

Albeck Gerken, Inc

Transportation Engineers

Traffic Data Collection

I-494 at Tamarack Rd, west ramps

Woodbury, MN

Ref.Pt.: 059.025

TURN MOVEMENT COUNT

File Name : 16 I-494 West Ramp at Tamarack Rd

Site Code : 16

Start Date : 4/10/2012

Page No : 1

Groups Printed- Cars - Heavy Vehicles

| Start Time | ramp from / loop to I-494 SB Southbound | | | Tamarack Rd Westbound | | | Northbound | Tamarack Rd Eastbound | | | Int. Total |
|------------|---|-------|------|-----------------------|-------|------|------------|-----------------------|------|------|------------|
| | Left | Right | Peds | Thru | Right | Peds | Peds | Left | Thru | Peds | |
| 06:00 | 22 | 14 | 0 | 14 | 21 | 0 | 0 | 3 | 9 | 0 | 83 |
| 06:15 | 25 | 29 | 0 | 17 | 32 | 0 | 0 | 4 | 22 | 0 | 129 |
| 06:30 | 29 | 8 | 0 | 14 | 36 | 0 | 0 | 7 | 29 | 0 | 123 |
| 06:45 | 57 | 12 | 0 | 22 | 32 | 0 | 0 | 7 | 32 | 0 | 162 |
| Total | 133 | 63 | 0 | 67 | 121 | 0 | 0 | 21 | 92 | 0 | 497 |
| 07:00 | 64 | 24 | 0 | 33 | 45 | 0 | 0 | 10 | 47 | 0 | 223 |
| 07:15 | 88 | 34 | 0 | 36 | 66 | 1 | 0 | 4 | 44 | 0 | 273 |
| 07:30 | 100 | 35 | 0 | 50 | 75 | 0 | 0 | 8 | 65 | 0 | 333 |
| 07:45 | 169 | 26 | 0 | 50 | 44 | 0 | 0 | 8 | 75 | 0 | 372 |
| Total | 421 | 119 | 0 | 169 | 230 | 1 | 0 | 30 | 231 | 0 | 1201 |
| 08:00 | 110 | 27 | 0 | 46 | 40 | 0 | 0 | 3 | 57 | 0 | 283 |
| 08:15 | 84 | 31 | 0 | 18 | 45 | 0 | 0 | 3 | 41 | 0 | 222 |
| 08:30 | 71 | 14 | 0 | 22 | 33 | 0 | 0 | 6 | 29 | 0 | 175 |
| 08:45 | 107 | 17 | 0 | 22 | 36 | 0 | 0 | 4 | 28 | 0 | 214 |
| Total | 372 | 89 | 0 | 108 | 154 | 0 | 0 | 16 | 155 | 0 | 894 |
| 09:00 | 79 | 29 | 0 | 25 | 38 | 0 | 0 | 5 | 33 | 0 | 209 |
| 09:15 | 83 | 29 | 0 | 28 | 34 | 0 | 0 | 12 | 38 | 0 | 224 |
| 09:30 | 73 | 9 | 0 | 15 | 30 | 0 | 0 | 1 | 45 | 0 | 173 |
| 09:45 | 74 | 10 | 0 | 28 | 24 | 0 | 0 | 4 | 31 | 1 | 172 |
| Total | 309 | 77 | 0 | 96 | 126 | 0 | 0 | 22 | 147 | 1 | 778 |
| 10:00 | 59 | 8 | 0 | 29 | 27 | 0 | 0 | 5 | 35 | 0 | 163 |
| 10:15 | 62 | 10 | 0 | 19 | 31 | 0 | 0 | 2 | 30 | 0 | 154 |
| 10:30 | 53 | 11 | 0 | 24 | 26 | 0 | 0 | 4 | 29 | 0 | 147 |
| 10:45 | 62 | 15 | 0 | 26 | 27 | 0 | 0 | 1 | 41 | 0 | 172 |
| Total | 236 | 44 | 0 | 98 | 111 | 0 | 0 | 12 | 135 | 0 | 636 |
| 11:00 | 70 | 10 | 0 | 31 | 28 | 0 | 0 | 0 | 30 | 0 | 169 |
| 11:15 | 93 | 10 | 0 | 35 | 32 | 0 | 0 | 1 | 33 | 0 | 204 |
| 11:30 | 79 | 11 | 1 | 38 | 32 | 0 | 0 | 8 | 36 | 0 | 205 |
| 11:45 | 116 | 15 | 0 | 24 | 31 | 0 | 0 | 0 | 48 | 0 | 234 |
| Total | 358 | 46 | 1 | 128 | 123 | 0 | 0 | 9 | 147 | 0 | 812 |
| 12:00 | 97 | 13 | 0 | 36 | 49 | 0 | 0 | 0 | 37 | 0 | 232 |
| 12:15 | 93 | 12 | 0 | 35 | 36 | 0 | 0 | 1 | 38 | 0 | 215 |
| 12:30 | 81 | 20 | 0 | 29 | 34 | 2 | 0 | 1 | 27 | 0 | 194 |
| 12:45 | 93 | 16 | 2 | 39 | 44 | 3 | 0 | 2 | 44 | 0 | 243 |
| Total | 364 | 61 | 2 | 139 | 163 | 5 | 0 | 4 | 146 | 0 | 884 |
| 13:00 | 88 | 13 | 1 | 37 | 36 | 1 | 0 | 5 | 28 | 0 | 209 |
| 13:15 | 102 | 19 | 0 | 31 | 52 | 0 | 0 | 3 | 51 | 0 | 258 |
| 13:30 | 97 | 13 | 0 | 31 | 46 | 0 | 0 | 0 | 33 | 0 | 220 |
| 13:45 | 88 | 17 | 0 | 36 | 41 | 0 | 0 | 1 | 34 | 0 | 217 |
| Total | 375 | 62 | 1 | 135 | 175 | 1 | 0 | 9 | 146 | 0 | 904 |
| 14:00 | 81 | 19 | 0 | 43 | 46 | 0 | 0 | 1 | 46 | 0 | 236 |
| 14:15 | 110 | 24 | 0 | 38 | 62 | 0 | 0 | 4 | 31 | 0 | 269 |
| 14:30 | 107 | 23 | 0 | 55 | 56 | 0 | 0 | 3 | 74 | 0 | 318 |
| 14:45 | 122 | 25 | 0 | 48 | 32 | 0 | 0 | 3 | 71 | 0 | 301 |
| Total | 420 | 91 | 0 | 184 | 196 | 0 | 0 | 11 | 222 | 0 | 1124 |
| 15:00 | 113 | 33 | 0 | 49 | 45 | 0 | 0 | 17 | 77 | 0 | 334 |
| 15:15 | 145 | 20 | 0 | 46 | 59 | 0 | 0 | 6 | 71 | 0 | 347 |
| 15:30 | 120 | 23 | 0 | 41 | 65 | 0 | 0 | 2 | 71 | 0 | 322 |

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TURN MOVEMENT COUNT

File Name : 16 I-494 West Ramp at Tamarack Rd

Site Code : 16

Start Date : 4/10/2012

Page No : 2

Groups Printed- Cars - Heavy Vehicles

| Start Time | ramp from / loop to I-494 SB Southbound | | | Tamarack Rd Westbound | | | Northbound | Tamarack Rd Eastbound | | | Int. Total |
|------------------|---|-------|------|-----------------------|-------|------|------------|-----------------------|------|------|------------|
| | Left | Right | Peds | Thru | Right | Peds | Peds | Left | Thru | Peds | |
| 15:45 | 160 | 40 | 0 | 44 | 42 | 0 | 0 | 3 | 50 | 0 | 339 |
| Total | 538 | 116 | 0 | 180 | 211 | 0 | 0 | 28 | 269 | 0 | 1342 |
| 16:00 | 167 | 33 | 0 | 53 | 75 | 0 | 1 | 7 | 78 | 0 | 414 |
| 16:15 | 191 | 27 | 0 | 36 | 88 | 0 | 1 | 9 | 76 | 0 | 428 |
| 16:30 | 206 | 34 | 0 | 37 | 86 | 0 | 0 | 7 | 61 | 0 | 431 |
| 16:45 | 227 | 34 | 0 | 57 | 81 | 0 | 0 | 6 | 67 | 0 | 472 |
| Total | 791 | 128 | 0 | 183 | 330 | 0 | 2 | 29 | 282 | 0 | 1745 |
| 17:00 | 240 | 22 | 0 | 65 | 99 | 0 | 0 | 10 | 68 | 0 | 504 |
| 17:15 | 252 | 50 | 1 | 62 | 98 | 0 | 0 | 5 | 57 | 0 | 525 |
| 17:30 | 210 | 28 | 0 | 59 | 77 | 0 | 0 | 5 | 93 | 0 | 472 |
| 17:45 | 221 | 20 | 0 | 47 | 63 | 0 | 0 | 2 | 67 | 1 | 421 |
| Total | 923 | 120 | 1 | 233 | 337 | 0 | 0 | 22 | 285 | 1 | 1922 |
| 18:00 | 167 | 17 | 0 | 57 | 76 | 0 | 0 | 4 | 49 | 0 | 370 |
| 18:15 | 150 | 28 | 0 | 53 | 65 | 0 | 1 | 1 | 38 | 0 | 336 |
| 18:30 | 107 | 23 | 0 | 42 | 56 | 0 | 0 | 4 | 42 | 0 | 274 |
| 18:45 | 119 | 18 | 0 | 45 | 46 | 0 | 0 | 1 | 36 | 0 | 265 |
| Total | 543 | 86 | 0 | 197 | 243 | 0 | 1 | 10 | 165 | 0 | 1245 |
| Grand Total | 5783 | 1102 | 5 | 1917 | 2520 | 7 | 3 | 223 | 2422 | 2 | 13984 |
| Apprch % | 83.9 | 16 | 0.1 | 43.1 | 56.7 | 0.2 | 100 | 8.4 | 91.5 | 0.1 | |
| Total % | 41.4 | 7.9 | 0 | 13.7 | 18 | 0.1 | 0 | 1.6 | 17.3 | 0 | |
| Cars | 5687 | 1033 | 5 | 1856 | 2467 | 7 | 3 | 189 | 2317 | 2 | 13566 |
| % Cars | 98.3 | 93.7 | 100 | 96.8 | 97.9 | 100 | 100 | 84.8 | 95.7 | 100 | 97 |
| Heavy Vehicles | 96 | 69 | 0 | 61 | 53 | 0 | 0 | 34 | 105 | 0 | 418 |
| % Heavy Vehicles | 1.7 | 6.3 | 0 | 3.2 | 2.1 | 0 | 0 | 15.2 | 4.3 | 0 | 3 |

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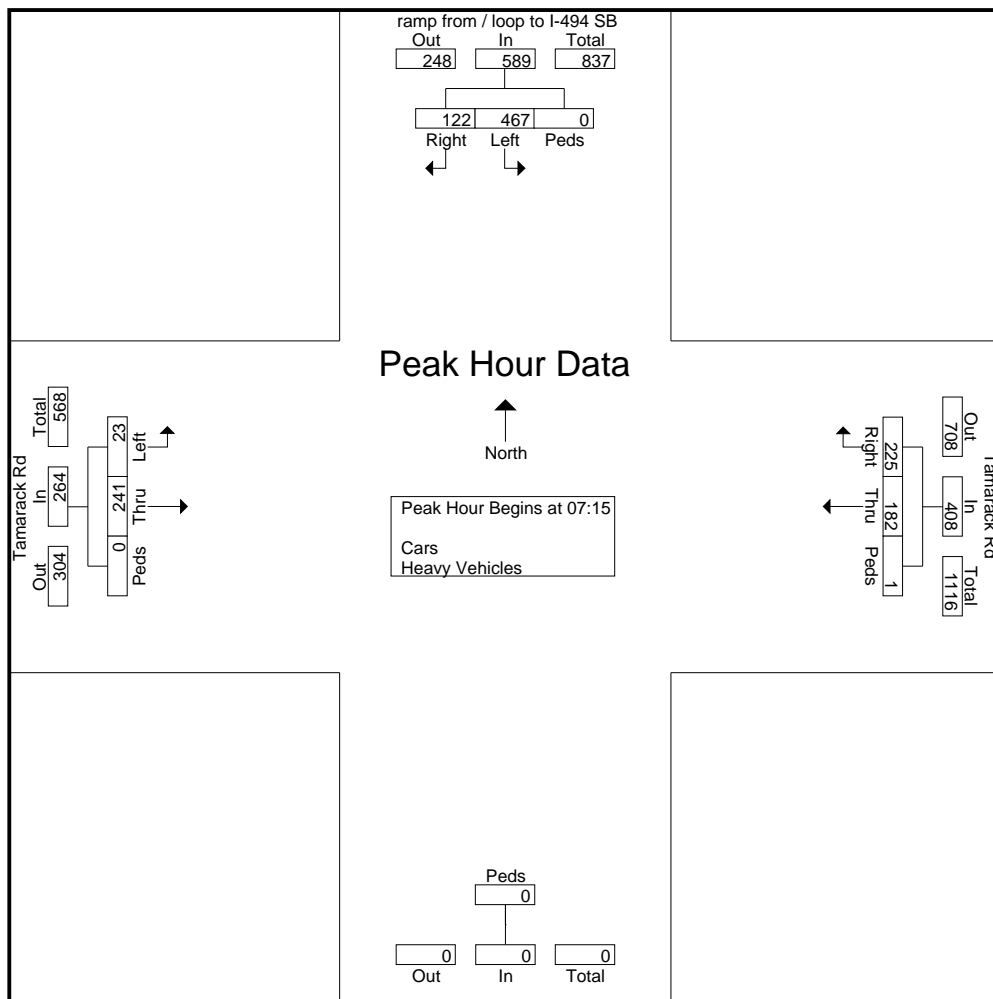
File Name : 16 I-494 West Ramp at Tamarack Rd

Site Code : 16

Start Date : 4/10/2012

Page No : 3

| Start Time | ramp from / loop to I-494 SB Southbound | | | | Tamarack Rd Westbound | | | | Northbound | | Tamarack Rd Eastbound | | | | Int. Total |
|--|---|-------|------|------------|-----------------------|-------|------|------------|------------|------------|-----------------------|------|------|------------|------------|
| | Left | Right | Peds | App. Total | Thru | Right | Peds | App. Total | Peds | App. Total | Left | Thru | Peds | App. Total | |
| Peak Hour Analysis From 06:00 to 09:00 - Peak 1 of 1 | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 | | | | | | | | | | | | | | | |
| 07:15 | 88 | 34 | 0 | 122 | 36 | 66 | 1 | 103 | 0 | 0 | 4 | 44 | 0 | 48 | 273 |
| 07:30 | 100 | 35 | 0 | 135 | 50 | 75 | 0 | 125 | 0 | 0 | 8 | 65 | 0 | 73 | 333 |
| 07:45 | 169 | 26 | 0 | 195 | 50 | 44 | 0 | 94 | 0 | 0 | 8 | 75 | 0 | 83 | 372 |
| 08:00 | 110 | 27 | 0 | 137 | 46 | 40 | 0 | 86 | 0 | 0 | 3 | 57 | 0 | 60 | 283 |
| Total Volume | 467 | 122 | 0 | 589 | 182 | 225 | 1 | 408 | 0 | 0 | 23 | 241 | 0 | 264 | 1261 |
| % App. Total | 79.3 | 20.7 | 0 | | 44.6 | 55.1 | 0.2 | | 0 | 0 | 8.7 | 91.3 | 0 | | |
| PHF | .691 | .871 | .000 | .755 | .910 | .750 | .250 | .816 | .000 | .000 | .719 | .803 | .000 | .795 | .847 |



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File Name : 16 I-494 West Ramp at Tamarack Rd
 Site Code : 16
 Start Date : 4/10/2012
 Page No : 4

| Start Time | ramp from / loop to I-494 SB Southbound | | | | Tamarack Rd Westbound | | | | Northbound | | Tamarack Rd Eastbound | | | | Int. Total |
|--|---|-------|------|------------|-----------------------|-------|------|------------|------------|------------|-----------------------|------|------|------------|------------|
| | Left | Right | Peds | App. Total | Thru | Right | Peds | App. Total | Peds | App. Total | Left | Thru | Peds | App. Total | |
| Peak Hour Analysis From 15:00 to 18:45 - Peak 1 of 1 | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:45 | | | | | | | | | | | | | | | |
| 16:45 | 227 | 34 | 0 | 261 | 57 | 81 | 0 | 138 | 0 | 0 | 6 | 67 | 0 | 73 | 472 |
| 17:00 | 240 | 22 | 0 | 262 | 65 | 99 | 0 | 164 | 0 | 0 | 10 | 68 | 0 | 78 | 504 |
| 17:15 | 252 | 50 | 1 | 303 | 62 | 98 | 0 | 160 | 0 | 0 | 5 | 57 | 0 | 62 | 525 |
| 17:30 | 210 | 28 | 0 | 238 | 59 | 77 | 0 | 136 | 0 | 0 | 5 | 93 | 0 | 98 | 472 |
| Total Volume | 929 | 134 | 1 | 1064 | 243 | 355 | 0 | 598 | 0 | 0 | 26 | 285 | 0 | 311 | 1973 |
| % App. Total | 87.3 | 12.6 | 0.1 | | 40.6 | 59.4 | 0 | | 0 | 0 | 8.4 | 91.6 | 0 | | |
| PHF | .922 | .670 | .250 | .878 | .935 | .896 | .000 | .912 | .000 | .000 | .650 | .766 | .000 | .793 | .940 |

