

# ALLIANT ENGINEERING INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

TH 61/Lake St & 11th Ave SW/SE  
 Ref Pt: 160+00.195  
 data by: Alliant Inc  
 TURN MOVEMENT COUNT

File Name : 531\_TH 61-Lake Street and 11th Avenue  
 Site Code : 531  
 Start Date : 11/7/2019  
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH 61/Lake St Southbound					11th Ave SE Westbound					TH 61/Lake St Northbound					11th Ave SW Eastbound					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	1	253	1	0	255	5	4	17	0	26	2	25	23	0	50	52	7	3	0	62	393
06:15 AM	5	237	6	0	248	6	17	19	0	42	8	31	27	0	66	47	4	1	0	52	408
06:30 AM	5	214	2	0	221	4	13	11	0	28	5	49	29	0	83	52	8	0	0	60	392
06:45 AM	4	202	10	0	216	8	12	11	0	31	16	74	39	0	129	60	8	1	0	69	445
<b>Total</b>	<b>15</b>	<b>906</b>	<b>19</b>	<b>0</b>	<b>940</b>	<b>23</b>	<b>46</b>	<b>58</b>	<b>0</b>	<b>127</b>	<b>31</b>	<b>179</b>	<b>118</b>	<b>0</b>	<b>328</b>	<b>211</b>	<b>27</b>	<b>5</b>	<b>0</b>	<b>243</b>	<b>1638</b>
07:00 AM	7	257	18	0	282	5	18	8	0	31	22	78	36	0	136	103	16	3	0	122	571
07:15 AM	10	246	40	0	296	16	30	37	0	83	42	76	61	0	179	127	50	1	0	178	736
07:30 AM	16	212	41	0	269	23	46	53	0	122	68	118	102	0	288	135	44	3	0	182	861
07:45 AM	18	214	17	0	249	14	43	31	0	88	24	94	79	0	197	104	22	2	0	128	662
<b>Total</b>	<b>51</b>	<b>929</b>	<b>116</b>	<b>0</b>	<b>1096</b>	<b>58</b>	<b>137</b>	<b>129</b>	<b>0</b>	<b>324</b>	<b>156</b>	<b>366</b>	<b>278</b>	<b>0</b>	<b>800</b>	<b>469</b>	<b>132</b>	<b>9</b>	<b>0</b>	<b>610</b>	<b>2830</b>
08:00 AM	3	136	9	0	148	5	21	18	0	44	5	71	42	0	118	61	11	3	0	75	385
08:15 AM	9	133	7	0	149	6	8	3	0	17	12	70	36	0	118	45	14	2	0	61	345
08:30 AM	6	119	6	0	131	4	17	9	0	30	10	80	43	0	133	63	11	6	0	80	374
08:45 AM	7	125	6	0	138	12	25	14	0	51	6	100	63	0	169	47	12	1	0	60	418
<b>Total</b>	<b>25</b>	<b>513</b>	<b>28</b>	<b>0</b>	<b>566</b>	<b>27</b>	<b>71</b>	<b>44</b>	<b>0</b>	<b>142</b>	<b>33</b>	<b>321</b>	<b>184</b>	<b>0</b>	<b>538</b>	<b>216</b>	<b>48</b>	<b>12</b>	<b>0</b>	<b>276</b>	<b>1522</b>
09:00 AM	7	109	4	0	120	13	27	8	0	48	5	80	67	0	152	46	12	14	0	72	392
09:15 AM	8	108	6	0	122	6	17	7	0	30	4	100	72	0	176	60	16	3	0	79	407
*** BREAK ***																					
<b>Total</b>	<b>15</b>	<b>217</b>	<b>10</b>	<b>0</b>	<b>242</b>	<b>19</b>	<b>44</b>	<b>15</b>	<b>0</b>	<b>78</b>	<b>9</b>	<b>180</b>	<b>139</b>	<b>0</b>	<b>328</b>	<b>106</b>	<b>28</b>	<b>17</b>	<b>0</b>	<b>151</b>	<b>799</b>
*** BREAK ***																					
10:30 AM	8	90	6	0	104	9	21	7	0	37	11	86	60	0	157	60	11	4	0	75	373
10:45 AM	11	81	2	1	95	4	16	11	0	31	12	76	75	0	163	70	13	7	0	90	379
<b>Total</b>	<b>19</b>	<b>171</b>	<b>8</b>	<b>1</b>	<b>199</b>	<b>13</b>	<b>37</b>	<b>18</b>	<b>0</b>	<b>68</b>	<b>23</b>	<b>162</b>	<b>135</b>	<b>0</b>	<b>320</b>	<b>130</b>	<b>24</b>	<b>11</b>	<b>0</b>	<b>165</b>	<b>752</b>
11:00 AM	9	92	6	1	108	5	17	8	0	30	11	91	64	0	166	59	14	12	0	85	389
11:15 AM	11	98	14	0	123	6	14	7	0	27	2	98	59	0	159	64	19	6	0	89	398
11:30 AM	14	111	6	0	131	10	19	9	0	38	9	105	71	0	185	48	15	9	0	72	426
11:45 AM	7	113	9	1	130	6	13	12	0	31	10	107	77	0	194	52	15	11	0	78	433
<b>Total</b>	<b>41</b>	<b>414</b>	<b>35</b>	<b>2</b>	<b>492</b>	<b>27</b>	<b>63</b>	<b>36</b>	<b>0</b>	<b>126</b>	<b>32</b>	<b>401</b>	<b>271</b>	<b>0</b>	<b>704</b>	<b>223</b>	<b>63</b>	<b>38</b>	<b>0</b>	<b>324</b>	<b>1646</b>
12:00 PM	10	95	6	0	111	10	17	13	0	40	7	105	87	0	199	64	15	10	0	89	439
12:15 PM	21	115	3	0	139	8	9	7	0	24	6	120	69	0	195	69	15	15	0	99	457
12:30 PM	19	81	14	0	114	7	14	12	0	33	5	102	63	0	170	73	12	6	0	91	408
12:45 PM	10	105	16	0	131	11	19	9	0	39	12	94	76	0	182	60	23	10	0	93	445
<b>Total</b>	<b>60</b>	<b>396</b>	<b>39</b>	<b>0</b>	<b>495</b>	<b>36</b>	<b>59</b>	<b>41</b>	<b>0</b>	<b>136</b>	<b>30</b>	<b>421</b>	<b>295</b>	<b>0</b>	<b>746</b>	<b>266</b>	<b>65</b>	<b>41</b>	<b>0</b>	<b>372</b>	<b>1749</b>
01:00 PM	11	99	9	0	119	10	20	16	0	46	10	125	77	0	212	64	13	7	0	84	461
01:15 PM	13	94	6	0	113	8	17	11	0	36	19	103	64	0	186	73	21	11	0	105	440
*** BREAK ***																					
<b>Total</b>	<b>24</b>	<b>193</b>	<b>15</b>	<b>0</b>	<b>232</b>	<b>18</b>	<b>37</b>	<b>27</b>	<b>0</b>	<b>82</b>	<b>29</b>	<b>228</b>	<b>141</b>	<b>0</b>	<b>398</b>	<b>137</b>	<b>34</b>	<b>18</b>	<b>0</b>	<b>189</b>	<b>901</b>
*** BREAK ***																					
02:30 PM	8	115	5	0	128	22	41	32	0	95	15	177	87	0	279	94	22	6	0	122	624
02:45 PM	5	124	11	2	142	13	34	14	0	61	21	194	128	1	344	77	27	5	0	109	656
<b>Total</b>	<b>13</b>	<b>239</b>	<b>16</b>	<b>2</b>	<b>270</b>	<b>35</b>	<b>75</b>	<b>46</b>	<b>0</b>	<b>156</b>	<b>36</b>	<b>371</b>	<b>215</b>	<b>1</b>	<b>623</b>	<b>171</b>	<b>49</b>	<b>11</b>	<b>0</b>	<b>231</b>	<b>1280</b>
03:00 PM	16	102	9	0	127	8	22	13	0	43	20	141	77	0	238	74	19	7	0	100	508
03:15 PM	12	126	8	0	146	16	29	8	0	53	15	154	106	0	275	79	23	8	0	110	584
03:30 PM	13	133	12	1	159	12	30	14	2	58	20	165	107	0	292	92	29	10	0	131	640

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 TURN MOVEMENT COUNT

File Name : 531\_TH 61-Lake Street and 11th Avenue  
 Site Code : 531  
 Start Date : 11/7/2019  
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH 61/Lake St Southbound					11th Ave SE Westbound					TH 61/Lake St Northbound					11th Ave SW Eastbound					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	
03:45 PM	13	133	23	0	169	21	25	25	0	71	28	156	89	0	273	118	35	11	0	164	677
Total	54	494	52	1	601	57	106	60	2	225	83	616	379	0	1078	363	106	36	0	505	2409
04:00 PM	12	133	13	0	158	17	40	18	0	75	35	153	106	0	294	84	27	9	0	120	647
04:15 PM	3	145	17	0	165	12	17	11	0	40	26	163	120	0	309	93	38	6	0	137	651
04:30 PM	7	160	10	0	177	17	29	23	0	69	29	189	101	0	319	113	38	4	0	155	720
04:45 PM	10	146	16	0	172	14	43	17	0	74	26	177	122	0	325	92	35	4	0	131	702
Total	32	584	56	0	672	60	129	69	0	258	116	682	449	0	1247	382	138	23	0	543	2720
05:00 PM	11	150	13	0	174	18	26	16	0	60	29	166	91	0	286	90	33	4	0	127	647
05:15 PM	11	132	15	0	158	20	25	10	0	55	21	146	87	0	254	80	29	7	0	116	583
05:30 PM	15	113	9	1	138	9	18	18	0	45	26	173	90	0	289	86	25	5	0	116	588
05:45 PM	12	141	21	0	174	21	16	11	0	48	27	132	80	0	239	82	23	2	0	107	568
Total	49	536	58	1	644	68	85	55	0	208	103	617	348	0	1068	338	110	18	0	466	2386
Grand Total	398	5592	452	7	6449	441	889	598	2	1930	681	4544	2952	1	8178	3012	824	239	0	4075	20632
Apprch %	6.2	86.7	7	0.1		22.8	46.1	31	0.1		8.3	55.6	36.1	0		73.9	20.2	5.9	0		
Total %	1.9	27.1	2.2	0	31.3	2.1	4.3	2.9	0	9.4	3.3	22	14.3	0	39.6	14.6	4	1.2	0	19.8	
Cars	385	5366	440	6	6197	431	858	590	2	1881	671	4359	2856	1	7887	2904	811	231	0	3946	19911
% Cars	96.7	96	97.3	85.7	96.1	97.7	96.5	98.7	100	97.5	98.5	95.9	96.7	100	96.4	96.4	98.4	96.7	0	96.8	96.5
Trucks	13	226	12	1	252	10	31	8	0	49	10	185	96	0	291	108	13	8	0	129	721
% Trucks	3.3	4	2.7	14.3	3.9	2.3	3.5	1.3	0	2.5	1.5	4.1	3.3	0	3.6	3.6	1.6	3.3	0	3.2	3.5

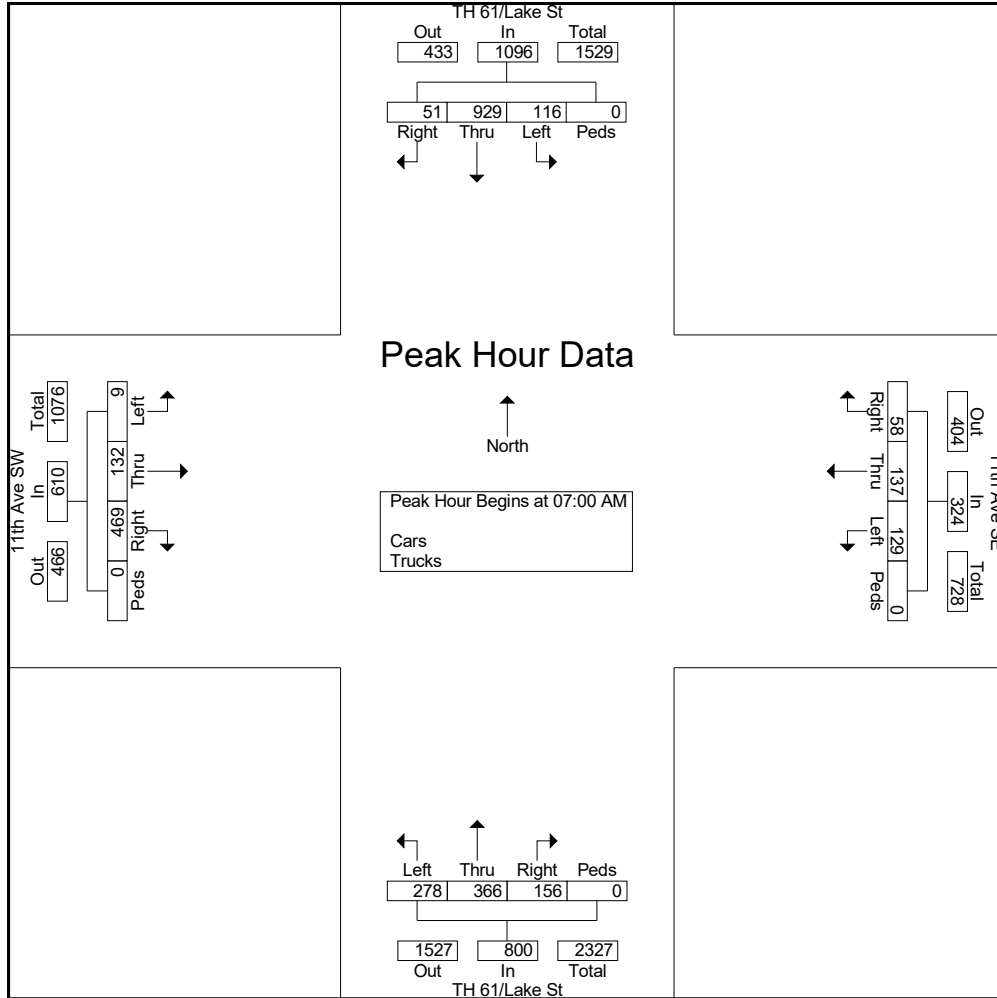
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TH 61/Lake St & 11th Ave SW/SE  
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File Name : 531\_TH 61-Lake Street and 11th Avenue  
 Site Code : 531  
 Start Date : 11/7/2019  
 Page No : 3

Start Time	TH 61/Lake St Southbound					11th Ave SE Westbound					TH 61/Lake St Northbound					11th Ave SW Eastbound					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 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	7	257	18	0	282	5	18	8	0	31	22	78	36	0	136	103	16	3	0	122	571
07:15 AM	10	246	40	0	296	16	30	37	0	83	42	76	61	0	179	127	50	1	0	178	736
07:30 AM	16	212	41	0	269	23	46	53	0	122	68	118	102	0	288	135	44	3	0	182	861
07:45 AM	18	214	17	0	249	14	43	31	0	88	24	94	79	0	197	104	22	2	0	128	662
Total Volume	51	929	116	0	1096	58	137	129	0	324	156	366	278	0	800	469	132	9	0	610	2830
% App. Total	4.7	84.8	10.6	0		17.9	42.3	39.8	0		19.5	45.8	34.8	0		76.9	21.6	1.5	0		
PHF	.708	.904	.707	.000	.926	.630	.745	.608	.000	.664	.574	.775	.681	.000	.694	.869	.660	.750	.000	.838	.822



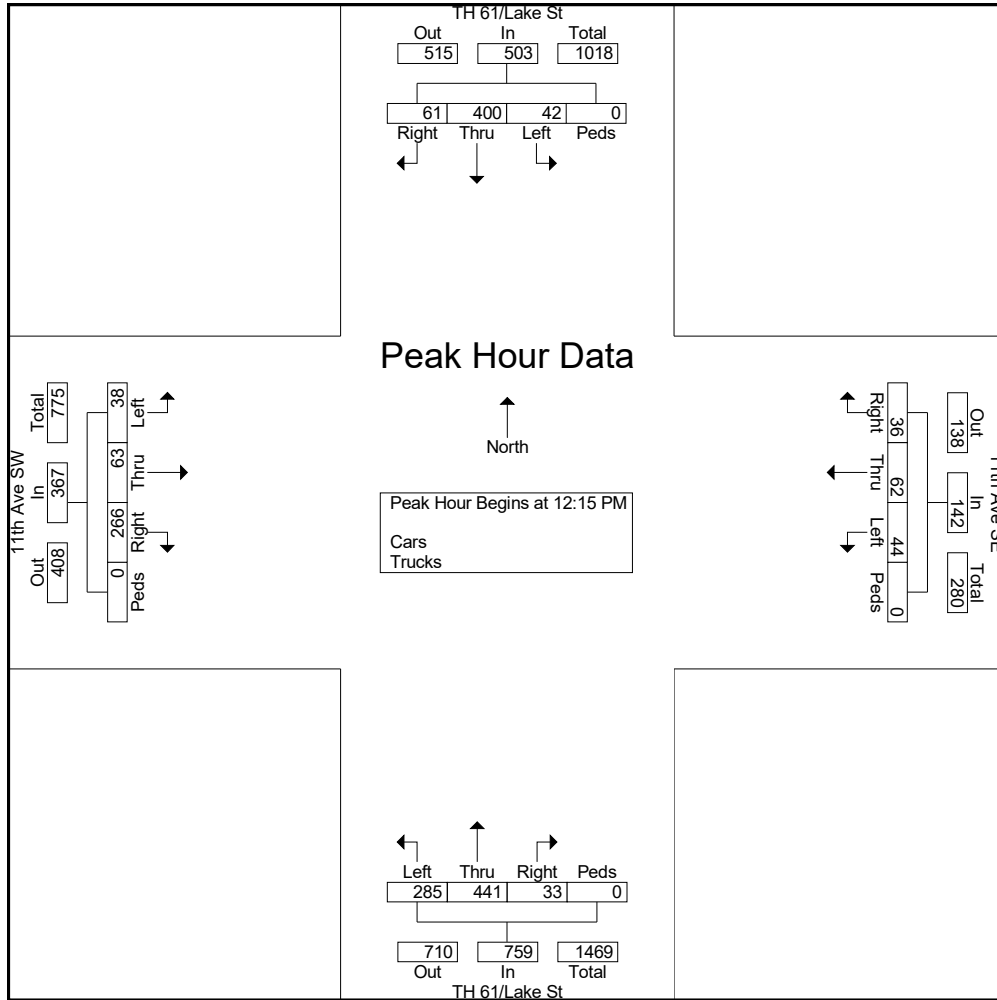
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File Name : 531\_TH 61-Lake Street and 11th Avenue  
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 Start Date : 11/7/2019  
 Page No : 4

Start Time	TH 61/Lake St Southbound					11th Ave SE Westbound					TH 61/Lake St Northbound					11th Ave SW Eastbound					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 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:15 PM																					
12:15 PM	21	115	3	0	139	8	9	7	0	24	6	120	69	0	195	69	15	15	0	99	457
12:30 PM	19	81	14	0	114	7	14	12	0	33	5	102	63	0	170	73	12	6	0	91	408
12:45 PM	10	105	16	0	131	11	19	9	0	39	12	94	76	0	182	60	23	10	0	93	445
01:00 PM	11	99	9	0	119	10	20	16	0	46	10	125	77	0	212	64	13	7	0	84	461
Total Volume	61	400	42	0	503	36	62	44	0	142	33	441	285	0	759	266	63	38	0	367	1771
% App. Total	12.1	79.5	8.3	0		25.4	43.7	31	0		4.3	58.1	37.5	0		72.5	17.2	10.4	0		
PHF	.726	.870	.656	.000	.905	.818	.775	.688	.000	.772	.688	.882	.925	.000	.895	.911	.685	.633	.000	.927	.960



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File Name : 531\_TH 61-Lake Street and 11th Avenue  
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 Start Date : 11/7/2019  
 Page No : 5

Start Time	TH 61/Lake St Southbound					11th Ave SE Westbound					TH 61/Lake St Northbound					11th Ave SW Eastbound					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 02:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	12	133	13	0	158	17	40	18	0	75	35	153	106	0	294	84	27	9	0	120	647
04:15 PM	3	145	17	0	165	12	17	11	0	40	26	163	120	0	309	93	38	6	0	137	651
04:30 PM	7	160	10	0	177	17	29	23	0	69	29	189	101	0	319	113	38	4	0	155	720
04:45 PM	10	146	16	0	172	14	43	17	0	74	26	177	122	0	325	92	35	4	0	131	702
Total Volume	32	584	56	0	672	60	129	69	0	258	116	682	449	0	1247	382	138	23	0	543	2720
% App. Total	4.8	86.9	8.3	0		23.3	50	26.7	0		9.3	54.7	36	0		70.3	25.4	4.2	0		
PHF	.667	.913	.824	.000	.949	.882	.750	.750	.000	.860	.829	.902	.920	.000	.959	.845	.908	.639	.000	.876	.944

