

# Alliant Engineering Inc Minneapolis, MN 55415

Douglas Drive at N Frontage Rd.  
Ref.Pt.: north of TH-55  
Alliant Engineering Inc  
TURN MOVEMENT COUNT

File Name : 64\_Douglas Dr at North Frontage Rd\_011811  
Site Code : 00000064  
Start Date : 1/18/2011  
Page No : 1

### Groups Printed- Unshifted - Bank 1

Start Time	Douglas Drive / Co.Rd.102 Southbound				N Frontage Rd Westbound				Douglas Drive / Co.Rd.102 Northbound				N Frontage Rd Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
06:00	1	32	1	0	13	0	0	0	12	20	12	0	0	0	1	0	92
06:15	1	21	3	0	5	0	0	0	26	26	21	2	0	0	1	0	106
06:30	1	41	4	0	1	0	0	0	38	42	23	0	0	0	1	0	151
06:45	5	63	13	0	0	0	0	0	57	46	32	1	1	0	1	0	219
Total	8	157	21	0	19	0	0	0	133	134	88	3	1	0	4	0	568
07:00	3	80	17	0	5	0	1	0	70	50	17	0	0	0	1	0	244
07:15	7	96	29	0	7	0	2	0	97	69	23	0	1	0	4	0	335
07:30	3	111	38	2	5	0	2	0	126	63	33	0	0	0	5	0	388
07:45	7	109	50	0	9	0	0	0	131	63	41	2	0	0	1	0	413
Total	20	396	134	2	26	0	5	0	424	245	114	2	1	0	11	0	1380
08:00	5	107	33	0	4	1	1	0	144	69	35	4	0	0	4	0	407
08:15	10	94	26	0	7	0	2	0	136	49	24	0	1	0	3	0	352
08:30	4	69	14	3	8	1	2	3	117	56	23	0	0	0	3	0	303
08:45	4	66	16	0	11	0	2	0	93	59	24	0	0	0	5	0	280
Total	23	336	89	3	30	2	7	3	490	233	106	4	1	0	15	0	1342
09:00	4	65	9	0	16	0	3	0	57	58	25	0	1	0	6	0	244
09:15	3	50	4	0	9	0	2	0	44	42	12	0	0	0	2	0	168
*** BREAK ***																	
Total	7	115	13	0	25	0	5	0	101	100	37	0	1	0	8	0	412
*** BREAK ***																	
10:30	4	37	2	0	13	0	6	0	13	31	14	0	2	0	8	0	130
10:45	1	47	1	0	9	0	9	0	6	32	11	0	3	0	7	0	126
Total	5	84	3	0	22	0	15	0	19	63	25	0	5	0	15	0	256
11:00	2	45	7	0	15	0	6	0	9	24	17	0	6	1	15	0	147
11:15	0	49	5	0	26	0	6	0	14	42	14	0	4	0	14	0	174
11:30	2	41	2	1	36	0	2	0	10	38	21	0	6	0	10	0	169
11:45	5	48	10	0	17	1	3	0	13	39	22	0	6	0	21	0	185
Total	9	183	24	1	94	1	17	0	46	143	74	0	22	1	60	0	675
12:00	6	44	4	0	25	0	6	0	12	41	20	0	9	0	15	0	182
12:15	4	45	7	0	15	0	6	0	15	52	14	0	2	1	12	0	173
12:30	5	53	6	0	7	1	2	0	13	45	12	0	3	1	10	0	158
12:45	8	46	5	0	11	0	9	0	27	44	29	1	2	0	8	0	190
Total	23	188	22	0	58	1	23	0	67	182	75	1	16	2	45	0	703
13:00	10	43	6	0	18	0	6	0	17	47	17	0	1	0	12	0	177
13:15	3	43	5	0	10	1	3	0	13	58	25	0	0	0	7	0	168
*** BREAK ***																	
Total	13	86	11	0	28	1	9	0	30	105	42	0	1	0	19	0	345
*** BREAK ***																	
14:30	4	72	3	0	14	1	0	0	11	45	8	0	0	0	11	0	169
14:45	6	58	2	0	9	0	10	0	9	62	19	0	3	0	17	0	195
Total	10	130	5	0	23	1	10	0	20	107	27	0	3	0	28	0	364
15:00	2	61	6	0	27	0	2	0	7	49	10	0	7	1	29	0	201
15:15	0	48	1	0	39	0	3	0	7	57	12	1	6	1	11	0	186
15:30	4	72	0	0	26	0	5	0	9	74	8	0	15	0	32	0	245
15:45	1	56	2	0	21	0	5	0	8	71	9	0	6	0	37	0	216
Total	7	237	9	0	113	0	15	0	31	251	39	1	34	2	109	0	848

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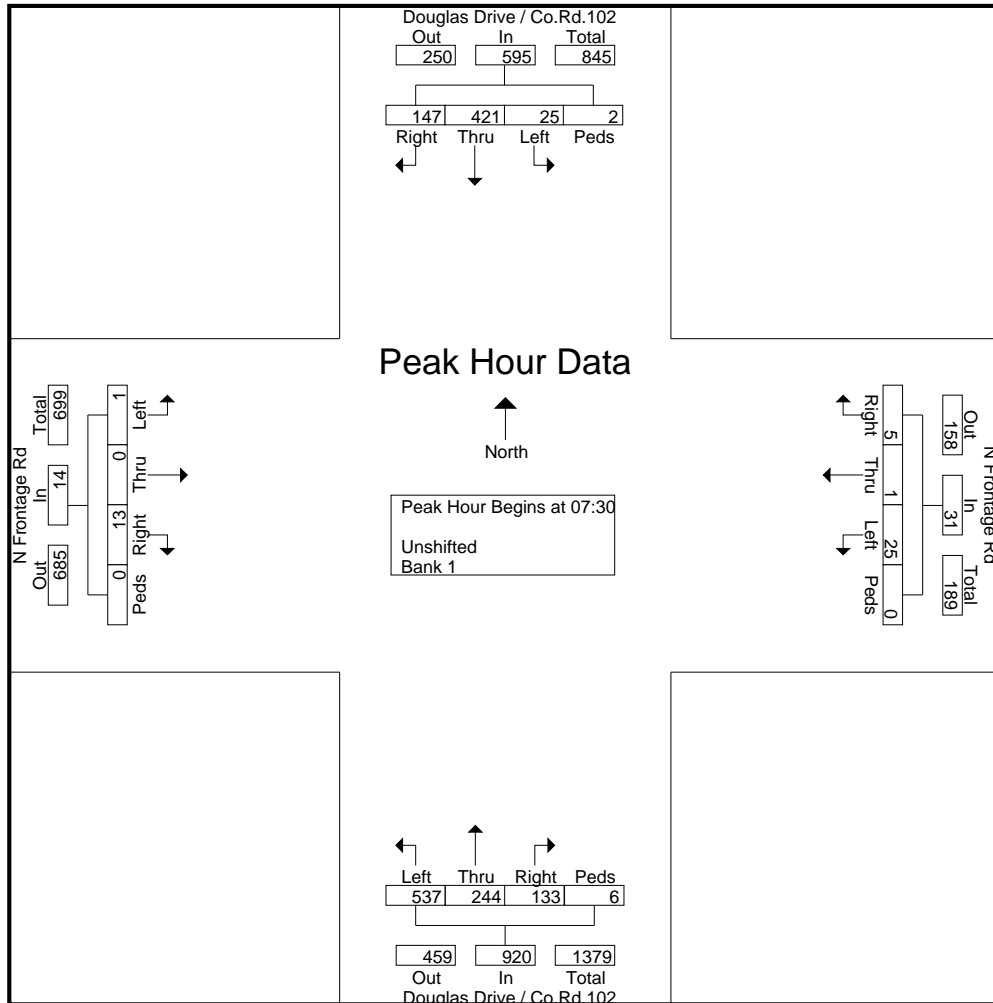
Start Time	Douglas Drive / Co.Rd.102 Southbound				N Frontage Rd Westbound				Douglas Drive / Co.Rd.102 Northbound				N Frontage Rd Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
16:00	4	82	3	0	25	1	6	0	8	85	7	0	25	0	58	0	304
16:15	2	63	3	1	22	0	1	0	7	98	7	0	24	0	62	0	290
16:30	2	64	1	0	31	0	2	0	4	81	6	0	35	0	87	2	315
16:45	2	52	2	0	25	0	1	0	6	131	3	0	35	0	114	0	371
Total	10	261	9	1	103	1	10	0	25	395	23	0	119	0	321	2	1280
17:00	0	70	2	0	37	0	2	0	1	107	9	0	38	2	114	0	382
17:15	0	48	1	0	16	0	3	0	0	117	5	0	23	0	102	0	315
17:30	0	51	0	0	21	0	0	0	2	104	3	0	26	1	89	0	297
17:45	0	57	1	0	14	0	1	0	4	92	1	0	9	0	67	0	246
Total	0	226	4	0	88	0	6	0	7	420	18	0	96	3	372	0	1240
Grand Total	135	2399	344	7	629	7	122	3	1393	2378	668	11	300	8	1007	2	9413
Apprch %	4.7	83.2	11.9	0.2	82.7	0.9	16	0.4	31.3	53.4	15	0.2	22.8	0.6	76.5	0.2	
Total %	1.4	25.5	3.7	0.1	6.7	0.1	1.3	0	14.8	25.3	7.1	0.1	3.2	0.1	10.7	0	
Unshifted	134	2388	342	7	622	7	121	3	1392	2347	660	11	299	7	1001	2	9343
% Unshifted	99.3	99.5	99.4	100	98.9	100	99.2	100	99.9	98.7	98.8	100	99.7	87.5	99.4	100	99.3
Bank 1	1	11	2	0	7	0	1	0	1	31	8	0	1	1	6	0	70
% Bank 1	0.7	0.5	0.6	0	1.1	0	0.8	0	0.1	1.3	1.2	0	0.3	12.5	0.6	0	0.7

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	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 06:00 to 09:15 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30																					
07:30	3	111	38	2	154	5	0	2	0	7	126	63	33	0	222	0	0	5	0	5	388
07:45	7	109	50	0	166	9	0	0	0	9	131	63	41	2	237	0	0	1	0	1	413
08:00	5	107	33	0	145	4	1	1	0	6	144	69	35	4	252	0	0	4	0	4	407
08:15	10	94	26	0	130	7	0	2	0	9	136	49	24	0	209	1	0	3	0	4	352
Total Volume	25	421	147	2	595	25	1	5	0	31	537	244	133	6	920	1	0	13	0	14	1560
% App. Total	4.2	70.8	24.7	0.3		80.6	3.2	16.1	0		58.4	26.5	14.5	0.7		7.1	0	92.9	0		
PHF	.625	.948	.735	.250	.896	.694	.250	.625	.000	.861	.932	.884	.811	.375	.913	.250	.000	.650	.000	.700	.944



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	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 14:30 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	2	64	1	0	67	31	0	2	0	33	4	81	6	0	91	35	0	87	2	124	315
16:45	2	52	2	0	56	25	0	1	0	26	6	131	3	0	140	35	0	114	0	149	371
17:00	0	70	2	0	72	37	0	2	0	39	1	107	9	0	117	38	2	114	0	154	382
17:15	0	48	1	0	49	16	0	3	0	19	0	117	5	0	122	23	0	102	0	125	315
Total Volume	4	234	6	0	244	109	0	8	0	117	11	436	23	0	470	131	2	417	2	552	1383
% App. Total	1.6	95.9	2.5	0		93.2	0	6.8	0		2.3	92.8	4.9	0		23.7	0.4	75.5	0.4		
PHF	.500	.836	.750	.000	.847	.736	.000	.667	.000	.750	.458	.832	.639	.000	.839	.862	.250	.914	.250	.896	.905

