

# ALLIANT ENGINEERING INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

517\_TH 61 & 4th St  
 Ref. Pt: 147+00.240  
 data by: Alliant Inc  
 TURN MOVEMENT COUNT

File Name : 517\_TH 61 & 4th Street  
 Site Code : 00000517  
 Start Date : 11/7/2019  
 Page No : 1

Groups Printed- Class 1 - Class 2

Start Time	TH 61 From North					4th St From East					TH 61 From South					4th St 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	11	161	0	0	172	0	0	8	0	8	4	42	14	0	60	13	0	8	0	21	261
06:15 AM	11	281	0	0	292	0	3	2	0	5	2	62	9	0	73	26	2	5	0	33	403
06:30 AM	13	354	1	0	368	0	3	8	0	11	5	125	19	1	150	21	3	9	0	33	562
06:45 AM	21	355	1	1	378	0	4	5	0	9	14	122	23	0	159	22	2	15	0	39	585
<b>Total</b>	<b>56</b>	<b>1151</b>	<b>2</b>	<b>1</b>	<b>1210</b>	<b>0</b>	<b>10</b>	<b>23</b>	<b>0</b>	<b>33</b>	<b>25</b>	<b>351</b>	<b>65</b>	<b>1</b>	<b>442</b>	<b>82</b>	<b>7</b>	<b>37</b>	<b>0</b>	<b>126</b>	<b>1811</b>
07:00 AM	22	400	4	0	426	1	7	9	0	17	4	106	29	1	140	43	7	20	0	70	653
07:15 AM	33	460	0	0	493	0	13	11	0	24	8	167	39	0	214	73	9	20	0	102	833
07:30 AM	29	457	1	0	487	0	5	23	0	28	6	99	24	0	129	64	9	24	0	97	741
07:45 AM	47	385	6	0	438	2	15	15	0	32	9	113	37	0	159	42	10	16	0	68	697
<b>Total</b>	<b>131</b>	<b>1702</b>	<b>11</b>	<b>0</b>	<b>1844</b>	<b>3</b>	<b>40</b>	<b>58</b>	<b>0</b>	<b>101</b>	<b>27</b>	<b>485</b>	<b>129</b>	<b>1</b>	<b>642</b>	<b>222</b>	<b>35</b>	<b>80</b>	<b>0</b>	<b>337</b>	<b>2924</b>
08:00 AM	21	251	3	2	277	1	10	10	0	21	10	145	44	0	199	52	12	13	0	77	574
08:15 AM	13	270	5	0	288	2	15	21	0	38	15	119	30	1	165	29	24	16	0	69	560
08:30 AM	18	201	6	0	225	1	9	19	0	29	17	115	30	0	162	26	13	27	0	66	482
08:45 AM	34	263	2	0	299	2	13	16	0	31	21	132	39	0	192	44	17	25	0	86	608
<b>Total</b>	<b>86</b>	<b>985</b>	<b>16</b>	<b>2</b>	<b>1089</b>	<b>6</b>	<b>47</b>	<b>66</b>	<b>0</b>	<b>119</b>	<b>63</b>	<b>511</b>	<b>143</b>	<b>1</b>	<b>718</b>	<b>151</b>	<b>66</b>	<b>81</b>	<b>0</b>	<b>298</b>	<b>2224</b>
09:00 AM	22	198	4	0	224	0	7	14	0	21	20	138	40	1	199	48	15	39	0	102	546
09:15 AM	20	212	6	0	238	4	11	17	0	32	16	157	40	0	213	41	14	17	0	72	555
*** BREAK ***																					
<b>Total</b>	<b>42</b>	<b>410</b>	<b>10</b>	<b>0</b>	<b>462</b>	<b>4</b>	<b>18</b>	<b>31</b>	<b>0</b>	<b>53</b>	<b>36</b>	<b>295</b>	<b>80</b>	<b>1</b>	<b>412</b>	<b>89</b>	<b>29</b>	<b>56</b>	<b>0</b>	<b>174</b>	<b>1101</b>
*** BREAK ***																					
10:30 AM	7	159	4	0	170	2	13	30	0	45	21	165	26	0	212	29	9	16	0	54	481
10:45 AM	11	155	6	5	177	2	12	27	0	41	32	153	35	2	222	32	12	22	0	66	506
<b>Total</b>	<b>18</b>	<b>314</b>	<b>10</b>	<b>5</b>	<b>347</b>	<b>4</b>	<b>25</b>	<b>57</b>	<b>0</b>	<b>86</b>	<b>53</b>	<b>318</b>	<b>61</b>	<b>2</b>	<b>434</b>	<b>61</b>	<b>21</b>	<b>38</b>	<b>0</b>	<b>120</b>	<b>987</b>
11:00 AM	15	161	4	0	180	3	8	23	0	34	27	169	36	2	234	33	11	23	0	67	515
11:15 AM	9	160	3	2	174	3	15	30	0	48	30	154	40	0	224	35	13	21	0	69	515
11:30 AM	15	175	8	1	199	6	13	26	0	45	33	190	37	0	260	38	15	22	0	75	579
11:45 AM	16	168	7	0	191	11	14	27	0	52	28	191	25	0	244	36	13	15	0	64	551
<b>Total</b>	<b>55</b>	<b>664</b>	<b>22</b>	<b>3</b>	<b>744</b>	<b>23</b>	<b>50</b>	<b>106</b>	<b>0</b>	<b>179</b>	<b>118</b>	<b>704</b>	<b>138</b>	<b>2</b>	<b>962</b>	<b>142</b>	<b>52</b>	<b>81</b>	<b>0</b>	<b>275</b>	<b>2160</b>
12:00 PM	22	175	9	1	207	6	19	28	0	53	33	181	39	0	253	28	10	20	0	58	571
12:15 PM	21	144	4	1	170	0	13	33	0	46	25	181	43	0	249	30	17	27	0	74	539
12:30 PM	15	174	6	1	196	2	20	22	0	44	26	229	31	1	287	40	12	26	0	78	605
12:45 PM	19	162	3	0	184	6	21	24	0	51	21	233	43	2	299	27	21	15	0	63	597
<b>Total</b>	<b>77</b>	<b>655</b>	<b>22</b>	<b>3</b>	<b>757</b>	<b>14</b>	<b>73</b>	<b>107</b>	<b>0</b>	<b>194</b>	<b>105</b>	<b>824</b>	<b>156</b>	<b>3</b>	<b>1088</b>	<b>125</b>	<b>60</b>	<b>88</b>	<b>0</b>	<b>273</b>	<b>2312</b>
01:00 PM	12	138	4	0	154	3	10	25	0	38	36	221	31	1	289	43	9	24	0	76	557
01:15 PM	10	126	5	2	143	6	17	27	0	50	32	202	37	0	271	37	17	29	0	83	547
*** BREAK ***																					
<b>Total</b>	<b>22</b>	<b>264</b>	<b>9</b>	<b>2</b>	<b>297</b>	<b>9</b>	<b>27</b>	<b>52</b>	<b>0</b>	<b>88</b>	<b>68</b>	<b>423</b>	<b>68</b>	<b>1</b>	<b>560</b>	<b>80</b>	<b>26</b>	<b>53</b>	<b>0</b>	<b>159</b>	<b>1104</b>
*** BREAK ***																					
02:30 PM	11	146	4	0	161	0	22	26	0	48	27	242	48	2	319	36	11	31	0	78	606
02:45 PM	21	141	4	1	167	5	19	29	0	53	30	325	84	2	441	30	19	34	0	83	744
<b>Total</b>	<b>32</b>	<b>287</b>	<b>8</b>	<b>1</b>	<b>328</b>	<b>5</b>	<b>41</b>	<b>55</b>	<b>0</b>	<b>101</b>	<b>57</b>	<b>567</b>	<b>132</b>	<b>4</b>	<b>760</b>	<b>66</b>	<b>30</b>	<b>65</b>	<b>0</b>	<b>161</b>	<b>1350</b>
03:00 PM	15	184	3	3	205	5	16	25	0	46	28	345	67	0	440	63	14	35	0	112	803
03:15 PM	23	180	11	2	216	3	17	26	0	46	25	294	67	6	392	46	23	29	1	99	753
03:30 PM	21	157	6	0	184	6	24	23	0	53	27	312	72	0	411	34	19	33	0	86	734
03:45 PM	24	182	11	0	217	3	20	20	0	43	51	360	68	0	479	54	36	40	0	130	869
<b>Total</b>	<b>83</b>	<b>703</b>	<b>31</b>	<b>5</b>	<b>822</b>	<b>17</b>	<b>77</b>	<b>94</b>	<b>0</b>	<b>188</b>	<b>131</b>	<b>1311</b>	<b>274</b>	<b>6</b>	<b>1722</b>	<b>197</b>	<b>92</b>	<b>137</b>	<b>1</b>	<b>427</b>	<b>3159</b>

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Groups Printed- Class 1 - Class 2

Start Time	TH 61 From North					4th St From East					TH 61 From South					4th St 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	22	151	7	0	180	1	18	24	0	43	58	336	52	12	458	34	24	35	3	96	777
04:15 PM	24	156	7	5	192	3	14	22	0	39	63	342	58	11	474	40	31	30	0	101	806
04:30 PM	19	183	7	0	209	2	25	22	0	49	50	369	58	0	477	29	31	35	0	95	830
04:45 PM	36	211	12	1	260	5	24	16	0	45	47	397	57	3	504	37	31	38	0	106	915
Total	101	701	33	6	841	11	81	84	0	176	218	1444	225	26	1913	140	117	138	3	398	3328
05:00 PM	24	204	8	3	239	3	27	27	0	57	38	313	84	10	445	46	18	27	0	91	832
05:15 PM	26	171	13	0	210	7	20	18	0	45	43	380	67	5	495	46	15	34	0	95	845
05:30 PM	23	197	10	0	230	5	60	33	0	98	28	283	62	2	375	42	23	33	0	98	801
05:45 PM	20	184	6	0	210	4	19	21	0	44	33	317	52	8	410	40	18	21	1	80	744
Total	93	756	37	3	889	19	126	99	0	244	142	1293	265	25	1725	174	74	115	1	364	3222
Grand Total	796	8592	211	31	9630	115	615	832	0	1562	1043	8526	1736	73	11378	1529	609	969	5	3112	25682
Apprch %	8.3	89.2	2.2	0.3		7.4	39.4	53.3	0		9.2	74.9	15.3	0.6		49.1	19.6	31.1	0.2		
Total %	3.1	33.5	0.8	0.1	37.5	0.4	2.4	3.2	0	6.1	4.1	33.2	6.8	0.3	44.3	6	2.4	3.8	0	12.1	
Class 1	779	8280	208	31	9298	114	611	811	0	1536	1036	8170	1704	72	10982	1489	602	945	4	3040	24856
% Class 1	97.9	96.4	98.6	100	96.6	99.1	99.3	97.5	0	98.3	99.3	95.8	98.2	98.6	96.5	97.4	98.9	97.5	80	97.7	96.8
Class 2	17	312	3	0	332	1	4	21	0	26	7	356	32	1	396	40	7	24	1	72	826
% Class 2	2.1	3.6	1.4	0	3.4	0.9	0.7	2.5	0	1.7	0.7	4.2	1.8	1.4	3.5	2.6	1.1	2.5	20	2.3	3.2

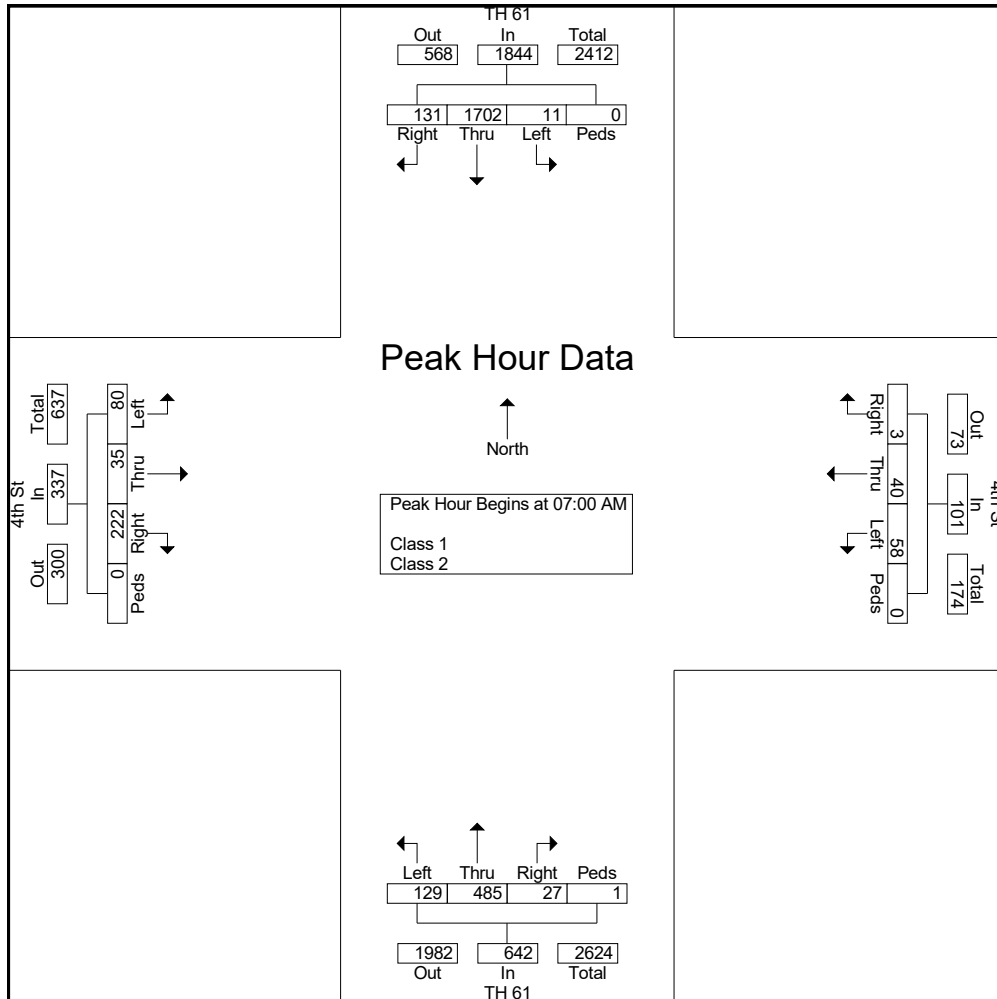
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	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	22	400	4	0	426	1	7	9	0	17	4	106	29	1	140	43	7	20	0	70	653
07:15 AM	33	<b>460</b>	0	0	<b>493</b>	0	13	11	0	24	8	<b>167</b>	<b>39</b>	0	<b>214</b>	<b>73</b>	9	20	0	<b>102</b>	<b>833</b>
07:30 AM	29	457	1	0	487	0	5	<b>23</b>	0	28	6	99	24	0	129	64	9	<b>24</b>	0	97	741
07:45 AM	<b>47</b>	385	<b>6</b>	0	438	<b>2</b>	<b>15</b>	15	0	<b>32</b>	<b>9</b>	113	37	0	159	42	<b>10</b>	16	0	68	697
Total Volume	131	1702	11	0	1844	3	40	58	0	101	27	485	129	1	642	222	35	80	0	337	2924
% App. Total	7.1	92.3	0.6	0		3	39.6	57.4	0		4.2	75.5	20.1	0.2		65.9	10.4	23.7	0		
PHF	.697	.925	.458	.000	.935	.375	.667	.630	.000	.789	.750	.726	.827	.250	.750	.760	.875	.833	.000	.826	.878



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Start Time	TH 61 From North					4th St From East					TH 61 From South					4th St 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 04:30 PM																					
04:30 PM	19	183	7	0	209	2	25	22	0	49	50	369	58	0	477	29	31	35	0	95	830
04:45 PM	36	211	12	1	260	5	24	16	0	45	47	397	57	3	504	37	31	38	0	106	915
05:00 PM	24	204	8	3	239	3	27	27	0	57	38	313	84	10	445	46	18	27	0	91	832
05:15 PM	26	171	13	0	210	7	20	18	0	45	43	380	67	5	495	46	15	34	0	95	845
Total Volume	105	769	40	4	918	17	96	83	0	196	178	1459	266	18	1921	158	95	134	0	387	3422
% App. Total	11.4	83.8	4.4	0.4		8.7	49	42.3	0		9.3	76	13.8	0.9		40.8	24.5	34.6	0		
PHF	.729	.911	.769	.333	.883	.607	.889	.769	.000	.860	.890	.919	.792	.450	.953	.859	.766	.882	.000	.913	.935

