Date:** 10/29/2015

PM

NS/EW Streets:	NC 55			NC 55			Ralph Stevens Rd_Main St			Ralph Stevens Rd_Main St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	1	2	1	1	2	0.5	0.5	
4:00 PM	0	2	1	0	2	0	0	0	0	0	0	0	5
4:15 PM	0	2	0	4	1	0	0	0	0	0	0	0	7
4:30 PM	0	6	0	0	5	0	0	0	0	0	0	0	11
4:45 PM	0	6	0	0	3	0	0	0	0	1	0	1	11
5:00 PM	0	3	0	0	5	0	0	0	0	0	0	0	8
5:15 PM	0	2	0	0	4	1	1	0	0	0	0	0	8
5:30 PM	0	4	0	0	2	1	0	0	0	0	0	0	7
5:45 PM	0	3	0	0	0	0	0	0	0	1	0	0	4
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	28	1	4	22	2	1	0	0	2	0	1	61
APPROACH %'s :	0.00%	96.55%	3.45%	14.29%	78.57%	7.14%	100.00%	0.00%	0.00%	66.67%	0.00%	33.33%	

PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	0	12	0	0	11	2	1	0	0	1	0	0	27
PEAK HR FACTOR :		0.750			0.650			0.250			0.250		0.844

CONTROL : Signalized