

# ALLIANT ENGINEERING INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

519\_TH 61 & TH 96-12th St  
 Ref. Pt: 147+00.822  
 data by: Alliant Inc  
 TURN MOVEMENT COUNT

File Name : 519\_TH 61 & TH 96-12th Street  
 Site Code : 00000519  
 Start Date : 11/7/2019  
 Page No : 1

Groups Printed- Class 1 - Class 2

Start Time	TH 61 From North					TH 96/12th St From East					TH 61 From South					From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
06:00 AM	0	38	1	0	39	0	0	11	0	11	4	9	0	0	13	0	0	0	0	0	0
06:15 AM	0	65	0	0	65	0	0	17	0	17	5	16	0	0	21	0	0	0	0	0	0
06:30 AM	0	79	4	0	83	0	0	26	0	26	10	24	0	0	34	0	0	0	0	0	0
06:45 AM	0	98	3	0	101	2	0	25	0	27	8	42	0	0	50	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>280</b>	<b>8</b>	<b>0</b>	<b>288</b>	<b>2</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>81</b>	<b>27</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>487</b>
07:00 AM	0	132	7	0	139	2	0	25	0	27	5	38	0	0	43	0	0	0	0	0	209
07:15 AM	0	232	6	0	238	0	0	50	0	50	11	37	0	0	48	0	0	0	0	0	336
07:30 AM	0	265	7	0	272	4	0	67	0	71	17	78	0	0	95	0	0	0	0	0	438
07:45 AM	0	295	15	0	310	3	0	74	0	77	16	83	0	0	99	0	0	0	0	0	486
<b>Total</b>	<b>0</b>	<b>924</b>	<b>35</b>	<b>0</b>	<b>959</b>	<b>9</b>	<b>0</b>	<b>216</b>	<b>0</b>	<b>225</b>	<b>49</b>	<b>236</b>	<b>0</b>	<b>0</b>	<b>285</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1469</b>
08:00 AM	0	327	11	0	338	2	0	61	0	63	32	57	0	0	89	0	0	0	0	0	490
08:15 AM	0	329	19	0	348	5	0	102	0	107	43	71	0	0	114	0	0	0	0	0	569
08:30 AM	1	351	23	0	375	0	0	101	0	101	38	59	1	0	98	0	0	0	0	0	574
08:45 AM	0	346	13	0	359	3	0	112	0	115	28	74	0	0	102	0	0	0	0	0	576
<b>Total</b>	<b>1</b>	<b>1353</b>	<b>66</b>	<b>0</b>	<b>1420</b>	<b>10</b>	<b>0</b>	<b>376</b>	<b>0</b>	<b>386</b>	<b>141</b>	<b>261</b>	<b>1</b>	<b>0</b>	<b>403</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2209</b>
09:00 AM	0	228	7	0	235	4	0	70	0	74	29	111	0	0	140	0	0	0	0	0	449
09:15 AM	0	194	13	0	207	6	0	74	0	80	42	80	0	0	122	0	0	0	0	0	409
*** BREAK ***																					
<b>Total</b>	<b>0</b>	<b>422</b>	<b>20</b>	<b>0</b>	<b>442</b>	<b>10</b>	<b>0</b>	<b>144</b>	<b>0</b>	<b>154</b>	<b>71</b>	<b>191</b>	<b>0</b>	<b>0</b>	<b>262</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>858</b>
*** BREAK ***																					
10:30 AM	0	143	8	0	151	5	0	55	0	60	35	77	0	0	112	0	0	0	0	0	323
10:45 AM	0	137	7	0	144	5	0	52	0	57	33	72	0	2	107	0	0	0	0	0	308
<b>Total</b>	<b>0</b>	<b>280</b>	<b>15</b>	<b>0</b>	<b>295</b>	<b>10</b>	<b>0</b>	<b>107</b>	<b>0</b>	<b>117</b>	<b>68</b>	<b>149</b>	<b>0</b>	<b>2</b>	<b>219</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>631</b>
11:00 AM	0	117	6	0	123	6	0	55	0	61	39	101	0	0	140	0	3	0	0	3	327
11:15 AM	0	125	15	0	140	7	0	50	0	57	31	77	0	0	108	0	0	0	0	0	305
11:30 AM	0	123	9	0	132	10	0	37	0	47	40	89	0	0	129	0	0	0	0	0	308
11:45 AM	0	115	7	0	122	9	0	40	0	49	37	106	0	0	143	0	0	0	0	0	314
<b>Total</b>	<b>0</b>	<b>480</b>	<b>37</b>	<b>0</b>	<b>517</b>	<b>32</b>	<b>0</b>	<b>182</b>	<b>0</b>	<b>214</b>	<b>147</b>	<b>373</b>	<b>0</b>	<b>0</b>	<b>520</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1254</b>
12:00 PM	0	131	10	0	141	6	0	37	0	43	46	103	0	0	149	0	0	0	0	0	333
12:15 PM	0	124	9	0	133	6	0	51	0	57	43	94	0	0	137	0	0	0	0	0	327
12:30 PM	0	145	10	0	155	8	0	49	0	57	56	111	0	0	167	0	0	0	0	0	379
12:45 PM	0	134	4	0	138	5	0	57	0	62	52	109	0	0	161	0	0	0	0	0	361
<b>Total</b>	<b>0</b>	<b>534</b>	<b>33</b>	<b>0</b>	<b>567</b>	<b>25</b>	<b>0</b>	<b>194</b>	<b>0</b>	<b>219</b>	<b>197</b>	<b>417</b>	<b>0</b>	<b>0</b>	<b>614</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1400</b>
01:00 PM	0	132	9	0	141	1	0	51	0	52	60	123	0	0	183	0	0	0	0	0	376
01:15 PM	0	85	5	0	90	5	0	55	0	60	46	106	0	0	152	0	0	0	0	0	302
*** BREAK ***																					
<b>Total</b>	<b>0</b>	<b>217</b>	<b>14</b>	<b>0</b>	<b>231</b>	<b>6</b>	<b>0</b>	<b>106</b>	<b>0</b>	<b>112</b>	<b>106</b>	<b>229</b>	<b>0</b>	<b>0</b>	<b>335</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>678</b>
*** BREAK ***																					
02:30 PM	0	125	5	0	130	11	0	49	0	60	57	150	0	0	207	0	0	0	0	0	397
02:45 PM	0	105	12	0	117	8	0	46	0	54	58	158	0	0	216	0	0	0	0	0	387
<b>Total</b>	<b>0</b>	<b>230</b>	<b>17</b>	<b>0</b>	<b>247</b>	<b>19</b>	<b>0</b>	<b>95</b>	<b>0</b>	<b>114</b>	<b>115</b>	<b>308</b>	<b>0</b>	<b>0</b>	<b>423</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>784</b>
03:00 PM	0	135	13	0	148	6	0	37	0	43	39	142	0	0	181	0	0	0	0	0	372
03:15 PM	0	118	10	0	128	4	0	33	0	37	49	154	0	0	203	0	0	0	0	0	368
03:30 PM	0	102	8	0	110	11	0	46	0	57	48	177	0	0	225	0	0	0	0	0	392
03:45 PM	0	117	9	0	126	5	0	48	0	53	71	206	0	1	278	0	0	0	0	0	457
<b>Total</b>	<b>0</b>	<b>472</b>	<b>40</b>	<b>0</b>	<b>512</b>	<b>26</b>	<b>0</b>	<b>164</b>	<b>0</b>	<b>190</b>	<b>207</b>	<b>679</b>	<b>0</b>	<b>1</b>	<b>887</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1589</b>

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File Name : 519\_TH 61 & TH 96-12th Street  
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Groups Printed- Class 1 - Class 2

Start Time	TH 61 From North					TH 96/12th St From East					TH 61 From South					From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
04:00 PM	0	145	14	0	159	11	0	52	0	63	79	241	0	1	321	0	0	0	0	0	543
04:15 PM	0	145	18	0	163	8	0	51	0	59	75	208	0	0	283	0	0	0	0	0	505
04:30 PM	0	133	14	0	147	4	0	39	0	43	78	234	0	1	313	0	0	0	0	0	503
04:45 PM	0	159	9	0	168	8	0	45	0	53	93	259	0	1	353	0	0	0	0	0	574
Total	0	582	55	0	637	31	0	187	0	218	325	942	0	3	1270	0	0	0	0	0	2125
05:00 PM	0	146	19	0	165	7	0	41	0	48	81	268	0	0	349	0	0	0	0	0	562
05:15 PM	0	122	15	0	137	5	0	53	0	58	93	227	0	0	320	0	0	0	0	0	515
05:30 PM	0	159	17	0	176	6	0	58	0	64	87	244	0	0	331	0	0	0	0	0	571
05:45 PM	0	192	19	0	211	6	0	68	0	74	91	311	0	0	402	0	0	0	0	0	687
Total	0	619	70	0	689	24	0	220	0	244	352	1050	0	0	1402	0	0	0	0	0	2335
Grand Total	1	6393	410	0	6804	204	0	2070	0	2274	1805	4926	1	6	6738	0	3	0	0	3	15819
Apprch %	0	94	6	0		9	0	91	0		26.8	73.1	0	0.1		0	100	0	0		
Total %	0	40.4	2.6	0	43	1.3	0	13.1	0	14.4	11.4	31.1	0	0	42.6	0	0	0	0	0	
Class 1	1	6192	359	0	6552	163	0	2016	0	2179	1765	4755	1	6	6527	0	3	0	0	3	15261
% Class 1	100	96.9	87.6	0	96.3	79.9	0	97.4	0	95.8	97.8	96.5	100	100	96.9	0	100	0	0	100	96.5
Class 2	0	201	51	0	252	41	0	54	0	95	40	171	0	0	211	0	0	0	0	0	558
% Class 2	0	3.1	12.4	0	3.7	20.1	0	2.6	0	4.2	2.2	3.5	0	0	3.1	0	0	0	0	0	3.5

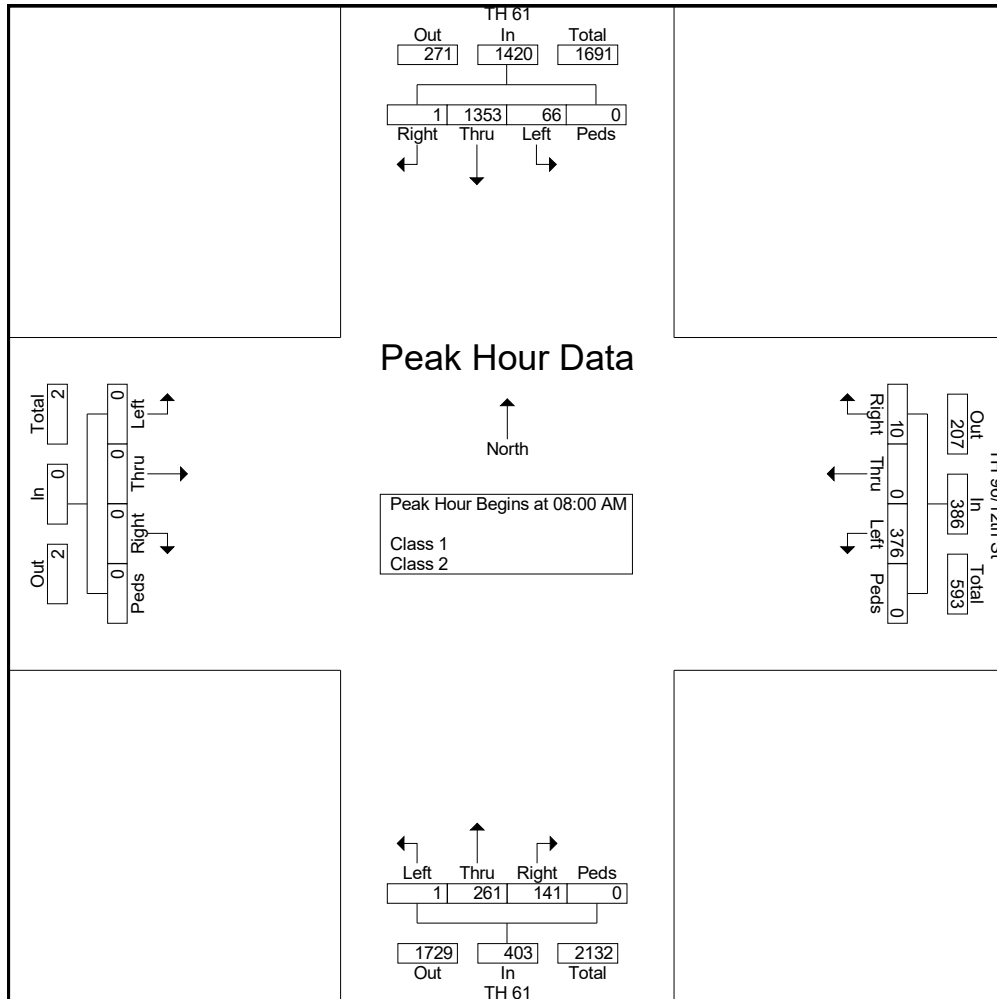
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Start Time	TH 61 From North					TH 96/12th St From East					TH 61 From South					From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:00 AM																					
08:00 AM	0	327	11	0	338	2	0	61	0	63	32	57	0	0	89	0	0	0	0	0	490
08:15 AM	0	329	19	0	348	5	0	102	0	107	43	71	0	0	114	0	0	0	0	0	569
08:30 AM	1	351	23	0	375	0	0	101	0	101	38	59	1	0	98	0	0	0	0	0	574
08:45 AM	0	346	13	0	359	3	0	112	0	115	28	74	0	0	102	0	0	0	0	0	576
Total Volume	1	1353	66	0	1420	10	0	376	0	386	141	261	1	0	403	0	0	0	0	0	2209
% App. Total	0.1	95.3	4.6	0		2.6	0	97.4	0		35	64.8	0.2	0		0	0	0	0		
PHF	.250	.964	.717	.000	.947	.500	.000	.839	.000	.839	.820	.882	.250	.000	.884	.000	.000	.000	.000	.000	.959



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File Name : 519\_TH 61 & TH 96-12th Street  
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 Page No : 4

Start Time	TH 61 From North					TH 96/12th St From East					TH 61 From South					From West					Int. Total
	Right	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 Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:00 PM																					
05:00 PM	0	146	19	0	165	7	0	41	0	48	81	268	0	0	349	0	0	0	0	0	562
05:15 PM	0	122	15	0	137	5	0	53	0	58	93	227	0	0	320	0	0	0	0	0	515
05:30 PM	0	159	17	0	176	6	0	58	0	64	87	244	0	0	331	0	0	0	0	0	571
05:45 PM	0	192	19	0	211	6	0	68	0	74	91	311	0	0	402	0	0	0	0	0	687
Total Volume	0	619	70	0	689	24	0	220	0	244	352	1050	0	0	1402	0	0	0	0	0	2335
% App. Total	0	89.8	10.2	0		9.8	0	90.2	0		25.1	74.9	0	0		0	0	0	0		
PHF	.000	.806	.921	.000	.816	.857	.000	.809	.000	.824	.946	.844	.000	.000	.872	.000	.000	.000	.000	.000	.850

