

Alliant Engineering, Inc.
733 S Marquette Ave #700, Minneapolis, MN 55402

711 TH 120 & Hadley/Joy Rd
Ref.Pt: 007+00.944
data by: Alliant Inc
TURN MOVEMENT COUNT

File Name : 711_TH 120 & Hadley-Joy Road
Site Code : 1736388
Start Date : 4/18/2019
Page No : 1

Groups Printed- Class 1 - Class 2

| Start Time | TH 120 From North | | | | | Hadley Ave From East | | | | | TH 120 From South | | | | | Joy Rd 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 | 3 | 38 | 4 | 0 | 45 | 5 | 1 | 1 | 0 | 7 | 1 | 48 | 1 | 0 | 50 | 1 | 0 | 6 | 0 | 7 | 109 |
| 06:15 AM | 3 | 45 | 6 | 0 | 54 | 8 | 4 | 1 | 0 | 13 | 1 | 45 | 1 | 0 | 47 | 0 | 3 | 10 | 0 | 13 | 127 |
| 06:30 AM | 2 | 52 | 9 | 0 | 63 | 14 | 3 | 3 | 0 | 20 | 0 | 68 | 4 | 0 | 72 | 2 | 1 | 8 | 0 | 11 | 166 |
| 06:45 AM | 1 | 61 | 15 | 0 | 77 | 12 | 3 | 1 | 1 | 17 | 0 | 69 | 5 | 0 | 74 | 2 | 1 | 11 | 0 | 14 | 182 |
| Total | 9 | 196 | 34 | 0 | 239 | 39 | 11 | 6 | 1 | 57 | 2 | 230 | 11 | 0 | 243 | 5 | 5 | 35 | 0 | 45 | 584 |
| 07:00 AM | 11 | 58 | 12 | 0 | 81 | 16 | 1 | 5 | 0 | 22 | 2 | 78 | 3 | 1 | 84 | 1 | 2 | 25 | 0 | 28 | 215 |
| 07:15 AM | 3 | 69 | 11 | 0 | 83 | 19 | 8 | 5 | 0 | 32 | 2 | 112 | 3 | 0 | 117 | 2 | 3 | 24 | 0 | 29 | 261 |
| 07:30 AM | 9 | 76 | 16 | 0 | 101 | 33 | 12 | 1 | 0 | 46 | 3 | 107 | 6 | 2 | 118 | 2 | 5 | 25 | 0 | 32 | 297 |
| 07:45 AM | 14 | 84 | 25 | 0 | 123 | 39 | 15 | 2 | 0 | 56 | 6 | 121 | 5 | 0 | 132 | 5 | 6 | 20 | 0 | 31 | 342 |
| Total | 37 | 287 | 64 | 0 | 388 | 107 | 36 | 13 | 0 | 156 | 13 | 418 | 17 | 3 | 451 | 10 | 16 | 94 | 0 | 120 | 1115 |
| 08:00 AM | 8 | 63 | 23 | 0 | 94 | 19 | 7 | 5 | 0 | 31 | 6 | 96 | 4 | 0 | 106 | 7 | 5 | 22 | 0 | 34 | 265 |
| 08:15 AM | 13 | 83 | 11 | 0 | 107 | 14 | 6 | 2 | 0 | 22 | 2 | 99 | 1 | 0 | 102 | 3 | 2 | 20 | 0 | 25 | 256 |
| 08:30 AM | 6 | 83 | 12 | 0 | 101 | 20 | 4 | 1 | 0 | 25 | 6 | 79 | 4 | 0 | 89 | 5 | 6 | 18 | 0 | 29 | 244 |
| 08:45 AM | 16 | 81 | 12 | 0 | 109 | 25 | 10 | 3 | 0 | 38 | 6 | 124 | 4 | 1 | 135 | 5 | 5 | 8 | 0 | 18 | 300 |
| Total | 43 | 310 | 58 | 0 | 411 | 78 | 27 | 11 | 0 | 116 | 20 | 398 | 13 | 1 | 432 | 20 | 18 | 68 | 0 | 106 | 1065 |
| 09:00 AM | 13 | 69 | 20 | 0 | 102 | 18 | 5 | 3 | 0 | 26 | 10 | 96 | 5 | 0 | 111 | 1 | 3 | 14 | 0 | 18 | 257 |
| 09:15 AM | 6 | 65 | 25 | 0 | 96 | 28 | 4 | 1 | 0 | 33 | 4 | 82 | 5 | 0 | 91 | 3 | 2 | 7 | 0 | 12 | 232 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| Total | 19 | 134 | 45 | 0 | 198 | 46 | 9 | 4 | 0 | 59 | 14 | 178 | 10 | 0 | 202 | 4 | 5 | 21 | 0 | 30 | 489 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| 10:30 AM | 6 | 62 | 15 | 1 | 84 | 19 | 7 | 2 | 0 | 28 | 5 | 110 | 2 | 1 | 118 | 6 | 5 | 11 | 0 | 22 | 252 |
| 10:45 AM | 13 | 90 | 40 | 0 | 143 | 20 | 9 | 3 | 0 | 32 | 4 | 90 | 7 | 0 | 101 | 4 | 8 | 9 | 0 | 21 | 297 |
| Total | 19 | 152 | 55 | 1 | 227 | 39 | 16 | 5 | 0 | 60 | 9 | 200 | 9 | 1 | 219 | 10 | 13 | 20 | 0 | 43 | 549 |
| 11:00 AM | 15 | 81 | 25 | 0 | 121 | 15 | 7 | 4 | 0 | 26 | 3 | 70 | 4 | 0 | 77 | 4 | 8 | 14 | 0 | 26 | 250 |
| 11:15 AM | 9 | 48 | 34 | 0 | 91 | 24 | 9 | 3 | 0 | 36 | 5 | 64 | 6 | 0 | 75 | 4 | 9 | 5 | 0 | 18 | 220 |
| 11:30 AM | 9 | 63 | 24 | 0 | 96 | 28 | 5 | 2 | 0 | 35 | 6 | 80 | 9 | 0 | 95 | 7 | 8 | 10 | 0 | 25 | 251 |
| 11:45 AM | 11 | 81 | 30 | 0 | 122 | 26 | 10 | 9 | 0 | 45 | 8 | 80 | 4 | 1 | 93 | 9 | 7 | 10 | 0 | 26 | 286 |
| Total | 44 | 273 | 113 | 0 | 430 | 93 | 31 | 18 | 0 | 142 | 22 | 294 | 23 | 1 | 340 | 24 | 32 | 39 | 0 | 95 | 1007 |
| 12:00 PM | 8 | 79 | 24 | 0 | 111 | 31 | 7 | 5 | 1 | 44 | 5 | 79 | 8 | 0 | 92 | 9 | 8 | 12 | 0 | 29 | 276 |
| 12:15 PM | 11 | 89 | 22 | 0 | 122 | 32 | 10 | 4 | 0 | 46 | 0 | 71 | 4 | 2 | 77 | 5 | 7 | 10 | 0 | 22 | 267 |
| 12:30 PM | 13 | 71 | 32 | 0 | 116 | 22 | 6 | 0 | 0 | 28 | 5 | 77 | 5 | 0 | 87 | 6 | 17 | 14 | 0 | 37 | 268 |
| 12:45 PM | 17 | 76 | 26 | 0 | 119 | 34 | 10 | 2 | 0 | 46 | 8 | 90 | 5 | 0 | 103 | 3 | 7 | 16 | 0 | 26 | 294 |
| Total | 49 | 315 | 104 | 0 | 468 | 119 | 33 | 11 | 1 | 164 | 18 | 317 | 22 | 2 | 359 | 23 | 39 | 52 | 0 | 114 | 1105 |
| 01:00 PM | 19 | 66 | 33 | 0 | 118 | 27 | 10 | 4 | 0 | 41 | 4 | 72 | 13 | 0 | 89 | 7 | 19 | 10 | 0 | 36 | 284 |
| 01:15 PM | 11 | 67 | 32 | 0 | 110 | 34 | 11 | 4 | 0 | 49 | 3 | 65 | 11 | 1 | 80 | 2 | 10 | 13 | 0 | 25 | 264 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| Total | 30 | 133 | 65 | 0 | 228 | 61 | 21 | 8 | 0 | 90 | 7 | 137 | 24 | 1 | 169 | 9 | 29 | 23 | 0 | 61 | 548 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| 02:30 PM | 19 | 110 | 34 | 0 | 163 | 25 | 4 | 1 | 0 | 30 | 8 | 88 | 8 | 0 | 104 | 6 | 3 | 17 | 0 | 26 | 323 |
| 02:45 PM | 16 | 97 | 34 | 0 | 147 | 31 | 12 | 2 | 0 | 45 | 7 | 108 | 7 | 1 | 123 | 11 | 12 | 11 | 0 | 34 | 349 |
| Total | 35 | 207 | 68 | 0 | 310 | 56 | 16 | 3 | 0 | 75 | 15 | 196 | 15 | 1 | 227 | 17 | 15 | 28 | 0 | 60 | 672 |
| 03:00 PM | 24 | 102 | 35 | 0 | 161 | 28 | 9 | 3 | 0 | 40 | 4 | 81 | 5 | 1 | 91 | 11 | 7 | 16 | 0 | 34 | 326 |
| 03:15 PM | 24 | 114 | 30 | 0 | 168 | 30 | 6 | 3 | 11 | 50 | 4 | 114 | 4 | 11 | 133 | 4 | 13 | 15 | 0 | 32 | 383 |
| 03:30 PM | 28 | 113 | 31 | 0 | 172 | 27 | 12 | 3 | 11 | 53 | 6 | 76 | 9 | 7 | 98 | 10 | 20 | 14 | 0 | 44 | 367 |
| 03:45 PM | 23 | 82 | 44 | 0 | 149 | 31 | 11 | 7 | 0 | 49 | 7 | 109 | 8 | 1 | 125 | 6 | 12 | 10 | 2 | 30 | 353 |
| Total | 99 | 411 | 140 | 0 | 650 | 116 | 38 | 16 | 22 | 192 | 21 | 380 | 26 | 20 | 447 | 31 | 52 | 55 | 2 | 140 | 1429 |

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File Name : 711_TH 120 & Hadley-Joy Road
Site Code : 1736388
Start Date : 4/18/2019
Page No : 2

Groups Printed- Class 1 - Class 2

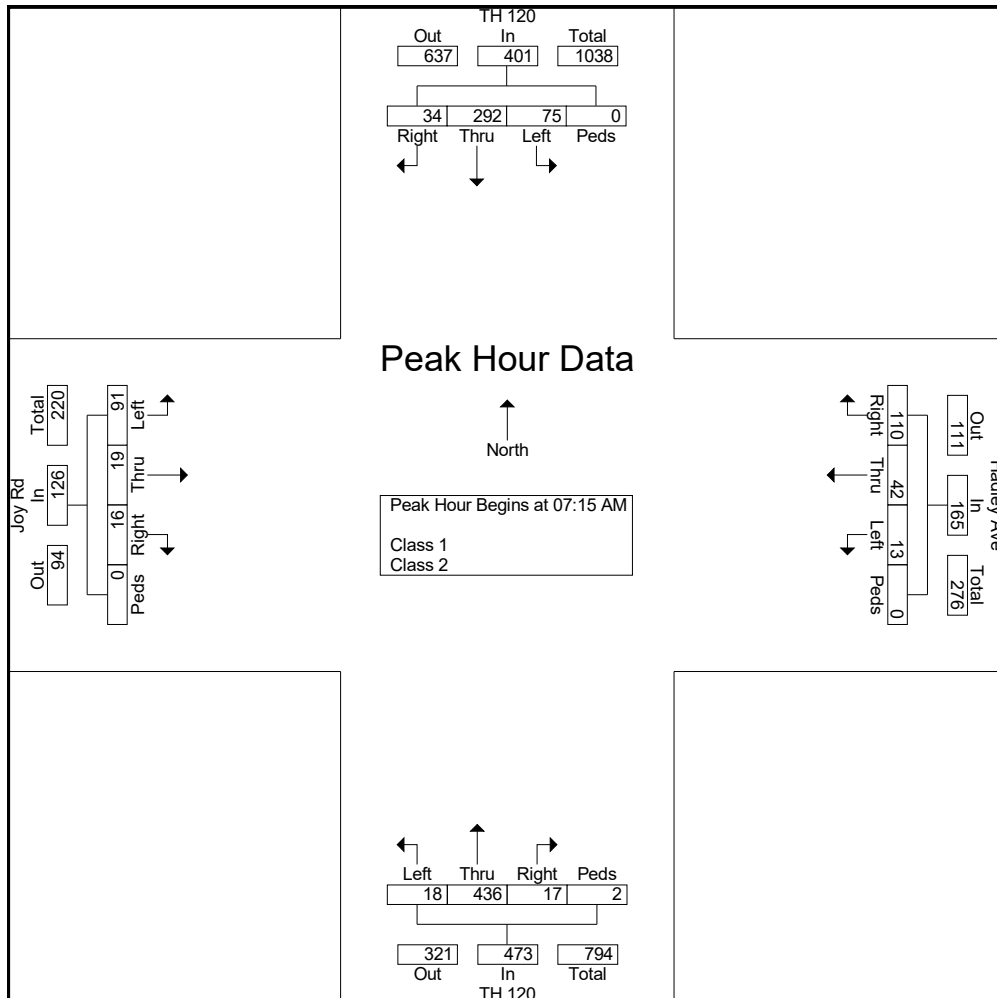
| Start Time | TH 120 From North | | | | | Hadley Ave From East | | | | | TH 120 From South | | | | | Joy Rd From West | | | | | Int. Total |
|-------------|----------------------|------|------|------|------------|-------------------------|------|------|------|------------|----------------------|------|------|------|------------|---------------------|------|------|------|------------|------------|
| | 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 | 98 | 31 | 0 | 151 | 38 | 18 | 4 | 0 | 60 | 2 | 111 | 13 | 1 | 127 | 11 | 12 | 21 | 0 | 44 | 382 |
| 04:15 PM | 21 | 87 | 46 | 0 | 154 | 37 | 9 | 2 | 0 | 48 | 10 | 114 | 9 | 0 | 133 | 5 | 16 | 15 | 0 | 36 | 371 |
| 04:30 PM | 27 | 80 | 35 | 0 | 142 | 39 | 14 | 5 | 0 | 58 | 6 | 131 | 8 | 0 | 145 | 10 | 6 | 21 | 0 | 37 | 382 |
| 04:45 PM | 25 | 77 | 24 | 0 | 126 | 26 | 15 | 4 | 0 | 45 | 6 | 96 | 9 | 0 | 111 | 7 | 15 | 17 | 0 | 39 | 321 |
| Total | 95 | 342 | 136 | 0 | 573 | 140 | 56 | 15 | 0 | 211 | 24 | 452 | 39 | 1 | 516 | 33 | 49 | 74 | 0 | 156 | 1456 |
| 05:00 PM | 21 | 82 | 22 | 0 | 125 | 32 | 15 | 3 | 0 | 50 | 10 | 105 | 7 | 0 | 122 | 14 | 7 | 20 | 0 | 41 | 338 |
| 05:15 PM | 27 | 82 | 28 | 0 | 137 | 27 | 7 | 2 | 0 | 36 | 14 | 129 | 6 | 0 | 149 | 9 | 6 | 17 | 0 | 32 | 354 |
| 05:30 PM | 19 | 68 | 23 | 0 | 110 | 37 | 13 | 3 | 0 | 53 | 11 | 129 | 10 | 2 | 152 | 8 | 19 | 26 | 0 | 53 | 368 |
| 05:45 PM | 27 | 77 | 26 | 0 | 130 | 20 | 9 | 1 | 0 | 30 | 4 | 140 | 7 | 0 | 151 | 7 | 14 | 12 | 0 | 33 | 344 |
| Total | 94 | 309 | 99 | 0 | 502 | 116 | 44 | 9 | 0 | 169 | 39 | 503 | 30 | 2 | 574 | 38 | 46 | 75 | 0 | 159 | 1404 |
| Grand Total | 573 | 3069 | 981 | 1 | 4624 | 1010 | 338 | 119 | 24 | 1491 | 204 | 3703 | 239 | 33 | 4179 | 224 | 319 | 584 | 2 | 1129 | 11423 |
| Apprch % | 12.4 | 66.4 | 21.2 | 0 | | 67.7 | 22.7 | 8 | 1.6 | | 4.9 | 88.6 | 5.7 | 0.8 | | 19.8 | 28.3 | 51.7 | 0.2 | | |
| Total % | 5 | 26.9 | 8.6 | 0 | 40.5 | 8.8 | 3 | 1 | 0.2 | 13.1 | 1.8 | 32.4 | 2.1 | 0.3 | 36.6 | 2 | 2.8 | 5.1 | 0 | 9.9 | |
| Class 1 | 558 | 2963 | 960 | 1 | 4482 | 994 | 335 | 112 | 23 | 1464 | 193 | 3567 | 236 | 27 | 4023 | 221 | 318 | 574 | 0 | 1113 | 11082 |
| % Class 1 | 97.4 | 96.5 | 97.9 | 100 | 96.9 | 98.4 | 99.1 | 94.1 | 95.8 | 98.2 | 94.6 | 96.3 | 98.7 | 81.8 | 96.3 | 98.7 | 99.7 | 98.3 | 0 | 98.6 | 97 |
| Class 2 | 15 | 106 | 21 | 0 | 142 | 16 | 3 | 7 | 1 | 27 | 11 | 136 | 3 | 6 | 156 | 3 | 1 | 10 | 2 | 16 | 341 |
| % Class 2 | 2.6 | 3.5 | 2.1 | 0 | 3.1 | 1.6 | 0.9 | 5.9 | 4.2 | 1.8 | 5.4 | 3.7 | 1.3 | 18.2 | 3.7 | 1.3 | 0.3 | 1.7 | 100 | 1.4 | 3 |

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Start Date : 4/18/2019
Page No : 3

| Start Time | TH 120 From North | | | | | Hadley Ave From East | | | | | TH 120 From South | | | | | Joy Rd 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 07:15 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 3 | 69 | 11 | 0 | 83 | 19 | 8 | 5 | 0 | 32 | 2 | 112 | 3 | 0 | 117 | 2 | 3 | 24 | 0 | 29 | 261 |
| 07:30 AM | 9 | 76 | 16 | 0 | 101 | 33 | 12 | 1 | 0 | 46 | 3 | 107 | 6 | 2 | 118 | 2 | 5 | 25 | 0 | 32 | 297 |
| 07:45 AM | 14 | 84 | 25 | 0 | 123 | 39 | 15 | 2 | 0 | 56 | 6 | 121 | 5 | 0 | 132 | 5 | 6 | 20 | 0 | 31 | 342 |
| 08:00 AM | 8 | 63 | 23 | 0 | 94 | 19 | 7 | 5 | 0 | 31 | 6 | 96 | 4 | 0 | 106 | 7 | 5 | 22 | 0 | 34 | 265 |
| Total Volume | 34 | 292 | 75 | 0 | 401 | 110 | 42 | 13 | 0 | 165 | 17 | 436 | 18 | 2 | 473 | 16 | 19 | 91 | 0 | 126 | 1165 |
| % App. Total | 8.5 | 72.8 | 18.7 | 0 | | 66.7 | 25.5 | 7.9 | 0 | | 3.6 | 92.2 | 3.8 | 0.4 | | 12.7 | 15.1 | 72.2 | 0 | | |
| PHF | .607 | .869 | .750 | .000 | .815 | .705 | .700 | .650 | .000 | .737 | .708 | .901 | .750 | .250 | .896 | .571 | .792 | .910 | .000 | .926 | .852 |



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File Name : 711_TH 120 & Hadley-Joy Road
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| Start Time | TH 120 From North | | | | | Hadley Ave From East | | | | | TH 120 From South | | | | | Joy Rd 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 03:45 PM | | | | | | | | | | | | | | | | | | | | | |
| 03:45 PM | 23 | 82 | 44 | 0 | 149 | 31 | 11 | 7 | 0 | 49 | 7 | 109 | 8 | 1 | 125 | 6 | 12 | 10 | 2 | 30 | 353 |
| 04:00 PM | 22 | 98 | 31 | 0 | 151 | 38 | 18 | 4 | 0 | 60 | 2 | 111 | 13 | 1 | 127 | 11 | 12 | 21 | 0 | 44 | 382 |
| 04:15 PM | 21 | 87 | 46 | 0 | 154 | 37 | 9 | 2 | 0 | 48 | 10 | 114 | 9 | 0 | 133 | 5 | 16 | 15 | 0 | 36 | 371 |
| 04:30 PM | 27 | 80 | 35 | 0 | 142 | 39 | 14 | 5 | 0 | 58 | 6 | 131 | 8 | 0 | 145 | 10 | 6 | 21 | 0 | 37 | 382 |
| Total Volume | 93 | 347 | 156 | 0 | 596 | 145 | 52 | 18 | 0 | 215 | 25 | 465 | 38 | 2 | 530 | 32 | 46 | 67 | 2 | 147 | 1488 |
| % App. Total | 15.6 | 58.2 | 26.2 | 0 | | 67.4 | 24.2 | 8.4 | 0 | | 4.7 | 87.7 | 7.2 | 0.4 | | 21.8 | 31.3 | 45.6 | 1.4 | | |
| PHF | .861 | .885 | .848 | .000 | .968 | .929 | .722 | .643 | .000 | .896 | .625 | .887 | .731 | .500 | .914 | .727 | .719 | .798 | .250 | .835 | .974 |

