

Alliant Engineering Inc Minneapolis, MN 55415

TH-7 at Williston Rd.
Ref.Pt.: 188.039
Alliant Engineering Inc
TURN MOVEMENT COUNT

File Name : 11_TH 7 at Williston Rd_011211
Site Code : 00000011
Start Date : 1/12/2011
Page No : 1

Groups Printed- Unshifted - Bank 1

Start Time	Williston Rd Southbound					TH-7 Westbound					Williston Rd Northbound					TH-7 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	
06:00	13	4	1	0	18	8	63	3	0	74	3	2	6	0	11	7	194	1	0	202	305
06:15	24	5	1	0	30	10	92	2	0	104	1	3	14	0	18	6	257	0	0	263	415
06:30	24	3	5	0	32	11	116	9	0	136	2	1	19	0	22	4	380	2	0	386	576
06:45	31	5	2	0	38	11	159	12	0	182	5	6	30	0	41	16	399	3	0	418	679
Total	92	17	9	0	118	40	430	26	0	496	11	12	69	0	92	33	1230	6	0	1269	1975
07:00	36	20	2	0	58	18	150	6	0	174	3	13	40	0	56	24	489	3	1	517	805
07:15	32	32	16	0	80	14	166	10	0	190	7	15	66	0	88	22	596	2	0	620	978
07:30	37	20	25	0	82	24	194	18	0	236	7	14	60	0	81	13	582	6	0	601	1000
07:45	40	22	23	0	85	23	226	16	0	265	8	28	42	0	78	31	595	10	0	636	1064
Total	145	94	66	0	305	79	736	50	0	865	25	70	208	0	303	90	2262	21	1	2374	3847
08:00	37	18	12	0	67	23	202	16	0	241	2	11	29	0	42	28	617	4	0	649	999
08:15	35	15	8	0	58	21	189	18	0	228	5	12	37	0	54	13	607	8	0	628	968
08:30	50	19	9	0	78	31	185	13	0	229	9	12	33	0	54	15	459	5	0	479	840
08:45	40	13	12	0	65	26	241	25	0	292	10	22	28	0	60	29	421	2	0	452	869
Total	162	65	41	0	268	101	817	72	0	990	26	57	127	0	210	85	2104	19	0	2208	3676
09:00	38	14	7	0	59	20	204	14	0	238	12	20	18	0	50	11	320	7	0	338	685
09:15	36	7	8	0	51	29	186	23	0	238	6	11	20	0	37	23	325	2	0	350	676
*** BREAK ***																					
Total	74	21	15	0	110	49	390	37	0	476	18	31	38	0	87	34	645	9	0	688	1361
*** BREAK ***																					
10:30	22	9	9	0	40	41	194	12	0	247	9	12	15	0	36	8	277	4	0	289	612
10:45	27	11	10	0	48	25	197	11	0	233	19	9	22	0	50	16	246	5	0	267	598
Total	49	20	19	0	88	66	391	23	0	480	28	21	37	0	86	24	523	9	0	556	1210
11:00	21	7	18	0	46	26	224	7	0	257	8	6	16	0	30	8	247	12	0	267	600
11:15	32	22	10	0	64	37	204	13	0	254	15	14	17	0	46	12	272	9	0	293	657
11:30	37	15	25	0	77	38	240	16	0	294	19	13	15	0	47	19	272	12	0	303	721
11:45	36	13	29	0	78	32	209	8	0	249	13	10	18	0	41	19	252	11	0	282	650
Total	126	57	82	0	265	133	877	44	0	1054	55	43	66	0	164	58	1043	44	0	1145	2628
12:00	32	17	34	0	83	44	236	22	0	302	16	5	16	0	37	28	245	16	0	289	711
12:15	34	17	15	0	66	44	232	8	0	284	15	16	11	0	42	23	243	17	0	283	675
12:30	30	19	9	0	58	43	216	14	0	273	19	25	28	0	72	30	270	5	0	305	708
12:45	45	12	17	0	74	33	211	17	0	261	19	21	17	0	57	21	241	10	0	272	664
Total	141	65	75	0	281	164	895	61	0	1120	69	67	72	0	208	102	999	48	0	1149	2758
13:00	29	16	20	0	65	41	209	17	1	268	18	18	14	0	50	14	219	16	0	249	632
13:15	22	12	10	0	44	30	215	22	0	267	17	16	15	0	48	18	241	14	0	273	632
*** BREAK ***																					
Total	51	28	30	0	109	71	424	39	1	535	35	34	29	0	98	32	460	30	0	522	1264
*** BREAK ***																					
14:30	28	11	13	0	52	26	324	15	0	365	16	6	11	0	33	13	266	3	0	282	732
14:45	20	17	17	0	54	62	316	28	0	406	22	14	12	0	48	18	271	10	0	299	807
Total	48	28	30	0	106	88	640	43	0	771	38	20	23	0	81	31	537	13	0	581	1539
15:00	25	18	21	0	64	44	307	31	0	382	16	19	8	0	43	23	267	7	0	297	786
15:15	38	10	21	0	69	51	304	33	0	388	18	14	18	0	50	20	214	3	0	237	744
15:30	23	24	26	0	73	50	372	26	0	448	21	33	14	0	68	25	320	11	0	356	945
15:45	23	44	19	0	86	40	370	46	0	456	20	38	6	0	64	29	245	25	0	299	905
Total	109	96	87	0	292	185	1353	136	0	1674	75	104	46	0	225	97	1046	46	0	1189	3380
16:00	54	26	29	0	109	36	369	27	0	432	21	26	17	0	64	36	258	14	0	308	913

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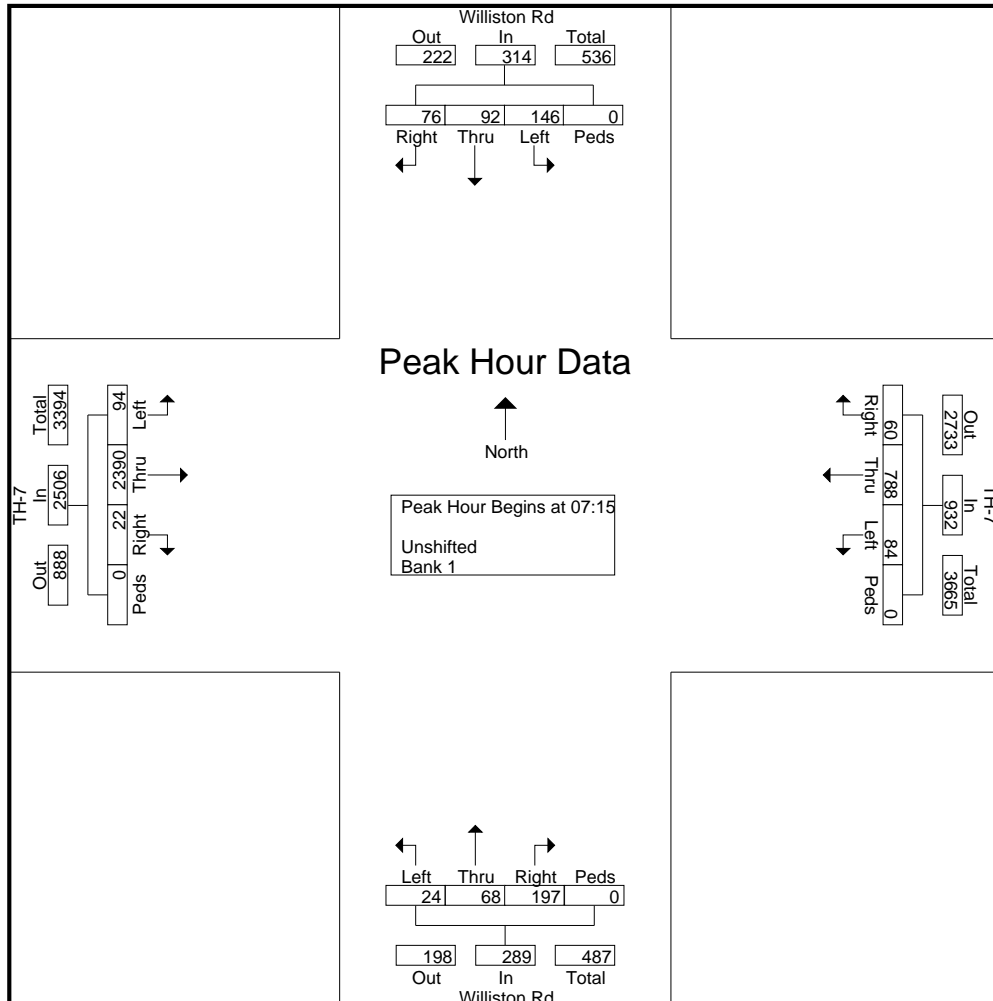
Start Time	Williston Rd Southbound					TH-7 Westbound					Williston Rd Northbound					TH-7 Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
16:15	37	35	27	0	99	39	468	28	0	535	19	21	26	0	66	30	289	11	0	330	1030
16:30	52	24	29	0	105	49	409	17	0	475	18	24	12	0	54	11	274	7	0	292	926
16:45	45	22	30	0	97	41	469	10	0	520	19	27	11	0	57	39	311	8	0	358	1032
Total	188	107	115	0	410	165	1715	82	0	1962	77	98	66	0	241	116	1132	40	0	1288	3901
17:00	51	43	31	0	125	49	494	36	0	579	17	29	14	0	60	26	234	12	0	272	1036
17:15	37	37	37	0	111	35	498	19	1	553	23	24	11	0	58	31	276	9	0	316	1038
17:30	29	28	34	0	91	60	485	20	0	565	28	34	11	0	73	29	230	5	0	264	993
17:45	20	35	29	0	84	37	446	23	0	506	25	23	10	0	58	29	291	8	0	328	976
Total	137	143	131	0	411	181	1923	98	1	2203	93	110	46	0	249	115	1031	34	0	1180	4043
Grand Total	1322	741	700	0	2763	1322	10591	711	2	12626	550	667	827	0	2044	817	13012	319	1	14149	31582
Apprch %	47.8	26.8	25.3	0		10.5	83.9	5.6	0		26.9	32.6	40.5	0		5.8	92	2.3	0		
Total %	4.2	2.3	2.2	0	8.7	4.2	33.5	2.3	0	40	1.7	2.1	2.6	0	6.5	2.6	41.2	1	0	44.8	
Unshifted	1295	726	689	0	2710	1292	10352	693	2	12339	537	642	813	0	1992	792	12786	316	1	13895	30936
% Unshifted	98	98	98.4	0	98.1	97.7	97.7	97.5	100	97.7	97.6	96.3	98.3	0	97.5	96.9	98.3	99.1	100	98.2	98
Bank 1	27	15	11	0	53	30	239	18	0	287	13	25	14	0	52	25	226	3	0	254	646
% Bank 1	2	2	1.6	0	1.9	2.3	2.3	2.5	0	2.3	2.4	3.7	1.7	0	2.5	3.1	1.7	0.9	0	1.8	2

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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 07:15																					
07:15	32	32	16	0	80	14	166	10	0	190	7	15	66	0	88	22	596	2	0	620	978
07:30	37	20	25	0	82	24	194	18	0	236	7	14	60	0	81	13	582	6	0	601	1000
07:45	40	22	23	0	85	23	226	16	0	265	8	28	42	0	78	31	595	10	0	636	1064
08:00	37	18	12	0	67	23	202	16	0	241	2	11	29	0	42	28	617	4	0	649	999
Total Volume	146	92	76	0	314	84	788	60	0	932	24	68	197	0	289	94	2390	22	0	2506	4041
% App. Total	46.5	29.3	24.2	0		9	84.5	6.4	0		8.3	23.5	68.2	0		3.8	95.4	0.9	0		
PHF	.913	.719	.760	.000	.924	.875	.872	.833	.000	.879	.750	.607	.746	.000	.821	.758	.968	.550	.000	.965	.949



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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 16:45																					
16:45	45	22	30	0	97	41	469	10	0	520	19	27	11	0	57	39	311	8	0	358	1032
17:00	51	43	31	0	125	49	494	36	0	579	17	29	14	0	60	26	234	12	0	272	1036
17:15	37	37	37	0	111	35	498	19	1	553	23	24	11	0	58	31	276	9	0	316	1038
17:30	29	28	34	0	91	60	485	20	0	565	28	34	11	0	73	29	230	5	0	264	993
Total Volume	162	130	132	0	424	185	1946	85	1	2217	87	114	47	0	248	125	1051	34	0	1210	4099
% App. Total	38.2	30.7	31.1	0		8.3	87.8	3.8	0		35.1	46	19	0		10.3	86.9	2.8	0		
PHF	.794	.756	.892	.000	.848	.771	.977	.590	.250	.957	.777	.838	.839	.000	.849	.801	.845	.708	.000	.845	.987

